

TECHNICAL APPENDIX

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2050 Connections Brochure

Vision

CMMPO envisions a safe, efficient, and well-maintained multi-modal transportation system, integrating land use planning and economic development to improve people's lives.

CMMPO's vision for Central Massachusetts in 2050 is 40 wellconnected, livable communities with reduced congestion, improved multimodal mobility, and better air quality. Innovating transportation methods for seamless movement of people and goods between homes, jobs, and services.

Overview

The Central Massachusetts Metropolitan Planning Organization (CMMPO) presents 2050 Connections, a comprehensive plan designed to address the transportation needs of the south/central Massachusetts planning region over the next 25 years. It emphasizes community engagement, performancebased planning, and financial sustainability for a connected and sustainable transportation system, fostering growth and enhancing quality of life.

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2050 Connections

Long Range Transportation Plan for the Central Massachusetts Metropolitan Planning Organization

2050Connections Highlights



INTRODUCTION AND BACKGROUND

Overview of CMMPO's transportation vision, goals, and objectives, along with MassDOT's statewide plan "Beyond Mobility". It also covers the CMMPO's programmatic areas, federal and state guidance, and highlights public outreach and equity considerations.

PLANNING CONSIDERATIONS MINI AND RESOURCES

This chapter emphasizes public engagement efforts, including stakeholder meetings and outreach events. It summarizes the outcomes and equity considerations. It also covers performance measures, grant programs, MassDOT's statewide plans, and community priorities.



RANSPORTATION LINKAGES

This chapter explores transportation planning linkages, considering financial constraints and providing guidance. It presents population and employment projections, future planning scenarios, and linkages to CMRPC's IMAGINE 2050 effort, including Land Use, Economic Development, and Access to Essential Services.



祛 <u>Planning Areas, Modes, and</u> 🔫 Related Programmatic Areas

This chapter highlights the CMMPO's multimodal transportation system, including current conditions and prioritized needs for each mode. It also covers key planning areas such as safety, congestion management, asset management, environmental planning, livability, and emerging technologies.

Programs and Projects Prioritization

This chapter highlights data integration efforts and priority identification methods for the CMMPO's programmatic areas. It includes equity analysis, highway infrastructure improvements, and a summary of priorities for various transportation projects and initiatives.

Financial Plan

This chapter focuses on the financial aspects of the plan, including funding scenarios, projected revenues and expenses for highway and transit projects, and summaries of funding sources. It emphasizes the importance of financial constraints and the effective utilization of available transportation funds.



Air Quality and Greenhouse <u>Gas Assessment</u>

This final chapter addresses air quality conformity and greenhouse gas assessments, ensuring compliance with national standards and state requirements. It also includes an analysis of potential emissions impacts for major infrastructure projects, aligning with MassDOT's guidance.



GOALS

1. Reduce Congestion and Improve Mobility for All Modes 2. Improve Safety and Security

- 3. Achieve a State of Good Repair
- **4. Increase Transportation Options** and Promote Healthy Modes
- 5. Reduce Greenhouse Gas **Emissions and Promote** Sustainability
- 6.Ensure Equitable Transportation for All Populations
- 7.Enhance Economic Vitality and Freight Movement

Join us in building a sustainable, connected region with improved mobility and reduced congestion for all.

Visión

El CMMPO cree en un Sistema de transporte multimodal, Seguro, eficiente y bien mantenido en armon*í*a con el uso de suelo y el desarrollo econ*ó*mico para mejorar la calidad de vida.

El CMMPO's visualiza una regi*ó*n de 40 comunidades en crecimiento, bien conectada y habitable, con menos congesti*ó*n vehicular y una mejor calidad del aire. Modos de transporte saludables y creativos mover*á*n a las personas de forma segura y eficiente y facilitaran el movimiento de bienes.

Trasfondo

La Organización Metropolitana de Planificación de la región Central de Massachusetts (CMMPO, por sus siglas en Inglés) presenta 2050 Connections, un plan de transportación comprensivo diseñado para atender las necesidades de transportación de la región central de Massachusetts por los próximos 25 años. El plan enfatiza en la participación comunitaria. las medidas de desempeño del sistema de transportes y la sustentabilidad fiscal que apoye el crecimiento y mejore la calidad de vida de las personas en la región.

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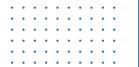






2050 Connections

Plan de Transportación a Largo Plazo de la Organización Metropolitana de Planificación de la Región Central de Massachusetts



2050Connections



Introducción y Trasfondo

Capítulo introductorio que presenta la vision del CMMPO, las metas y los objetivos del plan, e incluye información sobre el plan de MassDOT, "Beyond Mobility".



Consideraciones de Planificación y Recursos

Para desarrollar el plan se tomaron en cuenta la información provista por los procesos participativos, las medidas de desempeño y aspectos de equidad. Tambien se incluye un resumen de las políticas públicas y requerimientos provistos por MassDOT.



Presenta las proyecciones de población y empleo que se utilizan en el análisis de escenarios. Además incluye una sección sobre IMAGINE 2050, el plan regional de CMRPC.



Áreas de Planificación, Modos **y Programas**

Este capítulo incluye los modos de transporte y analiza las condiciones actuales, los datos y las necesidades. También incluye temas como seguridad, congestión vehicular, mantenimiento de la infraestructura, el medio ambiente y tecnologías emergentes.



Prioridades de Programas y Provectos

Explica el proceso de establecer prioridades y los métodos utilizados, incluyendo un análisis de equidad, medidas de desempeño, insumo comunitario y proyectos de impacto regional.



Plan Económico

Este capítulo incluye los aspectos financieros del plan, incluyendo los escenarios financieros, ingresos y gastos proyectados para proyectos de autopistas y transporte público. Incluye un resumen de otros fondos disponibles en la región.



Calidad del Aire y Evaluación de Gases de Efecto de Invernadero

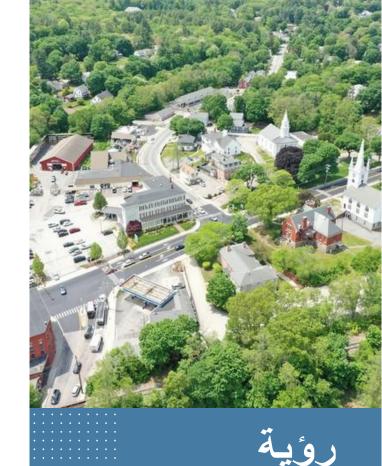
Este capítulo incluye la evaluación y los aspectos de conformidad de la calidad del aire y asegura el cumplimiento con los requerimientos federales y estándares nacionales.



METAS

- l. Reducir la congestión y mejorar la movilidad
- 2. Mejorar la seguridad en el tránsito
- 3. Mantener el buen estado y
- funcionamiento de la infraestructura
- 4. Aumentar las opciones de transportes saludables
- 5. Reducir los gases de efecto de invernadero
- 6. Asegurar un sistema de transportación justo y equitativo
- 7. Mejorar la vitalidad económica y el movimiento de carga y acarreo

Trabajemos juntos para lograr una región sostenible, habitable, y conectada con opciones de movilidad y menos congestión vehicular.



تتوخى CMMPO نظامًا للنقل متعدد الوسائط آمنًا وفعالًا وحسن الصيانة، ليدمج تخطيط إستخدام الأراضي والتنمية الاقتصادية لتحسين حياة الناس.

تتمثل رؤية CMMPO لوسط ماساتشوستس لعام 2050 في 40 مجتمعًا متصلًا جيدًا وصالحًا للعيش مع تقليل الازدحام وتحسين التنقل متعدد الوسائط وتحسين جودة الهواء. ابتكار طرق النقل للتنقل السلس للأشخاص والسلع بين المنازل والوظائف والخدمات.

نظرة عامة

تقوم منظمة وسط ماساتشوستس للتخطيط الحضري (CMIMPO) بتقديم 2050 إتصالاً، وهي خطة شاملة مصممة لتلبية إحتياجات النقل في منطقة التخطيط لجنوب/وسط ماساتشوستس على مدى السنوات الـ 25 المقبلة. وهي قوكد على المشل كة المجتمعية، والتخطيط القائم على الأداء، والاستدامة المالية لنظام نقل متصل ومستدام مما يعزز النمو وتحسين جودة الحياة.









2050 إتصالات

خطة النقل طويلة المدى لمنظمة وسط ماساتشوستس للتخطيط الحضري

مجالات التخطيط والا البرامجية ذات الصلة

يسلط هذا الفصل الضوء على نظام النقل متعدد الوسائط التابع لـ CMMPO بما في ذلك الظروف الحالية والاحتياجات ذات الأولوية لكل وضع. كما يغطي مجالات التخطيط الرئيسية مثل السلامة وإدارة الازدحام وإدارة الأصول والتخطيط البيئي وقابلية العيش والتقنيات الناشئة.

مجالات التخطيط والأوضاع والمجالات

أولويات البرامج والمشاريع

يسلط هذا الفصل الضوء على نظام النقل متعدد الوسائط التابع لـ CMMPO بما في ذلك الظروف الحالية والاحتياجات ذات الأولوية لكل وضع. كما يغطي مجالات التخطيط الرئيسية مثل السلامة وإدارة الازدحام وإدارة الأصول والتخطيط البيئي وقابلية العيش والتقنيات الناشئة.

الخطة المالية

يركز هذا الفصل على الجوانب المالية للخطة بما في ذلك سيناريوهات التمويل والإيرادات والنفقات المتوقعة لمشاريع الطرق السريعة والعبور وملخصات مصادر التمويل. ويؤكد على أهمية القيود المالية والإستخدام الفعال لأموال النقل المتاحة.

جودة الهواء وتقييم الغازات المسببة للاحتباس الحراري

يتناول هذا الفصل الأخير مطابقة جودة الهواء وتقييمات غازات الإحتباس الحراري مما يضمن الامتثال للمعايير الوطنية ومتطلبات الدولة. كما يتضمن تحليلاً لتأثيرات الانبعاثات المحتملة لمشاريع البنية التحتية الكبرى بما يتماشى مع إرشادات MassDOT.



الأهداف

- الحد من الازدحام وتحسين التنقل لجميع
 الأوضاع
 - 2. تحسين الأمن والسلامة
 - 3. تحقيق حالة إصلاح جيدة
- .4 زيادة خيارات النقل وتعزيز الأوضاع الصحية
- تقليل انبعاثات غازات الاحتباس الحراري وتعزيز الاستدامة
 - ضمان النقل العادل لجميع السكان
 - 7. تعزيز الحيوية الاقتصادية وحركة الشحن

إنضم إلينا في بناء منطقة مستدامة ومتصلة مع تحسين التنقل وتقليل الازدحام للجميع.

لمقدمة والخلفية

تسليط الضوء

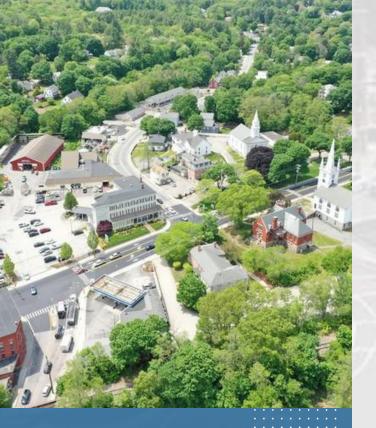
نظرة عامة على رؤية وأهداف وغايات النقل لمنظمة CMMPO، جنبًا إلى جنب مع خطة MassDOT على مستوى الولاية تحت عنوان «ما وراء التنقل - Beyond Mobility». كما يغطي المجالات البرامجية لمنظمة CMMPO والتوجيه الفيدرالي والولائي، ويسلط الضوء على توعية الجمهور و إعتبارات العدالة.

على 2050 إتصالات

تخطيط الإعتبارات والموارد

يركز هذا الفصل على جهود مشاركة الجمهور بما في ذلك إجتماعات أصحاب المصلحة و أنشطة التوعية. و يلخص النتائج و إعتبارات العدالة. كما يغطي مقاييس الأداء، و برامج المنح، و خطط MassDOT على مستوى الولاية و أولويات المجتمع.

يستكشف هذا الفصل الروابط بين تخطيط النقل مع مراعاة القيود المالية وتقديم التوجيه. و يقدم توقعات السكان والعمالة، وسيناريوهات التخطيط المستقبلية، والروابط بجهود IMAGINE 2050 التي تبذلها الـ CMRPC، بما في ذلك إستخدام الأراضي، والتنمية الاقتصادية، والوصول إلى الخدمات الأساسية.



愿景

CMMPO 设想了一个安全、高效和维护良好 的多式联运系统, 集土地利用规划和经济发 展于一体,改善人民生活。

CMMPO 对马萨诸塞州中部

的愿景是,到2050年,打造40个 交通便利、宜居的社区,减少拥堵,改进 多式联运交通,改善空气质量。 多种创新交通方式,实现家庭、工作和服务 之间人员和货物的无缝流动。

概述

马萨诸塞州中部大都市规划组织 (CMMPO) 提出了 2050 Connections (2050 交通),这是 一项旨在满足未来 25 年马萨诸塞州 南部/中部规划区域交通需求的综合计 划。它强调社区参与、基于绩效的规 划和财务可持续性,以建立一个连通 和可持续的交通系统,促进增长并提 高生活质量。

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MPO



2050 **Connections**

马萨诸塞州中部大都市 规划组织 长期交通计划

2050 Connections (2050 交通) 亮点



概述 CMMPO 的交通愿景,目标和目的,以及 MassDOT 的全州计划 Beyond Mobility (超越交 通)。它还涵盖了 CMMPO 的计划领域、联邦和州 的指导意见,并强调了公共宣传和公平性方面的考 虑因素。



本章强调公众参与工作,包括利益相关者会议和 外展活动。它总结了成果和公平考虑因素。它还 涵盖了绩效衡量标准、拨款计划、MassDOT的 全州计划和社区优先事项。



规划区、模式和相关计划区域

本章重点介绍 CMMPO 的多式联运系统,包括每 种模式的当前条件和优先需求。它还涵盖了关键 规划领域,如安全、拥堵管理、资产管理、环境 规划、宜居性和新兴技术。



本章重点介绍 CMMPO 计划领域的数据整合工 作和优先级确定方法。它包括公平性分析、高速 公路基础设施的改善以及各种交通项目和举措的 优先级摘要。



本章重点介绍该计划的财务方面,包括供资方案、 公路和交通项目的预计收入和支出以及资金来源 摘要。它强调财政限制和有效利用可用交通资金 的重要性。



本章探讨了交通规划之间的联系,考虑了财务限制并提供了指导。它介绍了人口和就业预测、未来规划方案以及与 CMRPC 的 IMAGINE 2050 工作的联系,包括土地利用、经济发展和获得基本服务。



最后一章涉及空气质量合格性和温室气体评估,确保符合国家标准和国家要求。它还包括对主要基础设施项目潜在排放影响的分析,与 MassDOT的指导保持一致。



目标

1.减少拥堵并提高所有交通模式

4. 增加交通选择, 推广健康模式

加入我们,建设一个可持续的, 互联区域,为所有人改善交通、减少拥堵。

5. 减少温室气体排放,促进可

6. 确保所有人口的公平交通 7. 增强经济活力和货运

2. 提高安全性

持续发展

3. 达到良好的维修状态

Vision

La CMMPO envisage un système de transport multimodal sûr, efficace et bien entretenu, intégrant l'aménagement du territoire et le développement économique afin d'améliorer la vie des gens.

La vision de la CMMPO pour le Massachusetts du centre en 2050 comprend 40 communautés bien connectées où il fait bon vivre, avec une réduction des embouteillages, une amélioration de la mobilité multimodale et une meilleure qualité de l'air. Des moyens de transport innovants pour une circulation fluide des personnes et des marchandises entre les domiciles, les lieux de travail et les services.

Aperçu

La Central Massachusetts Metropolitan Planning Organization (CMMPO) présente 2050 Connections, un plan global conçu pour répondre aux besoins de transport de la région de planification du sud et du centre du Massachusetts au cours des 25 prochaines années. Elle met l'accent sur l'engagement communautaire, la planification basée sur les performances et la viabilité financière pour un système de transport connecté et durable, favorisant la croissance et améliorant la qualité de vie.

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2050 Connections

Plan de transport à grandes distances pour la Central Massachusetts Metropolitan Planning Organization

Aspects essentiels de **2050 Connections**



Apercu de la vision, des buts et des objectifs de la CMMPO en matière de transport, ainsi que du plan de MassDOT« Beyond Mobility » à l'échelle de l'État. Il couvre également les domaines programmatiques de la CMMPO, les orientations fédérales et de l'État, et met l'accent sur la sensibilisation du public et les considérations d'équité.



Ce chapitre met l'accent sur les efforts d'engagement du public, y compris les réunions des parties prenantes et les événements de sensibilisation. Il résume les résultats et les considérations d'équité. Il porte également sur les mesures de performance, les programmes de subvention, les plans de MassDOT au niveau de l'État et les priorités de la communauté.



LIENS DE TRANSPORT

Ce chapitre explore les liens des plans de transport, en tenant compte des contraintes financières et en fournissant des orientations. Il présente les projections de population et d'emploi, les scénarios de planification future et les liens avec l'initiative IMAGINE 2050 de la CMRPC, y compris l'utilisation des terres, le développement économique et l'accès aux services essentiels.



Domaines de planification, modes de transport et domaines programmatiques connexes

Ce chapitre présente le système de transport multimodal de la CMMPO, y compris les conditions actuelles, ainsi que les besoins prioritaires pour chaque mode de transport. Il couvre également des domaines de planification clés tels que la sécurité, la gestion des embouteillages, la gestion des actifs, la planification environnementale, l'habitabilité et les technologies émergentes.

Priorité des programmes et projets

Ce chapitre présente les efforts d'intégration des données et les méthodes d'identification des priorités pour les domaines programmatiques de la CMMPO. Il comprend une analyse de l'équité, des améliorations de l'infrastructure routière et un résumé des priorités pour divers projets et initiatives de transport.



Plan financier

Ce chapitre se concentre sur les aspects financiers du plan, y compris les scénarios de financement, les recettes et les dépenses prévues pour les projets routiers et de transport en commun, et les résumés des sources de financement. Il souligne l'importance des contraintes financières et de l'utilisation efficace des fonds disponibles pour le transport.



Évaluation de la qualité de l'air et des gaz à effet de serre

Ce dernier chapitre porte sur la conformité de la qualité de l'air et l'évaluation des gaz à effet de serre, en veillant au respect des normes nationales et des exigences de l'État. Il comprend également une analyse des incidences potentielles des émissions pour les grands projets d'infrastructure, conformément aux orientations de MassDOT.



OBJECTIFS

- Réduire les embouteillages et améliorer la mobilité pour tous les modes de transport
- 2. Améliorer la sécurité
- 3. Atteindre un état de bon fonctionnement
- 4. Augmenter les options de transport et promouvoir des modes de transport sains
- 5. Réduire les émissions de gaz à effet de serre et promouvoir la durabilité
- 6. Assurer un transport équitable pour toutes les populations
- 7. Améliorer la vitalité économique et l'acheminement des frets

Rejoignez-nous pour construire une région durable, connectée avec une mobilité améliorée et une réduction des embouteillages pour tous.

Wizja

CMMPO przewiduje bezpieczny, wydajny i dobrze utrzymany multimodalny system transportowy, integrujący planowanie przestrzenne i rozwój gospodarczy w celu poprawy jakości życia.

Wizja CMMPO dla Centralnego Massachusetts w 2050 r. to 40 dobrze

skomunikowanych, przyjaznych mieszkańcom społeczności o zmniejszonym natężeniu ruchu, lepszej mobilności multi- modalnej oraz lepszej jako ści powietrza.

Innowacyjne metody transportu zapewniające bezproblemowy przepływ osób i towarów między domami, miejscami pracy i usługami.

Informacje ogólne

Organizacja Planowania Metropolitalnego Środkowego Massachusetts (CMMPO) przedstawia 2050 Connections, kompleksowy plan mający na celu zaspokojenie potrzeb transportowych południowośrodkowego regionu planowania Massachusetts w ciągu najbliższych 25 lat. Kładzie on nacisk na zaangażowanie społeczności, planowanie oparte na wynikach oraz stabilność finansową dla połączonego i zrównoważonego systemu transportu, wspierania rozwoju i poprawy jakości życia.

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2050 **Connections**

Plan transportu dalekiego zasięgu dla Organizacji Planowania Metropolitalnego Środkowego Massachusetts

2050 Connections – podsumowanie



WPROWADZENIE I KONTEKST

Przegląd wizji, celów i zadań transportowych CMMPO, a także ogólnostanowego planu MassDOT "Beyond Mobility". Uwzględniono również obszary programowe CMMPO oraz wytyczne federalne i stanowe, a ponadto zwrócono szczególną uwagę na komunikację ze społecznościami oraz problemy związane z równością.



W tym rozdziale podkreślono starania związane z angażowaniem społeczności, w tym spotkania z interesariuszami i wydarzenia informacyjne. Podsumowuje on osiągnięte rezultaty oraz kwestie związane z równością. Omówiono także miary efektywności, programy dotacji, ogólnostanowe plany MassDOT oraz priorytety społeczności.



W tym rozdziale przeanalizowano powiązania planowania transportu, biorąc pod uwagę ograniczenia finansowe oraz przedstawiając wytyczne. Zaprezentowano tu prognozy dotyczące liczby ludności i zatrudnienia, przyszłe scenariusze planowania oraz powiązania z działaniami CMRPC IMAGINE 2050, w tym w zakresie użytkowania gruntów, rozwoju gospodarczego oraz dostępu do podstawowych usług.



Obszary planowania, rodzaje transportu i powiązane obszary programowe

W tym rozdziale zwrócono szczególną uwagę na multimodalny system transportowy CMMPO, w tym aktualne warunki i priorytetowe potrzeby dla każdego z rodzajów transportu. Omówiono również kluczowe obszary planowania, takie jak bezpieczeństwo, zarządzanie zatorami, zarządzanie majątkiem, planowanie środowiskowe, komfort życia i nowe technologie.



W tym rozdziale zwrócono uwagę na starania związane z integracją danych oraz metody identyfikacji priorytetów dla obszarów programowych CMMPO. Obejmuje on takie tematy, jak analiza równościowa, ulepszenia infrastruktury dróg publicznych oraz podsumowanie priorytetów dla różnych projektów i inicjatyw transportowych.



Ten rozdział koncentruje się na finansowych aspektach planu, w tym scenariuszach finansowania oraz prognozowanych przychodach i wydatkach na projekty związane z głównymi drogami publicznymi i tranzytem, a ponadto podsumowuje źródła finansowania. Podkreśla on znaczenie ograniczeń finansowych oraz efektywnego wykorzystania dostępnych funduszy transportowych.



Ocena jakości powietrza oraz emisji gazów cieplarnianych

Ostatni rozdział dotyczy oceny zgodności jakości powietrza i emisji gazów cieplarnianych z normami krajowymi i wymogami stanowymi oraz sposobów jej zapewniania. Zawiera on również zgodną z wytycznymi MassDOT analizę potencjalnego wpływu na emisje dużych projektów infrastrukturalnych.



CELE

- l. Zmniejszenie zatorów i poprawa mobilności dla wszystkich rodzajów transportu
- 2. Poprawa bezpieczeństwa
- 3. Osiągnięcie dobrego stanu technicznego
- Zwiększenie dostępności różnych opcji transportowych oraz promocja zdrowych środków transportu
- 5. Zmniejszenie emisji gazów cieplarnianych i promowanie zrównoważonego rozwoju
- č. Zapewnienie równości w dostępie do transportu dla wszystkich populacji
- 7. Zwiększenie żywotności gospodarczej i ruchu towarowego

Dołącz do nas w budowaniu zrównoważonego, połączonego regionu z lepszą mobilnością i zmniejszonym zagęszczeniem ruchu dla wszystkich.

Visão

A CMMPO prevê um sistema de transporte multimodal seguro, eficiente e bem conservado, integrando o planejamento do uso do solo e o desenvolvimento econômico para melhorar as vidas das pessoas.

A visão da CMMPO para Massachusetts Central em 2050 consiste em 40 comunidades acolhedoras e bem conectadas com congestionamento reduzido, mobilidade multimodal aprimorada e melhor qualidade do ar. E a inovação dos métodos de transporte para o deslocamento uniforme de pessoas e mercadorias entre casa, trabalho e serviço.

Sumário

A Central Massachusetts Metropolitan Planning Organization (CMMPO - Organização de Planejamento Metropolitano Central *de Massachusetts*) apresenta o 2050 Connections, um plano abrangente elaborado para abordar as necessidades de transporte da região de planejamento sul/central de Massachusetts durante os próximos 25 anos. Ela dá ênfase ao engajamento da comunidade, ao planejamento baseado no desempenho e à sustentabilidade financeira para um sistema de transporte conectado e sustentável. promovendo o crescimento e melhorando a qualidade de vida.

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2050 Connections

Plano de Transporte de Longa Distância para a Central Massachusetts Metropolitan Planning Organization

Destaques do 2050 Connections



INTRODUÇÃO E HISTÓRICO

Sumário da visão, metas e objetivos de transporte da CMMPO, junto com o plano "Beyond Mobility" [*Além da Mobilidade*] em todo o estado do MassDOT [*Dept. Transporte de Massachusetts*]. Ele também cobre áreas programáticas da CMMPO, orientação federal e estadual, e dá destaque a considerações de alcance público e equidade.

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CONSIDERAÇÕES E RECURSOS DO PLANEJAMENTO

Este capítulo ressalta os esforços do engajamento público, incluindo reuniões das partes interessadas e eventos de divulgação. Ele resume os resultados e as considerações de equidade. E também cobre medidas de desempenho, programas de subsídio, planos do MassDOT em todo o estado e prioridades da comunidade.



IGAÇÕES DE TRANSPORTE

Este capítulo explora as ligações do planejamento de transporte, levando em conta as limitações financeiras e fornecendo orientação. Ele apresenta projeções de população e emprego, futuros cenários de planejamento e ligações ao esforço IMAGINE 2050 da CMRPC, inclusive uso do solo, desenvolvimento econômico e acesso a serviços essenciais.



Áreas de planejamento, modais <u>e áreas programáticas</u> relacionadas

Este capítulo ressalta o sistema de transporte multimodal da CMMPO, inclusive as atuais condições e necessidades priorizadas para cada modal. Ele também cobre as principais áreas de planejamento como segurança, gerenciamento de congestionamento, gestão de ativos, planejamento ambiental, habitabilidade e tecnologias emergentes.

Priorização de programas e projetos

Este capítulo ressalta os esforços de integração de dados e os métodos prioritários de identificação para as áreas programáticas da CMMPO. Ele inclui análise de patrimônio, melhorias na infraestrutura rodoviária e um resumo das prioridades para vários projetos e iniciativas de transporte.

Plano financeiro

Este capítulo se concentra nos aspectos financeiros do plano, incluindo cenários de financiamento, receitas e despesas projetadas para projetos rodoviários e de trânsito, e resume as fontes de financiamento. Ele ressalta a importância das limitações financeiras e a utilização eficaz dos fundos de transporte disponíveis.



Avaliação da qualidade do ar e das emissões dos gases do efeito estufa

Este capítulo final aborda a conformidade da qualidade do ar e as avaliações dos gases do efeito estufa, assegurando a observância de normas nacionais e requisitos estaduais. Ele também inclui uma análise dos impactos potencias da emissões para os principais projetos de infraestrutura, alinhando-se com a orientação do MassDOT.



OBJETIVOS

- l. Reduzir o congestionamento e melhorar a mobilidade para todos os modais
- 2. Melhorar a segurança e a proteção
- 3. Obter um bom estado de conservação
- 4. Aumentar as opções de transporte e promover modais saudáveis
- Reduzir as emissões de gases do efeito estufa e promover a sustentabilidade
- 6. Assegurar transporte justo para toda a população
- 7. Intensificar a vitalidade econômica e a movimentação do frete

Junte-se a nós na construção de uma região sustentável e conectada com mobilidade aprimorada e congestionamento reduzido para todos.

Maono

CMMPO inatazamia kuwa na mfumo salama, bora na unaodumishwa vyema wa uchukuzi wa njia nyingi, kuunganisha mipango ya matumizi ya ardhi na maendeleo ya kiuchumi ili kuboresha maisha ya watu. Maono ya CMMPO kwa Massachusetts ya Kati mwaka wa 2050 ni jumuiya 40 zilizounganishwa vyema, zinazoweza kuishi na zilizopunguzwa msongamano, uhamaji ulioboreshwa wa njia nyingi na ubora bora wa hewa. Kubuni mbinu za usafiri za usafirishaji wa watu na bidhaa bila mshono kati ya nyumba, kazi na huduma.

Muhtasari

Shirika la Mipango ya Metropolitan ya Massachusetts (CMMPO) linawasilisha Viunganisho vya 2050, mpango wa kina ulioundwa kushughulikia mahitaji ya usafirishaji wa eneo la kupanga la kusini/kati la Massachusetts kwa muda wa miaka 25 ijayo. Inasisitiza ushirikishwaji wa jamii, upangaji wa msingi wa utendaji, na uendelevu wa kifedha kwa mfumo uliounganishwa na endelevu wa usafirishaji, kukuza ukuaji na kuimarisha ubora wa maisha.

Wasiliana nasi

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Tovuti







Viunganisho vya 2050

Mpango wa Usafiri wa Masafa Marefu kwa Shirika la Mipango ya Metropolitan ya Kati ya Massachusetts

Viunganisho vya 2050 Vivutio



Muhtasari wa maono ya usafiri ya CMMPO, malengo, na malengo, pamoja na mpango wa jimbo zima wa MassDOT "Beyond Mobility". Pia inashughulikia maeneo ya kiprogramu ya CMMPO, mwongozo wa serikali na jimbo, na inaangazia masuala ya ufikiaji wa umma na usawa.

KUZINGATIA MIPANGO NA RASILIMALI

Sura hii inasisitiza juhudi za kushirikisha umma, ikijumuisha mikutano ya washikadau na matukio ya kuwafikia. Inatoa muhtasari wa matokeo na mazingatio ya usawa. Pia inashughulikia hatua za utendaji, programu za ruzuku, mipango ya jimbo zima la MassDOT, na vipaumbele vya jamii.



Sura hii inachunguza miunganisho ya upangaji wa usafiri, ikizingatia vikwazo vya kifedha na kutoa mwongozo. Inatoa makadirio ya idadi ya watu na ajira, matukio ya upangaji wa siku zijazo, na uhusiano na juhudi za CMRPC IMAGINE 2050, ikijumuisha Matumizi ya Ardhi, Maendeleo ya Kiuchumi, na Upatikanaji wa Huduma Muhimu.



<u>Maeneo ya Kupanga, Njia,</u> na Maeneo Husika ya Kiprogramu

Sura hii inaangazia mfumo wa usafiri wa aina mbalimbali wa CMMPO, ikijumuisha hali ya sasa na mahitaji yaliyopewa kipaumbele kwa kila hali. Pia inashughulikia maeneo muhimu ya kupanga kama vile usalama, usimamizi wa msongamano, usimamizi wa mali, upangaji wa mazingira, uwezo wa kuishi, na teknolojia zinazoibuka.

Uwekaji kipaumbele wa <u>Mipango na Miradi</u>

Sura hii inaangazia juhudi za ujumuishaji wa data na mbinu za utambuzi wa kipaumbele kwa maeneo ya programu ya CMMPO. Inajumuisha uchambuzi wa usawa, uboreshaji wa miundombinu ya barabara kuu, na muhtasari wa vipaumbele vya miradi na mipango mbalimbali ya usafiri.

Mpango wa Fedha

Sura hii inaangazia vipengele vya kifedha vya mpango, ikiwa ni pamoja na hali ya ufadhili, makadirio ya mapato na gharama za miradi ya barabara kuu na za uchukuzi, na muhtasari wa vyanzo vya ufadhili. Inasisitiza umuhimu wa vikwazo vya kifedha na matumizi bora ya fedha zinazopatikana za usafiri.



<u>Tathmini ya Ubora wa Hewa</u> <u>na Gesi ya Joto</u>

Sura hii ya mwisho inashughulikia ulinganifu wa ubora wa hewa na tathmini za gesi chafuzi, kuhakikisha utiifu wa viwango vya kitaifa na mahitaji ya serikali. Pia inajumuisha uchanganuzi wa athari zinazowezekana za uzalishaji kwa miradi mikubwa ya miundombinu, ikiambatana na mwongozo wa MassDOT.



MALENGO

- l. Kupunguza Msongamano na Kuboresha Uhamaji kwa Njia Zote
- 2. Kuboresha Usalama na Dhamana
- 3. Kufikia Hali ya Urekebishaji Mzuri
- Kuongeza Chaguo za Usafiri na Kukuza Njia za Afya
- 5. Kupunguza Uzalishaji wa Gesi Joto na Kukuza Uendelevu
- 6. Kuhakikisha Usafiri Sawa kwa Watu Wote
- 7. Kuimarisha Uhai wa Kiuchumi na Mwendo wa Mizigo

Jiunge nasi katika kujenga eneo endelevu, lililounganishwa na uhamaji ulioboreshwa na kupunguza msongamano kwa wote.

Tầm nhìn

CMMPO hình dung ra một hệ thống giao thông đa phương thức an toàn, hiệu quả và được bảo trì tốt, tích hợp quy hoạch sử dụng đất và phát triển kinh tế để cải thiện cuộc sống của người dân.

Tầm nhìn của CMMPO về các cộng đồng đáng sống, được kết nối ở trung tâm với việc giảm tắc nghẽn, cải thiện khả năng di chuyển đa phương thức và chất lượng không khí tốt hơn. Đổi mới các phương thức vận chuyển để người và hàng hóa di chuyển dễ dàng cho các hộ gia đình, công việc và dịch vụ.

So lược

Tổ chức Quy hoạch đô thị trung tâm Massachusetts (CMMPO) giới thiệu Connections 2050, một kế hoạch toàn diện được thiết kế để giải quyết nhu cầu vận chuyển của khu vực quy hoạch phía nam/trung tâm Massachusetts trong 25 năm tới. Kế hoạch nhấn mạnh sự tham gia của cộng đồng, lập kế hoạch dựa trên hiệu suất và tính bền vững về tài chính cho một hệ thống giao thông vận tải kết nổi và bền vững, thúc đẩy tăng trưởng và nâng cao chất lượng cuộc sống.

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2050 Connections

Kế hoạch vận chuyển tầm xa của Tổ chức quy hoạch đô thị trung tâm Massachusetts

Những điểm nổi bật của Kế hoạch Connections 2050

GIỚI THIỆU VÀ THÔNG TIN TỔNG QUÁT

Tổng quan về tầm nhìn, mục đích và mục tiêu giao thông vận tải của CMMPO, cùng với kế hoạch toàn tiểu bang của MassDOT "Hơn cả sự chuyển dịch". Kế hoạch cũng bao gồm các lĩnh vực lập chương trình của CMMPO, hướng dẫn của liên bang và tiểu bang, đồng thời nêu bật các cân nhắc về cách tiếp cận cộng đồng và công bằng.

CÂN NHẮC TRONG VIỆC LẬP KẾ HOẠCH VÀ NGUỒN LỰC

Chương này nhấn mạnh các nỗ lực thu hút sự tham gia của cộng đồng, bao gồm các cuộc họp của các bên liên quan và các sự kiện tiếp cận cộng đồng. Chương này tóm tắt các kết quả và cân nhắc sự công bằng. Đồng thời bao gồm các biện pháp thực hiện, các chương trình tài trợ, các kế hoạch toàn tiểu bang của MassDOT và các ưu tiên của cộng đồng.

😭 🚌 KÉ NÓI VÂN CHUYỂN 🎟 🚳

Chương này tìm hiểu sự liên kết trong quy hoạch giao thông vận tải, xem xét các hạn chế về tài chính và cung cấp hướng dẫn. Phần này trình bày các dự báo về dân số và việc làm, các kịch bản lập kế hoạch trong tương lai và các liên kết với nỗ lực IMAGINE 2050 của CMRPC, bao gồm Sử dụng đất, Phát triển kinh tế và Tiếp cận các dịch vụ thiết yếu.



<u>Khu vực, Phương thức lập kế hoach và Khu vực lập chương trình liên quan</u>

Chương này nêu bật hệ thống vận tải đa phương thức của CMMPO, bao gồm các điều kiện hiện tại và nhu cầu ưu tiên cho từng phương thức. Đồng thời bao gồm các lĩnh vực quy hoạch chính như an toàn, kiểm soát tắc nghẽn, quản lý tài sản, quy hoạch môi trường, khả năng sinh sống và các công nghệ mới nổi.

<u> Ưu tiên</u> Chương trình và Dự án

Chương này nêu bật các nỗ lực tích hợp dữ liệu và các phương pháp xác định ưu tiên cho các lĩnh vực lập chương trình của CMMPO. Bao gồm phân tích vốn chủ sở hữu, cải thiện cơ sở hạ tầng đường cao tốc và tóm tắt các ưu tiên cho các dự án và sáng kiến giao thông khác nhau.

Kế hoach tài chính

Chương này tập trung vào các khía cạnh tài chính của kế hoạch, bao gồm các kịch bản tài trợ, doanh thu và chi phí dự kiến cho các dự án đường cao tốc và quá cảnh, và tóm tắt các nguồn tài trợ. Kế hoạch nhấn mạnh tầm quan trọng của những hạn chế về tài chính và việc sử dụng hiệu quả các quỹ vận tải sẵn có.



Đánh giá chất lượng không khí và khí nhà kính

Chương cuối cùng này đề cập đến các đánh giá phù hợp về chất lượng không khí và khí nhà kính, đảm bảo tuân thủ các tiêu chuẩn quốc gia và yêu cầu của tiểu bang. Kế hoạch cũng bao gồm phân tích về các tác động phát thải tiềm năng đối với các dự án cơ sở hạ tầng lớn, phù hợp với hướng dẫn của MassDOT.



MỤC TIÊU

- I. Giảm tắc nghẽn và cải thiện tính linh động cho mọi phương thức
- 2. Cải thiện an toàn và an ninh
- 3. Đạt được trạng thái sửa chữa tốt
- 4. Tăng sự lựa chọn phương tiện giao thông và thúc đẩy các phương thức lành mạnh
- 5. Giảm phát thải khí nhà kính và thúc đẩy tính bền vững
- 6.Đảm bảo giao thông công bằng cho mọi người dân
- 7. Tăng cường sức khỏe của nền kinh tế và vận chuyển hàng hóa

Hãy tham gia cùng chúng tôi xây dựng một khu vực kết nối, bền vững với khả năng di chuyển được cải thiện và giảm tắc nghẽn cho tất cả mọi người.

Population and Employment Projections

Population and Employment Projections

Central Massachusetts Regionally Customized Methodology

Central Massachusetts Regionally Customized Socio-Economic Projections Prepared for the Central Massachusetts Metropolitan Planning Organization (CMMPO) by the Central Massachusetts Regional Planning Commission (CMRPC) June 2023.

Introduction

In 2017 and 2018 the Massachusetts Department of Transportation (MassDOT) led a statewide effort supported by the Regional Planning Agencies (RPAs) in Massachusetts to develop an updated set of socioeconomic projections. The projections included population, household, and employment projections made for each of the planning regions in ten-year bands out to the horizon year of 2040. MassDOT contracted with the University of Massachusetts Donahue Institute (UMDI) and the Metropolitan Area Planning Council (MAPC) to complete the projections with the assistance of an advisory committee of regional and statewide stakeholders. UMDI's work focused on population and employment trends and projections while MAPC's work focused on housing growth and changes to the labor force. The CMRPC felt that these projections (Vintage 2018) accurately depicted a likely future scenario for the Central Massachusetts Region.

In 2021 MassDOT contracted with UMDI and MAPC to produce a new set of updated projections with a new horizon year of 2050 to aid in the development of the regional Long Range Transportation Plans (LRTPs) being developed across the state. The CMRPC felt that these projections (2022) did not necessarily reflect an accurate likely future scenario for the Central Massachusetts Region. The projections are made by calculating a regional control total for each region that caps the population setting a ceiling on growth. For the first time, the regional control totals for the Central Massachusetts region were projected to decline between ten-year bands. Additionally, the projections while using the most up-to-date data available are still being heavily impacted by the lingering effects of the COVID-19 pandemic such as immigration rates and death rates. Additionally, the 2022 projections do not assign the Worcester area a metric known as "the college fix" which helps account for areas with large college-aged populations even though the Worcester area has a substantial college population. The CMRPC felt it was important to illustrate a possible scenario with a more optimistic but in line with previous projections view of the region that could be used to aid in scenario planning.

The methodologies for the 2022 projections can be found at the following links:

- Long-Term Population Projections for Massachusetts Municipalities and Regional Planning Areas <u>Methodology</u>
- Massachusetts State and Regional Employment Projections
- MAPC Allocation Methodologies Placeholder (to be updated upon receival)

Methodology

To aid the CMMPO staff in scenario planning for the development of the 2024 LRTP and future transportation and land use planning efforts the CMRPC developed a set of regionally customized projections for the Central Massachusetts area.

Since the 2022 projections were a departure from previously realized growth shown in decennial census counts from 1920 – 2020 and past projections staff determined a more optimistic set of projections following past growth rates realized and projected would complement the official statewide projections. Staff calculated what the regional control total would be had the growth rates from the Vintage 2018 projections have been applied to the 2020 Census.

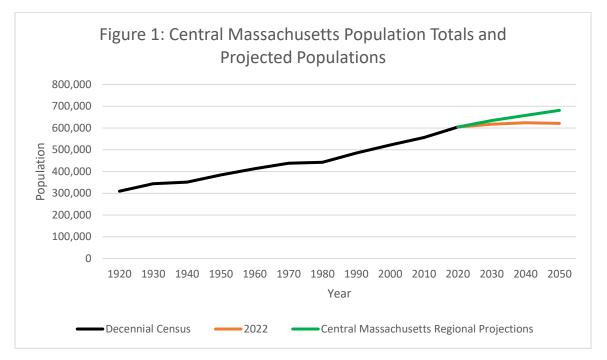


Table 1 lists the regional control totals for both the 2022 and the Central Massachusetts Regional Projections.

Table 1: Central Massachusetts Projected Populations							
Year	Year 2020 2030 2040 2050						
2022	604,631	617,353	642,210	621,469			
CMRPC	604,631	634,271	657,750	681,229			
Regional							

The forecast year projections at the community level were prepared by re-scaling the 2022 community allocations prepared by MAPC to match the higher CMRPC control totals. Thus, the process considered how MAPC's community forecasts reflected how growth in neighboring regions to CMRPC, impact growth in Central Massachusetts.

To account for group quarters population which was not fully considered in the MAPC allocation the CMRPC calculated the ratio of group quarters population to total population for each community in the Vintage 2018 projections for the horizon year 2040. This rate was then applied to each of the 2022 projections years to project the total population (household and group quarters) for each community in the CMRPC region.



2020-2050 Socio-Economic Projections in Massachusetts

CMRPC Staff Meeting 6/7/2023

NATIONAL POPULATION TRENDS

From July 1, 2020 to July 1, 2021, the U.S population grew by 0.1%, "the <u>lowest rate since the nation's founding</u>." The U.S. Census Bureau attributes the slow rate of growth to decreased <u>net international migration</u>, decreased fertility, and increased mortality due in part to the COVID-19 pandemic. (Source: UMass Donahue Institute, Response to questions from CMRPC dated September 8,2022)

- Growth in the U.S. is slowing overall
- · Boomers are aging into high-mortality cohorts
- Millennials are passing out of high-fertility cohorts with no apparent "third wave" coming behind them.

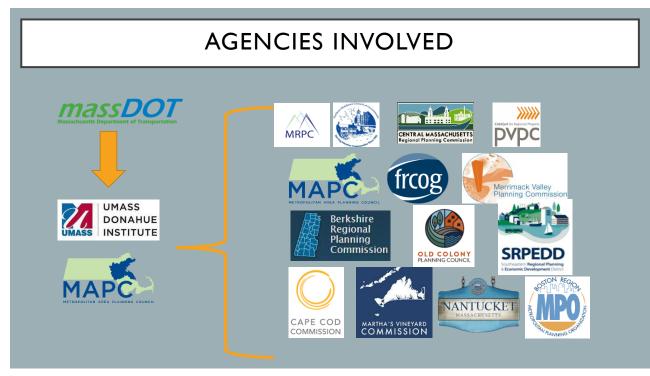
WHY IS MASSDOT MAKING PROJECTIONS?

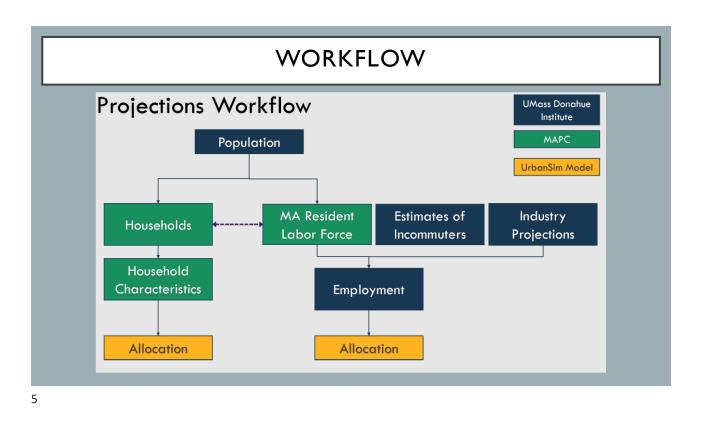
- Federal regulation requires socioeconomic and population projections to guide the development of the LRTPs.
 - statewide projections are used to help inform the statewide travel demand model and other regional models
 - The statewide model is used to calculate Vehicle Miles Traveled, GHG emissions and congestion among others

- The Clean Air Act, Global Warming Solutions Act and others rely on information from the travel demand model to help determine compliance.

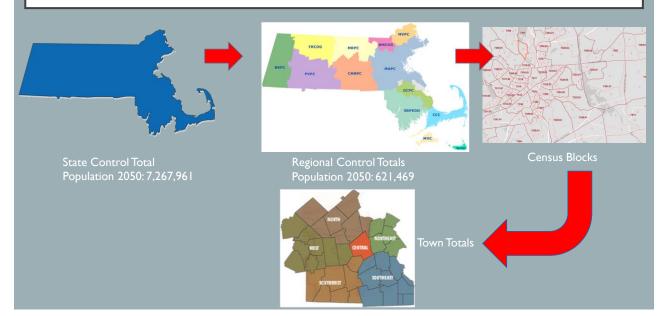
MassDOT revisits these projections about every four years

- To answer the basic questions
 - How many people will live in the CMMPO Region?
 - Where will people live in the CMMPO Region?
 - How many people will work in the CMMPO Region?
 - Where will people work in the CMMPO Region?
- o help inform the planning process: Identify growth areas Help establish travel/commuting patterns

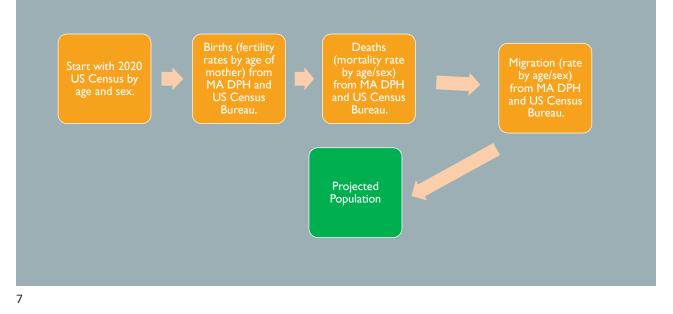




HIERARCHY OF PROJECTIONS



2022 MASSDOT/UMDI POPULATION FORECASTING METHODOLOGY



CMRPC REGIONAL PROJECTIONS

In the past the CMRPC region closely followed Statewide and Boston Region trends due to our proximity and intertwined population and employment pools.

Certain aspects of the projections should have been applied to the CMRPC region but were not

CMRPC staff has a more optimistic picture of the region then the data used is showing

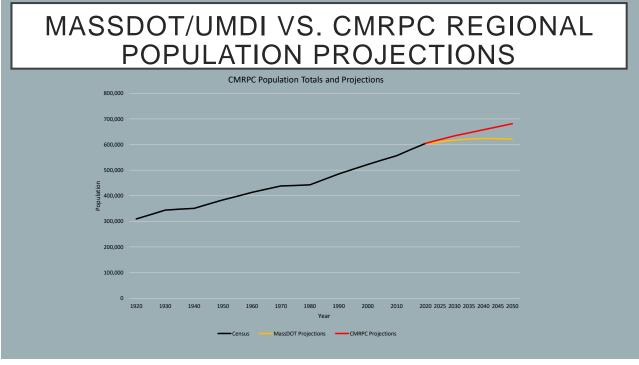
Staff decided it would be appropriate to develop and second set of regionally customized projections

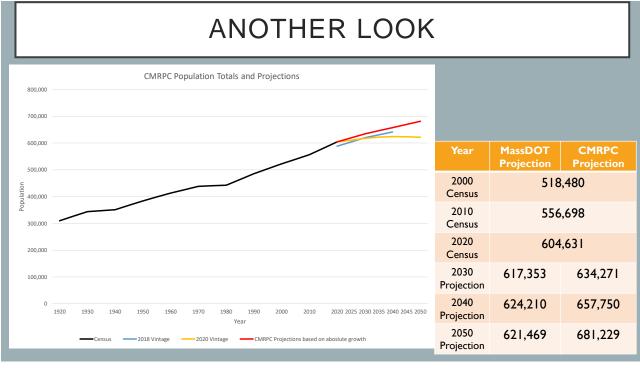
Due to time constraints staff needed a simple solutions for new projections

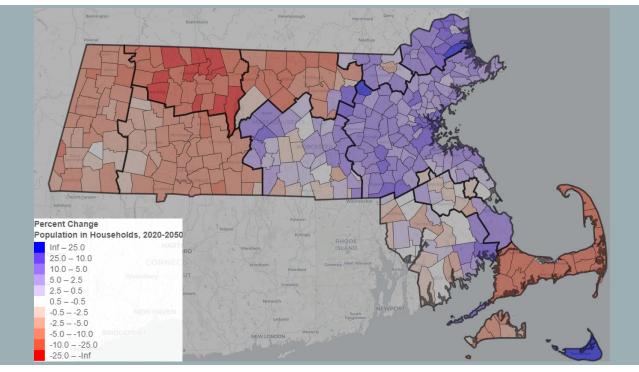
Solution: Apply previously computed absolute growth rates to new 2020 Census numbers.

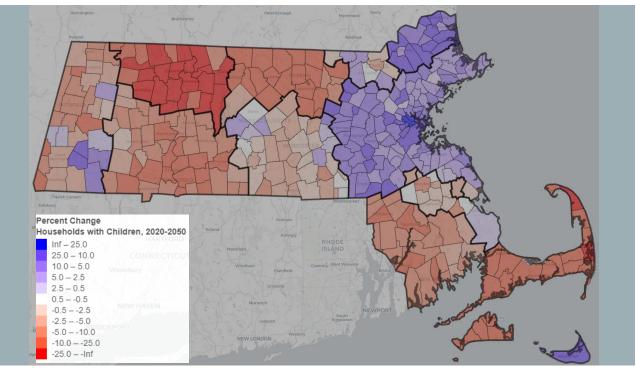
CMRPC FORECAST METHODOLOGY CMRPC has more confidence in previous forecasting methodology. Better baseline numbers Absolute growth rate previously predicted in 2018 is more reasonable than UMDI's new methods. Apply previously used absolute growth rate to new 2020 Census numbers. Then use the UrbanSim Allocation Percentages to allocate additional populations The numbers are......

	POPULATION PROJECTION									
					MassDOT/UI	MDI methodo	ology			
	Year	2000 Census	2010 Census	2020 Census	2025 Projection	2030 Projection	2035 Projection	2040 Projection	2045 Projection	2050 Projection
ſ	MassDOT/ UMDI	518,480	556,698	604,631	610,390	617,353	622,281	624,210	623,561	621,469
					CMRPC reg	ional method	ology			
	Year	2000 Census	2010 Census	2020 Census	2025 Projection	2030 Projection	2035 Projection	2040 Projection	2045 Projection	2050 Projection
	CMRPC region	518,480	556,698	604,631	619,451	634,271	646,011	657,750	669,490	681,229









EMPLOYMENT PROJECTIONS

MassDOT/UMDI methodology

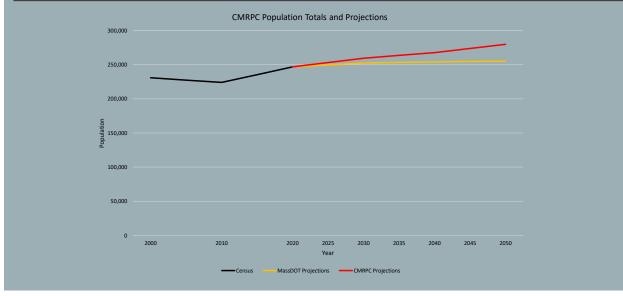
Vere	Census	Census	Census	Census	MAPC	MAPC	MAPC
Year	1990	2000	2010	2020	2030	2040	2050
MassDOT/	230,779	244,668	224,059	246 770		254 074	255 275
UMDI Jobs	230,779	244,000	224,057	240,770	252,510	254,076	255,275

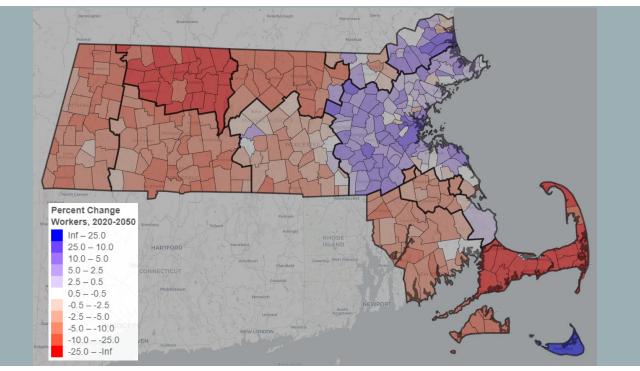
CMRPC regional methodology

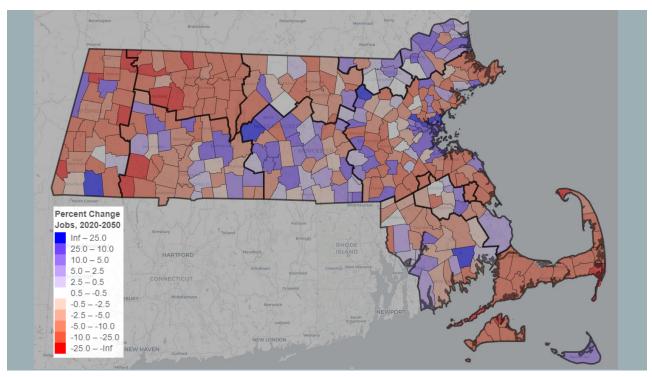
Year	Census 1990	Census 2000	Census 2010	Census 2020	CMRPC 2030	CMRPC 2040	CMRPC 2050
CMRPC Regional	230,779	244,668	224 059	246,770	259 439	267 729	220 022
Jobs	230,777	277,000	227,037	240,770	237,730	207,720	277,022

15

MASSDOT/UMDI VS. CMRPC REGIONAL EMPLOYMENT PROJECTIONS

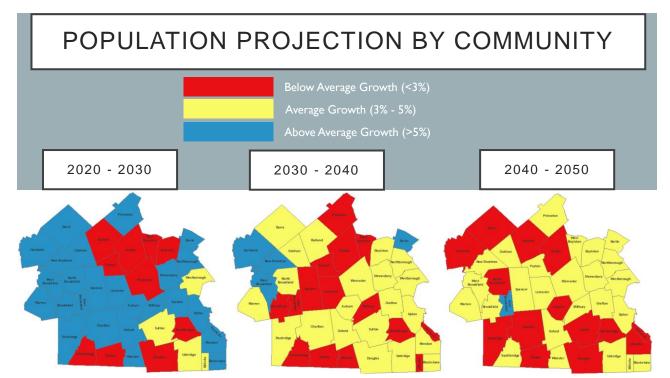


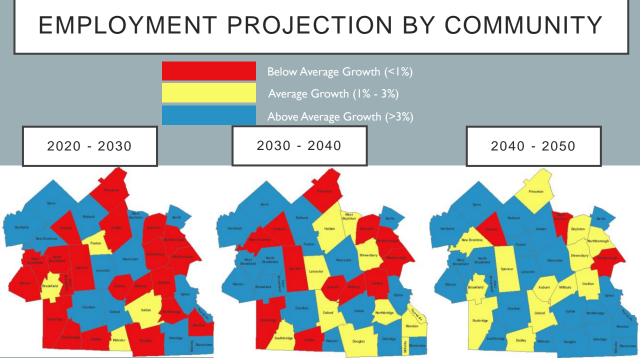




	REGIONALLY CUSTOMIZED PROJECTIONS	
10	CMRPC/CMMPO	







NEXT STEPS

- Input both the MassDOT and CMMPO projections into the CMRPC travel demand model for scenario planning.
- Utilize both MassDOT and CMMPO projections for scenario planning in the CMRPC regional plan.
- Form an internal CMRPC Socio-Economic working group to:
 - Continue to monitor local, regional and state datasets in preparation of future efforts
 - Develop tools to help our communities use the projections data
 - Make data more accessible to our communities (CMRPC community snapshots)

Population and Employment Projections

Travel Demand Scenarios

	Total VMT		VMT with a VC ratio over 0.75	
CMRPC Land Use	All Areas	EJ Plus Areas	All Areas	EJ Plus Areas
2020	15,679,915	8,512,825	6,888,752	3,810,631
2030	16,302,503	8,878,172	6,959,208	3,929,591
2040	16,791,642	9,151,446	7,353,047	4,168,729
2050	17,233,571	9,407,159	7,646,029	4,358,389

	Total VMT		VMT with a VC ratio over 0.75	
MassDOT Land Use	All Areas	EJ Plus Areas	All Areas	EJ Plus Areas
2020	15,679,915	8,512,825	6,888,752	3,810,631
2030	15,999,105	8,710,780	6,780,983	3,828,505
2040	16,205,793	8,825,797	6,910,354	3,887,004
2050	16,216,743	8,837,325	6,914,589	3,899,757

Public Outreach



PUBLIC OUTREACH PROCESS OVERVIEW



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1. Introduction

The Bipartisan Infrastructure Law (BIL), otherwise known as the Infrastructure Investment and Jobs Act, is the current transportation enabling regulation. This law will directly fund improvements for our nation's roads, bridges, rails and other modes of public transit and related infrastructure. The BIL emphasizes the importance of public involvement of all sectors and users in the transportation planning process. Thus, the endorsed FY2022 *CMMPO Public Participation Plan (PPP)* provides the framework for all public outreach activities performed by the Central Massachusetts Metropolitan Planning Organization (CMMPO) during the transportation planning process for the long range transportation plan, 2050 Connections.

The key requirements of the public participation process are an all-inclusive decision-making process and a proactive public involvement process that provide timely public notice, complete information, full access to decision making, and support early consultation in the development of metropolitan transportation plans and transportation improvement programs.

The long range transportation plan (LRTP), 2050 Connections, looks 20 years into the future and is updated every four years. The transportation planning process requires an extensive outreach effort. In addition to this, the CMMPO must comply with *the Public Participation Plan* elements and fundamentals contained in the Title 23, Section 450.316 of the Code of Federal Regulations (CFR), which expressly mention the following:

 "Each metropolitan planning organization shall provide citizens, affected public agencies, representatives of public transportation employees, public ports, freight shippers, providers of freight transportation services, private providers of transportation (including intercity bus operators, employer-based commuting programs, such as a carpool program, vanpool program, transit benefit program, parking cash-out program, shuttle program, or telework program), representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with a reasonable opportunity to comment on the transportation plan."

The CMMPO recognizes the importance of inclusivity and diversity in the public participation process to ensure the accessibility to all public events and activities, while tailoring them to the CMMPO region's characteristics (demographics, cultural, and social) and the specific needs of the region's vulnerable populations, as identified by the CMMPO's Regional Environmental Justice Plus (REJ+) threshold. Please reference the Title VI page on the CMRPC website or the Notice of Rights included in the LRTP for more information.

This Public Outreach Report details all the public outreach efforts used throughout the development of the region's LRTP, 2050 Connections. It also summarizes the myriad of activities and initiatives performed in accordance with the *CMMPO PPP*. This report may be used to supplement the public outreach overview and process sections of the LRTP document.

2. Overview of the Outreach Process

The public outreach and engagement process is multi-faceted and incorporates many different moving parts. The process is guided by one overarching goal: to engage and represent people of all backgrounds, demographics, and transportation-related needs. From formal stakeholder meetings and sub-regional infrastructure summits to social media posts and the countless insightful conversations that were had with community members, the CMRPC transportation staff worked hard to reach as many people as possible.

As previously mentioned, the LRTP looks 20 years into the future, with formal updates every four years after being released. Thus, it is crucial that the CMMPO identify needs from the "users" perspective: not only needs identified in the previous LRTP, but also throughout the outreach and research process of 2050 Connections. With that, the CMMPO may reproduce methodologies that were successful in the past and negate ones that were not. For example, one of these methodologies that has been successful is the use of a public survey, which is used to identify the needs and priorities of stakeholders, organizations, communities, and individuals from all six sub-regions.

Moreover, the introduction of performance measures in the transportation planning process has reframed the way federal emphasis areas are taken into consideration during the transportation planning process. Currently, performance measures represent a pillar of the decision-making process. The CMMPO believes that the performance management system should reflect the needs and priorities of the region. The feedback from the outreach process will provide a clear indication of the topics that should be strengthened, emphasized, or edited in the current performance management system.

In addition to this, the meaningful involvement from transportation-disadvantaged populations was a key element throughout the outreach process. Beyond the traditional stakeholders, CMRPC staff made an extensive effort to expand the stakeholder base given the regional demographics and characteristics. Once identified, outreach emails were sent, and phone calls were made to invite each organization to participate in this opportunity. CMRPC staff worked with the organizations to find the most suitable format to engage with the population they represent. As a result, in some cases staff attended community meetings, committee meetings, or set tables/pop-ups at public events. In the same fashion, the presentation was modified as needed and materials were distributed in different languages based on participants' first language.

3. Structure and Formats

The LRTP outreach process is multi-faceted and complex. To better understand and manage all the efforts, three main work areas were identified: information, promotion, and participation/engagement. Moreover, public outreach efforts require clear and consistent representation throughout the process. For this purpose, multiple tools were developed and standardized for each of the three main work areas and are thoroughly detailed in this report. **Please note that in many cases, these three work areas overlap and are utilized within the other work areas.**

3.1 – Information

Providing extensive information related to public outreach is imperative to the LRTP. Examples of types of crucial information include what the plan is, why it's important, who the plan affects, who should participate in outreach, how information is used, and so on. Although the CMMPO has always made an extensive effort to engage the public, there will always be people that need an overview of the transportation planning process and its basic elements to understand why their feedback and participation is important. Providing all this information increases both the quality and the quantity of the feedback received.

CMRPC Website and 2050 Connections Hubsite

As in the past, the CMMPO relied on the CMRPC website as the major outlet for information. The website is continually updated with relevant information, including event notices on the calendar, the CMRPC bi-monthly newsletter, recordings of meetings, and details about various efforts such as the Transportation Improvement Program (TIP). On the left-hand side of the CMRPC website there is the tab for CMRPC's transportation department as well as the logos for both the CMMPO and 2050 Connections, which direct viewers to more information related to those topics. The 2050 Connections logo is embedded with a link that directs users to the 2050 Connections hubsite, a website created specifically to house all information related to the LRTP.

The 2050 Connections hubsite contains all information correlated with the LRTP, including interactive maps, a link to the public survey, and information related to the CMRPC's work with the different modes of transportation in the region as well as the different transportation planning areas. The planning areas, which are all addressed in the LRTP, include asset management, congestion mitigation, emerging technology, livability, safety, and the environment. Furthermore, the hubsite also addresses various programs and regional priorities, as well as other linkages to the LRTP, such as the CMRPC's Regional Plan, Imagine 2050. Finally, the 2050 Connections hubsite eventually housed the draft 2050 Connections document.

Presentations

CMRPC staff created many different presentations throughout the planning process of this LRTP. The transportation staff made a presentation that overviews 2050 Connections in its most basic elements so that people outside of the organization can refer to it throughout the public engagement process and get answers to common questions. This presentation was continuously modified to appeal to specific stakeholders and communities and was made available at all in-person meetings, such as the focus group at the Worcester Senior Center. Transportation staff also periodically updated the CMMPO on their progress with the LRTP, and for each update a presentation was made. Transportation staff worked in coordination with the CMRPC Regional Collaboration and Community Planning (RCCP) staff to create presentations for sub-regional infrastructure summits, where municipal employees from each region were invited to discuss all topics related to infrastructure.

Materials for Meetings and Tabling Events

As part of the public outreach process for this plan, CMRPC transportation staff tabled at several public events and conducted many in-person and virtual meetings. At each event, staff provided all people with an equitable standard of engagement. The materials used to provide an equitable standard of engagement included 2050 Connections public survey flyers, which included links to the hubsite. Other available materials included printed copies of the survey, table displays that promoted local opportunities, printed copies of the LRTP presentation, a CMRPC tablecloth, and complimentary CMRPC pens and stickers.

For in-person meetings such as stakeholder meetings and sub-regional infrastructure summits, staff developed wayfinding signs, sign-in sheets, agendas, comment sheets, and a variety of maps for reference. All tabling materials were prepared ahead of time and ready to go in a cart that staff would bring to each event. For virtual meetings, CMRPC staff utilized materials for virtual public involvement described in the *Participation and Engagement* section of this report.

3.2 – Promotion

The promotion of the LRTP and its planning process required multiple points of communication and methods for elevating information. The CMRPC newsletter, survey flyers, tabling displays, social media posts, email blasts, and press releases were several of the tools used to promote information and opportunities to participate in the planning process and to provide feedback. Throughout this period, it was fundamental to have content regularly posted on all CMRPC social media platforms. However, considering not everyone uses social media or has access to the internet, the other means of promotion were crucial in terms of ensuring this information was reaching a variety of audiences.

Flyers



2050 Connections Survey Flyers and MassDOT Meeting-in-a-Box Flyer

CMRPC transportation staff made flyers and table displays to promote the 2050 Connections public survey and other opportunities involved in the transportation planning process. The survey flyers were available in English and Spanish at all events as well as participating locations around the region, often accompanied by printed copies of the survey, also in English and Spanish. The survey flyers included a QR code and link to the online version of the survey. Although the survey flyers and printed copies of the survey were only available in English and Spanish, each offered a link to the 2050 Connections hubsite, which included information about Title VI Policy accommodations.

Flyers and table displays were also made for opportunities such as stakeholder meetings, public events, public hearings about projects and funding opportunities, MassDOT's Meeting-in-a-Box, as well as regional transportation options and opportunities. In addition to in-person events and participating locations such as libraries and senior centers, flyers were also distributed through social media and email blasts.

Email Blasts

Email blasts were used to reach large groups of people to spread awareness about the LRTP and opportunities for public participation. These emails were most often used to invite recipients to schedule stakeholder meetings or a Meeting-in-a-Box (detailed in the *Participation and Engagement* section of this report), as well as to inquire about press releases, invite groups to public events or to take the survey, as well as to follow-up on events, meetings, and other opportunities. For example, an email blast was used to thank all survey respondents for their participation and to let them know where to find the survey results on the hubsite.

Email blasts were readily used to ask locations for their participation in the public survey, either by distributing the survey flyer within their organization's network or posting the flyer at their physical location. Examples of some of the groups that blasts were sent out to include local nonprofits, local businesses, NGOs, public libraries, town halls, senior centers, and Councils on Aging.

As a result of email blasts, survey flyers and printed copies of the survey were available in ten different CMRPC communities and all six CMRPC sub-regions for a period of one to five months. Participating locations included:

- 1. Beaman Memorial Public Library, West Boylston
- 2. Westborough Public Library
- 3. Leicester Public Library
- 4. Woods Memorial Public Library, Barre
- 5. West Boylston Senior Center
- 6. Westborough Council on Aging
- 7. Holden Senior Center
- 8. Friends of Worcester Senior Center
- 9. Shrewsbury Senior Center
- 10. Grafton Senior Center

- 11. Webster Senior Center
- 12. Main South Community Development Corporation, Worcester
- 13. Hands on Nature, Berlin
- 14. Earth Limited, Mendon

Survey flyers and printed copies of the survey were also available at all in-person events and meetings, such as the sub-regional infrastructure summits and tabling events.

2050 Connections – What Are Your Transportation Goals for Southern Worcester County?

The Central Massachusetts Regional Planning Commission (CMRPC) is working on their Long-Range Transportation Plan (LRTP), called 2050 Connections. This Plan is updated every four years to reflect the transportation priorities of residents of Central Massachusetts. As part of the LRTP effort, a financial plan is developed which includes the major infrastructure projects that are candidates for federal finds.

funds. August, September, and October were busy months for CMRPC staff. Between outreach events, regional infrastructure meetings and other methods of targeted outreach, the public participation portion of the LRTP has been quite a success. Nonetheless, we are still hopping to see survey responses roll in throughout the beginning of December. Our 2059 Connections survey can be found on the 2050 Connections Hubsite. http://www.cmrpc.org/2059Connections. under the "participate" tab, or on the CMRPC website under the "tamportation" tab. As a part of the public outreach portion of this LRTP. CMRPC staff tabled at many rubblic events. One of the most recurring conversitions concerning

As a part of the public outreach portion of this LRTE. CARPC staff tabled at many public events. One of the most recording conversitions concerning transportation that we had at these outreach events involved public transit. Regarding public transit, we recognize all the needs of older adults, young children and those birny with disabilities and strive to represent them in our plan. CMRPC staff are constantly looking for ways in which we can help our residents, whether that is helping towns find the grants they need for infrastructure improvement or amplifying the voices of those who experience transportation related stressors. If you or someone you know would like to share their optimions and goals related to transportation in the region, we strongly recommend filling out our online survey or reaching out via Facebook, instagram, or Twitter.

Moreover, CMRPC staff have been working together to meet with each town to discuss all topics related to infrastructure that could be incorporated into our IRTP specifically, we have met with town officials and infrastructure staff to learn more about their thoughts and experiences with transportation and related topics. Such topics include, but are not limited to, bus systems and bus stops, sidewalls and other pedestina infrastructure, the Fast West rail project, and electric vehicle charging stations. To learn more about these Sub-Regional Infrastructure Summits, please read the CMRPC October newsletter on the CMRPC website under "about us_CMRPC newsletters".

Please consider filling out our survey to tell us what your transportation priorities are and how you envision the future of this region! Please visit our Hubstte <u>CMRPC.org/200Connections</u> for more information on the development of the LRTP. Additionally, please be sure to fill out the 2050 Connections survey on the Hubstte. Any other questions, please email glarvis@ cmrpc.orgto speak with CMRPC3 Public Outerach Coordinator.

Press Releases

The transportation department reached out to many news outlets to inquire about getting an LRTP article published in their respective outlets. The Stonebridge Press released the 2050 Connections article through their seven papers in Massachusetts: The Spencer New Leader, Auburn News, Charlton Villager, Sturbridge Villager, Southbridge News, Webster Times, and the Blackstone Valley Tribune.

The Stonebridge Press also released a CMRPC infographic on two of their social media platforms: the "508local" Facebook page and the "Spencer New Leader" Facebook page.

Clip from the Stonebridge Press

CMRPC Bi-Monthly Newsletter

In addition to the articles in the Stonebridge Press outlets, CMRPC transportation staff periodically released LRTP updates in the CMRPC Bi-Monthly newsletter, which has over 1,000 subscribers. These updates include more promotional plugs to the public survey, major highlights from meetings, events, survey responses and other public feedback. Furthermore, transportation staff released articles about topics such as proposed amendments to the TIP, Culvert Assessment Programs, and MicroProjects. All CMRPC newsletters are uploaded to the CMRPC website under the "About Us" tab once they are released to subscribers.



CMRPC Newsletter December 2022

CMRPC Newsletter Header

Social Media

Transportation staff utilized the CMRPC social media pages throughout the LRTP process. CMRPC has accounts on Facebook, Twitter, and Instagram each with a strong base following. Promotion of the LRTP on social media included many instances of offering the 2050 Connections public survey as an opportunity for engagement. These posts would include an infographic (as pictured below) with QR codes to connect viewers to the survey.

Social media posts were also made to invite viewers to public meetings and events, such as 2050 Connections public meetings, meetings regarding amendments to the CMMPO's TIP, and MassDOT's Virtual Design Public Hearings. Moreover, transportation staff made posts for programs such as Safe Routes to School (SRTS), MassTrails, the Federal Highway Administration's (FHWA) Protect Discretionary grants, as well as information about microprojects.



2050 Connections Public Survey Infographic Examples

3.3 – Participation and Engagement

Providing equitable standards for participation and engagement is crucial to this transportation planning process. This ensures that all interested people may have the chance to influence which

projects may be programmed for funding. The CMRPC promotional methods were geared to reach as many people as possible, and from there, the methods of participation invited all people, regardless of their needs. The CMRPC offers translation services and general assistance upon request for all methods of participation and engagement, which is promoted on the CMRPC website.

Also, staff consistently scheduled in-person stakeholder meetings and infrastructure summits in accessible buildings across the region and were physically present in all CMRPC sub-regions on multiple occasions. Lastly, staff always offered the alternative of scheduling virtual meetings, also known as opportunities for virtual public involvement, not only for groups, but for individuals who could not attend scheduled in-person meetings.

Virtual Public Involvement

The phrase virtual public involvement (VPI) describes tools and materials used to engage the public, especially during virtual meetings. VPI tools and materials that CMRPC utilized for this transportation planning process include Zoom and Teams, their chat functions, their live poll and survey functions, "break-out rooms" for smaller group discussions, and Google's interactive notetaking program, Jamboards.

The CMRPC transportation staff also utilized interactive maps as well as public surveys via the 2050 Connection hubsite. These tools allowed members of the public a variety of options in terms of ways they may participate. For example, for someone who may not be comfortable speaking during a virtual meeting, they may use the chat function or participate in an anonymous poll to voice their opinions. These tools were used for all types of virtual meetings, such as the CMRPC Quarterly Commission Meetings.

The Public Survey

The CMRPC 2050 Connection survey was made using SurveyMonkey and was available both online and on paper at participating locations throughout the region, including tabling events, senior centers, and libraries, for a period of one to six months. The survey was available in both English and Spanish with additional translation services and general assistance available upon request. The survey was 41 questions and took respondents an average of eleven minutes to complete. After six months, 284 people took our survey and left a total of nearly 1,000 written comments.

The first two questions asked respondents which town they live in and if they were employed, which town they work in. Following those two questions, the survey questions were organized by overarching themes. The question themes were personal transportation behaviors, public transportation, bicycles, trails, pedestrian infrastructure, roadway congestion, electric vehicles, funding priorities, and then demographics.

Either because people were most interested in answering questions about personal transportation behaviors or because it was the first set of questions, this category received the highest

average response rate. When asked what is the first thing that comes to mind when thinking about transportation, 51.2% of respondents said public transportation. However, 68.5% of respondents said that their primary mode of transportation is driving alone in a personal vehicle.

In terms of bicycles, 53.6% of respondents said they do not have access to a bicycle, but 34.4% of respondents said they would be interested in a bike sharing program if it became available in their community. When asked what types of bicycle infrastructure and related facilities people want to see in the region, most respondents said clearly marked bike lanes or bike lanes separated from traffic, mainly in the City of Worcester.

When asked if they had visited a trail in the past year, 64.3% of respondents said they had. In the form of open-ended comments, many respondents expressed their interest in seeing more accessible trail options, not only for individuals with disabilities but also for people with limited transportation options. Increased access to trails could include trails along fixed transit routes and wide and level trails with appropriate signage.

The topic of public transportation received the second highest response rate. Although 51.6% of respondents said that they have used public transit within the past year, 45.9% of respondents said they use it rarely. Most respondents indicated that out of all local and statewide services, they use the WRTA and MBTA the most, with notable usage of Peter Pan buses, Greyhound buses and WRTA paratransit, as well.

When asked to rate the conditions of pedestrian infrastructure in their communities, respondents indicated that sidewalks, curb ramps and lighting are in the worst condition, and in some cases completely lacking. When asked what types of destinations are within 0.25 miles from respondent's homes, 46% of respondents said they live near a bus stop, 39.1% of respondents said they live near a park, playground, or recreational area, and 32.7% of respondents said they live near a supermarket or corner store. However, 29% of respondents said they do not live near any noteworthy destinations, and thus must rely on personal vehicles or have very limited access to resources.

Regarding the topic of roads and traffic congestion, respondents overall indicated that the City of Worcester must improve pavement conditions and implement strategies to reduce traffic congestion. Notably, roads in Worcester such as Mill Street, Salisbury Street, and Main Street, among other specific corridors, were mentioned in comments as needing attention in terms of pavement conditions. Additionally, respondents mentioned locations in other CMRPC communities that need pavement improvements, such as in Northborough, Mendon and Webster. Regarding traffic congestion, many respondents indicated that I-290 and routes MA-140 and MA-9 suffer severely from congestion.

Most survey respondents, 85.7%, said they do not have access to an electric vehicle. However, 43.5% of respondents said that they would be interested in utilizing an electric vehicle sharing service if it were available in their community. When asked where electric vehicle infrastructure should be implemented, people referenced more general locations such as gas stations, parking lots and garages, and grocery stores.

Finally, in reference to funding, most respondents prioritize improving pedestrian infrastructure, followed by reducing traffic congestion and increasing access to transit services, meaning ensuring reliability, affordability, and connectivity. Specifically, respondents were asked to rate a list of project types anywhere from one to ten, with one being their top priority and ten being their lowest priority. 31.2% of respondents said improving pedestrian infrastructure was their top priority, 20.7% of respondents said increasing transit service reliability was their top priority, and 14.5% of respondents said reducing vehicle crashes was their top priority. In terms of lowest priorities, 30.6% of respondents said expanding trail networks was their lowest priority.

With respect to the demographics of respondents, most of the survey respondents were White (73.3%) and between the ages of 65 and 74 (26.3%). However, these demographics relatively reflected that of the CMRPC region. Moreover, 5.7% of respondents were Hispanic or Latino, 5.7% were Black, and 12.4% preferred not to answer. Regarding age, 20% of respondents were between the ages of 55 and 64, 13.7% were between the ages of 45 and 54, and 13.2% were 75 years of age or older.



2050 Connections

2050 Connections Survey

The Central Massachusetts Metropolitan Planning Organization (CMMPO) is requesting your cooperation to complete this survey about transportation in the region. Your answers will help guide the policies, plans and funding required for a sustainable transportation future in the region. Your information will be kept anonymous and confidential. You can skip the questions by clicking the Enter button.



2050 Connections Public Survey Header

Traditional Stakeholders

The stakeholders play a crucial role in guiding the LRTP and the projects that will be programmed for funding, as CMRPC staff continuously reviews stakeholder's comments and meeting notes to find shared priorities. Many of these stakeholder meetings occur on a regular monthly or bimonthly basis and are almost always performed online. Remote meetings utilize tools of virtual public involvement, including the Teams or Zoom chat functions, Google Jamboards, and "breakout rooms" for smaller group discussions. The following is a list of the stakeholders for this LRTP:

- 1. CMMPO Advisory Committee
- 2. CMRPC Commission
- 3. MassDOT Districts 2 & 3 Offices
- 4. I-495 Metrowest Partnership

- 5. Worcester Regional Transit Authority (WRTA)
- 6. Transportation Planning Advisory Group (TPAG)
- 7. Town Managers, Administrators, Planners, and Select Boards
- 8. Regional Division of Public Works Personnel
- 9. New England Automotive Gateway (NEAG)
- 10. Central Transportation Planning Staff (CTPS)
- 11. Central Massachusetts Legislative Affairs Committee
- 12. The City of Worcester Department of Public Works and Parks
- 13. East Brookfield and Spencer Railroad
- 14. Western Massachusetts Passenger Rail Commission
- 15. MassBike
- 16. WalkBike Worcester

Non-Traditional Stakeholders

Non-traditional stakeholders included many groups that work with transportation disadvantaged populations as outlined by the CMMPO's Regional Environmental Justice Plus (REJ+) threshold. These meetings utilized different formats and materials based on the organization's needs or requests, including the tools used for virtual public involvement described above as well as translation services and other accommodations, such as assistance in completing the 2050 Connections survey. These meetings were crucial to informing the LRTP priorities. The following is a list of the non-traditional stakeholders for this LRTP:

- 1. Main South Community Development Corporation
- 2. Green Hill Neighborhood Association
- 3. Worcester State University Global Environmental Change Course
- 4. Regional Environmental Stakeholders Group
- 5. Latino Education Institute
- 6. Central Community Branch YMCA Worcester
- 7. RH White Construction Company
- 8. The City of Worcester Accessibility Commission
- 9. HNTB Consultants
- 10. Worcester Community Action Council
- 11. Greater Worcester Community Foundation
- 12. Friends of Worcester Senior Center
- 13. Massachusetts Healthy Aging Collaborative

MassDOT's Meeting-in-a-Box

MassDOT's Meeting-in-a-Box was a joint effort between MassDOT's Districts 2 and 3 and CMRPC transportation staff to engage vulnerable populations, as outlined by the CMMPO REJ+ threshold, in the transportation planning process. These meetings were a final push to engage non-traditional stakeholders in the planning process for both CMRPC's 2050 Connections and MassDOT's statewide

plan, Beyond Mobility. In a short period of less than four months, CMRPC transportation staff were able to schedule three of these meetings, one in-person at the Friends of Worcester Senior Center, an accessible meeting location, and two online with the Greater Worcester Community Foundation (GWCF) and the Worcester Community Action Council (WCAC).

MassDOT OTP staff arranged seven additional Meeting-in-a-Box sessions, with groups from across the Commonwealth such as the Community Health Partnership of North Central Massachusetts (CHNA9) and the Western Mass Transit Advocacy Network (WMTAN).

Sub-Regional Infrastructure Meetings

Sub-Regional Infrastructure Summits were a joint effort between CMRPC's transportation department and CMRPC's RCCP department. Summits were organized in the five CMRPC sub-regions as well as in Worcester; additionally, there were two virtual summits. The virtual summits utilized tools and materials of virtual public involvement, such as the chat function. One of the virtual summits focused on transportation, while the other virtual summits focused on all other municipal infrastructure. Town administrators, managers, DPW staff, and other municipal employees were invited to participate. These meetings generally lasted four hours and covered all topics related to municipal infrastructure, from roads, bridges, and culverts to internet connectivity, drinking water, and energy. Conversations and comments from these meetings carry the same weight as the feedback gathered from the survey, tabling events, and stakeholder meetings in that they impact potential projects and funding priorities.

These summits were held in person at participating locations in each sub-region. The following is a list of all eight infrastructure summits:

- 1. Central Sub-Region: MassDOT District 3 Headquarters, Worcester
- 2. Northeast Sub-Region: Forbes Municipal Building, Westborough
- 3. Southwest Sub-Region: Tri-Valley Elder Services, Dudley
- 4. North Sub-Region: West-Boylston Senior Center
- 5. Southeast Sub-Region: Grafton Police Department
- 6. West Sub-Region: North Brookfield Police Station
- 7. Transportation Virtual Summit: 10/20/22
- 8. Municipal/Regional Infrastructure Virtual Summit: 10/27/22





Photos from the North and Northeast Sub-Regional Infrastructure Summits, Respectively

Tabling & Pop-Up Events

Tabling events were a unique opportunity for CMRPC Staff members to connect directly with community members in all six CMRPC sub-regions. Not only did tabling events help transportation staff spread the word about the 2050 Connections survey, but they allowed staff the distinctive opportunity to connect with more community members, individuals who may have never been exposed to CMRPC's work or transportation planning in general. With that, tabling events were not only an opportunity to promote information about the transportation planning process, but an opportunity for public participation and engagement. The connections that were made at tabling events either provided CMRPC with critical feedback from a transportation user's perspective or allowed staff to form working relationships with community members by inviting them to participate in other means of engagement. The following is a list of all the tabling events CMRPC staff attended as part of the outreach process for this LRTP:

- 1. Beaver Brook Farmers Market, Chandler Street, Worcester
- 2. Worcester Out-to-Lunch, Worcester Common
- 3. Westborough 4 Life, West Main Street
- 4. Worcester Street Art Festival, Park Ave
- 5. Green Hill Neighborhood Block Party, St. Bernard's Church in Worcester
- 6. Electric Vehicle Expo, Otis Street in Westborough
- 7. Apple Country Fair, Brookfield Town Common
- 8. Green Jobs Fair, Worcester State University
- 9. WRTA Hub at Union Station
- 10. Whole Kids 2023, Downtown Worcester





Photos from the Worcester Out-to-Lunch and Apple Country Fair Events, Respectively

Additional Public Meetings

Following all of the outreach efforts detailed above, the CMRPC transportation staff drafted a list of priorities based on public comments, data collected, and related research. These priorities included potential studies, initiatives, and projects for each of the following categories: asset management, climate change and resiliency, active transportation, and system management and operations. Once

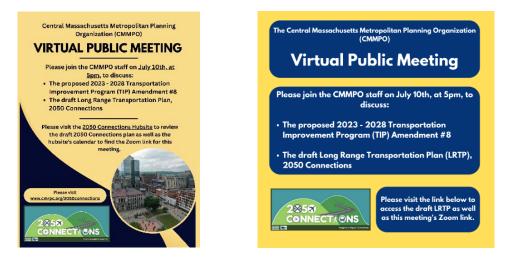
these priorities were completely drafted, the CMRPC transportation staff planned, coordinated, and hosted a hybrid public meeting on May 31st, 2023 to discuss these priorities and to narrow-down public opinions.

Although the five in-person attendees were able to vote for their top priorities by placing stickers on various poster boards, the other five online attendees, as well as members of the public who were not able to make the public meeting, were offered the opportunity of utilizing an online, interactive map. This interactive map remained open for ten days and was available on the 2050 Connections hubsite.



Priorities Public Meeting Flyer and Interactive Map Promotional Infographic, Respectively

Once the LRTP priorities were completely drafted, along with the rest of the document, the CMRPC transportation staff released the draft LRTP for public review and comments at the Wednesday, June 21st CMMPO meeting. This meeting marked the beginning of a public comment period, which included one final virtual public meeting on July 10th to discuss the draft and receive any final public comments, as well as discuss proposed TIP amendments.



Final 2050 Connections Public Meeting Flyer and Promotional Infographic, Respectively

Performance Measures

As indicated in *the CMMPO Public Participation Plan*, public participation and associated outreach activities are often the most direct contact the public has with the CMMPO. The evaluation of the CMMPO's engagement efforts is key to the continued improvement and expansion of the opportunities the public has to engage with the CMMPO and the regional transportation planning process.

Recognizing that public participation is a process in itself, the measurements and metrics used to assess the effectiveness of any meaningful engagement should reflect each stage of that process. Accordingly, the measurements and metrics used in this section are grouped in three main areas that are geared to different stages of the process, ranging from the initial steps to inform the public to the multiple opportunities for involvement throughout the planning process.

The following sections include assessments related to the three categories of performance measures: observe, interact, and incorporate, as outlined in *the 2022 CMMPO Public Participation Plan*.

Observe

The *observe* performance measure refers to qualitative and quantitative assessments related to the number and type of outreach events, the number of participants, the types of responses collected, as well as relevant demographic information.

During the public outreach process for 2050 Connections, various types of events and meetings were coordinated. The types of events and meetings conducted included formal stakeholder meetings (both in-person and online), public tabling events, and sub-regional infrastructure summits. In total, the CMRPC transportation staff attended ten public tabling events, which offered the unique opportunity of having candid conversations about regional transportation systems with various types of users.

Additionally, the CMRPC transportation staff attended six in-person sub-regional infrastructure summits, as well as one virtual summit focused specifically on transportation infrastructure in the region. These specialized meetings gave CMRPC staff and municipal officials the chance to communicate about issues and collaborate regarding potential remediations. In total, 48 municipal employees and officials attended the in-person sub-regional infrastructure summits and signed-in on a sign-in sheet. However, there were a handful of participants who attended but did not sign-in, as well as a handful of participants who signed-in but were unable to stay for the duration of the summit. Also, there were roughly ten participants at each of the virtual summits, but many did not attend for the duration of the meeting. Nonetheless, the sub-regional infrastructures were a success, and the North sub-region was the most well-attended of them all, with at least twelve participants.

Furthermore, the CMRPC transportation staff participated in over thirty stakeholder meetings. These meetings were held online or in-person with both traditional and nontraditional stakeholders. Oftentimes, these stakeholder meetings included periodic, scheduled meetings with traditional stakeholders, such as the CMMPO Advisory Committee. Notes from many of these meetings are included in *the 2050 Connections Technical Appendix*.

It may be estimated that well over 600 people were directly involved in the 2050 Connections public participation process. Plus, it may be estimated that the CMRPC transportation staff interacted with at least ten people at each of the ten public tabling events, totaling to at least 100 people from public events alone. Lastly, 284 people voiced their opinions on regional transportation planning by means of the 2050 Connections public survey and ten people attended the 2050 Connections Priorities Public Meeting in May 2023. Moreover, the 2050 Connections hubsite was available to the public throughout the development of the plan and the interactive priorities map received over 200 votes.

The 2050 Connections public survey was the only method of public participation that involved asking participants to disclose demographic information. A complete overview of the demographic information received from this survey can be found in the survey second of *the 2050 Connections Appendix*. Nonetheless, for the sake of these performance measures, it is worth noting that many survey respondents either skipped the demographic information questions or selected "prefer not to answer". For example, when asked to disclose their race, 74 respondents skipped the question and 26 selected "prefer not to answer". Then, 154 respondents selected "White", twelve selected "Black or African American", and twelve selected "Hispanic or Latino". Additionally, seven selected "Asian or Asian American", four selected "American Indian or Alaskan Native", and three selected "another race".

In terms of other types of demographic info, 54 respondents indicated that they were between the ages of 65 and 74, 41 indicated they were between the ages of 55 and 64, and 28 indicated they were between the ages of 45 and 54. Finally, 56 respondents specified that at least one person in their home has a physical or mental disability. All of this demographic data collected from the public survey aligns with the demographic data of the CMRPC region, as indicated by the CMMPO Population and Employment Projections.

Throughout the public outreach process for 2050 Connections, five CMRPC newsletters were released, each with a reference to the development of the planning document. As previously mentioned, all the CMRPC newsletters are posted to the CMRPC website after they are released to subscribers. Also, a 2050 Connections article was released in all seven outlets of the *Stonebridge Press*. This effort, including the publishing of an infographic on the two Facebook pages associated with the Stonebridge Press, cost the CMRPC \$672. As for tabling events, some of them required a fee. For example, the Apple Country Fair cost the CMRPC \$60, and the Worcester Street Art Festival (stART) cost the CMRPC \$100.

Related to social media, the CMRPC Facebook page has always been the most successful of all the CMRPC social media platforms. Although several posts related to the LRTP were made on the CMRPC Instagram and Twitter accounts, the posts made on the Facebook account received the most likes and shares. Additionally, it may be assumed that the posts made on the Facebook page received the most traction, as it has over 600 followers, the most of all three of the CMRPC social media accounts. In total, eight posts directly related to the LRTP were made over the period of six months. In total, these posts received 18 additional shares.

Finally, the 2050 Connections public outreach efforts did involve a lot of travel for the CMRPC transportation staff. For staff to be compensated for the miles traveled for public outreach events as well as the wear and tear on personal vehicles, the CMRPC transportation staff would regularly charge mileage as a part of their weekly timesheets. This charge is determined by the number of miles, roundtrip, between the CMRPC office and the public outreach event destination. For example, several of the CMRPC transportation staff traveled to and from the sub-regional infrastructure summits; so, they would calculate the number of miles between the office and the destination in each sub-region and self-report on their travel sheet. The CMRPC transportation staff also traveled to the ten tabling events and many stakeholder meetings.

Interact

The *interact* performance measure refers to the qualitative and quantitative assessments related to the delivery, understanding and clarity of the information shared during interactions with the public, and sentiments gathered related to participants' experiences.

The CMRPC transportation staff made a concerted effort to ensure that all public outreach opportunities were convenient for all the people involved. This includes informing the public or relevant groups of the participation opportunity well in advance, as well as offering the opportunity to meet either in-person or online. For in-person meetings, such as the sub-regional infrastructure summits, the CMRPC staff chose accessible locations often located within or directly outside the town's center. If these meetings were not held on the building's first floor, there would be an elevator available.

Additionally, the CMRPC transportation staff attempted to involve as many people as possible in the 2050 Connections public outreach process and the regional transportation planning process: from inviting all municipal officials and employees to the sub-regional infrastructure summits and providing ample information at tabling events, to sending out invitations for stakeholder meetings to local organizations and businesses and announcing any opportunities to participate at community gatherings and meetings.

The distribution of flyers was a major effort made to involve more people in this process, as the 2050 Connections public survey flyer was available at all infrastructure summits and all tabling events, as well as distributed to 14 local libraries, senior centers, and other facilities in each of the CMRPC subregions. The 2050 Connections general presentation was also available at summits, tabling events, and stakeholder meetings, and participants were always made aware of the 2050 Connections hubsite.

Overall, the CMRPC transportation staff received positive feedback and affirmations from members of the public and stakeholders alike. For example, at the end of each infrastructure summit, attendees received evaluation sheets and many mentioned that the summit was meaningful and productive. Oftentimes, people pointed out that they were glad we were trying to improve

transportation options and networks for the region, despite complaints they may have about current conditions. Also, in general, people reported satisfaction with the way the public outreach opportunities were conducted, giving all people the chance to voice their opinions. Nonetheless, the CMRPC transportation staff did receive more negative feedback regarding the public survey. Specifically, people commented that the survey was too long and took too much time. In fact, the survey only received a 63% completion rate, meaning out of the 11,644 individual questions asked (41 questions X 284 respondents), only 7,335.72 of them were answered.

Incorporate

The *incorporate* performance measure refers to qualitative and quantitative assessments related to how the active participation influenced regional transportation planning, such as the established regional priorities and the allocated budget.

As a result of all the public outreach efforts detailed in this report, the CMRPC transportation staff developed a summary of needs for each of the five LRTP planning areas as well as all six of the modes included in 2050 Connections. Additionally, the CMRPC transportation staff developed an overall summary of needs, which incorporated previously identified needs and financial constraints, and directly informed the 2050 Connections priorities. These drafted priorities were presented at the hybrid public meeting, hosted on May 31st, 2023. The final comments of attendees were considered and incorporated into the final priorities included in the plan. These comments include the priorities indicated on the online, interactive map that was plugged at this meeting to virtual attendees as well as advertised on the CMRPC Facebook page and the 2050 Connection hubsite.

Overall, the CMRPC staff had more than adequate resources to carry out these public outreach efforts. The CMRPC transportation staff were able to prepare informative materials and involve over 500 people in this process. In order to involve more people in the public outreach process, the only resource that might significantly increase the number of participants is staffing capacity. Perhaps with more people, more stakeholder meetings may have been scheduled and more survey responses would be collected.

Every major phase of the 2050 Connections development effort had a public engagement component. From gathering information through surveys, interviews, and regional infrastructure summits, every opportunity provided staff with meaningful information, needs, and concerns that were taken into consideration along the data analysis. The financial plan included in 2050 Connections, one of the major components of the plan, takes into consideration the CMMPO's approach to how the regional discretionary targets should be invested in the region. The CMMPO had the opportunity to review potential funding options for the 2050 Connections effort. One of the options presented a similar pattern to the funds that were programmed on the TIP as part of the implementation process of the previous long-range transportation plan, while the second option considered the new trends and policy guidelines, the federal funding programs available under BIL, and the extensive list of needs identified throughout the outreach process. Moreover, besides the myriad of opportunities the public had to participate throughout the development of the plan, a special hybrid meeting was held where

participants had the opportunity to prioritize projects, studies, and initiatives in person and virtually on the interactive map available on the hubsite. The results of this process were included in the final priority list by programmatic area of the 2050 Connections.

What We Found & Lessons Learned

The public outreach process for 2050 Connections included many time-tested and proven effective strategies. The following pages include a retrospective take of what worked well and what did not work so well, or at least as planned or expected. Where applicable, recommendations are provided.

Information

The CMRPC Website and the 2050 Connections hubsite were repeatedly referenced throughout the LRTP outreach process. Both websites are continually updated with new information, such as newly released newsletters, notices of public hearings, proposed or approved projects, as well as recordings of meetings such as the CMMPO Advisory Committee. Next, all the presentations made for the LRTP outreach process were extremely useful, as they provide a visual aid and written descriptions of the topics being discussed in each meeting so that attendees can follow along more easily. Moreover, both the website and presentations were useful as a supplement to all other tabling materials used throughout this process, which included promotional materials such as the 2050 Connections flyer and the public survey flyer. This was crucial in terms of providing stakeholders and community members with a variety of informational materials that may appeal more to their needs and interests.

Promotion

Promotion for 2050 Connections required a lot of time and effort, but based on the public feedback, it was well worth it. Flyers were the most frequently used method of distributing information and with that, perhaps the most successful. Providing an eye-catching visual with a thought-provoking phrase encouraged many people to begin conversations with staff at tabling events and meetings. Whether it was a flyer about the public survey or a table display asking community members about their thoughts about a specific topic, many people began dialogues with staff by pointing to a flyer and asking for more information.

Flyers were also a great way to disseminate information to participating locations around the region, places where people go to learn about what is going on in their communities and find ways to participate. Flyers were also well-responded to at meetings, infrastructure summits, and on social media. Moreover, Senior Centers, Councils on Aging, and local libraries were the most responsive location type to the email blasts that asked recipients to distribute the survey flyers.

With that in mind, email blasts were a somewhat successful means of promotion. Although the response rate to these emails were often low, the outcome of meaningful connections through email blasts was worth it. In the future, email blasts should consider even broader audiences, and there should be a systematic method for how early to send out an email blast before an opportunity, and

when to send a follow-up email when recipients fail to respond. Nonetheless, because of email blasts, many valuable connections were made with stakeholders, local organizations, groups, and businesses, as well as community members.

The CMRPC newsletter has always been a great way to reach people who care about improving the quality of life in the region. Not only is the newsletter a great way to update the public on the LRTP, but also a productive means of informing relevant personnel of funding opportunities, proposed or approved projects, and upcoming or successful events. Moreover, the 2050 Connections press release in the seven outlets of the Stonebridge Press was a major stride in reaching more towns in the CMRPC region. For updates to 2050 Connections and future LRTP's, planning and implementing a systematic process for reaching out to and following up with news outlets may prove to be an imperative promotional effort.

Finally, social media continues to be a critical tool for promotion of the transportation planning process. People, businesses, and organizations that are familiar with the CMRPC and use social media follow the CMRPC pages to receive regular updates as a supplement to the websites and newsletter. Some followers even help with social media promotion by sharing posts on their own platforms. In the future, it may be beneficial to enhance the promotion of the CMRPC's social media platforms. Moreover, it may be beneficial to increase the use of specific hashtags and other trends.

Participation and Engagement

As outlined above, the 2050 Connections public survey was one of the most far-reaching methods of participation and engagement for this LRTP. With all the promotion that went into the survey itself, the desired outcome was that hundreds of people would complete it and that there would be representation from all CMRPC communities. However, we only received 284 responses with a completion rate of 63% and 32 out of the 40 communities in the region were represented. Moving forward, the CMRPC will not only consider ways to increase promotion and reach more people in each of the CMRPC communities, but also ensure that the public survey is briefer and more palatable.

For the sake of the survey's integrity and assuring all participants had similar experiences with it, the length of the survey was not altered after having been published. Perhaps in the future, with updates to 2050 Connections and future LRTP's, there should be two surveys offered, one that is short (ten questions or less) and relatively general, and one that is longer (but no longer than 30 questions) with more specific questions and opportunities to leave open-ended comments.

Similarly, sub-regional infrastructure summits and stakeholder meetings were both crucial in terms of providing CMRPC with important feedback. However, with the infrastructure summits, some were not very well attended despite sending out invites far in advance and meeting at locations in all six CMRPC sub-regions, as well as virtually. In fact, all in-person infrastructure summits had a turnout of fewer than twenty attendees, and at the Southwest and West sub-regional summits, fewer than ten.

2050 CONNECTIONS TECHNICAL APPENDIX

On the other hand, many groups, businesses, and organizations scheduled stakeholder meetings. These conversations play a major part in determining the potential projects and funding priorities of the LRTP. Moving forward, the CMRPC will focus on streamlining their approach to all stakeholder meetings and continue incorporating their broadening network.

2050 Connections Public Comments

2050 Connections Public Comments

Summary of Comments by Planning Area

Congestion Mitigation Programs:

Congestion Mitigation has been a major topic of discussion across the region. The COVID-19 pandemic caused an increase in at-home deliveries of goods, and with that, an increased demand for freight trucks and distribution centers. As people are transitioning back to their pre-pandemic lifestyles and resulting driving habits, this demand for at-home deliveries has not subsided. In each of the CMRPC sub-regions, people are expressing extreme frustration with congestion, even on backroads, as freight trucks are increasingly utilizing emerging technology like Google Maps and Waze to avoid highway traffic.

Some specific locations that were mentioned as needing congestion mitigation were the I-290 and I-90 interchange in Auburn, the MA-9 and MA-135 interchange in Westborough, and the Boston Road and MA-146 interchange in Sutton. Also mentioned was MA-140 in Shrewsbury and Church Street in Northbridge.

In terms of potential planning studies, the public expressed the need for a congestion study on Main Street in Holden and the Stafford Street and Center Depot Road bottleneck in Charlton. Potential initiatives that were mentioned during the public participation efforts include congestion mitigation on US-20 in Auburn, specifically the one-lane sections, and the I-84 and I-90 interchange.

Safety:

Community members throughout the CMRPC region need increased safety measures for all modes of transportation, but mainly auto, pedestrian, and bicycling. Poor pavement conditions, a lack of signs, signals, and crosswalks lead to unwanted roadway incidents. To determine where improvements should be prioritized, CMRPC staff will continue to work with municipalities to assess their needs and identify opportunities for low-cost countermeasures and/or potential TIP projects in high-crash locations. Another common method for identifying priority improvements are road safety audits (RSAs). The new federal discretionary grant Safe Streets and Roads for All (SS4A), under the BIL, presents an opportunity to identify and address safety issues in the region in a systemic way.

Community members referenced various specific locations that are unsafe because of poor infrastructure and roadway conditions and that would benefit from planning studies. Examples of these locations include the intersection of Otis Street and MA-9 in Westborough, the ramp from West Main Street to MA-140 in Shrewsbury, downtown West Brookfield, and the

intersection of Route 122A and Pleasantdale Road in Rutland. Some of these locations completed RSAs and are developing new designs. Others are programmed on the TIP and are awaiting advertisement.

Other community members and municipal employees expressed an interest in facilitating grant funding such as Safe Routes to School and Safe Streets for All. Sutton, North Brookfield, East Brookfield, Spencer, and West Boylston all indicated needing funding for projects on and around school properties, namely for sidewalks, crosswalks, and sufficient signage. Southbridge, Charlton, and Dudley voiced an interest in securing SS4A funding to implement accommodations for vehicles, pedestrians, and bicyclists along specific roads.

Specific projects that were mentioned during the public participation efforts include downtown Paxton's intersection and improvements at Otis Street to safely access the MBTA Commuter Rail Station in Westborough.

Asset Management:

Across the region, there is a need for a best practice guide and toolkit about gaining candidacy for funding. An example of why this is necessary is the TIP, for which FHWA and DOT enforce eligibility requirements, making it difficult for municipalities to facilitate funds when they need them most. This best practices guide and toolkit would outline all the requirements necessary for each funding source, so that towns would know the credentials they need to secure before applying for the funds. This guide could also include general best practices about managing funds for different planning areas, as community members and municipal employees from many towns in the CMRPC region admitted to having a lack of "people-power" or overall lack of funding.

Additionally, multiple communities in each CMRPC sub-region need culvert replacements. There is a potential for CMRPC to expand its reach in terms of culvert assessments, but also, to create a checklist for municipalities before securing an official culvert assessment. This way, CMRPC may prioritize which culverts to assess and secure funding for.

Emerging Technology:

As previously mentioned in the freight section of the Modes of Transportation chapter and the Congestion Mitigation Program section of this chapter, traffic caused by freight is a major issue in the region. Emerging technology plays a major role in why this congestion is such an issue on both highways and state routes, as freight trucks use navigation systems such as Google Maps and Waze to determine their routes based on live traffic data. There is a need incorporate this emerging technology into planning studies and subsequent regional mapping tools to identify

the best suitable freight routes (exclusions) without impacting the distribution chain and logistics of freight movement, while safeguarding the livability of our town centers and villages.

Other emerging technology that is becoming increasingly relevant to transportation planning is, of course, electric-powered vehicles and EV charging stations. Although there seem to be plenty of EV charging stations in some areas, this type of infrastructure needs to reach even the most rural communities in the region, as more people may become interested in investing in an EV. Innovations related to Artificial Intelligence (AI) and Autonomous Vehicles (AVs) were also mentioned during the public outreach process. The efforts related to AV technology were favored due to its potential to improve the mobility and assist the independence of those that are visually impaired.

Potential initiatives as a result of these emerging technologies could involve infrastructure-tovehicle technology and vehicle-to-vehicle technology. Moreover, there is an increasing interest in car-sharing programs, similar to *Zipcar*, and even EV car-sharing programs. This could be a potential initiative for communities or sub-regions that are identified as interested. The regulatory climate on how to deal with disruptors and how equity will be addressed as part of the deployment of new technologies were also mentioned by participants.

Environment:

Across the region, community members and municipal employees are becoming increasingly concerned with the long-term impact that transportation behaviors and systems have on the environment. More and more people are looking to change their personal transportation behaviors, whether that means carpooling more often, using public transit, walking or biking to their destinations, or purchasing an electric vehicle if they can afford to.

Many people throughout the public outreach efforts mentioned being specifically concerned about outdated culverts, dilapidated bridges, and flooding risks, and the subsequent effects on nearby wildlife. Various communities specifically expressed needing updated culverts and bridges. CMRPC can perform culvert assessments for communities, but there is a potential need for municipal checklists to give CMRPC an idea of the condition of the culvert in question before an assessment. From there, there is also a potential for a best practices guide or toolkit for potential funding avenues, such as BIL discretionary grants, to help alleviate some of the stress on towns as they approach outdated culverts. Furthermore, NAACC training should be promoted to interested communities as a tool for better understanding the impact that transportation infrastructure has on local wildlife.

Examples of some of the specific roads that were mentioned as needing culvert assessments and potential repairs were Ravine Road and Central Turnpike in New Braintree, Route 31 in West Boylston and Paxton, Booth Road in Auburn. The Town of Holden is currently working on updating a few culverts, but the costs are high, and funding is limited, making the process arduous. Also, the Town of West Boylston expressed the need for improved infrastructure for flood mitigation.

2050 Connections Public Comments

Summary of Comments by Mode

Auto:

During the 2050 Connections public outreach efforts, auto was the most frequently mentioned mode of transportation. Many people throughout the region reported issues with chronic congestion, roadway and pavement conditions, intersection designs and related signage, and parking capacity. Out of all communities in the region, Worcester was most frequently mentioned as needing improved pavement conditions, increased signage, and congestion mitigation. Specific streets in Worcester that were mentioned include Mill Street, May Street, Belmont Street, Main Street, Park Avenue, and Highland Street. Major highways such as I-290, I-395, and I-84 were also mentioned as needing potential reconfiguring.

One major issue that was brought up repeatedly throughout the public outreach period was the effect that distribution centers and warehouses have on roadway congestion. Many people noticed that since the beginning of the pandemic, more distribution centers have been and are being constructed throughout the region, causing more freight and truck traffic. There is a potential need for a cumulative impact planning study of distribution centers, trucking routes, and the subsequent traffic, as well as the costs and benefits of implementing strategies to reduce this congestion. There is also a need for a potential parking study in both Uxbridge and North Brookfield.

Many different major projects were brought up in conversation throughout the public outreach period. Some of these projects are in-progress or completed, and some were just being proposed. Some examples include Route 20 in Shrewsbury, for which designs are due in June 2023, and the I-495 and Route 9 interchange, which MassDOT completed a study for in 2011 and identified several issues that need to be addressed along this corridor. Examples of major infrastructure projects that were proposed were congestion mitigation on the interchange at I-90 and I-84 to I-290 in Auburn and Charlton, as well as the replacement of the Vernon Street bridge over I-290 in Worcester.

Lastly, various initiatives are being considered as a result of the public outreach period for this LRTP. This includes facilitating both MassDOT program grants and BIL discretionary grants for issues such as the bottlenecks in Charlton or the gravel roads in Rutland.

Transit:

Throughout all the methods of public outreach for this LRTP, many people expressed the need for increased reliability on public transit. This means that people need more access to public

transit options, with more fixed routes and more stops, increasing connectivity across the region. Reliable public transit also involves standardized scheduling, with live updates to times posted at stops and online. A potential project mentioned by the stakeholders that could enhance transit reliability is the implementation of transit signal priority (TSP) in major corridors in the City of Worcester. Also, advocates mentioned their desire to extend the free fare due to its benefits to the community.

One potential major project that would increase connectivity across the region is the proposed East-West passenger rail, which would connect Boston to Worcester, Springfield, and Pittsfield. This project was repeatedly discussed throughout the public outreach period for this LRTP. Another potential remedy to this issue would be to expand regional bus networks to service more towns in each sub-region, such as expanding the Quaboag Connector to Barre and other nearby towns. Expanding regional transit services could also involve planning studies of more specific issues, such as transportation for older adults in rural communities, or a route analysis to serve the new Amazon facility at US-20 and MA-169.

Many people reported being dissatisfied with the way public transit works in and around Worcester, with the Hub being in the center of the city, forcing people to have to come into the city just to get back out. Also, there are limited affordable parking options around and in general, many people just need services within their own communities.

Bicycle and Pedestrian:

Overall, people throughout the region communicated a need for increased sidewalks and multiuse pathways within and around town centers and adjacent corridors, as well as around schools. Specific corridors that were mentioned throughout the public outreach period as needing improved pedestrian and bicycle accommodations include Route 9 and Route 122, as well as Park Ave, Highland Street and Mill Street in Worcester. These issues could be remedied with Complete Streets projects or identifying high-priority areas in terms of accessibility and regional/local network connectivity.

There is a potential need for a planning study to determine the benefits of generating community specific network plans for bicyclists and pedestrians, such as the Shrewsbury Sidewalk Plan. There is also an interest in creating a toolkit or best practices guide for accessing state and federal funds for bicycle and pedestrian infrastructure. This would not have to be community specific but instead all-encompassing and applicable to all community types and networks. Another potential study would be identifying age-friendly pedestrian routes, to aid people in navigating accessible routes and to use it as an example for future improvements.

In terms of specific trail networks that were referenced throughout the public outreach period, many people mentioned filling in gaps in and increasing connections and access to the

Blackstone River Greenway, the Mass Central Rail Trail, Southern New England Trunkline Trail, and the Mid-State Trail. Related to bike-friendly initiatives, interested communities should have the opportunity to adopt E-Bike Pilot Programs, similar to MassBike's program in Worcester, as well as other bikesharing opportunities, as identified on the CMRPC Bikesharing Report.

Rail:

The East-West Passenger Rail Project was frequently brought up throughout all methods of public outreach. This proposed project would run from Boston, through Worcester, and to Springfield and Pittsfield, with stops all along this corridor. MassDOT is conducting a study to examine the costs, benefits, and investments necessary to realize this project. MassDOT is also comparing these findings with up to six alternatives.

Other mentions of rail throughout all methods of public outreach included how changes to MBTA zoning laws will affect housing developments along routes. Also, there is interest in conducting a railroad worker's working conditions study, as well as a costs and benefits study of increasing the use of rail for transporting goods in the region.

Freight:

As mentioned as a part of the auto section, many people throughout the region expressed the need for a potential study about freight behaviors and patterns, such as along the I-495 corridor. This study could potentially be the catalyst for the creation of a regional mapping tool focused on distribution centers, trucking routes, and resulting traffic patterns. This tool could help remediate the issue of freight trucks using backroads to avoid traffic on major highways, which subsequently causes increased traffic at intersections and access points in town centers and local roads. Also frequently mentioned throughout the public outreach period was the desire to incorporate emerging technology, such as Google Maps and Waze, into the potential regional mapping tool that focuses on freight patterns, as well as incorporating such technologies to address congestion peak hours and resulting delays.

Furthermore, there is a need for more access points between interstate, state routes and other major roadways so as to avoid on and off ramp congestion. Specifically, many people in the Southeast region mentioned that congestion along Route 146, through Douglas and into Rhode Island, has been a major issue for commuters, as well as Route 146 to Route 16.

Lastly, some potential projects were proposed during the public outreach period. Firstly, freight operators need increased parking options, as well as rest area facilities. Also, freight operators need at-grade crossing improvements, in various locations across the region. Improving working conditions for freight operators is essential as the use of freight is always expanding and plays a critical role in the region's economy.

Airport:

There are several airports in the CMRPC region, including Worcester Regional Airport, Spencer Airport, the Southbridge Municipal Airport and the Tanner-Hiller Airport in Barre. Throughout the public outreach period, the Southbridge Municipal Airport was mentioned as needing repairs and reconstruction according to Federal Aviation Administration (FAA) regulations, as well as potential expansions to allow for larger jets. Also, the public demonstrated a desire for a pedestrian bridge that would connect the Tanner-Hiller Airport in Barre to the Mass Central Rail Trail. The Hopedale Industrial Park Airport was also mentioned as needing access improvements.

The Southbridge Municipal Airport, received \$7 million in 2021 from the Airport Improvement Program (API) for runway reconstruction and taxiway, as well as CARES funds and Airport Rescue Grants. Participants of the public outreach process mentioned the possibility of positioning this airport as a cargo airport, given its strategic location in the region and the presence of many distribution centers. Roadway improvements will be necessary to allow safe freight movement in and out of the airport. The access to the Worcester Regional Airport by way of the MA-56, was also mentioned during the outreach efforts.

2050 Connections Public Comments

Comments from IMAGINE 2050 Outreach

Transportation Comments from IMAGINE 2050 Outreach
Need for mix of housing choices to address different housing needs-
importance of location of housing options in regards to amenities
(i.e. jobs, open and recreation space, destinations,
healthcare services, goods, transportation, etc.)
MBTA Communities Policy will put pressure on communities with use
of open spavce and natural resources, ut we know that additional affordable housing is needed.
Look at this in creative ways as more pressure begins from people moving west
Increase transit to all communities might help improve the environment
Aging in place- rely on public transportation for folks to be able to access amenities,
recreation/open space, priority desintations (medical facilities, etc.)
Shrewsbury Project- town center district project
(lead to more walkable places, access to public spaces, outdoor dining, etc.)
Better natural spaces, more separation between nature and businesses,
more bike trails that are separated from the streets.
Better sidewalks that extend into more neighborhoods.
Connecting kids and families in Worcester to the open space,
recreation, farms, trails, water bodies, etc.
in the surrounding towns. Completing bike trails/rail trails so they aren't so fragmented. More composting services offered in the region.
Public transportation to outdoor spaces
Affordability of energy, housing, transportation- building in equity to these systems
A robust investment in Rail Trail / Bike Trails to connect all Towns
(& Attractions) in Central MA,
complete with parking options & charging stations for e-bikes.
Attention to climate issues more local options to decrease
transportation of goods and people, alternative energy, etc.
Eco-friendly, sustainable energy. public transportation.many public lands.extensive bike trails.
support for local farmers and protection of precious farmable land.
equality of schools among all communities,
much less incarnation because of social safety net.speed limits enforced on roadways.
Expanded electric vehicle infrastructure
Tram or subway connection directly from Worcester Airport terminal to downtown Worcester.
Increase in local production of food and energy for greater
independence from fluctuations and risks in global markets.
Clean and sustainable public transportation
Expansion of public EV FastDC (aka Level 3) charging infrastructure to support EV adoption.
Manage worcester growth by expanding public transportation, expanding housing to support workforce

	Transportation Comments from IMAGINE 2050 Outreach
	More transit services to go with the housing/zoning requirement (MBTA communities)
	Construction of housing near transportation
	Impacts of new housing development on transportation infrastructure
Α	local medical center like reliant Medical Group In Holden. A local grocery store, more housing,
	better farms that sell local meat and vegetables. Additional nice path to walk or bike at.
	Affordable mixed use housing, walkable areas. Easy public transportation
b	Also living local green economies! Better accessibility for everyone, such as sidewalk, us and separated bicycle networks, jobs close to housing and an economy that depends on that, that is safer and more accessible particularly for children, elderly and socioeconomic statuses/income-levels.
ļ	An amended 40B - Comprehensive Permits (and revised local zoning for multifamily of all kinds) to prohibit car-oriented "big box residential" developments (i.e. large squares of units surrounded by oceans of parking lots) and to require walkable Traditional Neighborhood Development (TND) with "middle housing" of quadplexes through 8 and ten unit buildings.
	Free and widespread transit, bike lanes, anything to reduce reliance on cars. Much more affordable housing and more diverse options. Improve conditions of housing.
	Transit-oriented development with affordable-accessible housing in TOD zones.
	Worcester airport rebound and East West Rail
	Remote work might reduce increase capacity needs on transportation infrastructure
	Transportation is a huge issue
	all types of transportation
	rail service to boston takes too long
	invest in the roads
	Need more funds for trails (maintenance and care) to increase quality of life (better way finding, accomodations, etc.)
	Reducing the commute to work- which in turn would help infrastructure i.e. roads
	Improve interconnectivity
	Changes to transportation patterns into the future
	Distribution facilities/traffic patterns impact on GHG due to changes to supply chain
	Person transportation: cars?, transit, PODS, gas, electric, trolleys???
	Incentivize people to use public transportation (ie free fare)
	Re educate people to use public transportation
	Making public transportation more expensive and less convenient
	Shorten commute times around region (through public transportation or roads)
	transportation to work needs to become more efficient
	expand transportation industry to create new jobs
	Improved multi-modal transportation opportunities across state boundaries
	Lots more transit opportunities will provide more quitable opportunities across the region
	More transit, more concentrated development, less large parking lots= less CO2 emissions from cars, less impervious surface, more room for nature to provide ecosystem services
	More walkable developments and opportunities

Transportation Comments from IMAGINE 2050 Outreach
Nexus between water supply, labor supply, transportation needs for farmers (or aspiring farmers)
Transportation for new jobs, efficient transportation into Worcester
Pedestrian and bike infrastructure
East/West rail will commuting still be prevelant?
Challenge of integrating and/or creating new or additional public transportation
(so that it has some positive environmental (and socioeconomic) benefits
People need more public transit and it would have positive impacts on the environment
Small towns are lacking transportation support for mass transit
Fund mass transit in rural communities
MBTA Communities requirement- equity for adjacent communities with no train stop
Will MBTA adjacent communities receive MBTA assessments for future services?
Understanding how protected/unprotected bike lane infrastructure
impacts property values and rental costs.
Different from city to city, neighborhood to neighborhood
Town supported ride sharing services
Continue WRTA free fares
Robust electrical network to support electrical vehicles
More public transportation
Need for equity in transportation! Expand transportation modes-
public transit to more rural communities to move away from the need of personal vehicles
(and for those that may not own a personal vehicle)
Economic development- inequitable economic development, highly concentrated along highway systems
and public transportation systems- more rural communities (less connected) may feel the burden
Lack of transportation infrastructure limits access to jobs
Coordination between transportation infrastructure and transit to workforce connection
Need for broader regional government?
Utilize complete streets to encourage walking/biking
Ensure that our public transportation reflects the people using it
Park n rides and accessibility for freight truck drivers to sleep and maybe have food nearby
Impact of amazon facilities- more vehicles and traffic, driver safety, idling impacts to air quality
Impact of tolls on 146 to trucks and those trucks taking different routes
Everything west of Worcester is non-industrial development because of a lack of highways for trucks.
Invest in transportation new technologies
Rail line that runs from Worcester to Gardner, could be transit bringing students
for Wachusett Regional, or transit to Worcester
Airport needs in Southbridge: Parts of Barefoot Road needs to be reconfigured for runway expansion,
Highway access from I-90 would be useful
New economy of warehouse and transportation will be something to plan for by 2050
(Lack of highway access may be holding Southbridge back from this economic opportunity)
Public transportation needs improvements - more options are needed,
people need to get places other than work

Transportation Comments from IMA	GINE 2050 Outreach
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Train access would be useful but other modes

(like expansion of bus system) would also help

Create park and ride areas to encourage bus use

Piggy back on regional neighbors' transportation improvements

(ex. bus service improvements in Webster could benefit Southbridge)

Public transportation should be free

Traffic concerns in Westborough

Distribution centers create truck traffic, land clearing, and could leave at any moment

Buses between towns around southbridge are very helpful

better sidewalks

public buses

buses connecting towns

more walkable

Expand transportation in rural/suburban communities

Expand access to healthcare facilities, especially in rural communities,

so that owning a car is not a necessity for healthcare access

Transportation is the number one challenge for rural communities,

especially for access to jobs and services

More contract vans for rides to work

Increase flights out of Worcester airport

Access to more travel by flight would enhance Central Massachusetts

economy through more businesses and work

Hard to get in and out of Sturbridge

Streamline free public transportation for those with disabilities

Sidewalk infrastructure is necessary for those who walk to work

Same day delivery is creating challenges around traffic,

warehousing, and impacts to local businesses

Transit/Transportation Access

Better public transportation and bicycle options.

Bikeable roads, shared use paths connecting towns, more bike infrastructure from bike lanes to separated bike lanes to sharrows to mixed use paths. Get serious about improving bikeability for ALL.

bus transportation and moe jobs

European countries have invested in dedicated, interconnected and numbered bike routes

Expanded public transportation so people can either walk to work and shopping or

take public transportation and reserve cars for special circumstances.

Free and accessible public transportation

Free Parking and more parking access. Less panhandlers.

Growth in people who live and work in the area.

I think there needs to be investment in MA transit which is not on your list.

I feel that the CMRPC region has an opportunity by 2050 to counter prevailing car-centric infrastructure and non-walkable infrastructure in the USA.

Transportation Comments from IMAGINE 2050 Οι	ıtreach
I imagine more walkable areas that expand into reside	
so that folks can walk to town centers more eas	
I imagine more, higher quality restaurants and food	options
that utilize locally grown/produced foods.	
I imagine that public transportation be available in all areas	of Central Ma
Improve roads and highways. The state highways are dangerous Taking away travel lanes on rte.20 was a huge mis I love riding bike trails but taking a travel lane away and making it a no one wants to ride a bike down a highway with cars traveling at 50 to The bike lane was a waste of money and would h been better spent expanding the bike trails we already have. Taking a causes major backups on rte. 20 in Charlton and Sturbridge Route 20 also needs turning lanes especially for left ha	stake. bike lane was ridiculous o 60 mph and no one does. nave away the travel lane also e and Brimfield.
Improved regional interconnectedness. We need to image a Cer where you can easily get around the region withou More transit connections needed between constituent c	t a car!
Improvement in our transportation system to accommodate business	
Invest in public transportation	
More easily accessible public transportation.	
More options for transportation. More WRTA routes in Sout	
More public transportation options, including better commu	
more sidewalks or expansion of roads for biking and to	encourage
walking to downtown centers in small towns/ci	
Need better highway access, and better public sch	nools.
Needs roadways, Rt. 49 - bypass Holden	
public transit!!!!!!!! credits for transit, fewer credits fo	
more community involvement programs, volunteer	ing, etc
Public transportation	
Public transportation	
Public transportation covering Wachusett are	
public transportation, supporting movement of all p	
quality education, vibrant towns, support for green transportation, press	
Regional public transportation, especially a train to New York C	
Walkable communities. Local farmers markets. Being able to walk Walkable/Bikeable as well!	to places of busiliess.
· · · · · · · · · · · · · · · · · · ·	
We need to grow our economy regionally and bring more people We can do this by increasing transportation to our western suburbs,	
and creating workforce programming to engage our r	
We also need to look at our current codes and how they drive the	
The cost of construction is encouraging gentrifica	ition.
wider crosswalks and lessen truck traffic.	
connecting the bike trails/pedestrian trails among th	
It looks like I could pick 6 - so I ranked them 1-6 but I agree	e with them all

Transportation Comments from IMAGINE 2050 Outreach
I imagine policies and actions that support/incentivize and
encourage mass transit, walkability and non-car travel.
I'd love investment into the cyclist infrastructure
less regulation by the DCR restricting land use in favor of "clean water"
mountain biking is less impactful than logging but they allow that
More electric vehicles- school buses, public transportation, public safety
Public transportation
Also hard to pick - but public transit is greatly undervalued here.
CONNECT MASS via TRAINS! north/south
For those who live west of Worcester it is a long difficult commute into the city center.
There should be a east/west parkway built between route 2
and mass pike to accommodate all those in between.
Free WRTA
Geographic fairness is odd, I don't know if you mean as allocated by-person or by-area.
I think by-area would not make sense because then most investments would go where most people
aren't.
Education should also tie into the rest, for example, education about access to healthy food,
and education on getting involved with the local government.
We also need better accessibility for everyone, such as sidewalk, bus and separated bicycle networks,
and jobs close to housing, that is safer and more accessible particularly for children,
elderly and socioeconomic statuses/income-levels.
Increased regional rail coverage and more stops on commuter rails. management of route 146 truck traffic before more people get hurt.
Robust train system would be a godsend There's should be more sidewalks in the area where people walk a lot.
Three key elements are interconnected: transportation to healthy food,
access to healthcare, and access to healthy food this one was difficult to prioritize because they are tied together.
While this category seems somewhat altruistic what we ranked as as 8 or better as imagined realities are key for our business
(and I suspect) other business to thrive.
We need better local mass transit so we can expand the pool of labor here.
Right now without a car workers have a hard time getting to work.

2050 Connections Public Comments

Town of Charlton 2050 Connections Comments

Comment Details:

Date: August 25th, 2022

Via: Email

Topic: 2050 Connections Draft Document & Regional Infrastructure

From: Town of Charlton's Town Administrator, Andrew Golas

To: CMRPC Transportation Project Manager, Yahaira Graxirena

Comments:

- Just as a follow up to yesterday's infrastructure summit, here are some of the comments regarding the Charlton priorities. I hope this is helpful. Thank you
- MIP
- Route 20 (Rt 31 Sturbridge) Currently the Rt. 20 Corridor from Richardson's Corner Rt. 12 in Auburn is identified for significant improvement between 2022- 2025. Additionally, the Sturbridge Road over Cady Brook Bridge is on the TIP for 2026. The current demand on Rt. 20 during peak traffic creates a significant backup where the roadway merges to one lane Eastbound to accommodate the width of the bridge. This is expected to become more of an issue with the opening of the Amazon Robotics Sortation Center. There is sufficient land for takings to accommodate a road widening sufficient to provide 2 ways in each direction and sufficient turning lane from Westbound to Rt. 169. This should be included in the overall plan of bridge replacement.
- Given the potential impact of commercial development along Rt. 20, the entirety of the corridor to Sturbridge should be further studied for improvement.
- Stafford Street Stafford St. corridor contains of a number of high crash locations. The town
 engaged a corridor improvement study which recommended a number of pedestrian and MV
 safety improvements that could be made throughout the corridor. The recommended
 improvements should be considered as part of the long term plans.
- Pedestrian
- Auburn Mall Area Incorrectly listed as a Town of Charlton project
- Main St N. Main Street Muggett Hill Pedestrian Network The current pedestrian sidewalk network on Main Street is limited and in need of significant repair. Additionally, the existing network does not extend to areas that would be well served by a viable pedestrian network (Bay Path School, Maynard Field/Arts & Activities Council, CVS). The town negotiated the payment of \$1.5M as part of the community partnership agreement with Amazon to begin this work. Additional funding will most likely be needed to complete a full pedestrian network build-out.

- Transit
- Rt. 20 access to Rt-90 Consideration should be given to a Masspike interchange in Charlton to alleviate congestion at the 84 interchange in Sturbridge and better serve growing distribution commerce
- E-W Rail Access Currently the E-W rail feasibility identifies Palmer as the lone stop on the rail between Springfield & Worcester. The distance from Palmer to Springfield is approximately 18 miles which can be traveled by MV in 22 mins. Palmer is 36 Miles from Union Station in Worcester which is approximately a 50 min drive. It seems reasonable that a midpoint connector should be established to support the E-W rail network. Given the alignment of the existing railway. A Charlton stop would make sense as a "park & Ride" model.

2050 Connections Public Comments

Town of Northbridge 2050 Connections Comments

Comment Details:

Date: September 9th, 2022

Via: Email

Topic: 2050 Connections & Regional Infrastructure following CMRPC Quarterly Commission Meeting

From: Town of Northbridge Town Planner, Gary Bechtholdt

To: CMRPC Executive Director, Janet Pierce

Comments:

- For Northbridge -identified Route 122 (Providence Road), Plummers Corner & Church Street/Quaker Street for Question #1
 - RT 122 -the need to improve & repair roadway, drainage infrastructure & sidewalk.
 - As you likely know, portions of RT 122 is MassHighway & others Northbridge.
 - Stretches within Linwood area (MassHighway) are in need of attention; sidewalks & drainage structures, etc.
 - Northbridge, like the majority of CMRPC communities -adopted Complete Streets program initiative -we are currently working with design engineers on Linwood Avenue.
 - Plummers Corner -adjusting the traffic signal sequencing seems to improve LOS (a bit); roadway geometry at the intersection may remain an issue
 - Church Street/Quaker Street Intersection -main travelway during peak hours -to/from RT 495
 - Extending sidewalks from its current terminus on Church Street (extension from Plummers Corner) through to the DCR land -to do so would require improvements to crossing at historic Blackstone Canal (relatively narrow travelway)
- For Question #2 -suggested a comprehensive report be prepared for the entire layout of Route 122/Providence Road; identifying existing physical conditions of roadway, sidewalk, drainage infrastructure, etc. Prepared layout plans showing limit of Right-of-Way for the entirety of Route 122/Providence Road, locating sidewalk, drainage structures, culverts etc. The purpose of which is to identify needed and improvements & (re)design of roadway to include bike lanes, improved pedestrian sidewalk, etc.
- Would also look to have the Blackstone River Bikeway project advance in Northbridge -seems connection to Uxbridge could be accomplished via the DCR land through to Plummers Landing; that's where it becomes interesting, as the layout has not been formalized, conceptual layouts were discussed years ago; however not followed up; perhaps due to design/construction costs with multiple river crossing and/or conflicts with the rail.

- We did not get to Question #3.
- From a pure observer POV -participation at the meeting (as you likely know) appears to be representative of a small age-group and likely not a good demonstrative sample for other age populations...Perhaps the survey participation may help broaden this demographic.
- Lastly, to those wanting improved traffic access (roadway upgrades) for the more rural communities -suggest, be careful what you wish for....as improved access to/from Worcester may result in unintended residential growth in those towns....
- If you or others would like to speak with me & others from Northbridge on this 2050 Connections -let me know.

The Public Survey





The region's transportation plan acts as a blueprint that helps guide the prioritization and funding for transportation improvements in the region. The plan includes the following:

- Socio-economic Projections
- Transportation Improvements
- Major Infrastructure Projects
- Transit & Mobility
- Livability & Healthy Aging
- Climate Change & Resiliency

Public involvement, data and performance measures are at the core of the region's plan.

Sign up and stay updated! Join our email list about local opportunities to participate!.



Follow us:

http:www.cmrpc.org/2050connections



_iLLENA EL CUESTIONARIO!



El plan regional de transportación a largo plazo es esencial para guiar el proceso de prioritización de proyectos de transportación y la inversión de capital necesaria por los próximos 20 años.

El plan incluye lo siguiente:

- Proyecciones socio-económicas
- Mejoras a la infrastructura
- Proyectos de gran impacto regional
- Transporte público y movilidad
- Sentornos habitables y caminables
- Cambio climático y resiliencia

La participación ciudadana es un aspecto esencial del plan regional. ¡Unéte a nuestra lista de correo electrónico para enterarte de como puedes participar en el proceso!



Conéctate:

2050 Connections

2050 Connections Survey

The Central Massachusetts Metropolitan Planning Organization (CMMPO) is requesting your cooperation to complete this survey about transportation in the region. Your answers will help guide the policies, plans and funding required for a sustainable transportation future in the region.

Your information will be kept anonymous and confidential. You can skip the questions by clicking the Enter button.

* 1. In which town/city do you reside? Please choose from the dropdown menu below. Type to filter faster.

Other (please specify)		

* 2. In which town/city do you work? Please choose from the dropdown menu below. Type to filter faster.

Other (plea	se specify)
-------------	-------------

* 3. What is the first thing that comes to mind when you think about transportation?

Roadway maintenance	Trails		
Traffic safety	Public transportation		
Freight	Congestion		
Walking	None of the above		
Biking			
Other (please specify)			

* 4. What is your **PRIMARY** mode of transportation?

In a vehicle: Drive alone
In a vehicle: As a passenger
Bicycle
Walk and/or use mobility assistance device
Bus
Commuter rail
Paratransit / Senior transportation
Uber, Lyft or Taxi service
Other (please specify)

* 5. If you didn't have access to your PRIMARY mode of transportation, how would you get around?

Bike to my destination
Walk to my destination
Use public transportation (WRTA, MBTA)
Call a taxi, Uber/Lyft
Call a friend
Would have to stay at home
Other (please specify)

6. Do you want to use a different mode of transportation as your PRIMARY method of getting around?

Yes
No
Not sure

7. If yes, which one?

Walking

 \bigcirc Public transportation

- Bicycle
- Paratransit / Senior Transportation
- Public On-demand Transportation (phone app)
- 🔵 Uber, Lyft or Taxi service
- Single vehicle
- Other (please specify)

8. Have you experienced any transportation - related difficulty during the past year? Check the list and select the answer that best fit your personal experience.

- O There is no transit service available where I live.
- Can't go to school on my own.
- ◯ Gas is too expensive.
- Can't afford a car.
- On't have a driver's license.
- O There are no sidewalks or pedestrian facilities available.
- O There are no bike lanes or bicycling facilities available.
- Need someone to help me.
- C Limited days/time of service (transit, paratransit, senior transportation, etc.)
- Need to call or make a reservation in advance.
- 🔿 N/A I can travel freely without any difficulty.
- () Uber, Lyft, and taxi services are too expensive

Other (please specify)

9. Have you experienced any difficulty getting where you need to go for any of the following purposes? You can choose more than one purpose.

Trip to work
O Trip to school / college / training
◯ Trip to medical appointments
◯ Grocery shopping
O Running errands
\bigcirc N/A - I can travel freely without any difficulty
Other (please specify)

2050 Connections

Bicycle Infrastructure

10. Let's talk about bicycling in the region!

Yes
No

11. Do you have access to a bicycle?

Yes

No

12. If yes, approximately how often do you bike?

Daily	
-------	--

Once a week

Several days a week

	1	Rarely
--	---	--------

Never

13. Would you use a bike sharing service if it is available? Bike sharing is a shared transportation service which allows bicycles to be publicly available for a nominal fee and provides an alternative for short trips as well as first and last mile connections to public transit.

Yes
No

14. Which type of bicycling facilities do you prefer? Choose only one.

Clearly marked bicycle lanes

Shared lane with buses

Off-road bicycle facilities

Bicycle lane separated from traffic

On-road with vehicles

None of the above

15. Where would you add / improve the bicycle infrastructure or facilities? Enter a location in the space provided below. Please be as specific as possible. Include name of the street and town.

	1
h	

	2050 Connections
Tı	rails
	16. Let's talk about trails! Yes No
	17. Did you visit a trail this past year?

18. Do you know a location where a trail should be added or improved? Enter a location in the space provided below. Please be specific.

2050 Connections

Public transportation

19. Let's talk about public transportation in the region!

Yes

No

Not sure

No

- 20. Have you used public transportation in the last year?
- Yes No 21. If yes, please indicate the type of service you used. You can choose more than one. () WRTA 🔿 Community shuttle (available in Grafton, Northbridge, Webster, Dudley and Southbridge) WRTA – VIA (available in Westborough and Shrewsbury) 🔿 WRTA Paratransit Council on Aging transportation services 🔵 Elder Bus Ready Bus Quaboag Connector PVTA Amherst - Worcester MART Clinton - Worcester Commuter () MBTA Commuter Rail Peter Pan / Greyhound bus line Other (please specify) 22. Approximately, how often do you use public transportation? O Daily Rarely

	Once	а	wee	k
\smile				

O Never

Several days a week

2050 Connections

Pedestrian Infrastructure

Pedestrian infrastructure refers to sidewalks, crossings, signals, pavement markings, intersection designs, and other features that support the walking experience.

23. Let's talk about pedestrian infrastructure!

Yes
No

24. How would you rate the condition of the pedestrian infrastructure in your town of residence?

	Excellent condition	Good condition	Regular condition	Bad condition	There is no pedestrian infrastructure available.
Sidewalks	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Crosswalks	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Curb ramps	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Signals	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Lighting	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

25. If you walk a distance of 1/4 (0.25) mile from your residence, which of these destinations you will be able to access? Walking 0.25 miles is equivalent to walk about 5 minutes or close to 500 meters. Choose all that apply.

Supermarket / corner store	Restaurant / cafeteria
Pharmacy	Bus stop
Doctor's office / clinic / hospital	Place of employment
School / college	Shopping mall / stores
Park / playground / recreational area	None of the above

26. Where would you add / improve the pedestrian infrastructure? Enter a location in the space provided below.



27. Let's talk about roads and traffic congestion!

Yes

No

28. Please mention a location where roadway pavement should be improved. Enter a location in the space provided below. Please be specific. include street name and town.



29. Please indicate a location that suffers from traffic congestion in the space provided below. Enter a location in the space provided below. Please be specific. include street name and town. 2050 Connections

EVs

30. Let's talk about electric vehicles!

- Yes
- No

31. Do you have access to a hybrid or an electric vehicle in your household?

Yes No

32. If an electric car sharing service is made available in your town, would you use it? An electric car sharing is a shared transportation service which allows access to a publicly available vehicle for a nominal fee and provides an alternative for essential trips.

Yes No

33. Please indicate a location where there should be an EV charging station. Please be specific.

2050 Connections

Funding and Priorities

34. Let's talk about funding for transportation!

- Yes
- No

35. Before talking about funds, we need to know what your priorities are. Please rank 1 to 10 the following options in order of priority. Please enter 1 for your top priority and 10 for your lowest priority.

≣	Improve pedestrian safety (infrastructure, VisionZero policies, other countermeasures)
≣	Stormwater management / flood control / culvert replacements
≣	Reduce traffic congestion (roundabouts, updated and coordinated traffic signals)
≣	Transit service (reliability, affordability, expansion)
≣	Maintain pavement condition (rehabilitation and preservation)
≣	Reduce vehicle crashes that result in serious injuries and fatalities
≣	Expand the electric vehicle charging stations infrastructure in the region
≣	Expand the bicycle infrastructure in the region
≣	Accommodate freight needs (distribution centers, facilities, rest areas, delivery/loading zones)
≣	Expand trail network in the region.

* 36. How would you distribute the transportation funds available in the region? Think about the priorities you just ranked. Try not to exceed 100%.

	10%	20%	30%	40%	50%
Roadway maintenance	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Public transportation	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Pedestrian infrastructure	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Bicycle infrastructure	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Reduce congestion	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Traffic safety	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Trail network	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Freight facilities	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Culvert replacements	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Electric vehicle charging stations	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

2050 Connections

Demographics

The following questions are optional. Your answers will help us to improve our work.

37. What is your age group?	
18-24	55-64
25-34	65-74
35-44	75 or more
45-54	
38. What is your race/ ethnicity?	
White	American Indian or Alaska Native
Black or African American	Native Hawaiian or other Pacific Islander
Hispanic or Latino	Another race
Asian or Asian American	Prefer not to answer

39. Does anyone in your household has a special transportation need due to age or disability?

	Yes
\square	No

2050 Connections Thank you! Thanks for taking the time to complete this survey. Visit

https://cmrpc.org/2050connections for more information about the plan, events and other ways to participate.

40. If you will like more information about 2050 Connections and transportation planning in the region, please enter your email in the space provided below. Note: By providing your email information you are consenting to be added to CMRPC's emailing list.

41. Do you have any final remarks or comments that you will like to share with us? Use the space provided below.



2050 Connections_Español

Cuestionario "2050 Connections"

La Organización Metropolitana de Planificación de la región Central de Massachusetts (CMMPO, por sus siglas en Inglés) solicita su cooperación para completar este cuestionario sobre diferentes aspectos relacionados con la transportación en la región. Su participación ayudará a definir la política pública, los planes y las subvenciones de fondos necesarios para alcanzar un futuro de transportación sustentable para la región.

Su participación en este cuestionario es de forma anónima y toda información que usted provea permancerá confidencial. Puede oprimir el botón de "Enter" si no desea contestar alguna de las preguntas que siguen a continuación.

* 1. ¿En qué pueblo o ciudad usted reside? Por favor escoja una de las opciones que se incluyen en el menú. Comience a escribir para filtrar las opciones más rápidamente.

Otro lugar			

* 2. ¿En qué pueblo o ciudad usted trabaja? Por favor escoja una de las opciones que se incluyen en el menú. Comience a escribir para filtrar las opciones más rápidamente.

Otro luga	r			
1				

* 3. ¿Cuándo usted piensa en transportación, qué es lo primero que le viene a la mente? Escoja sólo una contestación. No podrá continuar hasta que seleccione una de las alternativas.

Mantenimiento de las carreteras	Senderos naturales
Caminar	Congestión vehicular
Seguridad en el tránsito	Correr Bicicleta
Carga y acarreo	Transporte público
Otra cosa	

* 4. ¿Cuál es su modo PRIMARIO de transportación? Escoja sólo una contestación. No podrá continuar hasta que seleccione una alternativa.

En un vehículo: Viajo solo(a)
En un vehículo: De pasajero(a)
Bicicleta
Camino y/o utilizo un dispositivo de movilidad
Autobús
Tren
Transportación para adultos mayores
Uber, Lyft o servicio de Taxi
Otro tipo de transporte

* 5. ¿Si usted no tuviera acceso a su modo PRIMARIO de transportación, cómo hubiera podido viajar? Escoja sólo una opción. No podrá continuar hasta que seleccione una alternativa.

Usaría la Bicicleta
Caminaría a mi destino
Utilizaría el transporte público (WRTA, MBTA)
Llamaría a un amigo
Llamaría a un Taxi, Uber of Lyft
No hubiera podido salir a ningún lugar
Otro
L

6. ¿A usted le gustaría utilizar un modo de transportación PRIMARIO diferente al que utiliza actualmente?

Sí

No

No estoy seguro(a)

7. Si contestó que sí, indique cuál.

- Caminar
- 🔵 Transporte público
- 🔿 Usar la Bicicleta
- Transportación para adultos mayores
- 🔿 Aplicación móvil para transporte público
- 🔵 Uber, Lyft o servicio de Taxi
- Automóvil privado
- 🔿 Otro

8. ¿Durante el pasado año, ha experimentado alguna dificultad relacionada con transportación? Chequee la lista provista y escoja las contestaciones que más reflejen su experiencia personal.

- \bigcirc No hay transporte público disponible donde vivo.
- 🕥 No puedo ir a estudiar por mi cuenta, dependo de alguien que me lleve.
- 🔵 La gasolina es muy cara.
- 🔿 No tengo los recursos para comprar un vehículo.
- 🔿 No tengo una licencia de conducir.
- 🔿 No hay aceras ni cruzacalles adecuados para caminar de forma segura.
- No hay facilidades adecuadas para correr bicicleta de forma segura.
- Necesito que alguien me ayude.
- 🔿 El transporte público es muy limitado (días y horas de servicio)
- Tengo que llamar o hacer reservaciones por adelantado.
-) Uber, Lyft o el taxi son muy caros.
- 🔿 N/A Puedo viajar libremente sin ninguna dificultad.

Otro tipo de dificultad

9. ¿Ha experiementado alguna dificultad de transportación para llevar a cabo alguno de estos tipos de viaje? Puede escoger mas de una.

- Ir al trabajo
 Ir a la escuela/ universidad / entrenamientos
 - 🔵 Ir a las citas médicas / doctor
 - 🔵 Ir al mercado a comprar alimentos
 - O Hacer mandados / gestiones
 - 🔿 N/A Puedo viajar libremente sin ninguna dificultad

Otro propósito

2050 Connections_Español

Infrastructura para Bicicletas

10. ¡Hablemos acerca de las facilidades para bicicletas en la región!

Sí
No

11. ¿Tiene acceso a una bicicleta?

Sí
No

12. Si contestó que sí, aproximadamente, ¿cuán frecuente utiliza la bicicleta?

- Diariamente
- Una vez a la semana

Varias veces a la semana

Rara vez

Nunca

13. ¿De estar disponible, utilizaría un servicio público de bicicletas? El servicio de bicicletas públicas permite a las personas tener accesso a una bicicleta para hacer viajes cortos y conectar con el transporte público por un precio razonable.

Sí	
No	

14. ¿Qué tipo de facilidades para bicicletas usted prefiere? Seleccione una de las alternativas.

- Carril de bicicletas claramente demarcado en el pavimento.
- 🔿 Carril de biciletas compartido con el autobús.

Ciclovías en senderos naturales separados de la red de carreteras.

- Carril de bicicletas separado del tráfico vehicular.
- Carril de bicicletas junto a los automóviles, sin demarcación en el pavimento.

15. Mencione un lugar donde se deba añadir o mejorar la infrastructura para bicicletas. Incluya el nombre de la carretera y el pueblo. Recomendamos una constestación específica y detallada.

2050 Connections_Español

Senderos naturales

16. ¡Hablemos sobre senderos naturales!

Sí

No

17. ¿Ha visitado algún sendero natural durante el pasado año?

Sí

No

No estoy seguro(a)

18. Mencione un lugar donde se deba añadir o mejorar un sendero natural. Recomendamos una constestación específica y detallada.



2050 Connections_Español

Transportación pública

19. ¡Hablemos sobre el transporte público en la región!

Sí

No

20. ¿Ha utilizado el transporte público durante el pasado año?

Sí
No

21. Si contestó que sí, por favor indique el tipo de transporte público que utilizó. Puede escoger más de uno.

🔵 Autobuses de la WRTA	
🔿 WRTA Community Shuttle (disponible en Grafton, N	orthbridge, Webster, Dudley y Southbridge)
🔿 WRTA – VIA (disponible en Westborough and Shrews	sbury)
🔿 WRTA Paratransit (van)	
O Servicio de transportación de los "Council on Aging"	
C Elder Bus	
C Ready Bus	
O Quaboag Connector	
O PVTA Amherst - Worcester	
O MART Clinton - Worcester Commuter	
O MBTA Commuter Rail	
O Peter Pan / Greyhound Bus Line	
Otro	
22. Aproximadamente, ¿cuán frecuentemente u	sted utiliza el transporte público?
O Diariamente	🔵 Rara vez
🔵 Una vez a la semana	🔘 Nunca
🔿 Varias veces a la semana	

2050 Connections_Español

Infrastructura para Peatones

La infrastructura para peatones incluye las aceras y andenes, cruzacalles, señales, marcas en el pavimento, diseño de intersecciones y otros elementos que permiten caminar de forma segura.

23. ¡Hablemos sobre la infrastructura para peatones.

Sí

No

24. ¿ Cómo calificaría la condición de las facilidades peatonales en su pueblo de residencia?

	Condición Excelente	Condición Buena	Condición Regular	Condición Mala	No hay facilidades peatonales disponibles.
Aceras	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Cruzacalles	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Rampas	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Señales	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Iluminación	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

25. Indique los lugares a los que usted tiene accesso al caminar 500 metros desde su lugar de residencia. Caminar 500 metros es equivalente a caminar 5 minutos o un cuarto de milla. Marque todas las que aplique.

SuperMercado / mercado de la comunidad	Restaurante / cafetería
Farmacia	Parada de autobús
Oficina de doctor / clínica / hospital	Lugar de trabajo
Escuela / Universidad	Tiendas de ropa, artículos del hogar, etc.
Parque / área de juegos / área recreativa	Ninguna de las anteriores

26. Mencione un lugar donde se deba añadir o mejorar la infrastructura para peatones. Incluya nombre de la calle y el pueblo. Recomendamos una constestación específica y detallada.

2050 Connections_Español

Carreteras

27. ¡Hablemos sobre las carreteras y la congestión vehiclar en la región!

Sí

No

28. Mencione un lugar donde se deba mejorar la condición del pavimento. Mencione un lugar donde se deba mejorar la condición del pavimento. Incluya nombre de la carretera y el pueblo. Recomendamos una constestación específica y detallada.



29. Mencione un lugar donde existe un problema de congestión vehicular. Incluya el nombre de la carretera y el pueblo. Recomendamos una constestación específica y detallada.

2050 Connections_Español

EVs

30. ¡Hablemos sobre los vehículos eléctricos!

Sí
No

31. ¿Tiene acceso a un vehículo eléctrico o híbrido en su hogar?

Sí
No

32. ¿De estar disponible, utilizaría un servicio de vehículos eléctricos comunitarios? El servicio de vehículos comunitarios permite a las personas tener accesso a un vehículo eléctrico para hacer viajes cortos por un precio razonable.

Sí
No

33. Mencione un lugar donde se deba añadir infrastructura para recargar los vehículos eléctricos. Recomendamos una constestación específica y detallada.

2050 Connections_Español

Financiamiento y Prioridades

34. ¡Hablemos sobre el financiamiento de la infrastructura de transportación!

Sí

No

35. Antes de hablar sobre el financiamiento a la infrastructura de transporte, necesitamos conocer sus prioridades. Ennumere las siguientes opciones del 1 al 10 en orden de prioridad. Seleccione 1 para su mayor prioridad y 10 para la prioridad más baja.

≣	Mejorar la seguridad de los peatones (infrastructura, política pública de Visión Zero, otras estrategias).
≣	Manejo y control de aguas de escorrentías, control de inundaciones, reemplazo de alcantarillado.
≣	Reducir la congestión vehicular (rotondas, coordinación de las señales de tránsito).
≣	Servicio de transporte público (asequible y confiable, expansión).
≣	Mantener la calidad del pavimento (rehabilitación y preservación).
≣	Reducir los accidentes vehiculares que terminan en fatalidades y/o lesiones graves.
≣	Expandir la infrastructura para cargar vehículos eléctricos.
≣	Expandir la infrastructura de bicicletas en la región.
≣	Considerar las necesidades de carga y acarreo (centros de distribución, facilidades, áreas de descanso, zonas para entregas y de carga/descarga)
≣	Expandir la red de senderos naturales en la región.

* 36. ¿Cómo distriburía los fondos disponibles para transportación en la región? Recuerde las prioridades que seleccionó. Al contestar trate de no exceder el 100%.

	10%	20%	30%	40%	50%
Mantenimiento de las carreteras	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Transporte público	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Infrastructura para peatones	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Infrastructura para bicicletas	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Reducir la congestión vehicular	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Seguridad en el tránsito	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Expandir la red de senderos naturales	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Facilidades de carga y acarreo	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Mejoras al alcantarillado	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Estaciones de carga de vehículos eléctricos	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

2050 Connections Español

	_ / _
Características	Domogróficoo
aracieristicas	Demoorancas
Juluotoriououo	Domogramouo

Las preguntas que siguen a continuación son opcionales.

37. Indique su grupo de edad.	
18-24	55-64
25-34	65-74
35-44	75 o mayor
45-54	
38. Indique su raza / etnia.	
Blanco(a)	Persona Nativa de Hawaii o de las Islas del
Negro(a) / Afro-Americano(a)	Pacífico
Asiático(a)	Hispano(a) o Latino(a)(x)
Asian or Asian American	Otra raza / etnia
Indo-Americano o Persona Nativa de Alaska	Prefiero no contester

39. ¿En su hogar, hay alguna persona que tenga una necesidad especial de transportación debido a la edad o discapacidad?

Sí

2050 Connections_Español

¡Muchas gracias!

Gracias por completar este cuestionario. Visite nuestra página en el internet: https://cmrpc.org/2050connections para más información sobre el plan regional de transportación a largo plazo "2050 Connections", eventos, actividades y otras formas para participar.

40. Si desea recibir más información sobre el plan de transportación 2050 Connections por favor escriba su dirección de correo electrónico en el espacio que se provee abajo. Nota: Usted está proveyendo su consentimiento para ser incluído(a) en la lista de correo elctrónico de CMRPC.

41. Puede utilizar el espacio que se provee a continuación para incluir cualquier comentario final que quiera compartir con nosotros.

2050 CONNECTIONS SURVEY RESULTS

At a Glance

The Central Massachusetts Regional Planning **Commission (CMRPC) Transportation Staff** asked the public to take a survey as part of the public engagement effort of the Long-Range **Transportation Plan (LRTP).**

284 people responded to the 40 question survey; here is a glance at some of the feedback they gave...

Q: What is the first thing that comes to mind when you think of "transportation"? A: 51.2% of people said public transportation





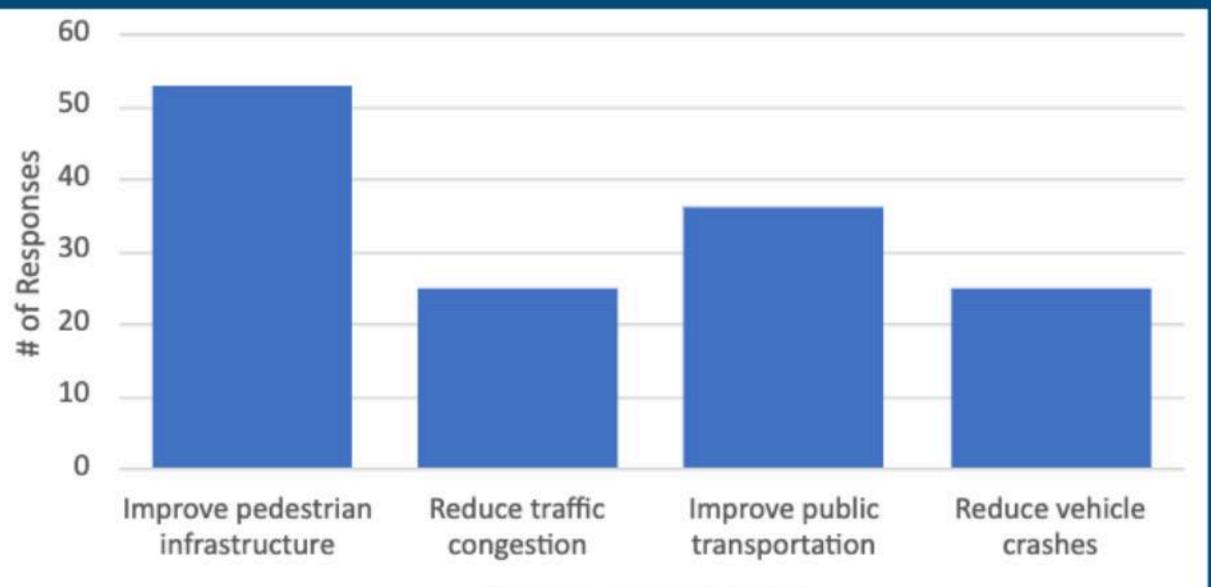
Q: Have you used public transportation this past year? A: 51.6% of people said yes!



Q: Would you utilize a bike sharing service if it were available in your community? A: 34.4% of people said yes

Q: Did you visit a walking or hiking trail this past year? 64.3% of people said yes

Q: Which transportation projects are your funding priorities?





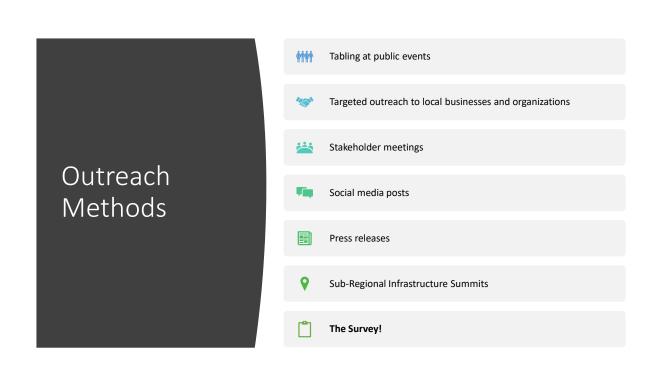
For more information about the LRTP visit the link below -





Outreach Update & Survey Results

December 2022 CMMPO



Tabling at Public Events

- Beaver Brook Farmers Market
- Worcester Out-to-Lunch
- Westborough 4 Life
- Worcester Street Art Festival
- Green Hill Neighborhood Block
 Party
- Electric Vehicle Expo
- Apple Country Fair



Targeted Outreach

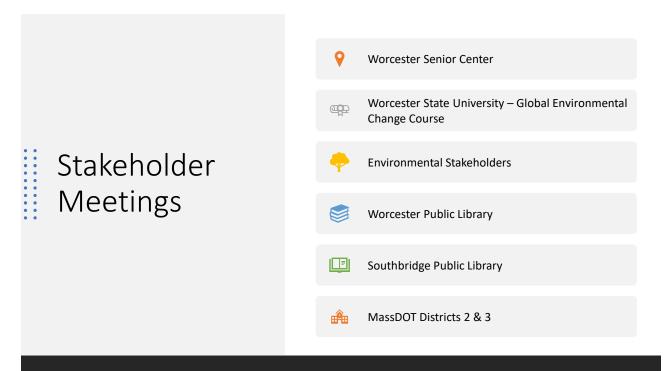
- Email Blasts
- Plugging LRTP and survey at community meetings and meetings with outside organizations
- Survey flyer online and at participating locations

Participating Facilities:









Social Media Posts



the link above to go to our Long-Range Transportation Plan website and fill out our survey! Every response makes a difference. Thank you!

TAKE THIS SURVEY AND IMPACT **TRANSPORTATION IN YOUR REGION!**

tral Massachusetts Regional Planning Commission ucting its Long-Range Transportation Plan which will t Southern Worcester County for the next 25 years. Vill you get involved and share your experience?

e link below or scan the QR code with your smart amera to take the survey. The results will directly ct CMRPC's priorities and plans. Thank you!





Press Releases

• A 2050 Connections article was published in each of the following news outlets:

- Spencer New Leader
- Auburn News
- Charlton Villager
- Sturbridge Villager
- Southbridge News
- Webster Times
- Blackstone Valley Tribune
- Coalition for a Healthy Greater Worcester
- CMRPC Bi-Monthly Newsletter!

2050 Connections -What Are Your Transportation Goals for Southern Worcester County?

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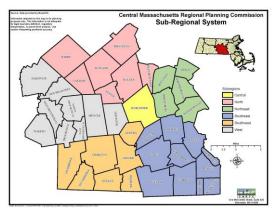
7

Sub-Regional Infrastructure Summits

Regional Summit

Locations:

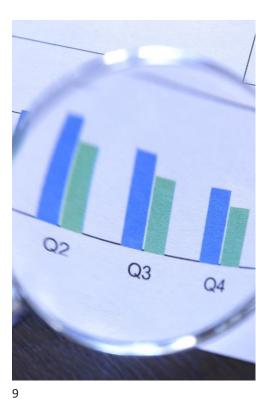
- Northeast: Westborough
- Southeast: Grafton
- North: West Boylston
- West: Brookfield
- Southwest: Dudley
- Central: Worcester
- & 2 virtual summits!











Survey Results

We received <u>284</u> completed surveys & Over <u>1,000</u> written comments!

Demographics: Town of Residency

• Out of the 40 communities in the CMRPC region, 32 were represented in the survey

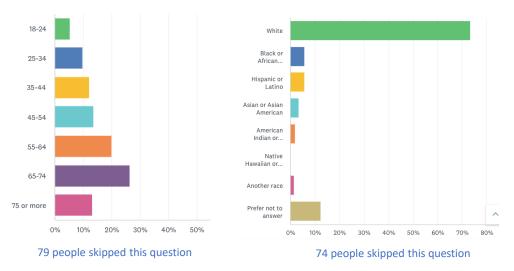




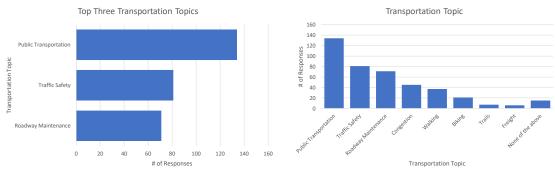
Towns NOT Represented in survey

- East Brookfield
- West Brookfield
- North Brookfield
- Oakham
- Sturbridge
- Blackstone
- Upton
- Uxbridge



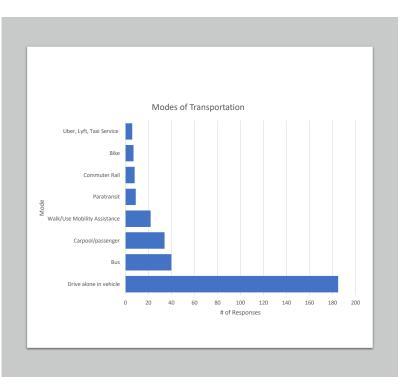


Q: What is the first thing that comes to mind when you think about transportation?



Q: What is your primary mode of transportation?

<u>185</u> people responded "alone in a personal vehicle"



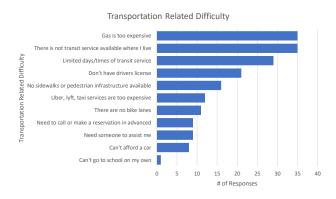
13

Major Questions

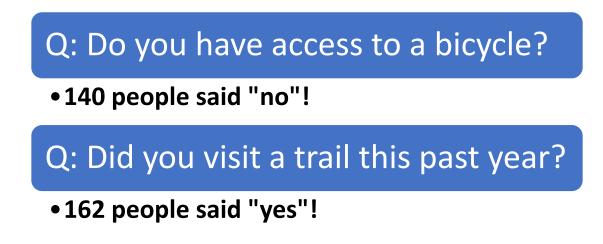
- Q: If you didn't have access to your primary mode of transportation, how would you get around?
 - 87 people responded "use public transportation"
- Q: Do you want to use a different mode of transportation as your primary mode? If yes, which one?
 - **110** people responded "no" and then 78 people responded "public transportation"

Q: Have you experienced any transportation related difficulty during the past year?

• 59 people responded "N/A - can travel freely without difficulty"



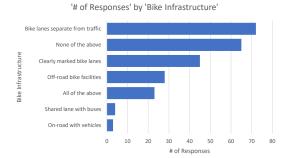
Major Questions



Q: Would you use a bike sharing service if it were available to you?

• 34% of respondents answered "yes"

Q: What type of bicycle infrastructure do you prefer?

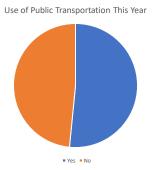


Q: Where would you add/improve bicycle infrastructure? Responses in the form of open-ended comments include locations such as:

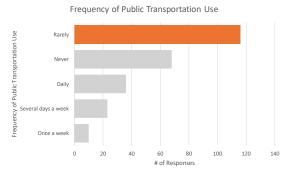
- Schools
- Train/public transit stations
- Libraries
- Grocery stores
- & many residential areas in the region

Major Questions

Q: Have you used public transportation this past year?

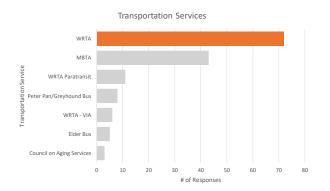


Q: How often do you use public transportation?



17

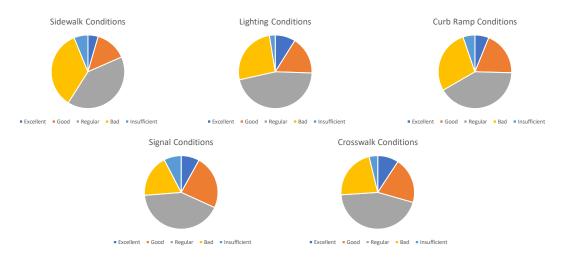
Q: Which transportation service do you use most frequently?

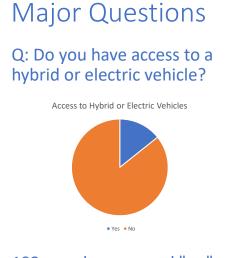


19

Major Questions

Q: How do you rate pedestrian infrastructure?





192 people answered "no"

Q: If an electric car sharing service is made available in your town, would you use it?



97 people answered "yes"

Major Questions

Q: What are your transportation project priorities?

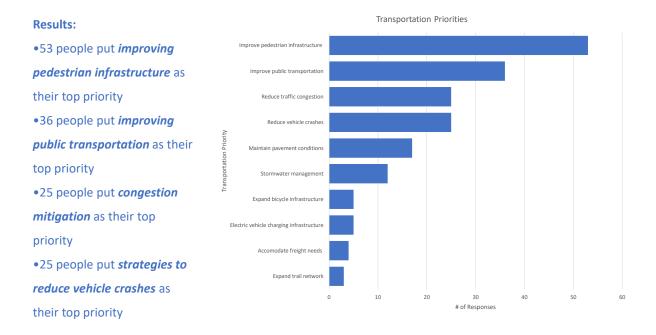
Regarding funding, we asked respondents to rate their priorities on a scale from 1 (top priority) to 10 (lowest priority) based on the following list of transportation infrastructure:

- Pedestrian infrastructure
- Stormwater management
- Congestion mitigation
- Public transportation
- Pavement conditions
- Strategies to reduce vehicle crashes
- Expand EV charging infrastructure
- Expand bicycle infrastructure
- Accommodate freight needs
- Expand trail network









Thank you!

Any questions?

2050 Connections Public Survey Results

Question 1: In which community do you reside?

¿En qué pueblo o ciudad usted reside?

Response	# of Responses	Percentage %
Auburn	6	2.21
Barre	1	0.37
Berlin	1	0.37
Blackstone	0	0
Boylston	1	0.37
Brookfield	4	1.47
Charlton	1	0.37
Douglas	3	1.1
Dudley	4	1.47
East Broofield	0	0
Grafton	3	1.1
Hardwick	7	2.57
Holden	7	2.57
Hopedale	1	0.37
Leicester	1	0.37
Mendon	2	0.74
Millbury	3	1.1
Millville	1	0.37
New Braintree	1	0.37
Northborough	12	4.41
Northbridge	1	0.37
North Brookfield	0	0
Oakham	0	0
Oxford	6	2.21
Paxton	1	0.37
Princeton	1	0.37
Rutland	3	1.1
Shrewsbury	6	2.21
Southbridge	5	1.84
Spencer	2	0.74
Sturbridge	0	0
Sutton	2	0.74
Upton	0	0
Uxbridge	0	0
Warren	2	0.74
Webster	3	1.1
Westborough	10	3.68

Response	# of Responses	Percentage %
West Boylston	2	0.74
West Brookfield	0	0
Worcester	169	62.13
Skipped	12	

Question 1 Comments		
Worcester		
Swansea		
Neverland		
Mansfield		
Clinton		
Hopkinton		

Question 2: In which community do you work?

¿En qué pueblo o ciudad usted trabaja?

N/A, retired, unemployed 76 32.07 Auburn 2 0.84 Barre 0 0 Berlin 1 0.42 Blackstone 1 0.42 Boylston 1 0.42 Brookfield 0 0 Charlton 0 0 Douglas 2 0.84 Dudley 3 1.27 East Brookfield 0 0 Grafton 2 0.84 Hardwick 1 0.42 Holden 1 0.42 Hopedale 1 0.42 Hopedale 1 0.42 Millulle 0 0 Mendon 0 0 Northborough 12 5.06 Northbrough 12 5.06 Northbrough 1 0.42 Northbrough 1 0.42 Northbrough 1 0.42 Northbrough 1<	Response	# of Responses	Percentage %
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Warren00Webster00	Upton	0	0
Webster 0 0	Uxbridge	1	0.42
Webster 0 0	Warren	0	0
Westborough 4 1.69		0	0
	Westborough	4	1.69

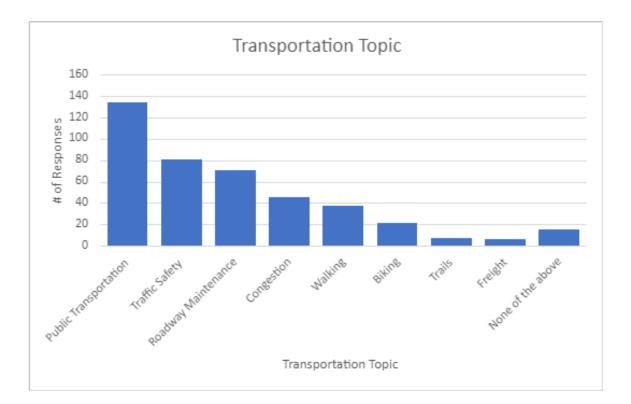
Response	# of Responses	Percentage %
West Boylston	1	0.42
West Brookfield	0	0
Worcester	110	46.41
Skipped	47	

Question 2 Comments		
Work from home		
Retired x17		
Primarily work from home, some commuting to Newton		
area		
Cambridge		
Boston x2		
Cambridge		
Any place that hires me		
Don't work		
Worcester		
Retired disabled		
And Statewide		
Hudson		
Unemployed		
Amherst		
Plainville		
N/A		
I don't work		
All over		
Hopkinton, MA		
East Hartford, CT		
Smithfield, RI		
Travel to various locations across MA		
Burlington, MA		
Billerica		
Leominster		
No work		
Natick		

Question 3: What is the first thing that comes to mind when you think about transportation?

¿Cuándo usted piensa en transportación, qué es lo primero que le viene a la mente?

Response	# of Responses	Percentage %
None of the above	15	5.73
Public Transportation	134	51.15
Roadway Maintenance	71	27.1
Congestion	45	17.18
Walking	37	14.12
Biking	21	8.02
Freight	6	2.29
Trails	7	2.67
Traffic Safety	81	30.92
Skipped	22	

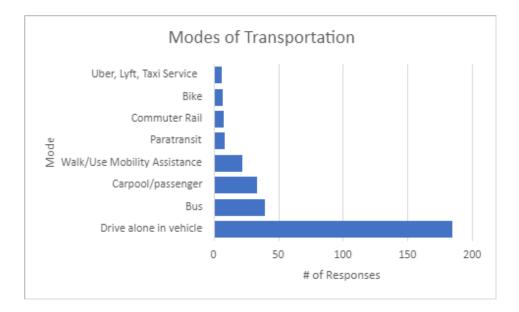


Question 3 Comments		
On time and reliable		
Al of the above		
WRTA		
Expensive and long		
Sidewalks a mile around the school as children are walking. Allowing and building healthy towns		
Distance to the closest bus stop		
Electrification		
Wish I had wings		
Doesn't make sense to have big buses with person sitting there please it's important to have small bans with 8 person will be great, the City is loosing a lot of money in big busses		
Very difficult to obtain		
Paratransit		
Car, wheelchair van, WRTA		
Availability of affordable public transit when I can no longer drive		
Safe trip home from hospital or medical procedure		
WRRTS		
Handicap access options		
Driving my car		
Driving		
Cars		
Pollution		
Allof these		
It's great that it's free		
My car		
Cars		
No license		
Commute time		
Multi-use and congestion		
Multi-use		
Expansion of some roads, the Mass Pike for example lanes could be added to both east and west bound directions. Ramps could be redesigned and added		
Decreasing ability to negoitiate traffic		
Driving a car		
0		

Question 4: What is your primary mode of transportation?

¿Cuál es su modo primario de transportación?

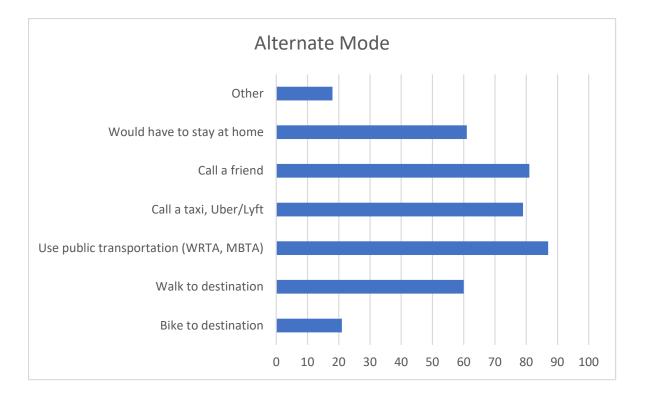
Response	# of Responses	Percentage %
Drive alone	185	68.52
Bus	40	14.81
Carpool/passenger	34	12.59
Walk/Use mobility		
assistance	22	8.15
Paratransit	9	3.33
Commuter rail	8	2.96
Bike	7	2.59
Uber, Lyft, Taxi	6	2.22
Skipped	14	



Question 4 Comments		
Family		
Find someone to carry me		
The City is small needs 8 person "bans" driven to many		
places		
Provided limited transportation due to low vison		
Wheelchair van		
Driving in vehicle: transporting others		
I don't get around much		
Or drive with another passenger		
Walk		
Electric scooter		

Question 5: If you didn't have access to your primary mode of transportation, how would you get around?

Response	# of Responses	Percentage %
Bike to destination	21	7.61
Walk to destination	60	21.74
Use public transportation	87	31.52
Call a taxi, Uber/Lyft	79	28.62
Call a friend	81	29.35
Stay home	61	22.1
Other	18	6.52
Skipped	8	



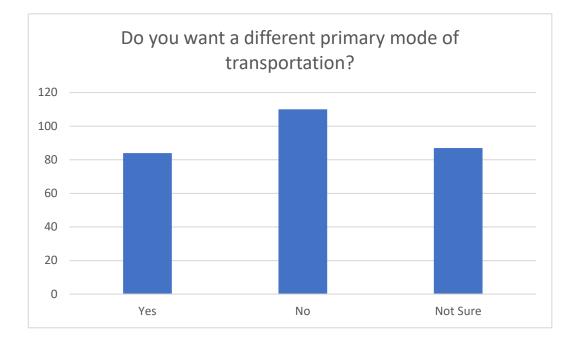
Question 5 Comments		
Veteran/military transportation services		
Would have to arrange a ride		
Depends on where I'm going		
Drive		
Wait for flooding rains then swim		
My son		
Senior center transportation		

Question 5 Comments		
I would use publice transit but no longer comes near		
my neighborhood (Salisbury St)		
Uncertain as I have never been without		
I always drive my own car		
Puzzled??		
Passenger in a vehicle driven by spouse		
I would like to be able to use public transportation but		
none available near Worcester/Holden line		
Hope that public transportation when I have medical needs		
Have my husband drive me		
My mom drives me		
Combination of all		
Electric scooter		

Question 6: Do you want to use a different mode of transportation as your primary mode of transportation?

¿A usted le gustaría utilizar un modo de transportación primario diferente al que utiliza actualmente?

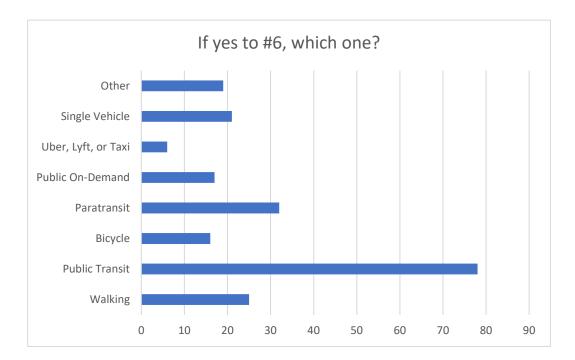
Response	# of Responses	Percentage %
Yes	84	30.32
No	110	39.71
Not sure	87	31.41
Skipped	7	



Question 7: If you answered yes to #6, which one(s)?

Si contestó que sí a #6, indique cuál.

Response	# of Responses	Percentage %
Walking	25	11.68
Public Transit	78	36.45
Bicycle	16	7.48
Paratransit	32	14.95
Public On-Demand	17	7.94
Uber/Lyft or Taxi	6	2.8
Single Vehicle	21	9.81
Other	19	8.88
Skipped	70	

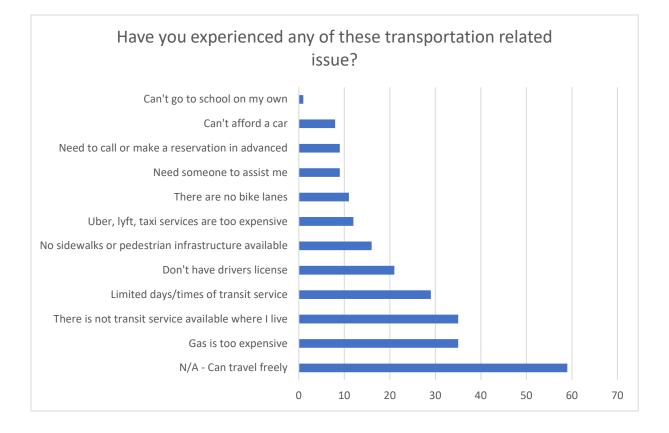


Question 7 Comments
N/A
Will use public transportation when I can't drive
Unsure of above based on where I live, probably still drive
I couldn't live here without a car
Walk upside down on my hands
l said no
No
None
Not sure
Scooter
It's great
Public transportation, uber, lyft, or taxi
walking, public transportation, bike
Walking and public transportation
Single vehicle
Not sure
Electric scooter/bike
Remote work; I don't want to commute myself nor ride germy bus
I have resorted to all different ways

Question 8: Have you experienced any transportation related difficulties in the past year?

¿Durante el pasado año, ha experimentado alguna dificultad relacionada con transportación?

Response	# of Responses	Percentage %
Gas is too expensive	35	14.29
There is no transit service available where I		
live	35	14.29
Limited days/times of transit service	29	11.84
Don't have driver's license	21	8.57
No sidewalks or pedestrian infrastructure	16	6.53
Uber/Lyft/Taxi are too expensive	12	4.9
No bike lanes	11	4.49
Need someone to assist me	9	3.67
Need to call or make reservations in		
advanced	9	3.67
Can't afford a car	8	3.27
Can't go to school on my own	1	0.41
N/A	59	24.08
Skipped	39	



Question 8 Comments
Also, need to make a reservation in advanced and uber/lyft/taxi services are too
expensive
N/A
Uber doesn't come as far as my neighborhood
Too much traffic and congestion
Transit unreliable
These are dangerous areas around the town center that are used by children
and walkers that are not full sidewalks.
Need to fulfill the healthy community promise
People on phones walking in to me
Need small 8 person "bans"
None of the above
Limited rides available
Mechanical problems with my car
Shoveling driveway
Bus does show up as scheduled on schedule
No problems
Weather permitting
Work to replace gas and water pipes, causing reduced lanes, etc.
I get winded walking and using steps
Was refused transportation when I had to broken wrists.
Now I am getting a hip replacement and am going to need help
None
The WRTA buses sometimes don't show up on time
Also, limited days/times of service, uber/lyft are too expensive
and need to call to make a reservation in advanced
Until this year I did not have a car on campus, making transport difficult
Also, not bus route that is reliable near my work
There is a transit service where I live, but not always to where I'd like to go
There are no sidewalk or pedestrian facilities available
It's great
Can't afford a car, uber/lyft/taxi services are too expensive, gas is too expensive
N/A, I can travel freely without difficulty
buses don't go everywhere i need to go (ecotarium/north high; mercy center);
some runs are very infrequent
Don't have a drivers license, need to call or make reservations in advanced, can travel freely without difficulty
don't have drivers license but can travel freely
Limited days/time of service and uber, lyft and taxi as well
there are no bike lanes or biking facilities available and gas is too expensive
can't afford a car, don't have drivers license and gas is too expensive
car registration

Question	8 Co	omments
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Commuter rail to worcester and bus to worcester state univ would take 1.5 hours instead of 0.5 hours to drive

and cannot afford a car or uber, lyft and taxi service

also can't afford a car

also - can't go to school on my own, can't afford a car, don't have drivers license, there are no sidewalks, limited day/time of service, uber/lyft too expensive

limited bike lanes

there are some bike lanes but a very limited number

Traffic congestion. Traffic seeking to avoid the Mass Pike and route 20 spilling out onto narrow neighborhood

roads because of the inability of those roads to handle today's traffic.

Both roads were designed 70-80 years ago, and have not seen any real major upgrades.

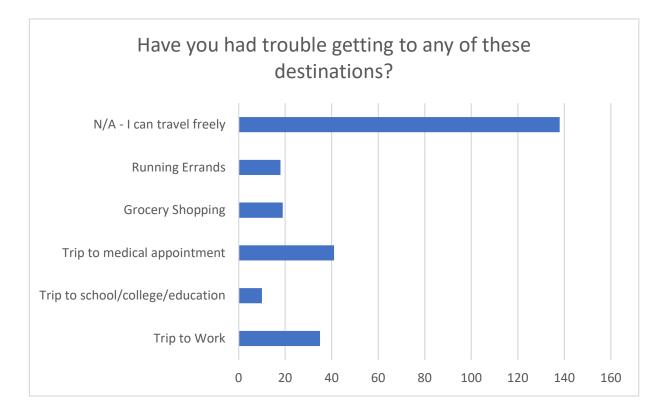
Concerned re safety to walk or bike at night

Public transportation is limited on Hamilton St.

Question 9: Have you experienced any difficulty getting to any of the following destinations?

¿Ha experiementado alguna dificultad de transportación para llevar a cabo alguno de estos tipos de viaje?

Response	# of Responses	Percentage %
Trip to work	35	13.41
Trip to		
education	10	3.83
Trip to medical	41	15.71
Grocery		
Shopping	19	7.28
Running errands	18	6.9
N/A	138	52.87
Skipped	23	

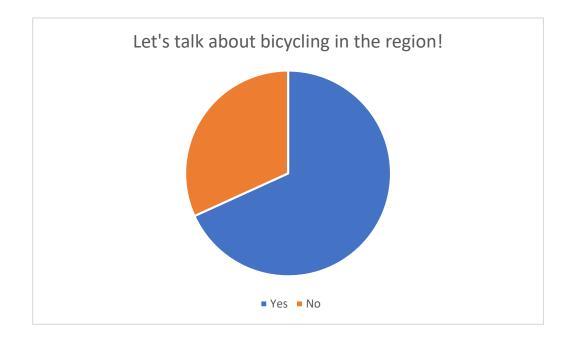


Question 9 Comments
Grocery shopping and running errands x7
Only for medical procedure where I would need a ride home (not allowed to
drive)
Walking
Running errands x2
Visit with mistress
Need more access to transportation
No difficulties
But, I after to walk with walker
Medical, when I shouldn't drive myself, getting home from hospital, driving
after being medicated with eye drops
Getting to an appointment ON TIME!
All of the above x4
Getting to Boston via MBTA
Trip to medical appointments, grocery shopping and running errands
Grocery shopping and trips to medical appointments
Trip to school, medical appointments and grocery shopping
Work, grocery and errands
Trip to school and work
Trip to grocery and trip to school
All of the above; need AA meeting daily
Trip to school, trip to medical appointment, grocery shopping, running
errands
Going to Worcester can be a problem (medical appointments)
It doesn't let me click all of them

Question 10: Let's talk about bicycling in the region!

¡Hablemos acerca de las facilidades para bicicletas en la región!

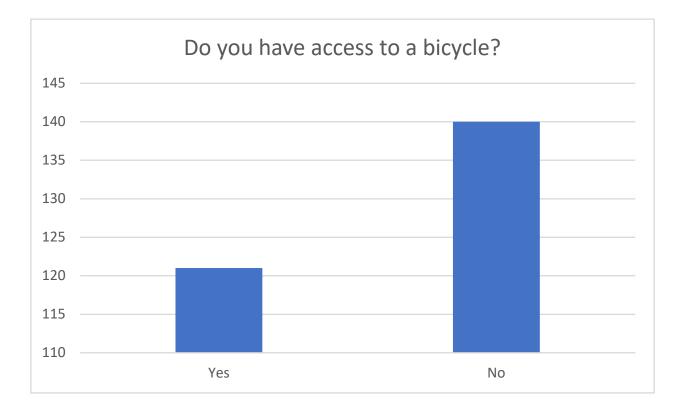
Response	# of Responses	Percentage %
Yes	178	68.46
No	83	31.92
Skipped	24	



Question 11: Do you have access to a bicycle?

¿Tiene acceso a una bicicleta?

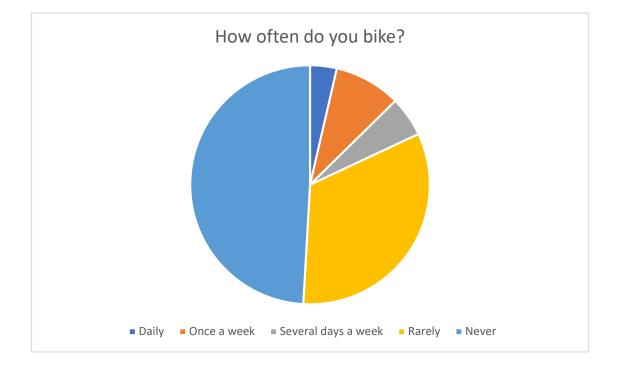
Response	# of Responses	Percentage %
Yes	121	46.36
No	140	53.64
Skipped	23	



Question 12: If yes, approximately how often do you bike?

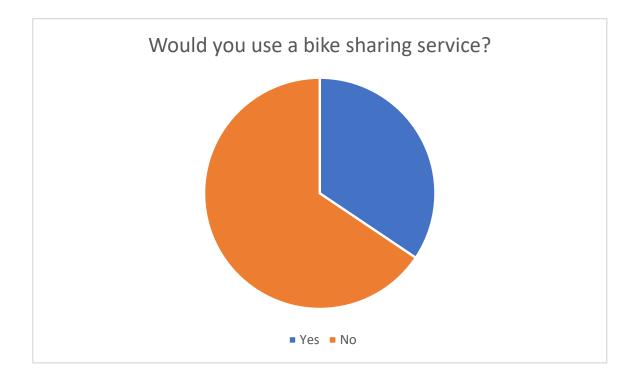
Si contestó que sí, aproximadamente, ¿cuán frecuente utiliza la bicicleta?

Response	# of Responses	Percentage %
Daily	8	3.64
Once a week	20	9.09
Several days a		
week	12	5.54
Rarely	73	33.18
Never	109	49.55
Skipped	64	



Question 13: Would you use a bikesharing service if it were available?

Response	# of Responses	Percentage %
Yes	85	34.41
No	162	65.59
Skipped	37	

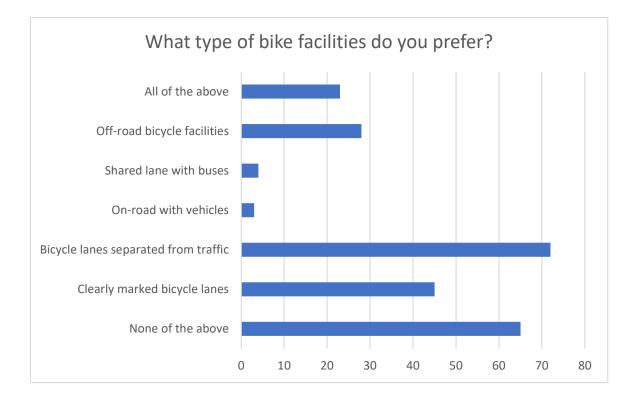


¿De estar disponible, utilizaría un servicio público de bicicletas?

Question 14: Which type of bicycle facilities do you prefer?

¿Qué tipo de facilidades para bicicletas usted prefiere?

Response	# of Responses	Percentage %
None of the above	65	27.08
Clearly marked bike lanes	45	18.75
Bike lanes separate from		
traffic	72	30
On-road with vehicles	3	1.25
Shared lane with buses	4	1.67
Off-road bike facilities	28	11.67
All of the above	23	9.58
Skipped	44	



Question 15: Where would you add/improve bike facilities?

Mencione un lugar donde se deba añadir o mejorar la infrastructura para bicicletas. Incluya el nombre de la carretera y el pueblo. Recomendamos una constestación específica y detallada.

Question 15 Responses
N/A x5
Main street, Crawford street, Davis street
Mendon would recquire significant roadway
improvements markings to be bicycle friendly
Don't have particular location in mind
The central street bike path needs a bigger parking lot
Within the Mendon area; however, road safety would be a real issue as congestion,
narrow roadways, etc. Off road bike paths would be ideal
I think bicycles should have separate lanes or not be on the road
Main street Northborough, in the downtown area
Hopedale
Extend the assabet rover rail trail
I would love to see the rail trail between central mass boroughs completed and
potential biking ability on the aqueducts in Northborough and around Bartlett Pond
Downtown Northborough
Everywhere. Northorough has NO safe or denoted bike lanes in town
Route 9
Grafton street into Union Station/downtown Worcester
We are looking to do a multiuse trail on the aqueduct and hope to connect with a MA rail trail through Berlin
Ruggles street in Westborough
For children, bike access would be helpful
I live near Flagg street and Richmond street.
Adding a lane on Pleasant street would increase my use of bicycling to get around
Main streets in Webster
Speed bumps on any road across city
Would be great if city could provide safe designated
bike lanes on Worcester's major streets
Cambridge St and Southbridge St corner
I have no idea, I do not use a bicycle at all
Nowhere
I walk with a walker. I cannot use the bike currently due to extremely limited mobility
Bicycles are dangerous. Driver's are not careful
Have some bike areas to exercise with access to shopping areas, medical facilities.
Use to have bus in my neighborhood, but now I need to walk 1.5 miles to get to a bus.
If I had an electric bike I could use, I could get around much more easily.
Park ave and Salisbury street but fear streets "ate" too narrow
and dangerous for bikers due to width and traffic

Question 15 Responses
City hall, Worcester
Not at all
Kids ride bikes on sidewalks hazardous to themselves pedestrians - esp. those walking dogs
Not sure x2
Off road biking
Train station, library
Grove street Worcester
More "Nike" lanes
Blackstone valley trail
Shrewsbury street
Stafford St., Park Ave and Main street in Worcester
Don't know
ldk x2
Bicycle paths are the only place I ride; riding on the road with motor vehicles is not safe enough
I don't bike
Na
Pleasant St. and Highland St. Worcester
North lake ave. Worcester. constriction south of Natural History Rd.
Why didn't the boneheads provide for bike/walking when
they repaired the washed out section a few years ago?
Not sure because I never bike
Main South, Worcester, MA
Route 32 in Hardwick
West Boylston Street overpass in Worcester is impossible to cross safely and
divides three neighborhoods while preventing access to supermarkets
Patrill hollow road Hardwick ma
Holden, MA main street and Highland (rt 31)
I would love biking lanes along Pleasant street, Flagg street, Holden street in Worcester.
Would enable me to bike into work
Worcester, along major routes
Downtown areas especially Also May St. is scary because its so wind-y and only has sidewalk on one side
Aarat/Holden St
Down 9
Belmont street Worcester
Ramshorn rd., west Main street, dudley
All cardinal directions from downtown Worcester
The city of Worcester! With a focus in places like Kelly square area/canal district
West main, Airport road and Dudley Oxford Road
Route 12, Worcester, the entire length; dark & dangerous
railroad underpasses separating the east & west sides of Worcester
Pleasant street in Worcester

Question 15 Responses
Worcester allows parking on both sides of main streets.
I wish one side were a traffic separated bike lane
Buses that run on time
Vernon street Worcester MA
Main street Worcester MA x2
Front street or Franklin street in WOrcester mA
Lincoln street
Worcester - everywhere but Lake Ave & Mill street are prime
for facilities Webster - Rt 12 and Cudworth Rd to Thompson Rd, Lake Ave
Bike lines in cities like Boston, Cambridge, Somerville are risky -
lane is in a different spot in different places and that seems unsafe
Worcester union station and workplace/campuses
Downtown area of Southbridge Mass
Worcester street
Pleasant street in Worcester
Beacon street, Worcester
Many roads in Brookfeild don't have wide enough shoulder so
I am very hesitant to bike around or have my kids bike to friends' houses
because cars fly by with very little space. A dedicated lane or at least wider shoulders would
make me more comfortable doing that for short trips around town.
Every road as big or bigger than June street
Worcester x7
?
Rutland - 122A, full distance; Worcester - Barre x2
Downtown Worcester
Add more e bikes in Worcester
No where
Central tree Rd, Rutland has no sidewalks and is a main road
for approx 7 streets that dump traffic onto it.
There is no way to get to my house from the center of town, Holden, or
even to the strip mall nearby without riding or walking in the roadway
Blue bikes are a need, no car
More options to keep your bike locked and secure at places and businesses
Worcester, bicycle share
I believe that biking should be restricted from roads like Route 20 that have
high volumes of traffic and do not have adequate space for a bike lane.
Taking away a travel lane to add a bicycle lane like
they did in Brimfield did nothing for traffic and
in my opinion increased the chance for motor vehicle/bicycle accidents.
A lot of money was spent for little to no use of the bike lane,
money that could have been better spent.
Biking sucks due to the hills

Question 15 Responses
Southbridge street corridor, Worcester
Too old to bike safely
Throughout Worcester there is a great need to increase safe capacity for biking and to implement designated bike lanes on major travel routes. Gold star Boulevard and West Boylston street where I work come to mind as major transit routes lacking bike safety
I am willing to bike on paved bike paths but I would never risk my life by biking in traffic among people who text and drive. Also, I can't bike to work due to dress code, but if I could work remote and stay close to home then I am willing to do errands on bike
Have helmet program for frequent fliers
Everywhere
The entirity of Worcester, the whole city "sucks" to cycle in
Blackstone trail to crompton park
Main Street Worcester from Webster Sq to downtown.
Low car ownership in main south, low speeds on main street, and flat topography make it ideal
Are around UMass Memorial University Campus
I have been hit by a car on a bike, had one stolen, and a third low quality one basically fall apart. Even if I wanted to ride a bike any more I'm no longer strong enough to get up hills, especially with a backpack. Bike trails shound NOT exclude peestrians. It seems like lanes in the street are for experts and may be safer for walkers, but would scare me
Rt 62 and Rt 140 in Princeton and Sterling all throughout Worcester so one can travel safely
Places to lock your bike and leave it at bus stop, Leicester
Some areas in Worcester and in other towns they make bike lanes in vibrant colors, that would be great to see universally around the city
Chandler or Pleasant street
Mill street - this is NOT safe currently even with a "bike lane"
Everywhere in the city. We need protected bike lanes. I own a bike. I live in quinsig village and work in the greendale area. I would love 100% bike to work if I felt safe. I do not feel safe walking in my neighborhood. No job is worth risking my life over
PROVIDENCE ROAD
Salisbury street in Worcester. Especially by the schools and assumption college
Skipped: 159

Question 16: Let's talk about trails!

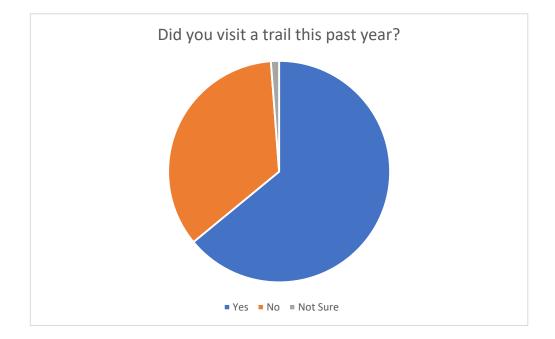
¡Hablemos sobre senderos naturales!

Response	# of Responses	Percentage %
Yes	200	77.52
No	58	22.48
Skipped	26	



Question 17: Have you used a trail in the last year?

Response	# of Responses	Percentage %
Yes	162	64.29
No	88	34.29
Not sure	3	1.19
Skipped	32	



Question 18: Do you know a location where a trail should be added or improved?

Mencione un lugar donde se deba añadir o mejorar un sendero natural. Recomendamos una constestación específica y detallada.

Question 18 Responses		
Each neighborhood or quadrant should have a trail		
Enhance trails to Worcester County for handicapped people (wheelchairs, etc.)		
N/A x13		
Haywood ave or Providence St		
No x16		
Northborough has amazing trails and a great trails committee		
Assabet in Marlborough near Boston Scientific		
On the central street bike path, there are trails around it		
Over the aquaduct in Northborough		
Anything on the southern side of hopedale		
Northborough along the existing aqueduct		
the northborough trails are fantastic. would like pedestrian access to the aqueduct bridge and a rail trail completed between the boroughs for pedestrian and bike use		
Boynton Park trails need signage and the parking lot needs an updated water drainage system.		
Over half the parking lot is covered in ice from water that		
drains off the field area on the opposite side of the		
parking lot from the road that goes into the park.		
Sandbags could block the water and drain it into the woods or creek.		
Allen Street, Northborough		
No. Northborough has a great trails committee french river webster		
nothing comes to mind presently Connection of trails is important. The trails connecting Westborough and Northboro is as specific as I can		
be.		
Johnson tunnel		
Patch Pond trail		
I have no interest in trails		
No, I do not know x2		
Moore State Park		
I rented an electric bike when I was out of town, and was able		
to get around and see different places. I'm elderly, but the electric bike made it easy.		
Bike trails/ lanes and rental opportunities where there are no buses would be great.		
Spruce St / Shrewsbury: Town's sidewalk plowing leaves berms and		
deep ruts that make walking to/from trail very hazardous		
Continue bike path that goes to Millbury		
Blackstone visitors center		
I'm not sure x2		
East side Worcester		

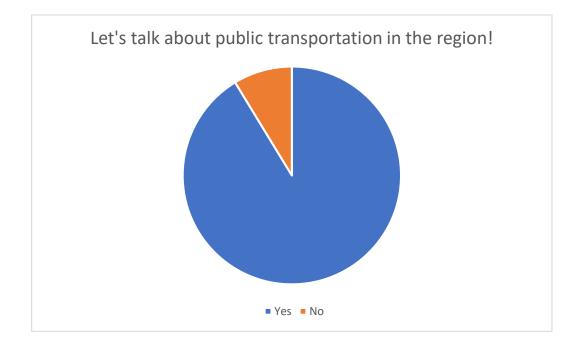
Question 18 Responses
No, I don't know of any needing work.
Cedar swamp areas
I would love to see a trail between Westborough and
Northborough that connects to one in Sudbury.
Should complete the bike/walking trail from Worcester
to the Blackstone rail trail down to R.I.
Safety around Smith pond near tatnuck square.
Blackstone Valley
From Wheelwright, MA to Barre.
Trail along river in Gilbertville
A trail needs to go around Indian make and include Dodge Park.
Reconnecting foot and bicycle traffic across the west
Boylston Street overpass from Burncoat and Greendale.
the trails i commonly use are well maintained and I know what
organization to contact if there are problems (Mass Rail Trail or GWLT)
Hardwick
Wachusett Rail Trails
The State Forest in Douglas has a few trails that link to greater state trails,
however that's not immediately apparent. I'd say improving the trails in that area and
making it more obvious how connected they are
would be a very interesting and valuable investment.
Better signage Green Hill Park. All the trails in green hill park.
Baker Pond
Dudley Rail Trail
Like roads, trails need continual maintenance,
but most of it falls upon volunteers with few resources.
We need the equivalent of the former Civilian Conservation Corps
Link end of Four Town Greenway to MidState Trail on Leicester/Spencer line
IDK
yes
Park ave, Worcester MA
Route 146
Northboro multiuse trail to connect schools -downtown - neighborhoods
Not really
The rail trail through downtown Southbridge
Rail trail
Fitchburg bike trail
Not at this time
Newton Hill at Elm Park
Behind Ogara park in Spencer, MA
Tobias lane trail near Walmart (homeless live there)

Question 18 Responses
MCRT - needs to be finished between Glenwood and Wachusett -
needs spur to Glenwood School - needs safe access from town center
Everywhere in Worcester Massachusetts
Trail to Shoppes at Blackstone
Belmont street
The Rail Trail in Rutland is not fully connected and
while it may be a property ownership issue
it completely disconnects the entire area from using the trail to access areas more easily
Worcester Greenhill Park. A trail between Belmont and Lincoln treet
MRCT needs to be finished between Glenwood and Wachusett,
needs spur to Glenwood School and needs safe access from town center.
Spencer snowbird. Nice but no tick control measures taken.
urban river corridors like Shoal Creek walk Austin TX.
cascade falls
None - I think Worcester trails are well maintained!
I visited the Millbury bike trail over a year ago but it was
isolated and scary for a single woman. It didn't feel safe
Central Mass
I don't
Blackstone to Crompton
Connecting the Blackstone trail with webster sq
Greater Worcester Land Trust does a great job
If you are talking about hiking type trails in parks I love them for fun and for short cuts.
The danger is off road vehicles. Also, I've walked on some unofficial trails that
do involve trespassing, but are the fastest ways to get places.
Maybe these could be made public with a compromise to land or
made unnecessary with pedestrian bridges, tunnels, etc.
Trails in Worcester connecting the UMASS campus and
Biotech Park up into Green Hill Park's network of amazing trails
No, but more is best
blackstone valley bike trail
Worcester to Providence trail needs to be completed
Skipped: 171

Question 19: Let's talk about public transportation in the region?

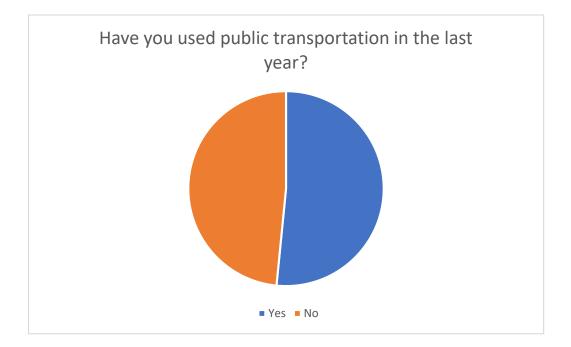
¡Hablemos sobre el transporte público en la región!

Response	# of Responses	Percentage %
Yes	231	91.3
No	22	8.7
Skipped	31	



Question 20: Have you used public transportation in the past year?

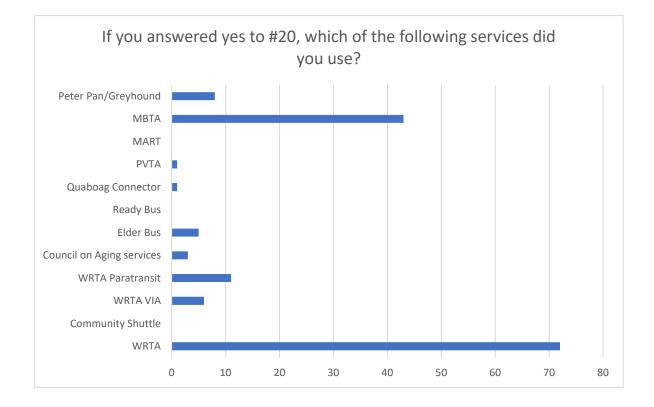
Response	# of Responses	Percentage %
Yes	132	51.56
No	124	48.44
Skipped	28	



Question 21: If you answered yes to #20, please indicate which service you used.

Si contestó que sí, por favor indique el tipo de transporte público que utilizó. Puede escoger más de uno.

Response	# of Responses	Percentage %
WRTA	72	48
Community Shuttle	0	0
WRTA VIA	6	4
WRTA Paratransit	11	7.33
COA Services	3	2
Elder Bus	5	3.33
Ready Bus	0	0
Quaboag Connector	1	0.67
Ρντα	1	0.67
MART	0	0
MBTA	43	28.67
Greyhound/Peter Pan		
Bus	8	5.33
Skipped	134	

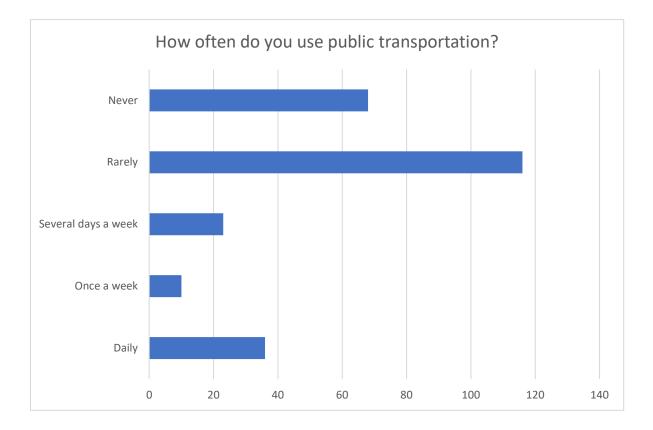


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None after covid	

Question 22: Approximately how often do you use public transportation?

Aproximadamente, ¿cuán frecuentemente usted utiliza el transporte público?

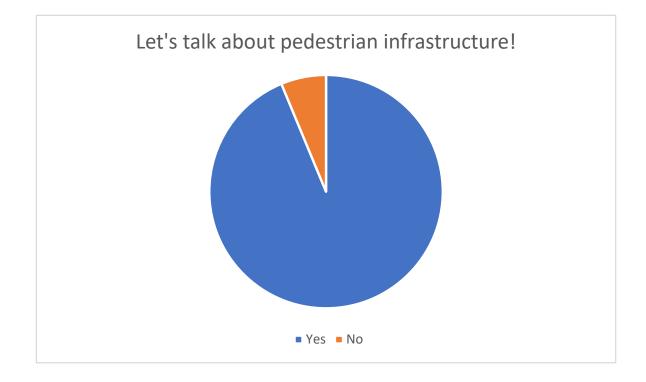
Response	# of Responses	Percentage %
Daily	36	14.23
Once a week	10	3.95
Several days a week	23	9.09
Rarely	116	45.85
Never	68	26.88
Skipped	31	



Question 23: Let's talk about pedestrian infrastructure!

¡Hablemos sobre la infrastructura para peatones!

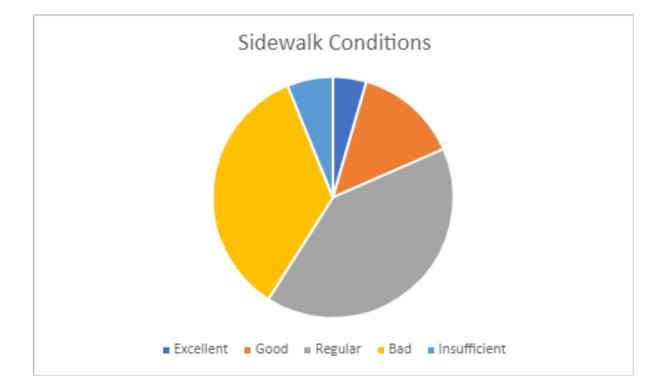
Response	# of Responses	Percentage %
Yes	225	93.75
No	15	6.25
Skipped	44	

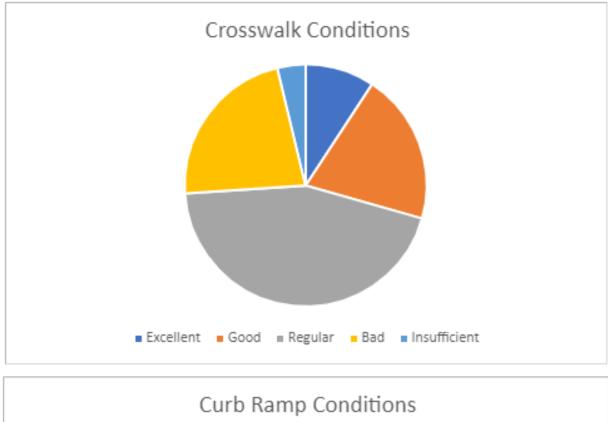


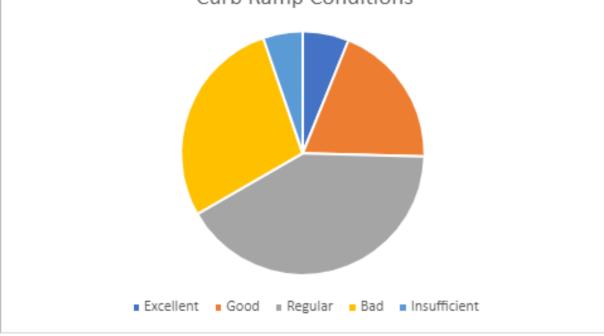
Question 24: How would you rate the conditions of pedestrian infrastructure in your town of residence?

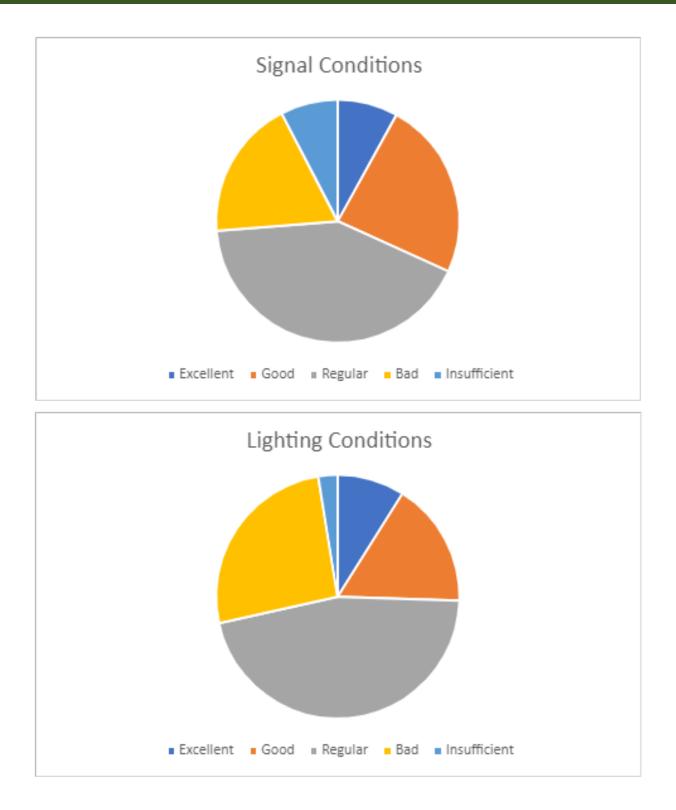
Infrastructure Type	Excellent	Good	Regular	Bad	None
Sidewalk	11/4.51%	34/13.93%	99/40.57%	85/34.84%	15/6.15%
Crosswalk	22/9.24%	48/20.17%	106/44.54%	53/22.27%	9/3.78%
Curb Ramp	14/6.14%	44/19.30%	94/41.23%	64/28.07%	12/5.26%
Signal	19/8.05%	56/23.73%	99/41.95%	44/18.64%	18/7.63%
Lighting	21/8.94%	39/16.6%	108/45.96%	61/25.96%	6/2.55%
Skipped	38				







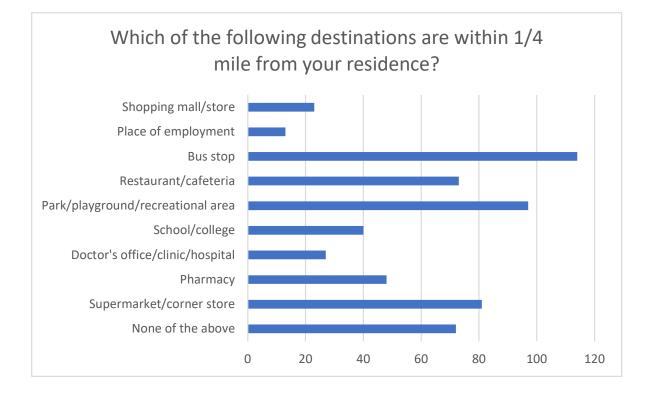




Question 25: If you walk a distance of ¼ (0.25) mile from your residence, which types of destinations do you encounter?

Indique los lugares a los que usted tiene accesso al caminar 500 metros desde su lugar de residencia.

Destination Type	# of Responses	Percentage %
None of the above	72	29.03
Supermarket/market	81	32.66
Pharmacy	48	19.35
Medical office	27	10.89
School/college	40	16.13
Park/playground/recreation	97	39.11
Restaurant/cafeteria	73	29.44
Bus stop	114	45.97
Place of employment	13	5.24
Shopping mall/store	23	9.27
Skipped	36	



Question 26: Where would you add/improve pedestrian infrastructure?

Mencione un lugar donde se deba añadir o mejorar la infrastructura para peatones. Incluya nombre de la calle y el pueblo. Recomendamos una constestación específica y detallada.

Question 26 Responses
Worcester streets and sidewalks should be monitored for updates and repairs
Sunderland Road to Graft Street; there are kids, mothers with strollers, older folks coming back from Stop & Shop and no sidewalks, and the road is winding and we are unable to see around the corners as the road is winding. There have been accidents before and the leaves are not trimmed. it's very scary.
Blind people need your help! Worcester County blind people are of "all ages"
Grafton St, Sunderland Rd
Worcester Public Library, Mechanics Hall, Tuckerman Hall night life cass locations
curb ramps
Rt. 9 @ North/South Quinsigamond Ave
N/A x3
Sidewalks in rural areas
Crawford street, Church Street, Davis Street, Main Street, Ridge Road, Bartlett Street, Northborough
All over Mendon.
Grove St Worcester needs crosswalk painted at oak barbell tavern
Throughout downtown
We need sidewalks extended to other roads and areas In town. The only sidewalks are on central and 122. Both streets are limited with sidewalks
Downtown Northborough
I would add more sidewalks all over Northborough
There's NO pedestrian infrastructure on the south side of town. It's dangerous
Add sidewalks to maple st in Northborough so kids can walk to Peaslee elementary and high school kids can walk to school safely as well as drive safer
Northborough
The entire town needs to redo or add sidewalks
Sidewalks on Brigham Road
All throughout town-this has been a 25 year ask!
Chandler Street
Near the high school. There are some side streets that need sidewalks
Ruggles street in Westborough, Westborough downtown must solve the problem of traffic especially by big trucks. Generally speaking our downtown is not pedestrian friendly.
Extend the side walk on Brigham Hill going into Grafton Center. The sudewalk stops on right side and there is a curve in the road that does not allow cars to see crossers. Or pls think as children and seniors walk to church school and to town events

Question 26 Responses
Westbrook Road and Saxon Road have inconsistent sidewalks
thompson road webster
Need more sidewalks in Westboro
Red light district for common nightwalkers
Street crossings
There is a need for side walks
Many places in the City does not have side walk we have to walk in the street
I have no idea
West Maine Street Sutton Road
Improve
There are no sidewalks on my street.
The roads are in horrible condition with alot of potholes.
This makes walking with a walker VERY difficult. if not impossible.
w.boylston st area
don't know
Webster Square
None of the above
Better job of clearing snow/ice from sidewalks in winter
Newton Square
Otis street, westbough
Salisbury Street
Flagg St
West Boylston Street
Walks
Plantation St Worcester
Better sidewalks
Shovel along Pleasant St in Worcester where it is a sta tree e highway
Auburn sidewalks
Sunderland road
Streets and sidewalks
Sidewalk needs improvement
Not sure x5
Lighting on side streets is marginal at best.
Side streets need help.
Lots of old trees have buckled sidewalks and made them unsafe
Colby ave in worcester
Salisbury street worcester
Bus stop at corner of Route 56 and 122
Rte. 122A Worcester to Holden
Sidewalks x2
Shore Drive, Millbrook St., Anywhere people walk and their are no sidewalks!

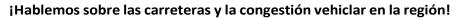
Question 26 Despenses
Question 26 Responses
I don't spend time or money at the new polar Park Green Street area because it's too chaotic to walk.
waik. It is well known that up and down pleasant Street almost no one
stops for pedestrians in the crosswalks. I would love both of these improved
Main South, Worcester, MA
The yellow plastic squares on the sidewalk ramps are breaking and coming loose from the base creating a hazard.
Lincoln street, chandler street, Main Street
Buss loop by Chester Street
Sunderland under railroad bridge and MA 20; Sunderland and Lake Ave;
Stafford Street; overgrown, no lighting, narrow sidewalk
Actually, I think Holden has pretty good pedestrian infrastructure.
It would be nice to have a sidewalk on both sides of Shrewsbury STreet, though.
Hardwick
Holden, MA There are sidewalks and pedestrian infrastructure in the center of town
and what is there is pretty average. Once outside the center,
the roads are narrow with little to no shoulder and cars drive fast! I cannot walk safely on the street I live on to get to a walkable area, I need to walk on neighbor's lawns
May St only has one sidewalk and its a scary road
Brattle St, Holden St
Flag Street
Bailey Street and Mower Street Worcester MA
every street should have sidewalks
On both side of Lyman and on Ruffles past high school
Slow traffic
Downtown, along rt30 east esp from uhlmans to Hastings
All streets in Worcester In dense areas like bell hill especially on Belmont St
airport road, dudley
a sidewalk on either side of Brattle Street in Worcester
Along rt 122a, better under bridge sidewalks on Hammond,
Cambridge, and Southbridge streets
North St, Douglas MA
Airport Road, Dudley Oxford Road, Dudley Hill Road and West Main Street
Sidewalks available on all streets and all maintained and
nothing blocking access to people with mobility issues
Sidewalks citywide are often in poor condition, obstructed by overgrowth, low tree branches,
trash, and parked cars. If drivers faced the same sort of obstacle course,
they'd scream bloody murder. But pedestrians are supposed to grin and bear it.
We need to invest in sidewalks and bikelanes and
not just motor vehicle infrastructure
keep it free
Fruit and Sever Street
Shrewsbury street

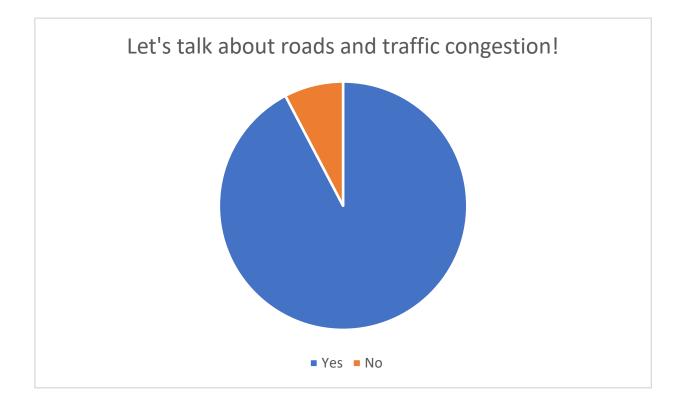
Question 26 Responses
Main street, Chandler street, Belmont street
Add Cudworth Road, Thompson Road, Old Worcester Road - Webster
More side lanes
Downrown traffic unsafefor pedestrians. Middle school empties and kids crossing rt 20 is perilous.
In the neighborhoods around the hospital
Downtown core area
more buses/times
Downtown worcester
Worcester x4
The section on rt 148 between lake road and molasses hill rd
is narrow and hilly making it dangerous to walk on.
I avoid that and drive my car if I need to go that way.
Kelly Square
Pedestrian transportation is the most basic/accessible mode, this must be the #1 priority,
everything should be built around with walking in mind. Then bike, then everything else
Cambridge street
Rt 56 full distance x2
Grocery stores on shrewsbury st
None
Central Tree Rd, Rutland has zero bike lanes or sidewalks and is incredibly dangerous to walk or drive on
Spencer center
Most of Worcester including affordable housing
any street without at least one continuous sidewalk. Example,
Upland Street from Greenwood Street to Manor Rd, Auburn
West boylston st worcester
Lighting in Hardwick Center
Worcester. Costs a fortune to park there. If I can't park, I can't walk there
The End of Providence Street near Super Walmart.
The entire city of Worcester, legit it's all terrible.
I guess Salisbury st corridor if I had to add a single example.
It's hostile to pedestrians yet is a residential neighborhood
Vernon Hill Food Dessert
Improve lighting and safety for crosswalks on Cambridge st in Worcester
Mill street Worcester
Around Belmont Hill(UMASS area), main street,
Everywhere! By the way, the only reason I'm within 1/4 mile is because
I paid extra for a place to live near the bus stop.
from School up to the center of town of Princeton so up along Rt 62 and
then all along Rt 31 from Post Office Place toward the Center of Town
Downtown Worcester has recently been done,
the rest of Worcester needs lots of TLC

Question 26 Responses	
We need safer streets period. There are times when cars are going way too fast, blow past me when I am at a sidewalk	
everywhere in the city besides the west side / downtown / elm park area. quinsig village to kelly square to downtown should be safe, shaded and away from cars. not an easy walk	
PROVIDENCE ROAD	
Skipped: 145	

Question 27: Let's talk about roads and traffic congestion!

Response	# of Responses	Percentage %
Yes	216	92.31
No	18	7.69
Skipped	50	





Question 28: Please mention a location where roadway conditions could be improved.

Mencione un lugar donde se deba mejorar la condición del pavimento.

Question 28 Responses
N/A x5
salisbury street and forest street need traffic lights
massasoit road
Worcester x9
main circle 01545
Frybeck ave shrewsbury
Main Street Northborough. Too many uncorrdinated lights
All over Mendon. Hartford Ave Josph Rd Edward Rd,
Lyman Rd Westborough
Lincoln street has very bad drainage and pavement issues.
A car or truck can easily get pulled off the road by the soft curbs and the degrading pavement.
Cape Road as well as Route 140 in Mendon, Hopedale, Bellingham areas
Ball street northborough
River St Northborough
neck hill rd hopedale/mendon
Hudson/Route 20 area Northboro
Lyman St Northborough/Westborough, Cedar Hill in Northborough/Marlborough
Maple Street
All throughout Northboro
Going toward Grafton near overpass a drain clogs and frequently floods,
Winifred Road near Midland Road has dangeroud dips and bumps
Route 395 and 290 from webster to worcester
All main drags USA
May St Worcester
Nonquit st Worcester
Mill Street Worceeter
Vernon Hill has been recently been given much needed attention.
Brimaninville Roundabout
I have no idea
Mill Street, Worcester
On Calumet Ave. So many potholes.
road beyond O"connors pub headedt toward w. boylston
Holden St, Worcester
Webster Square and Park Ave
Worcester - beginning of Southbridge St. in front of the Hanover Theater
Byron street in Worcester MA 01606
May St going near the hospital
May Street
None x3

Question 28 Responses
Gold star Blvd
Burncoat Street
Federal Hill Road & Depot Road, Oxford, MA
Durant St,Worcester
Franklin St East at Harrington Way
Warner Ave. Worcester MA
Salisbury st
Most of the city has issues
Stafford Street in Worcester
Highland st
Rt. 290
Mill street
Salisbury Street
Flanders Road westborough
Sunderland Road, Worcester, MA
West boylston street
Fox st worcester
Mill st worcester
Streets between granite st and providence st
many unpaved (gravel) streets would be improved with a program of simple grading.
Could use street sweepings for fill
Birchwood Road Paxton MA
Lots of improvement going on right now which is a plus (but also ties up traffic).
Gold Star Blvd., Park Ave., Grove St., Worcester, MA
Park Ave, Worcester
Piehl ave Worcester, other various side streets
Beaver Brook parkway across from Big Y main Street
Goldthwaite Road, Worcester, MA
Rt. 19 Warren
New Braintree RD Hardwick
Southbridge street near Hanover theater
West Boylston Street overpass is a barrier
All of state and town roads could use some improvement
Patrill hollow road Hardwick ma
Wallace St. Divon Ave. Worcester: Lused to live on the Divon Ave

Wallace St., Dixon Ave. Worcester: I used to live on the Dixon Ave.
hill off of Lincoln St., and the pavement was so awful that it destroyed my car.
The plowing each winter was also horrible and I was often stranded when

I needed to work during snow storms. Sprague Lane, Minerva St.
Ivy St. Worcester: the pavement is horrible and I have had a horrible time
making U-turns on Massasoit Rd because of the conditions of these roads.

Question 28 Responses
Right behind the building with the Root and Press, off of Chandler street, is a small, narrow street that has the HUGEST potholes, I'm always worried my Corolla won't make it through. City = Worcester.
trick question? specific areas on my commute are Holden, Highland St; Worcester, Chandler St
Hamill Rd and May St in Worcester are potholey and bumpy and ruins cars.
Also there are streets by Bancroft Tower that are literally just dirt
Most streets in Worcester need improvement
Holden St, Worcester
Mill Street Worcester MA
Rockrimmon Way
Pleasant Street (Tatnuck) to Park Ave, May ST (Pleasant to Park Ave), Salisbury Street, Park Ave (Institute- Grove Street))
Not sure x3
Route 16 Douglas
Belmont st
Main St east from Worcester/Leicester line to Webster Square
All streets labeled "private/ dangerous", Main Street after Park Ave on rt 9 west, Beacon St,
North St Douglas MA
Hamilton street, Southbridge
Dudley Oxford Road, Dudley MA
Anywhere in Main South
Worcester: Mill Street, Willard Avenue, Annisquam,
Pleasant Street near intersection with Chandler/Olean
Highland Street, Worcester, between Park Ave. & West Street.
May Street, Worcester, west of Lovell Street. Most streets in Worcester.
Swan Ave, Dawson Road, Glendale Ave, Breeze Drive, etc etc etc
Route 122 North All
Pleasant street @ intersection with Peidmont, there is a hole in the road
Main
Lincoln street
Everywhere
Southbridge Street (under RRx by Quinsig Ave)
Cambridge Street
Worcester side streets
West Street Hamilton Street dresser Street and South Street
Foster street
Salisbury Green
Route 9 Brookfield
Gay Road
Park ave

Question 28 Responses
Not my town but there is a section of road through Barre
(williamsville rd I believe) that is just terrible and has been for many years.
most roads, like Highland
Town owned roads
Cambridge street, shelter needs good sidewalk for safety of children
Dana Road Oxford
Ravine Road New Braintree
Central Tree Rd, Rutland has pavement issues that
seem to be affected by washouts in certain areas and is warping in many others.
It does force vehicles to drive a little slower but with how narrow the road is,
it causes vehicles to have to cross into oncoming traffic lanes in some areas to prevent vehicle
damage
Urban areas in the city.
Worcester roads Vernon Hill area
Virtually any road in Southbridge. Route 20 from the Brim field town line to Route 169.
I am very concerned about future traffic in that section especially with the amount of
development going on there (Amazon,Cold storage units ,etc)
Hardwick rd, from rte 32 to rte 67 Hardwick and New Braintree, MA
EVERYWHERE it's 3rd world out here
Moreland and Flagg Streets
Webster St at the railroad bridge near Fremont Street Worcester
Westfield st Worcester, Beaver st Worcester, most side streets off park Ave and main st in worcester
Highland street
Side roads
Briar Lane, Worcester until West Boylston line
Chandler St
Spencer and the Brookfield. Like driving offroad, the roads are so bad there
So many pot hole that could damage cars and prevent snow removal.
cambridge street, there's pot holes
Mooreland st
Endicott Street
Mill st worcester
Woodland St Worcester
Route 290 west in Worcester around 3pm
We need speed bumps.
sorry not sure where
Route 9 leicester into webster sq is an embarrassment
Main St Worcester (far west side)
greendale area, brooks st rockdale west boylston st
Old Westboro Rd. , Grafton

Old Westboro Rd. , Grafton

Question 29: Please indicate a location that suffers from traffic congestion.

Mencione un lugar donde existe un problema de congestión vehicular. Incluya el nombre de la carretera y el pueblo. Recomendamos una constestación específica y detallada.

Question 29 Responses
N/A x3
Worcester x3
Park ave, salisbury street to webster square
Shrewsbury center - route 140 @ Main Street + Grafton Street
Center town
south street; center of town is terrible
Main Street Northborough
Mendon Hartford and Rte 140, Providence and Rte 16 Bellingham 495 and 126, Bellingham 140 and 126 Bellingham Center
Light on front st at union station
Downtown Northborough, too many streets intersecting in one small area.
Central street is plagued by semi trucks and tractor trailers. They are too big for the road and MUST cross the center line to drive down the road. There is a sharp turn I. The road on Central Street. The trucks must leave their own lane and blindly enter half of the lane of oncoming traffic. Tractor trailers have hit vehicles head on since the road was redone. The road is no longer safe.
davis st northborough
Cape Road and Route 140so many semis, road congestion
Downtown Northborough
Main St Northborough, downtown
The traffic coming from the Amazon facility through town is unsafe! Intersection of Rt 140 and Hartford ave in hopedale AND Rt 16/Hopedale St Hopedale
Hudson/Route 20 area Northboro
The center of town in Northborough.
Timing of lights needs to be fixed. Causes major backups that are unnecessary
Downtown Northborough
Westborough downtown Main street, South street, Milk street
West Main and Main downtown. The 4 traffic lights have never been
timed correctly since their installations in downtown Northboro!
Pleasant Street inbound is congested in the am and outbound in the pm rush hours
College Square Worcester
West Main St in Westboro
LA freeway
kelley square
Nonquit st at Lake ave
Rte 9 Boston Turnpike Shrewsbury;
Making left hand turns on Cambridge St. and Southbridge St.
With a very short walk light. Very Dangerous getting to church.
I have no idea

	Question 29 Responses
	146 Millbury
	Pleasant Street at Tatnuck Square and Salisbury and Parj Avenue intersection
E	Burncoat St eastbound between High School and Millbrook Worcester. Also, Burncoat Exit off 290 cars
	go across Burncoat from L hand turn only lane endangering middle lane cars also turning left lane
	Pleasant Street at Tatnuck Square and Salisbury and Parj Avenue intersection
	Almost anywhere on Rt. 9.
	Park Avenue
	Newton Square, Tatnuck Square
	Intersection of Highland St. becoming Belmont St, Worcester's Lincoln Square.
С	oming downhill on Highland, 2 lanes are now reserved for left turns onto Lincoln St. at the traffic light
-	causing the single land reserved for all other traffic to back up all the way up
	the hill and across the intersection of Highland and Harvard.
	Please return it to 2 lanes for through and right-turning traffic and only one for left-turning.
	Agatha street Worcester MA 01604
	Park avenue,worcester
	Highland Street—Doughtery HS
	Rte 135 at circle, westbough, where meets route 30
	Salisbury St & Park Ave intersection
	Lincoln st at Belmont
	West Boylston Worcester
	Plantation St going to Belmont st Worcester. Shrewsbury st to Belmont St. east to Shrewsbury Ma.
	Pleasant and Main. Park Ave from May to Salsbury st Highland at Lincoln st
	Grafton Street Worcester MA
	Leo's way dangerous to get out on Shrewsbury st
	Tstnuck Square
	Everywhere
	Billings Square rotary, it's terrible
	intersection of Stafford and James streets
	Tatnuck square
	Rt290, Worcester
	Flanders Rd westborough
	Vernon Street
	Grove street
	Main Street, Westborough
	Lincoln st Worcester
	Pleasant st from park Ave to Chandler 3:30 to 5: 30
	Rte. 290 westbound after 3 PM
	Fork in roads Salisbury and Forest
	Tatnuck Square Worcester MA
	I290, Park Ave., Worcester
	Washington Sq, some off ramps on Rte 290 & 190
	Lincoln Street, Worcester, MA

Question 29 Responses
Highland St Worcester
Main Street Gilbertville
Route 290 west bound in Worcester.
Stafford Street; think about removable speed humps
West Boylston Street
Pleasant Street flag Street Moreland Street Salisbury Street with all
the construction and traffic lights that don't seem to help
Lincoln street
None
Grafton St. and Massasoit Road in Worcester are extremely over-congested,
especially when schools are in session.
I wish that school drop-off could happen off of the main traffic areas,
as children and parents frequently walk alongside or into busy traffic.
Flagg street/Salisbury Street intersection in Worcester
Holden, Main St (122a)
290 Entering Worcester
Worcester- Park Ave intersection by Price Chopper and Elm Park
Holden St/Brattle St, Worcester between 5:30AM to 9:00AM
Mill/Chandler, Park Ave/Highland, Park Ave/Pleasant
Chandler Street intersection of Park Ave
rt 290, east and westbound, webster square, Lincoln Street, the peanut/Vernon Street
Chandler St. Worcester
Lyman and main street
Main Street Holden
North Street Bridge, Douglas
Downtown rotary
Highland st
Holden main Street
anywhere road/utility repairs are occurring
290 through Worcester
RT 16 through East Douglas
Past exit 17 on 290
West Man Street
Grafton Street and Pleasant St
Highland Street, Worcester, Park Ave., Worcester, Tatnuck Square,
Worcester, Salisbury Street, Worcester, Main Street,
Worcester, just about every major avenue in Worcester at some time during the day.
Kelly Square
Mill Street/Main Street/Cambridge Street/Webster Street intersection in Worcester
1060 Main street Worcester
Main
All

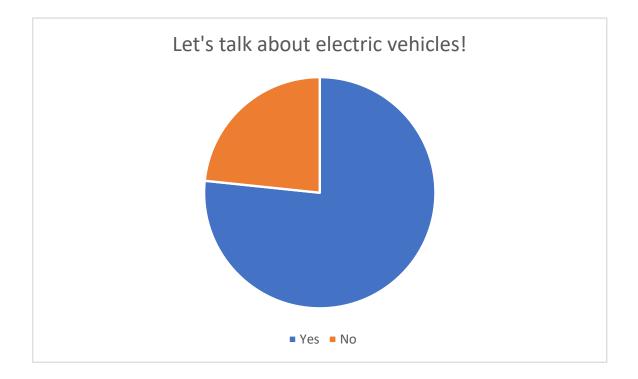
Question 29 Responses
not sure
Lincoln Street
Belmont Street
Left off the 395 off ramp exit 3 & Rt 16 and left put of cudworth at Rt. 16 - webster
Rt 495 and Rt 290 interchange
Hamilton st
The intersection of hook Street Central Street and Foster Street
Lincoln Street to Main/Grove
Sturbridge Route 20
Main and Summer, North Brookfield
?
Pleasant Street.
Not in Brookfield but taking the Mass pike into and out of Boston can be a nightmare
traffic light timing in Chandler, intersection at Lincoln and highland
Rotaries
cambridge street/southbridge street
Park Ave worcester
Holden Main street/122A - there should be a turn lane
Grafton street
Everywhere in Worcester Massachusetts
Kelly Square
Main Street oxford
122a/56 Rutland
Wachusett Regional High School has incredible traffic congestion for multiple hours a day
during the school year but due to increased population in the area,
the entire Route 122A from Holden through Rutland has multiple congestion
spots that add 15-30 minutes to daily trips depending on time of day
Spencer Route 9
Downtown.
Rt 290 Rt 140 Rt 190 into and out of Worcester rush hours
Holden, Main Street/122A - there should be a turn lane
Mass Pike, Route 20. You ask to be specific but it is to hard, It 20 should be revamped all the way to 146.
290. Not just rush hour or construction problems. Flow is not giid.
Tatnuck Sq
Knox Street at Webster St Worcester
Main st Worcester, Park Ave Worcester
Highland street
Barre Rd. near postoffice
Belmont and lincoln
Turning onto Lake Ave North from Plantation Street - left turn lane often backs up
considerably during peak travel times, as does traffic on Lake Ave North
Tatnuck Square. Widen the road back to what it used to be!

Question 29 Responses
Worcester courthouse. Costs 15 bucks just to park and drop off papers, worcedter court charges \$50 for efile,
so how are low income folks supposed to participate in any government at all? So we dont.
Webster square area.
cambridge street
Pleasant st in Worcester from Richmond to Chandler
146 and Vernon Hill
From the intersection of I 190 and I 290, down to Rt 20
Kelly sq, worcester, game day
rotary at Grafton/Hamilton Sts Worcester
I 290 in Worcester so often is slowed and backed up
webster square main to cambridge st
Intersection of Grafton and Hamilton Streets, Kelly Square, Water St. Chandler St (all the way from Downtown to WSU)
Salisbury Street, Worcester
Rte. 30 at Rte. 140 at Waterville St., Grafton
I-290
Rte. 30 at Rte. 140 at Waterville St., Grafton
Pleasant street

Question 30: Let's talk about electric vehicles!

¡Hablemos sobre los vehículos eléctricos!

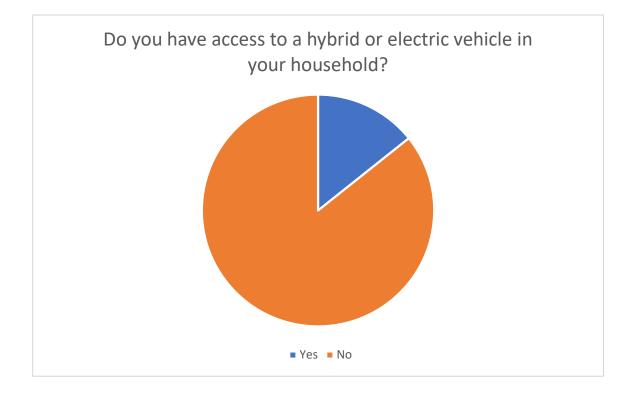
Response	# of Responses	Percentage %
Yes	174	76.65
No	53	23.35
Skipped	57	



Question 31: Do you have access to a hybrid or electric vehicle in your household?

¿Tiene acceso a un vehículo eléctrico o híbrido en su hogar?

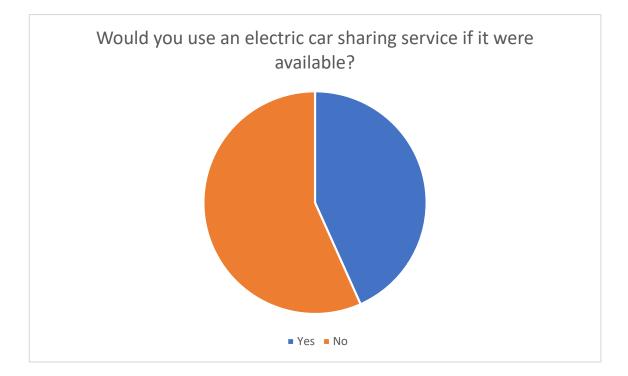
Response	# of Responses	Percentage %
Yes	32	14.29
No	192	85.71
Skipped	60	



Question 32: If an electric car sharing service were available in your town, would you use it?

Response	# of Responses	Percentage %
Yes	97	43.5
No	127	56.95
Skipped	61	

¿De estar disponible, utilizaría un servicio de vehículos eléctricos comunitarios?



Question 33: Please indicate a location where there should be an EV charging station.

Mencione un lugar donde se deba añadir infrastructura para recargar los vehículos eléctricos. Recomendamos una constestación específica y detallada.

Question 33 Responses
Malls and lots that are electrified and secure
In going to St Vincent's Hospital
Every "place" where a gas/oil/wood/coal station used to be
Polar Park
Stop and Shop on Grafton St
already available
highway garage
All neighborhoods in Mendon
Already plenty around
The bike path parking lot on central street
Northborough library
Center of town in northborough, Algonquin regional high school
All Gas stations
Ellsworth McAfee park Northboro
Intersection of Richmond St and Pleasant St
Worcester Road Webster (formerly location of KMart and Shaws)
Downtown (Main St.) Westboro
We have one at Perkins South Shopping Plaza. I do not see people using it.
Firehouse
I have no idea where one could be
Billy Pond Millbury off Ove West Main street
West side of Worcester
Unknown as I do not have one.
Greendale YMCA
parking lot by 9 Congress St. It's private but we'd be
willing to share with Neighborhood Association.
West side of Worcester
Any supper market
At every town parking lot and shopping center
Trolly yard plaza
Downtown
Private property Ovford Community Contor
Oxford Community Center White city
Write city Worcester state university
Sunderland road in Worcester
We'll lit parking lots
All supermarkets, Dr.'s, jobs, etc

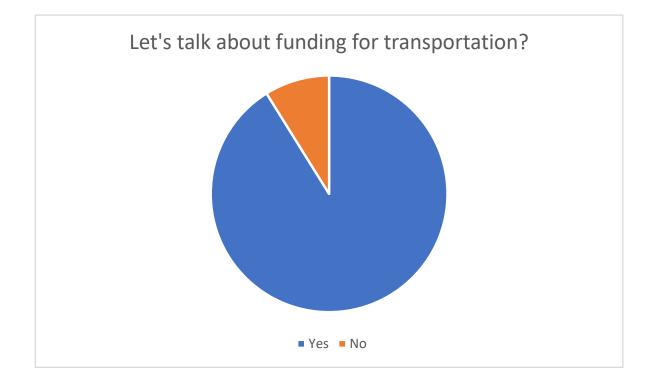
Question 33 Responses
every grocery store
City hall
Every gas station with more than 2 pumps.
Supermarket parking lots
Pleasant Street/park avenue
Electric vehicle drivers should have a CURRENT license!
For my convenience, at the Shaw's Market on West Boylston, St., Worcester
At strip malls in various parts of Worcester
Highland St Park Ave
everywhere!!!!!
Main South, Worcester, MA
Gilbertvill
Shore Park, Worcester
At every gas station
gas stations in general. Holden, MA the town lot behind the library and Big Y in Holden
Every gas station, grocery stores
Every supermarket
EV charging stations should be at all major intersections.
Lyman street -,down town
Everywhere
town hall, dudley
Nowhere, the infrastructure is not ready!
All gas stations, public buildings should be required to have an EV charging station
Unsure
Dudley Town Hall and Park and Shop Plaza, Shepherd Hill HS
A solar powered charging station should be peppered throughout the city
Grocery Stores
everywhere
Webster Square Plaza, Worcester & Tatnuck Square Plaza & Lincoln Square Plaza
City hall
Lincoln street
Worcester Public Library; Webster douglas forest trail head; Webster Municipal lots
and Memorial Park; Market Basket in Oxford; Worcester Green Hill Park;
Rt 495 and West Main St Hopkinton (price chopper)
Northboro munipal lot
I have no idea
Town lot
Saint Johns
Town Hall and High School
Main St and Summer, North Brookfield
by fire station
Downtown worcester

Question 33 Responses
Worcester x3
Everywhere. Would like one in the center of Brookfield (maybe the police station or fire department or near town hall) as I know people with EVs and they've had to park in other towns to charge.
public parking at Elm Park/worcester common/most public parks
Rutland Community Hall
In every neighborhood in Worcester Massachusetts
At every gas station
The center of Rutland, at the library represents a natural spot for people in the more rural towns to pickup and drop off an EV for daily needs
North Brookfield
All shopping centers with gas stations. Walmart Millbury, Lincoln Plaza
Rutland Community Hall
Spencer center
Park Ave worcester
All sides of the city for easy access
Everywhere
don't. The wealthy suburbs. Regular people can't afford those things, not with local housing costs
near merging highways
Senior Center?
Tatnuck SQ shopping plaza lot in Worcester
Public Parking locations, grocery stores
Every parking lot, every public building
University Park
in absolutely every town and throughout the City of Worcester
Realistically, all over the city
i've seen enough ev stations
Library branches
Skipped: 167

Question 34: Let's talk about funding for transportation!

Response	# of Responses	Percentage %
Yes	185	91.13
No	18	8.87
Skipped	167	

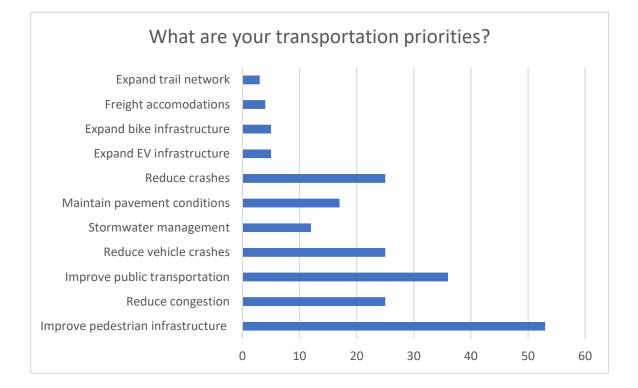




Question 35: Before discussing funds, we need to know your transportation priorities. Please rank each of the following options from one to ten with one being your priority.

Antes de hablar sobre el financiamiento a la infrastructura de transporte, necesitamos conocer sus prioridades. Ennumere las siguientes opciones del 1 al 10 en orden de prioridad. Seleccione 1 para su mayor prioridad y 10 para la prioridad más baja.

#1 Priority	# of Responses	Percentage %
Pedestrian infrastructure	53	31.18
Stormwater management	12	7.14
Reduce traffic congestion	25	14.45
Transit services	36	20.69
Maintain pavement	17	9.83
Reduce vehicle crashes	25	14.45
Expand EV infrastructure	5	2.86
Bike infrastructure	6	2.92
Freight infrastructure	4	2.29
Expand trail network	3	1.73
Skipped	98	



Question 36: How would you distribute the transportation funds available in the region?

Priority	10% of Funds	20% of Funds	30% of Funds	40% of Funds	50% of Funds
Roadway maintenance	44/25.58%	52/30.23%	28/16.28%	20/11.63%	28/16.28%
Public transportation	38/23.03%	47/28.48%	26/15.76%	18/10.91%	36/21.82%
Pedestrian infrastructure	50/30.49%	66/40.24%	26/15.85%	7/4.27%	15/9.15%
Bicycle infrastructure	84/64.62%	19/14.62%	12/9.23%	5/3.85%	10/7.69%
Reduce congestion	61/47.29%	27/20.93%	15/11.63%	10/7.75%	16/12.4%
Traffic safety	50/31.85%	57/36.31%	19/12.10%	9/5.73%	22/14.01%
Trail network	81/68.07%	19/15.97%	11/9.24%	3/2.52%	5/4.2%
Freight facilities	69/76.67%	10/11.11%	6/6.67%	3/3.33%	2/2.22%
Culvert replacements	72/67.92%	16/15.09%	14/13.21%	1/0.94%	3/2.83%
EV charging stations	82/71.3%	13/11.30%	9/7.83%	4/3.48%	7/6.09%
Skipped	85				

¿Cómo distriburía los fondos disponibles para transportación en la región?

Priority	Total Weight
Roadway maintenance	2.63
Public transportation	2.8
Pedestrian	2.21
infrastructure	2.21
Bicycle infrastructure	1.75
Reduce congestion	2.17
Traffic safety	2.34
Trail network	1.59
Freight facilities	1.43
Culvert replacements	1.56
EV charging stations	1.62

Question 36 Comments		
Resume "elevated rails" (2 way) in every town/city/state;		
connect planes, trains, buses; would save money and connect many people		
NO freight facilitiestoo congested now		
Pay cyclists		
That was difficult to prioritize and stay within the 100 percent goal		
Access to more frequent reliable transportation for disabled		
Seriously?!		
Don't know		
I suggest a bypass lane for trucks around the bridge on Cambridge St. and		
Hammond St. his would require minimal changes to preexisting roadways.		
You could charge an additional toll		

2050 CONNECTIONS TECHNICAL APPENDIX

Question 36 Comments

I think that many of these goals are interrelated; for example, improving pedestrian and bicycle conditions will relate closely to traffic safety and reducing congestion.

Traffic safety/ freight facilities/ bicycle infrastructure/ reduce congestion 5%

This question asks not to exceed 100 but offers 10 expected responses,

all of which have a minimum of 10% if we want to keep it under 100%

freight 5% and culvert 5%

N/A

this person also put traffic safety and culvert replacements at 40%, reduce congestion, freight facilities and EV charging at 30% and bike infrastructure and trail network at 20%

they also marked EV charging stations as 50% and all others as 30%

Charging stations should be added by private enterprise.

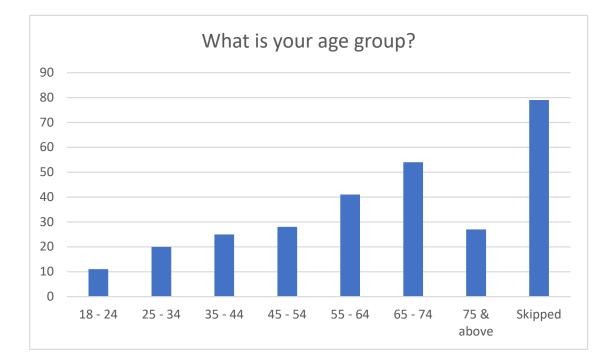
If road maintenance and reduced congestion solutions are pursued safety to should also

increase.

Question 37: What is your age group?

Indique su grupo de edad.

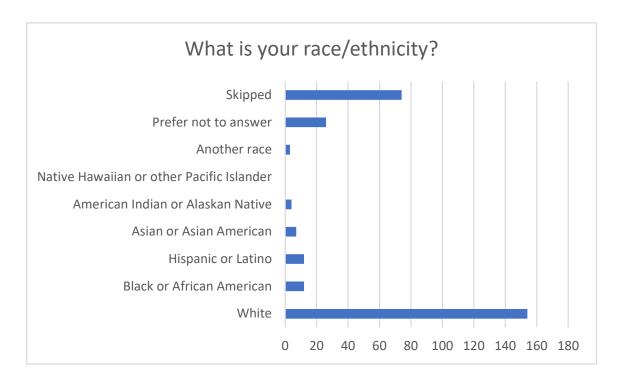
Age Group	# of Responses	Percentage %
18 - 24	11	5.37
25 - 34	20	9.76
35 - 44	25	12.2
45 - 54	28	13.66
55 - 64	41	20
65 - 74	54	26.34
75 & older	27	13.17
Skipped	79	



Question 38: What is your race/ethnicity?

Indique su raza/etnia.

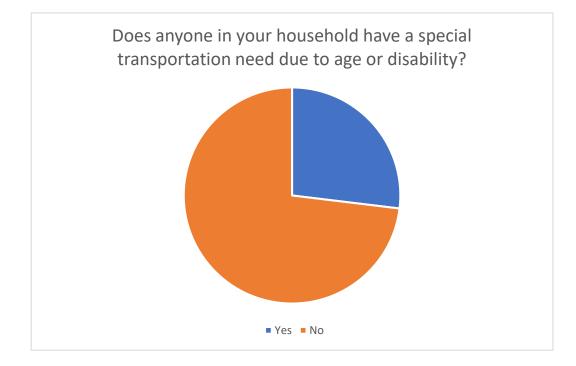
Race or Ethnicity	# of Responses	Percentage %
Prefer not to answer	26	12.38
Other race/ethnicity	3	1.43
Native Hawaiian or other Pacific Islander	0	0
American Indian or Alaskan Native	4	1.9
Asian or Asian American	7	3.33
Hispanic or Latino	12	5.71
Black or African American	12	5.71
White	154	73.33
Skipped	74	



Question 39: Does anyone in your household have a special transportation need due to age or disability?

¿En su hogar, hay alguna persona que tenga una necesidad especial de transportación debido a la edad o discapacidad?

Response	# of Responses	Percentage %
Yes	56	26.92
No	152	73.08
Skipped	76	



Question 40: If you would like more information about 2050 Connection, please leave your email address.

Si desea recibir más información sobre el plan de transportación 2050 Connections por favor escriba su dirección de correo electrónico en el espacio que se provee abajo.

Question 40 Responses 58 people left their emails Question 41: Do you have any final remarks about 2050 Connections, this survey, or transportation in the region?

Puede utilizar el espacio que se provee a continuación para incluir cualquier comentario final que quiera compartir con nosotros.

Question 41 Responses
Regarding question #35: trash is on every culvert;
to mitigate congestion, create elevated rail network (2 way)
across north america; elevated rails could also eliminate need for individual vehicles
timely pick-ups and drop-offs
We are drowning in warehouses existing, to be built and proposed.
Impacts have to move from a town by town assessment to a regional assessment.
The center of Shrewsbury has gone from pedestrian infrastructure friendly to war zone.
With the increase of traffic - truck and regular - (UPS and Boylston facility)
going to the library is a challenge. Not to mention emergency vehicles
trying to get through. Children walk from the
Middle School at a high traffic time to stores and library.
It's only a matter of time before there's a tragedy.
I need the buses to come on time they have a lack of drivers in the
wrta and that means missing appointments or rescheduleing them.
I can't drive so I really depend on the bus.
Millville needs significant support and funding for road repairs and
storm water management. We have no public transportation.
We need to have accessible public transport to and from Boston and Providence.
Franklin is the nearest train station and the lot is always full.
We have land and room for access to the train line,
but we need a train station either in Millville or uxbridge.
The amount of distribution center traffic and safety issues in the area is disastrous
Make the Northborough Amazon drivers follow the rules! No driving through town!
The town of Northboro is failing in all of its transportation categories.
It needs a full assessment bypassing the town administrator and his staff.
Presently, It is a race to the bottom !
I support a wide railway transportation system across Massachusetts.
I would readily use train service from Webster to Boston.
I would gladly use public transportation if there was a bus stop closer to my home.
I have to walk 15 to 20 minutes to get to a stop.
Hurry up.Make it quick.
Nonquit st is a very busy street on the north side abutting the state/city property.
Not maintained for all the trees that need to be trimmed that are very big
and overhang the street which has plenty traffic as a cross st from
Coburn Ave to Lake Avenue. School, business ,Private Autos are not controlled
even tho' we have about 13 children on it, a blind man, and walkers,
strollers with babies all on this VERY busy street. At corner of Lake ave it is a
blind entrance to Lake ave and property to Skating Rink and
across street to State Park which also has traffic with football and track and beach
and joggers on walk path and picnic tables. Plus construction equipment also stored on street.
Please help and improve this would be quiet street with sooooo many issues. Thank you

2050 CONNECTIONS TECHNICAL APPENDIX

Question 41 Responses
The City does a remarkable job handling snow events. They should be commended.
Gas prices are to high.
Maintenance of all Worcester streets and sidewalks should be a main priority.
Actually, I think Worcester does fairly well on this. Congestion on 290 has gotten difficult,
but there is not much the city can do about that.
It's far less than many other communities. I think the Kelly Square peanut is an improvement.
I was stuck taking the bus a year ago and I found it to be pretty good.
The buses were never over crowded and often had very few passengers.
I think the WRTA should do a study to determine when they could send a smaller bus on a given route.
I work with blind and low-vision individuals, and unreliable public transportation
hinders participation and connection for my patrons.
It is essential to improve pedestrian conditions and public transit options
for folks who cannot drive due to a disability.
Central MA is a wonderful place to live,
but it is far too dependent on cars to get around and this excludes
many from participating fully in daily activities.
Getting around central mass any other way than by car is challenging. This is a policy failure.
Worcester as the second largest city in New England can and should do better!
There needs to a lot be more secure bike racks in the city in shopping areas and other areas.
The priority ranking and % of funding questions are difficulty to answer meaningfully in the abstract,
especially for those not versed in the costs of such things.
for question 14, all of the above. also, transportation is a lifeline
There should be a raffle prize associated with this survey to make it's long nature less onerous
I appreciate the chance to voice my opinions on these matters
please add bike sharing service in worcester
Not in my home but my Father has a disability
Free buses help the community get around there town
I have no idea what zero vision is and I hope Bill Gates and
or World Economic Forum is not connected to this as
#ichangetheworld I VodounVi Dzifah
It's not an easy task to try to manage the needs of all the Central Mass communities with the limited
funds
that will be available but there are a few communities, Rutland & Holden
specifically that are gateways to many areas that will continue to grow over
the next few decades and will need this infrastructure even if they haven't had a large need for it in the
past.
If I can use more than 1 answer let me check more than 1 thing.
If you ask about discussing a topic and I check "no" don't ask me about it.
Not to be cynical but why does east west traffic (mass pike) pay for north south (ex. 128,93)?
I travel to many other states (we camp) and I noticed that they seem
to do a lot more to expand and improve their roads, especially the toll roads
Maintenence is a must.
fix the pot holes
The question about allocating resources w/ percentages was ridiculous.
10 resources and you're asked not to exceed 100% so it's impossible to put anything above 10%.
Massachusetts needs to pass a law for Regional Funding Initiatives

Question 41 Responses			
A lot of places in the city are blocked by trains, highways, even large businesses with fences around			
them.			
This makes it difficult to get to places that are actually close together.			
We need more busses, more frequent, more places, more hours.			
It is unlikely that drivers will switch to busses.			
What should be done is convince current riders that they can live with busses			
and not use all their savings for a future car. Rents and prices are getting out of control,			
and it is harder and harder to find a place to live near a frequent bus.			
This survey is too long!			
glad you are looking at this			
get rid of 290!!! it has fragmented and ruined our city. neighborhoods need to be more connected and			
walkable.			
1/3 of worcester residents don't own cars yet we're reduced to infrequent bus stops.			
(i appreciate the free fare but not reliable for someone with a job i need to be on time for)			
i'm sick of cars everywhere and speeding. no enforcement of traffic laws			
enabled dangerous and deadly drivers who CONTINUE to drive.			

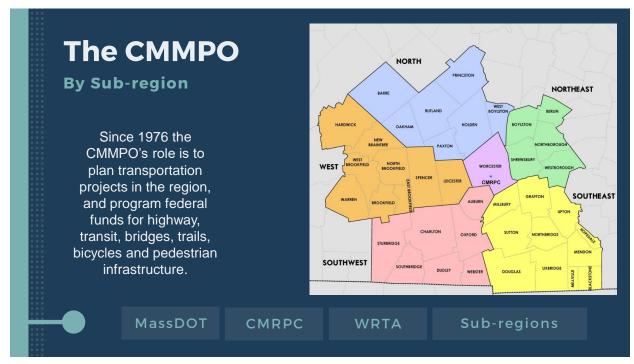
Presentations

THE CMMPO LONG RANGE TRANSPORTATION PLAN



2050 CONNECTIONS

IMAGINE A REGION CONNECTED



2050



Connections

The region's long-range transportation plan

What is the purpose of the LRTP?

The purpose of the LRTP is to identify the multi-modal transportation needs and priorities of the southern central Massachusetts region.

MPO's must create a plan every four years.

The span of 2050 Connections covers 25 years.









Group Discussion

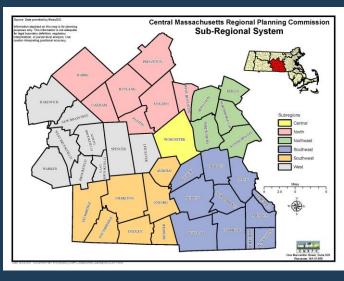
- What is the most pressing ISSUE / CHALLENGE related to transportation today?
- Do you have a transportation project, service or study you would like to pursue if the financial resources become available?
- Do you know any best practice or example that we should look at / explore for our region?
- What is your Transportation BIG idea?

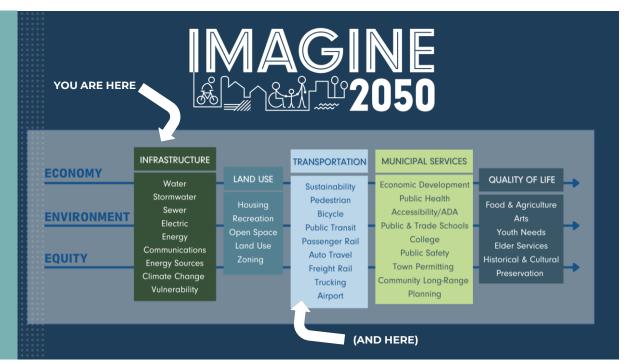


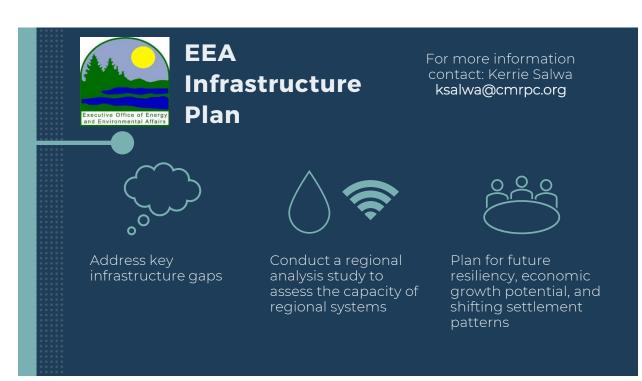




Central Massachusetts Regional Planning Commission







2050 Connections

The region's long-range transportation plan



What is the purpose of the LRTP?

The purpose of the LRTP is to identify the multi-modal transportation needs and priorities of the southern central Massachusetts region.

MPO's must create a plan every four years.

The span of 2050 Connections covers 25 years.

HOW THE LRTP IS DEVELOPED?



PLANNING

Many factors are taken into consideration: Management Systems Performance Measures Land Use Economic Development



PARTICIPANTS

Public-at-large Planners and Town Officials Interest Groups Organizations MassDOT, FHWA, FTA



IMPLEMENTATION

Future work related to the studies, initiatives and projects identified in the plan within the region's financial constraints.

THE PROCESS

PUBLIC OUTREACH

Approach, methods and tools used to engage the public

PERFORMANCE MANAGEMENT

Presentation of national and regional goals and their relationship with Federal and regional metrics

EQUITY CONSIDERATIONS

Geographic equity and the region's demographic characteristics

FEDERAL, STATE & COMMUNITY

BIL, Beyond Mobility, Master Plans and locally identified priorities

PROJECTIONS



POPULATION PROJECTIONS



EMPLOYMENT PROJECTIONS



FUTURE GROWTH

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Safety

- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)

Top Crash Locations among the Top 200 Statewide (2017-2019)

Charlton: Stafford Street / Center Depot Road

Top Crash Location for bridge strikes (30) Westborough: West Main Street

Top Pedestrian & Top Bicycle Crash Clusters Worcester: Main Street / Chandler Street



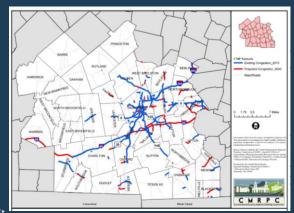
MassDOT Online Crash Portal: https://apps.impact.dot.state.ma.us/cdp/dashboard-view/26

Congestion

- Congestion Management Process (CMP)
- Data collection: travel time and delays
- List of critical intersections
- Park –N Ride database and utilization rate
- Transit on-time performance
- Travel Demand Model
 - to identify bottlenecks in the region
 - to project future congested locations

TOP 5 CRITICAL INTERSECTIONS (DELAYS)

#1 Millbury – Route 122 / Mass Pike
#2 Worcester – Foster St / Francis J. McGrath/Franklin St / Green St
#3 Shrewsbury – Route 140 / Main Street
#4 Westborough – Route 9 / Lyman Street (FYI - this ranking was before the TIP improvement project, the analysis after improvements is not yet completed)
#5 Auburn – Route 12 / Swanson Rd / Brotherton Way



13

Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

Westborough: Parking Study (2019) Shrewsbury: Sidewalk Plan (2022) Douglas: Traffic Signal Warrant Analysis (2022) Shrewsbury: MA-140 Corridor Profile Study Berlin: MA-62 Corridor Profile Study

Poor (Orange) and Very Poor (Red) Pavement Condition



Resiliency

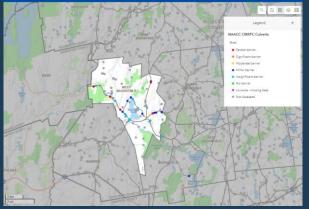
- Climate change means more heavy rain downpours and flash flooding
- More than 5 thousand culverts in the region
- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

Berlin: Double culvert at Randall Road and West St. **Westborough:** Bowman Lane culvert replacement in design

Sutton: Two culverts with significant barrier status **Upton**: Culvert Replacement Milford St. (2026 TIP over \$1M

West Brookfield: Stream Crossing Assessments

West Brookfield Stream Crossing Assessments Results

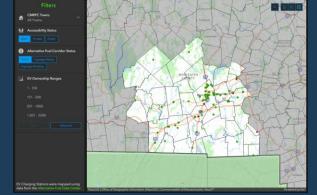


Decarbonization

- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- New type of infrastructure
 - Total of 142 charging station in the CMRPC region
 - Locations were charging stations are needed.
- Online EV charging station dashboard

Most of the communities have one or more charging stations.

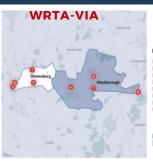
Major concerns related to the capacity of the grid to sustain the future demand in peak hours.



Emerging Technologies

Technology has changed the way we interact with transportation.

Transportation planning has been experiencing a transition from an auto-centric approach to a human-centered transportation network.



Popular destinations: Shrewsbury Town Hall White City Shopping Plaza Shrewsbury Crossing Westborough META Station Westborough Shopping Cente Bay State Commons Southborough META Station Lakewar Commons

Original Zone Expanded Zon





Example of a Mobility Hub



Mobility Hubs are the transfer stations of the future. They combine access to transit, micromobility, carsharing and bike-sharing services, EV charging stations, kiosks with real time information, wayfinding information, among other amenities. Perfect scale for community Transit Oriented Development (TOD).

17

2023-2027 TIP

North	Southwest
5 Projects	18 Projects
\$26,439,417 M	\$188,015,744 M
Northeast	Southeast
2 Projects	15 Projects
\$22,202,113 M	\$87,202,755 M
West	Central
7 Projects	8 Projects
\$42,702,954 M	\$66,976,803 M
\$42,702,954 M	\$66,976,803 M

- A total of 143 TIP projects, advertised and programmed, between 2012 and 2027, 96 projects located in EJ areas.
- From 2012 to 2027, there are 11 communities that had no target projects, 8 communities with no statewide projects, and 3 communities had neither target nor statewide projects.
- The Northeast Subregion had the fewest number of target projects with a total of 3.
- Federal-aid target funds programmed by the CMMPO since 2012: Over \$290 M
- Statewide funds applied to the region since 2012: \$582 M (aprox)

Funds Awarded in the Region

Complete Streets

20 Communities with approved/completed projects

Investment of \$6.5M since 2018

Shared Streets 25 communities 47 projects funded

Investment of \$5.2M since 2019

DER's Culvert

7 active projects 2 projects using ARPA funds

MassTrails

CMRPC & 8 communities 17 projects funded

Investment of \$1.8M since 2019

MassWorks

10 Communities 12 Projects

Investment of \$19.6M since 2018

Green Communities

Awarded \$3.4M 20 communities 2021 & 2022

19



REGIONAL SUMMITS

6 subregions 24 of towns represented 48 of Town's representatives Individual conversations with Worcester, Uxbridge, Boylston Rutland (scheduled for Nov. 1)



Jamboard Session

Open Mic Discussion

- 1) What is the most pressing ISSUE or CHALLENGE related to transportation today?
- 2) Do you have a transportation project, service or study that you would like to pursue if the financial resources become available?
- 3) What is your Transportation BIG Idea?

Funding Opportunities

BIL

National Electric Vehicle Infrastructure PROTECT (Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation Program) Safe Streets for All Reconnecting Communities Rural Surface Transportation Grant Program Charging and Fueling Infrastructure Grants Congestion Relief Program National Culvert Removal, Replacement, and Restoration Grants Advanced Transportation Technologies and Innovative Mobility Deployment

For more information: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/grant_programs.cfm

MA Funding Opportunities

MassDOT

Complete Streets Program Shared Streets and Spaces Local Bottleneck Reduction Program Community Transit Program

MassDEP

Mass EVIP: Fleet electrification DC Fast Charging: EV charging stations for public use Multi-unit Dwelling & Educational Campus Charging Workplace & Fleet Charging (workplaces with

at least 15 employees on site)

MA DCR MassTrails

Massachusetts Clean Energy Center Accelerating Clean Transportation for All (ACT 4 All)

Executive Office of Public Safety and Security Municipal Road Safety Grant Program – available to municipal Police Departments State Agency Traffic Safety Grant – to reduce crashes, injuries and fatalities Car Seat Distribution Program

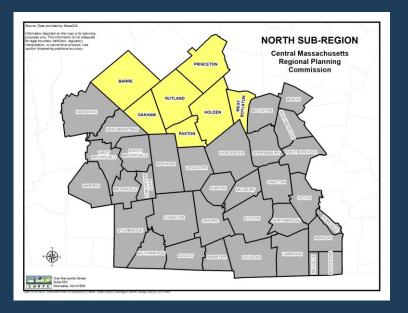






North Subregion

Barre Holden Oakham Paxton Princeton Rutland West Boylston



Walkability

CMRPC Regional Pedestrian Plan Mass Central Rail Trail Neighborhood Safe Assessment in Holden

CMRPC Dashboard

Culverts Electric Vehicle Charging Stations Pavement Condition Sidewalk Condition

Transit

WRTA Fixed-route WRTA Community Shuttles COAs Van Operations

Bicycle

CMRPC Regional Bicycle Plan Bicycle Compatibility Index CMRPC Bike Sharing Study

2023- 2027 TIP Projects

5 projects programmed, \$26.4M Corridor Profile Studies

Complete Streets

3 approved projects 3 approved prioritization plan

3

Safety

Past Planning

Efforts

Subregion

North

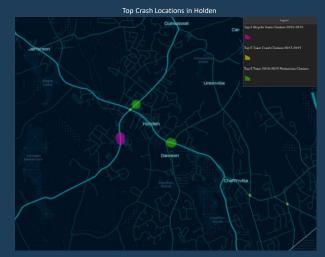
- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)
- We work closely with communities to identify and address safety issues.

Pedestrian Crash Clusters

Holden: Highland Street Holden: Main Street / Malden Street Rutland: Main Street / Maple Avenue

Bicycle Crash Clusters

Holden: Reservoir Street (MA-31)



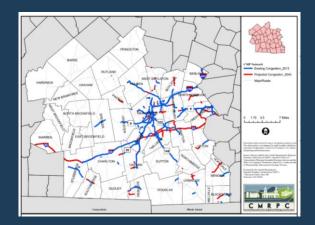
MassDOT Online Crash Portal: https://apps.impact.dot.state.ma.us/cdp/dashboard-view/26

Congestion

- Congestion Management Process (CMP)
- Data collection: travel time and delays
- List of critical intersections
- Park N Ride database and utilization rate
- Transit on-time performance
- Travel Demand Model
 - to identify bottlenecks in the region
 - to project future congested locations

Among the Top intersections with significant peak hour delay in the CMRPC region:

#15 Holden – Shrewsbury St / Doyle Road / Mount View Drive



Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

West Boylston – Route 140 Corridor Profile (2018) Highway Freight Accommodation Study Poor (Orange) and Very Poor (Red) Pavement Condition

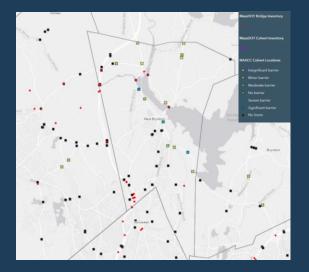


Resiliency

- Climate change means more heavy rain downpours and flash flooding
- More than 5 thousand culverts in the region
- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

Majority of the culverts in the North sub-region have not been assessed.

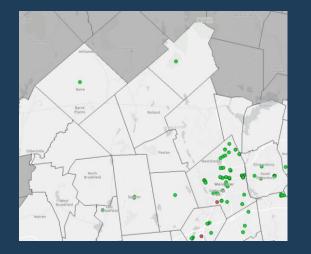
West Boylston: Two culverts with severe barrier status (teal) and one with significant barrier status (blue)



Decarbonization

- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- New type of infrastructure
 - Total of 164 charging station in the CMRPC region
 - Locations were charging stations are needed.
- Online EV charging station dashboard

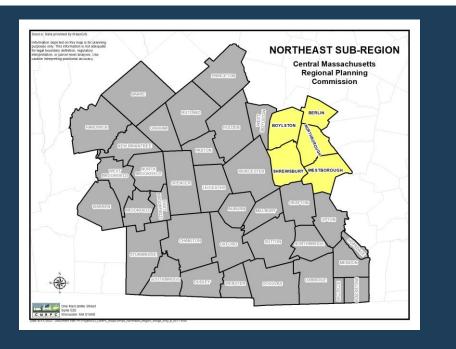
Among all the CMRPC region, the North subregion, has the least amount of charging stations.





Northeast Subregion

Berlin Boylston Northborough Shrewsbury Westborough



Walkability

CMRPC Regional Pedestrian Plan Shrewsbury Sidewalk Plan Northborough Bartlett Street Walk Audit

CMRPC Dashboard

Culverts Electric Vehicle Charging Stations Pavement Condition Sidewalk Condition

Transit

MBTA Commuter Rail VIA WRTA On-Demand WRTA Fixed-route COAs Van Operations

Bicycle

CMRPC Regional Bicycle Plan Bicycle Compatibility Index CMRPC Bike Sharing Study

2023- 2027 TIP Projects

2 Projects in Shrewsbury

Complete Streets

3 approved prioritization plan 1 approved policy

3

Safety

Past Planning

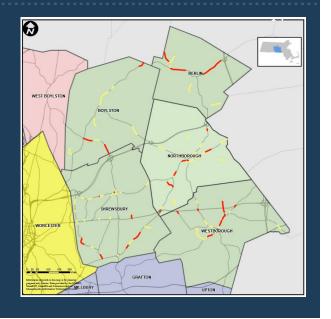
Efforts

Northeast

Subregion

- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)
- We work closely with communities to identify and address safety issues.

Several crash locations within the Top 5% (red on the map to the right) Westborough: West Main Street – Top Crash Location for bridge strikes (30) Northborough: Bartlett Street Post Occupancy Study & Walk Audit



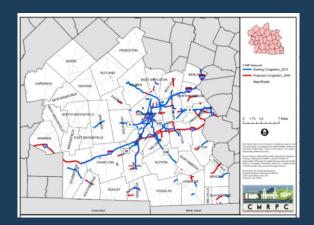
Congestion

- Congestion Management Process (CMP)
- Data collection: travel time and delays
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- Travel Demand Model
 - to identify bottlenecks in the region
 - to project future congested locations

Among the Top 10 intersections with significant peak hour delay in the CMRPC region:

#3 Shrewsbury - Route 140 / Main Street

#4 Westborough – Route 9 / Lyman Street (FYI - this ranking was before the TIP improvement project, the analysis after improvements is not yet completed)



Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

Westborough Parking Study (2019) Shrewsbury Sidewalk Plan (2022) Shrewsbury MA-140 Corridor Profile Study Berlin MA-62 Corridor Profile Study

Poor (Orange) and Very Poor (Red) Pavement Condition

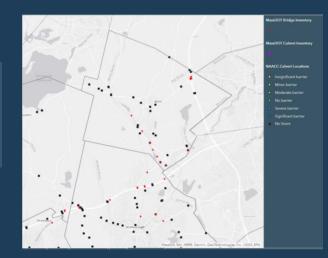


Resiliency

- Climate change means more heavy rain downpours and flash flooding
- More than 5 thousand culverts in the region
- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

Majority of the culverts in the Southeast subregion have not been assessed. Berlin: Double culvert at Randall Road and West Street Westborough: Bowman Lane culvert

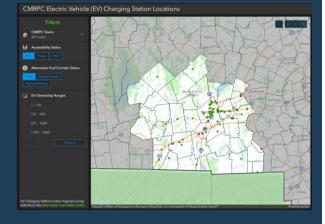
replacement in design



Decarbonization

- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- New type of infrastructure
 - Total of 142 charging station in the CMRPC region
 - Locations were charging stations are needed.
- Online EV charging station dashboard

In the Northeast subregion, except for Boylston and Berlin, all the communities have one or more charging stations, particularly along the Route 9 corridor.

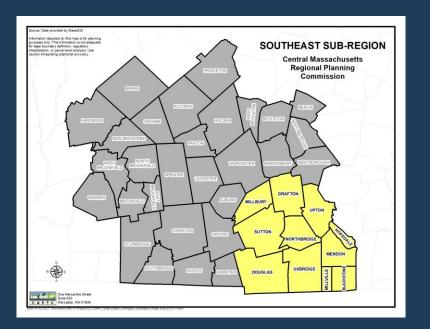


7



Southeast Subregion

Blackstone Grafton Douglas Millbury Uxbridge Sutton Millville Hopedale Upton Northbridge Mendon



Walkability

CMRPC Regional Pedestrian Plan Blackstone Valley Corridor Southern New England Trunkline Trail (SNETT)

CMRPC Dashboard

Culverts Electric Vehicle Charging Stations Pavement Condition Sidewalk Condition

Transit

MBTA Commuter Rail WRTA Fixed-route COAs Van Operations

Bicycle

CMRPC Regional Bicycle Plan Bicycle Compatibility Index CMRPC Bike Sharing Study

2023- 2027 TIP Projects

15 projects programmed, \$87M Corridor Profile Studies

Complete Streets

6 approved projects 3 approved prioritization plan 1 approved policy

3

Safety

Past Planning

Efforts

Southeast

Subregion

- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)
- We work closely with communities to identify and address safety issues.

Several crash cluster locations Northbridge: MA-122 / Church Street Northbridge: Providence Road / Sutton Street Uxbridge: MA-16 / Main Street Douglas: MA-16 / Main Street Blackstone: Summer Street / Blackstone Street Millville: Central Street / Bow Street



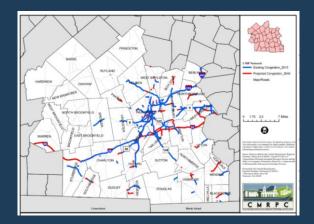
MassDOT Online Crash Portal: https://apps.impact.dot.state.ma.us/cdp/dashboard-view/26

Congestion

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- List of critical intersections
- Park N Ride database and utilization rate
- Transit on-time performance
- Travel Demand Model
 - to identify bottlenecks in the region
 - to project future congested locations

Among the Top 10 intersections with significant peak hour delay in the CMRPC region:

#1 Millbury – Route 122 / Mass Pike **#7 Mendon** – Route 140 / Hartford Avenue **#8 Millbury** – Main Street / McCracken Road / Route 146 SB Ramp / Shoppes

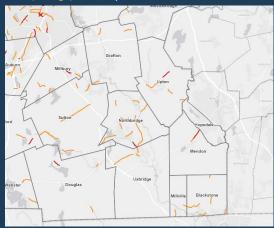


Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

Sutton – Traffic Study Sutton/Oxford – Central Turnpike Corridor Profile Study Douglas – Traffic Signal Warrant Analysis

Poor (Orange) and Very Poor (Red) Pavement Condition



5

Resiliency

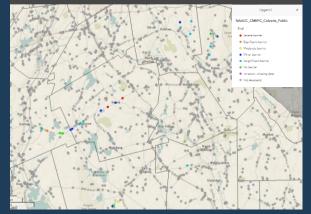
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- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

Majority of the culverts in the Southeast subregion have not been assessed.

Sutton: Two culverts with significant barrier status

Upton: Culvert Replacement Milford St. (2026 TIP0 over \$1M

CMRPC CULVERTS



Decarbonization

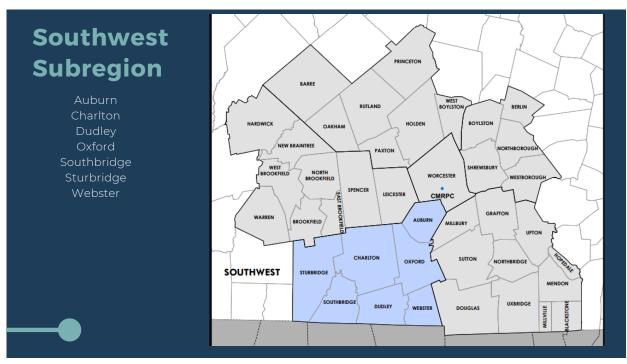
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 - Total of 164 charging station in the CMRPC region
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In the Southeast subregion, only few communities have one or more charging stations.



7





Walkability

Regional Pedestrian Plan Southbridge- Walkable Community Workshop

CMRPC Dashboard

Culverts Electric Vehicle Charging Stations Pavement Condition Sidewalk Condition

Bikability

Regional Bicycle Plan Bicycle Compatibility Index Bike Sharing Study

2023- 2027 TIP Projects

16 Projects Completed

Complete Streets

5 approved project 1 approved prioritization plan 1 approved policy

Past Planning Efforts Southwest Subregion

Safety

- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)
- We work closely with communities to identify and address safety issues.

Top 5% Crash Locations (2017-2019)

Charlton (277 EPDO): Stafford Street / Center Depot Road (Top 200 at the State level) Sturbridge (239 EPDO): Route 49 / Putnam Road Sturbridge (193 EPDO): Charlton Road / US20 Charlton (192 EPDO): Worcester Road (US20) / Brookfield Road (MA-31) Charlton (189 EPDO): Worcester Road (US20) / Southbridge Road Auburn (187 EPDO): Washington Street (US20) / Millbury Street

Top 5% Pedestrian Crash Locations (2010-2019)

Southbridge (151 EPDO): Main Street (MA-131) / Central Street Charlton (64 EPDO): Worcester Road (US20) / Stafford Street Oxford (63 EPDO): Main Street (MA-12) / Charlton Street Oxford (63 EPDO): Main Street (MA-12) / Fairlawn Avenue

Top 5% Bicycle Crash Locations (2010-2019)

Southbridge (64 EPDO): Main Street (MA-131) / West Street Webster (63 EPDO): East Main Street (MA-12) / Slater Street

*EPDO refers to Equivalent Property Damage Only. It is a method defined in the ASHTO Highway Safety Manual that "assigns weighting factors to crashes by severity to develop a combined frequency and severity score per site." The EPDO is calculated by MassDOT.

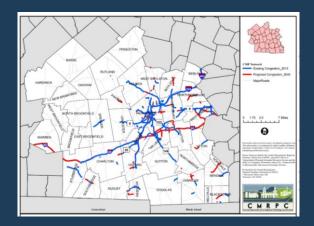
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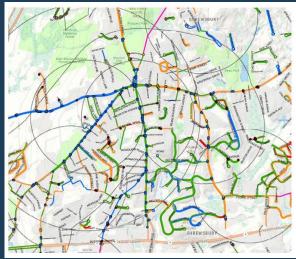
#5 Auburn - intersection MA-12 /Swanson Road / Brotherton Way

#9 Webster - intersection of I-395 NB ramps / Route 16 / Sutton Road (#9). A new intersection design is in development for Webster.



Asset Managemen<u>t</u>

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard



5

Resiliency

- Climate change means more heavy rain downpours and flash flooding
- More than 5 thousand culverts in the region
- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

Failure of an undersize culvert in Oxford (2021)

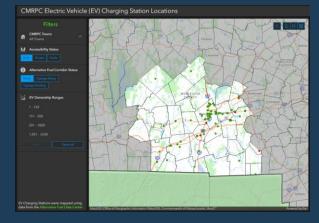


7

Decarbonization

- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- New type of infrastructure
 - Total of 142 charging station in the CMRPC region
 - Locations were charging stations are needed.
- Online EV charging station dashboard

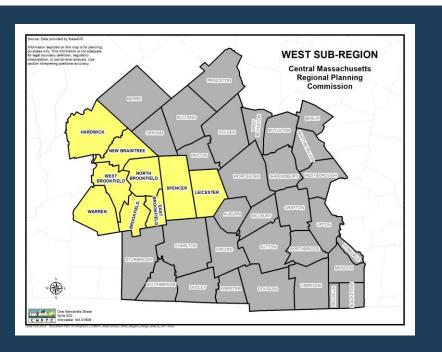
In the Southwest subregion, except for Dudley, all the communities have one or more charging stations.



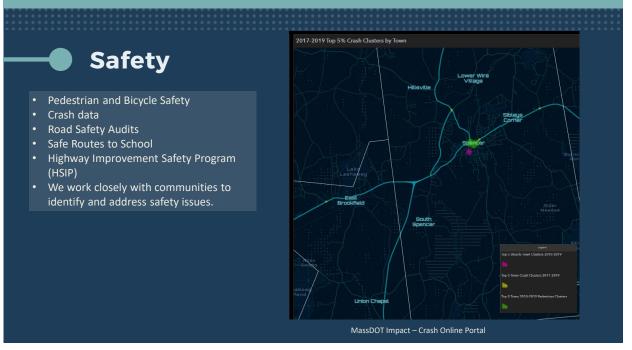


West Subregion

Hardwick Warren New Braintree North Brookfield Leicester East Brookfield Spencer Brookfield West Brookfield



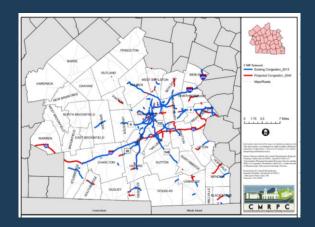




Congestion

- Congestion Management Process (CMP)
- Data collection: travel time and delays
- List of critical intersections
- Park N Ride database and utilization rate
- Transit on-time performance
- Travel Demand Model
 - to identify bottlenecks in the region
 - to project future congested locations

Spencer and Leicester are experiencing delays at major intersections with MA-9.

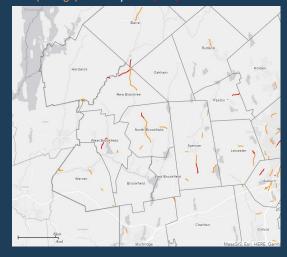


Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

Asset management data can support Complete Streets Prioritization Plans.

Poor (Orange) and Very Poor (Red) Pavement Condition

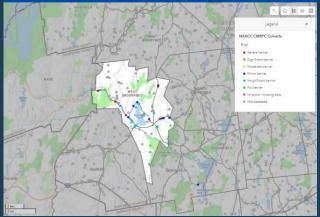


Resiliency

- Climate change means more heavy rain downpours and flash flooding
- More than 5 thousand culverts in the region
- Culvert Assessments to identify degree of barrier to waterways
- Integral piece of roadway infrastructure
- Online culvert dashboard

West Brookfield Stream Crossing Assessments Several culverts with severe barriers to aquatic connectivity.

West Brookfield Stream Crossing Assessments Results



7

Decarbonization

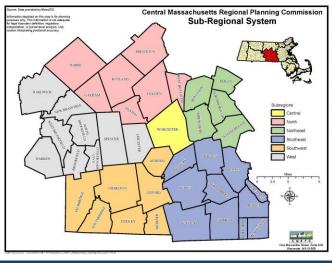
- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- New type of infrastructure
 - Total of 142 charging station in the CMRPC region
 - Locations were charging stations are needed.
- Online EV charging station dashboard

In the West subregion, there are very few locations with EV charging stations, particularly along the Route 9 corridor and public facilities.













2050 Connections

The region's long-range transportation plan



What is the purpose of the LRTP?

The purpose of the LRTP is to identify the multi-modal transportation needs and priorities of the southern central Massachusetts region.

MPO's must create a plan every four years.

The span of 2050 Connections covers 25 years.

HOW THE LRTP IS DEVELOPED?





PLANNING

Many factors are taken into consideration: Management Systems Performance Measures Land Use Economic Development



PARTICIPANTS

Public-at-large Planners and Town Officials Interest Groups Organizations MassDOT, FHWA, FTA



IMPLEMENTATION

Future work related to the studies, initiatives and projects identified in the plan within the region's financial constraints.

THE PROCESS

PUBLIC OUTREACH

Approach, methods and tools used to engage the public

PERFORMANCE MANAGEMENT

Presentation of national and regional goals and their relationship with Federal and regional metrics

EQUITY CONSIDERATIONS

Geographic equity and the region's demographic characteristics

FEDERAL, STATE & COMMUNITY

BIL, Beyond Mobility, Master Plans and locally identified priorities





POPULATION PROJECTIONS



EMPLOYMENT PROJECTIONS



FUTURE GROWTH



TRANSPORTATION MODESImage: state state

Existing Conditions Current Challenges or Issues Vision for the Future Identified Needs and Priorities





Safety

- Pedestrian and Bicycle Safety
- Crash data
- Road Safety Audits & Walk Audits
- Safe Routes to School
- Highway Improvement Safety Program (HSIP)

Top Crash Locations among the Top 200 Statewide (2017-2019)

Charlton: Stafford Street / Center Depot Road

Top Crash Location for bridge strikes (30) Westborough: West Main Street

Top Pedestrian & Top Bicycle Crash Clusters Worcester: Main Street / Chandler Street



MassDOT Online Crash Portal: https://apps.impact.dot.state.ma.us/cdp/dashboard-view/26

Congestion Congestion Management Process (CMP) Data collection: travel time and delays List of critical intersections Park – N – Ride database and utilization rate Transit on-time performance Travel Demand Model • to identify bottlenecks in the region • to project future congested locations **TOP 5 CRITICAL INTERSECTIONS (DELAYS) #1 Millbury** – Route 122 / Mass Pike CMRE **#2 Worcester** – Foster St / Francis J. McGrath/Franklin St / Green St **#3 Shrewsbury** – Route 140 / Main Street #4 Westborough – Route 9 / Lyman Street (FYI - this ranking was before the TIP improvement project, the analysis after improvements is not yet completed) #5 Auburn – Route 12 / Swanson Rd / Brotherton Way 12

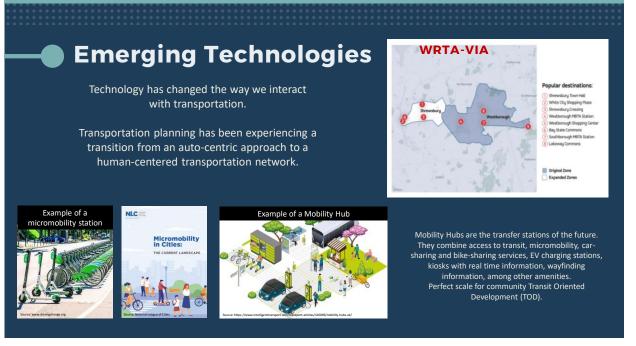
Asset Management

- Data collection
- Pavement condition
- Sidewalk condition
- Traffic counts
- Turning movement counts
- Data available on the online dashboard

Westborough: Parking Study (2019) Shrewsbury: Sidewalk Plan (2022) Douglas: Traffic Signal Warrant Analysis (2022) Shrewsbury: MA-140 Corridor Profile Study Berlin: MA-62 Corridor Profile Study

Poor (Orange) and Very Poor (Red) Pavement Condition







This is a two-way relationship!

As the region continues to grow, it is critical that we recognize that the built environment is intricately linked to the natural world.



Environmental Planning at CMRPC

- Local bylaw reviews
- Green Communities
- Municipal Vulnerability Preparedness
- Hazard Mitigation Plans
- Open Space and Recreation Plans
- Air Quality and Greenhouse Gas Assessment

- Brownfields Assessment Program
- Regional Brownfields Plan
- Land Use for Regional Resilience
- Culvert Assessment Program
- Affordable Access Regional Coordination Grant
- Land Use Priority Plan

Climate Change

- Climate change means:
 - More heavy rain downpours and flash flooding
 - Increased temperatures affecting pavement condition
 - Increased culvert vulnerability to failure during storm events
- Vehicles Miles Traveled (VMT) trending upwards, more pressure on maintaining culverts and replacing them with better designed, climate resilient crossings



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Culverts

- In 2019, CMRPC started its Regional Culvert Assessment Program
- 5,000+ culverts in CMRPC region, of which about 1,800 along federal-aid eligible roadways
- Culverts assessed using protocols set by the North Atlantic Aquatic Connectivity Collaborative (NAACC)
- Culverts assessed to identify degree of barrier to barrier to waterways, fish, and wildlife.
- To date, staff have assessed about 70 culverts in West Brookfield, Berlin, Oxford, Sutton, Sturbridge, Warren, and Shrewsbury.
- Staff have created numerous ArcGIS maps, ArcGIS Online dashboards, as well as an ArcGIS Online Hubpage.



<u>Link to Culvert Dashboard</u>
Link to Culvert Hubsite



Stormwater Management

- Stormwater has a wide range of adverse impacts affecting public health, ecosystems, transportation, and economic activities.
- Impervious surfaces, such as paved roads, prevent water from soaking into the ground, which becomes stormwater.
- Stormwater can impact transportation infrastructure, cause flooding and erosion, and disturb habitat, among others.
- In 2018, CMRPC developed a Toolkit to integrate Nature Based Solutions (NBS) to address stormwater management.



19

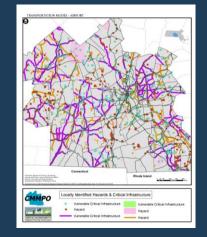
Environmental Consultation

- Annual meeting hosted by CMRPC to discuss a range of environmental activities and issues associated with the TIP and LRTP.
- State and local environmental stakeholders invited to attend.
- Early coordination encouraged when developing projects
- Various ArcGIS environmental data layers available from DCR, DEP, NHESP, and others when developing transportation projects.
- The Massachusetts Project Intake Tool (MaPIT), a web-based application, designed to help both State and municipalities initiate projects.



Hazard Mitigation & Municipal Vulnerability Preparedness (MVP)

- MVP Grant Program was created in 2017 to identify climate hazards, assess vulnerabilities, and develop action plans to improve climate change resilience.
- Communities become eligible for grant funding when they complete the grant process and are designated an MVP Community.
- CMRPC continues to assist communities with their MVP process and plans.



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Decarbonization

- Massachusetts 2050 Decarbonization Roadmap
- Electric Vehicle Charging Stations multiple opportunities and grant programs
- Total of 164 charging station in the CMRPC region (FHWA Alternative Fuels Data Center)
- Staff have developed an Air Quality Module that focuses on EV charging infrastructure and grant opportunities.
- Working with towns to identify potential future locations for EV charging stations.
- Staff have developed numerous ArcGIS maps and an ArcGIS Online dashboard.



Link to EV Dashboard https://www.arcgis.com/apps/dashboards/3d7c4b184e824a97889b5f129c15af50

Most of the communities have one or more charging stations. Major concerns related to the capacity of the grid to sustain the future demand in peak hours.

Congestion Mitigation and Air Quality

Approved transportation improvement projects in the last 5 years funded with CMAQ funds

PROJECT ID#	Project	Location	Approval Date	TIP Year	CMAQ Approved Funds	Total Funds	Туре	VOC Savings (kg/per year)	NOx Savings (kg/per year)	CO Savings (kg/per year)
	Winthrop/Providence/Vernon/ Granite St Improvements	Worcester	3/29/16	2017	\$1,305,638	\$3,853,939	Traffic Flow	20.6	54.8	242.7
	Holden St/Drummond Ave/Shore Dr Intersection Improvements	Worcester	3/29/16	2017	\$2,705,655	\$2,705,655	Traffic Flow	135.2	360.2	1596.5
602740	Main St Resurfacing	Shrewsbury	11/10/16	2017	\$2,000,000	\$6,278,484	Traffic Flow	158.3	158.9	1963.5
606206	Charlton St Reconstruction	Oxford	11/10/16	2017	\$1,000,000	\$5,722,150	Traffic Flow	0.1	0.4	5.7
606125	High St/Hopkinton Rd Reconstruction	Upton	4/4/18	2019	\$3,411,395	\$6,386,655	Traffic Flow	23.4	22.6	331.5
	WRTA Demand Resonse Rideshare Service Pilot	Westborough	3/4/20	2021	\$632,032	\$632,032	New Service	3.3	6.1	107.7
608778	Route 20 Reconstruction	Charlton/Oxford	1/22/21	2022	\$3,586,719	\$74,197,812	Traffic Flow	13.6	32.3	643.3
602659	Downtown Improvements	Southbridge	4/26/21	2024	\$2,000,000	\$4,418,779	Bike & Ped	0.4	1.1	27.5
608873	Meadow Road Rehabilitation	Spencer	4/26/21	2023	\$2,500,000	\$9,164,351	Bike & Ped	0.2	0.6	15.5
							Total Savings			
				Total Funds	\$19,141,439	\$113,359,857	Total Savings	355.1	637.0	4933.9

CMAQ Eligible Project Types & Activities

CMAQ Project Types	FHWA CMAQ Eligible Activities
Travel Demand Management/Rideshare	Rideshare Programs
	Park and Ride
	 Employee Transit Benefits
	Carsharing
	Bikesharing
	 Education and Outreach
Congestion Reduction and Traffic Flow	Incident Management
Improvements	Intersection Improvements
	Signal Improvements
	Roundabouts
Transit Improvements	Transit Service Expansion
	Park and Ride
	Employee Transit Benefits
Freight Intermodal Projects	 Intermodal Freight Facilities and Programs
	Truck Stop Electrification
	 Heavy Vehicle Engine Replacements
Pedestrian Bicycle	 Pedestrian and Bicycle Paths (that are not solely for recreation)
	Bikesharing
Alternate Fuel and Clean Vehicle	Heavy Vehicle Engine Replacements
	 Diesel Retrofit Technologies
	 Extreme-Temperature Cold-Start Technologies
	Dust Mitigation
	 Natural Gas Re-Fueling Infrastructure
	 Electric Vehicle Charging Stations





Funding Sources

Bipartisan Infrastructure Law (BIL)

Climate Change and Resilience Funding Opportunities:

- Carbon Reduction Program
- PROTECT Grants (formula and discretionary)
- Charging and Fueling Infrastructure
- National Electric Vehicle Formula Program
- Congestion Relief Program
- Other Climate and Resilience Provisions

Statewide Funding Programs

- MassDOT: Complete Streets, Local Bottleneck Reduction Program, Community Transit Program
- MassDEP: Mass EVIP: Fleet Electrification, Workplace & Fleet Charging, Multi-Unit Dwelling & Educational Campus Charging
- MA DCR: MassTrails
- **DER:** Culvert Replacement Program
- Massachusetts Clean Energy Center: Accelerating Clean Transportation for All (ACT 4 All)

For more information: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/grant_programs.cfm

Open Discussion

What is the most pressing environmental ISSUE or CHALLENGE related to transportation today?



Which environmental project, service or study would you like to pursue to improve transportation if the financial resources become available?

Open Discussion

What is your Transportation-related Environmental BIG Idea?

CMRPC Legislative Affairs Forum: Trails



Tuesday, December 6, 2022 9:00 AM to 11:00 AM

MA Fisheries & Wildlife Headquarters 1 Rabbit Hill Road Westborough, MA 01581

Trails

Join fellow community leaders and legislators at CMRPC's Legislative Affairs Forum. Learn about and discuss the benefits, goals, and difficulties of creating and sustaining a robust pedestrian and bicycle trail system here in Central Massachusetts.

*Requires reservation





THE CMMPO LONG RANGE TRANSPORTATION PLAN



2050 CONNECTIONS

Financial Scenarios

Regional Targets

Estimates until 2050

Estimated funds provided by MassDOT and allocated in 5-year bands.

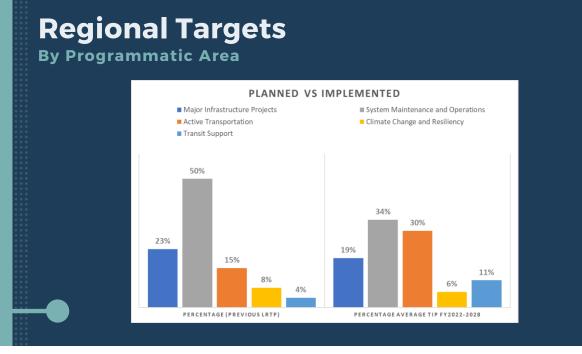
*Note: 2% increase per year calculated after 2045

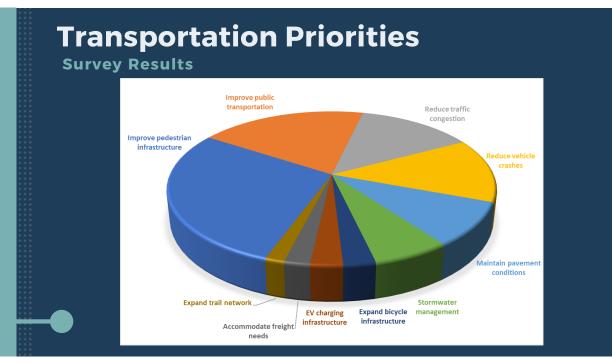
Year Bands	Total	Total Available Funding				
2024-2025	\$	52,397,899				
2026-2030	\$	154,432,094				
2031-2035	\$	174,436,471				
2036-2040	\$	194,518,660				
2041-2045	\$	213,832,411				
2046-2050*	\$	235,849,508				
	\$	1,025,467,044				

Regional Targets

By Programmatic Area

Programmatic Area	Percentage (Previous LRTP)		Dollars (Previous LRTP)	Average Percentage TIP FY2022-2028	Average Dollars TIP FY2022-2028
Major Infrastructure Projects	22.80%	\$	233,806,486	19.30%	\$ 197,915,139
System Maintenance and Operations	50.20%	\$	514,784,456	34.27%	\$ 351,427,556
Active Transportation	15.40%	\$	157,921,925	29.87%	\$ 306,307,006
Climate Change and Resiliency	7.70%	, \$	78,960,962	6.00%	\$ 61,528,023
Transit Support	3.80%	\$	38,967,748	10.57%	\$ 108,391,867
		\$	1,024,441,577		\$ 1,025,569,590





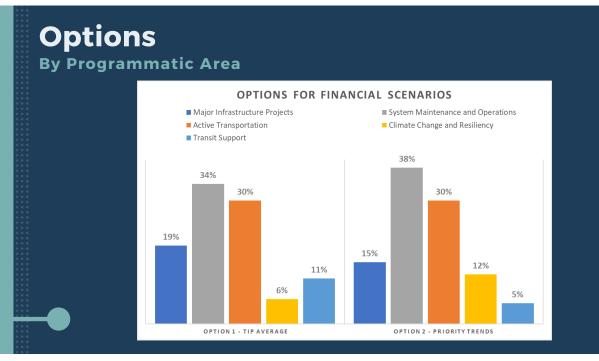


Regional Targets

By Programmatic Area

Programmatic Area	Percentage (Previous LRTP)	Average Percentage TIP FY2022-2028	OPTION 1	OPTION 2*
Major Infrastructure Projects	22.80%	19.30%	19.00%	15.00%
System Maintenance and Operations	50.20%	34.27%	34.00%	38.00%
Active Transportation	15.40%	29.87%	30.00%	30.00%
Climate Change and Resiliency	7.70%	6.00%	6.00%	12.00%
Transit Support	3.80%	10.57%	11.00%	5.00%

7





2050 CONNECTIONS

2⊗5⊗ CONNECT≴©NS

Priorities Hybrid Public Meeting 1 Mercantile Street Paul Revere Room May 31, 2023





CMMPO

Members of the Public:



CENTRAL MASSACHUSETT



Please utilize the **'Raise Hand'** feature to be called upon to speak. Once staff acknowledges your turn to speak, you can unmute yourself. Please state your name and organization or city/town.

IMAGI



If you have any technical difficulty, contact Adam Wriggins at awriggins@cmrpc.org or by phone: (508) 459-3340.



CMMPO



Open Meeting Law

This meeting will be recorded by CMRPC. By continuing with this virtual meeting, you are consenting to participate in a recorded event. The meeting recording and chat transcript will be saved and used for data capturing purposes.

If you do not feel comfortable being recorded, you may turn off your camera and/or mute your microphone or leave the meeting. We will be sharing these slides and links in a follow up email.

Thank you for your participation.

3

Ground Rules: • No need to be on screen! If you wish to talk, please turn on your

- camera.Add your name, pronouns, organization or town to your Zoom description.
- Use the chat as a valid/equal communication tool for topics related to the meeting.
- Be present and be an active listener.
- Speak slow and clear.
- Try not to interrupt other people when talking or attempt to speak over them.
- We will open the floor for questions at the end of the presentation.
- Spell out acronyms.
- We reserve the right to remove any disruptions/disruptor from the meeting space.





What to do in case of Zoom-Bombing:

The meeting host will do its best to remove any disruptions from the meeting. That includes audio, video or screen sharing contents.

In the case the meeting is disconnected, the meeting host will reestablish the meeting settings and you will need to join the meeting one more time.

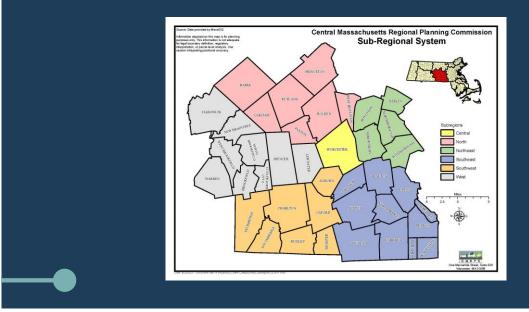
If the disruption still persists after reconnecting, staff will close the meeting permanently and will send out a follow-up email with new instructions or a later meeting date to continue the public event.

Thanks for your understanding.









Central Massachusetts Regional Planning Commission



2050 Connections

The region's long-range transportation plan



What is the purpose of the LRTP?

The purpose of the LRTP is to identify the multi-modal transportation needs and priorities of the southern central Massachusetts region.

MPO's must create a plan every four years.

The span of 2050 Connections covers 25 years.

HOW THE LRTP IS DEVELOPED?



PLANNING

Many factors are taken into consideration: Management Systems Performance Measures Land Use Economic Development



PARTICIPANTS

Public-at-large Planners and Town Officials Interest Groups Organizations MassDOT, FHWA, FTA



IMPLEMENTATION

Future work related to the studies, initiatives and projects identified in the plan within the region's financial constraints.

PROJECTIONS







EMPLOYMENT PROJECTIONS



FUTURE GROWTH

If the region experiences a slow growth, by 2050 the population will increase from 604,631 (2020) to 621,469 inhabitants (MassDOT Projections for the region by 2050). If growth continues at the same pace as previous years, population can reach the 681,229 inhabitants in the region by 2050 (CMRPC estimates).











Survey - Major Highlights

- Flyers at participating location across the region
- Versions in English and Spanish
- 284 completed surveys and more than 1,000 comments
- 32 out of 40 communities were represented
- Majority drive alone, but if they didn't had access to their vehicles, they will use public transit.
- Most people don't have access to a bicycle.
- The majority mentioned they visited a trail in the last year.
- If available, about 34% will use a bike-sharing service, and 48% will use an electric car sharing service.
- Overall, pedestrian infrastructure was rated in regular condition.





2⊗58 CONNECT≴©NS

FINANCIAL CONSIDERATIONS

Funding Opportunities

Bipartisan Infrastructure Law (BIL)

- Safe Streets For All
- Complete Streets
- Reconnecting Communities

СММРО

Climate Change and Resilience:

- Carbon Reduction Program
- PROTECT Grants (formula and discretionary)
- Charging and Fueling Infrastructure

Statewide Funding Programs

- MassDOT: Complete Streets, Local Bottleneck Reduction Program, Community Transit Program
- MassDEP: Mass EVIP: Fleet Electrification, Workplace & Fleet Charging, Multi-Unit Dwelling & Educational Campus Charging
- MA DCR: MassTrails

IMAGIN

CENTRAL MASSACHUSETT

- **DER:** Culvert Replacement Program
- Massachusetts Clean Energy Center: Accelerating Clean Transportation for All (ACT 4 All)

For more information: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/grant_programs.cfm

Funds Awarded in the Region

Safe Streets 4 All

2 communities Worcester & Southbridge Safety Action Plans

\$260,000 awarded in 2023

Complete Streets

20 Communities with approved/completed projects

Investment of \$6.5M since 2018

Shared Streets

25 communities 47 projects funded

Investment of \$5.2M since 2019

DER's Culvert

7 active projects 2 projects using ARPA funds

MassTrails

CMRPC & 8 communities 17 projects funded

Investment of \$1.8M since 2019

MassWorks

10 Communities 12 Projects

Investment of \$19.6M since 2018

Green Communities

Awarded \$3.4M 20 communities 2021 & 2022

21

2023-2027 Transportation Improvement Program

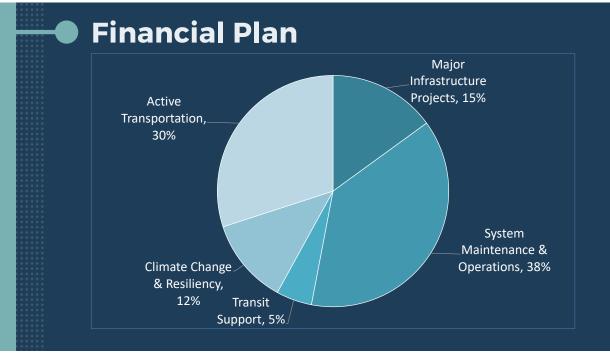
North	Southwest
5 Projects	18 Projects
\$26,439,417 M	\$188,015,744 M
Northeast	Southeast
2 Projects	15 Projects
\$22,202,113 M	\$87,202,755 M
West	Central
7 Projects	8 Projects
\$42,702,954 M	\$66,976,803 M

- A total of 143 TIP projects, advertised and programmed, between 2012 and 2027, 96 projects located in EJ areas.
- From 2012 to 2027, 11 communities had no target projects, 8 communities with no statewide projects, and 3 communities had neither target nor statewide projects.
- The Northeast Subregion had the fewest number of target projects with a total of 3.
- Federal-aid target funds programmed by the CMMPO since 2012: Over \$290 M
- Statewide funds applied to the region since 2012: \$582 M (aprox)

Regional Targets

Estimates until 2050

	Year Bands	Total Available Funding
Estimated funds provided by MassDOT and allocated in 5-year	2024-2025	\$ 52,397,899
bands.	2026-2030 2031-2035	\$ 154,432,094 \$ 174,436,471
*Note: 2% increase per year calculated after 2045	2036-2040 2041-2045	\$ 194,518,660 \$ 213,832,411
	2046-2050*	\$ 235,849,508
		\$ 1,025,467,044



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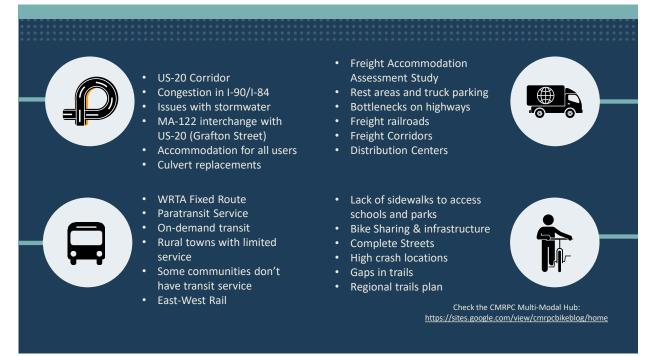
REGIONAL TRANSPORTATION NEEDS

CENTRAL MASSACHUSET











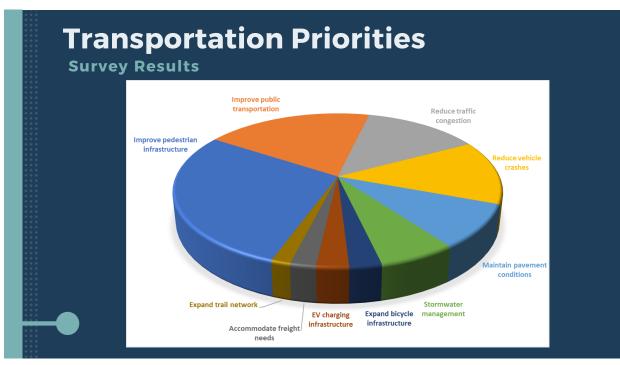
Priorities

Considerations



31

Transportation Priorities Data Management Systems Asset Management 20% \$47M for full reconstruction (17.3 miles) 1,025,467,044 \$80M for structural improvements (74.4 miles) Resiliency 10% Aprox. \$100M to replace 100 culverts Ś **Complete Streets** 26% Estimate of \$256M for planned projects in approved **Prioritization Plans** 32





Completed Projects

By Programmatic Area

Major Infrastructure Projects

System Maintenance & Operations

Transit Support

Active Transportation

Climate Change & Resiliency Kelley Square Reconstruction

TIP Project: Route 122A in Grafton (Main St from Providence Rd to Sutton TL)

Late night services and increased frequencies in high ridership routes

Blackstone River Bikeway Segment #7 in Worcester: (Madison St & Francis J. McGrath Boulevard)

West Brookfield - Culvert assessments

In-Progress

By Programmatic Area

Major Infrastructure Projects

System Maintenance & Operations

Transit Support

Active Transportation

Climate Change & Resiliency

Charlton / Oxford: US-20 Corridor Improvements & West Brookfield: Route 9 Improvements Phase I & II

TIP Projects in Chandler Street Corridor (Main St to Park Ave: safety, congestion & pavement)

Shrewsbury & Westborough: VIA On-demand transit

SRTS in Grafton (Millbury St)

TIP Project Upton: Culvert Reconstruction

Major II	nfrastru	ucture Projects
	2023 to 2025	US Route 20 reconstruction, Charlton/Oxford AND Route 9 widening, West Brookfield, Phases 1&2
	2026 to 2030	US Route 20/Route 122 (Grafton St) interchange reconstruction, Worcester
一一一一一	2031 to 2035	Route 122 (Vernon St) bridge replacement over I-290
	2036 to 2040	I-495/Route 9 interchange reconstruction, braided ramps, Westborough/Southborough
MAJOR INFRASTRUCTURE PROJECTS	2041 to 2045	Route 146/New Boston Road new grade-separated Interchange, Sutton
	2046 to 2050	Route 9/Route 135 interchange replacement, Westborough

System Maintenance & Operations



Worcester – Belmont Street Webster – Douglas Rd / Gore Rd Southbridge – Sandersdale Rd



SYSTEM

OPERATIONS

Congestion

Worcester – Park Ave Shrewsbury – MA-140 Charlton – Stafford Street / Center Depot Road

Pavement

Southbridge – West Street Auburn – South Street

Active Transportation



Trails Westborough – BWALT Sutton – Blackstone Rive Greenway segment

Pedestrian

West Brookfield Downtown Regionwide – Safe Routes to School Charlton – Stafford Street / Center Depot Road

TRANSPORTATION

Bicycle Worcester – Main Street, Park Ave, Mill Street Webster – East Main Street

Transit Support

Commuter Rail Worcester – Springfield



TRANSIT

WRTA

Worcester – Transit Signal Priority Regionwide – Improve bus stops and surroundings Fleet electrification

Community transit

On-demand rural transit service (Quaboag & Quabbin Regions) Transportation for older adults Transportation for Veterans

Climate Change & Resiliency

Culverts



CLIMATE CHANGE & RESILIENCY

Warren – Keyes Road Paxton – MA-31 Millbury – Carleton Road New Braintree – Ravine Road Berlin – Double culvert on Randall Road & West Street

Decarbonization Regionwide – EV charging stations







Group Exercise

Online visit:

Priorities Dashboard

or use the chat to enter your top priorities.

Stay Involved!



Participate

CMMPO meets the 3rd week of every month

CMMPO Advisory meets the 4th week of every month



Committees and Work Groups

Connect with CMRPC staff to participate in many committees and working groups created to address multiple topics

Articulate the needs of your community

Complete surveys and send your comments. We read them all!

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Spread the word

Be a Community Ambassador and share the goods news about everything related to transportation!



2858 CONNECTAONS

СММРО

IMAGINE 此近2050

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CENTRAL MASSACHUSET

June 21, 2023, CMMPO Meeting



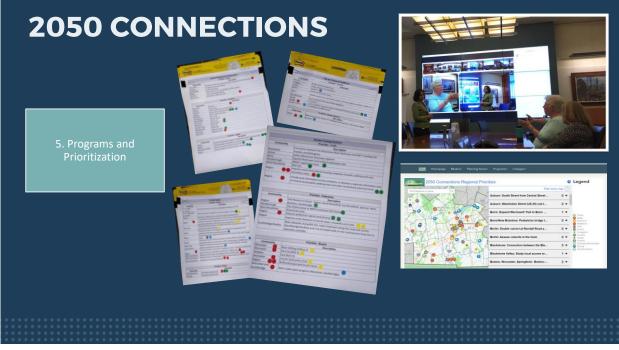








Identifying Regional Needs & Priorities Public Engagement Regional Workshops Modal Plans BL + MicroProjects Survey Travel Demand Model Data Integration Guity Analysis Gren-house Gas Savings



PROGRAMMATIC AREAS



MAJOR INFRASTRUCTURE PROJECTS



SYSTEM MAINTENANCE & OPERATIONS



ACTIVE TRANSPORTATION



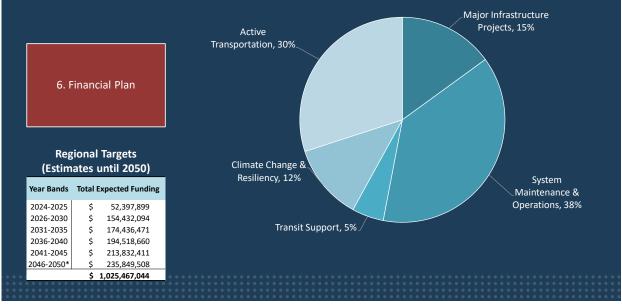
TRANSIT SUPPORT

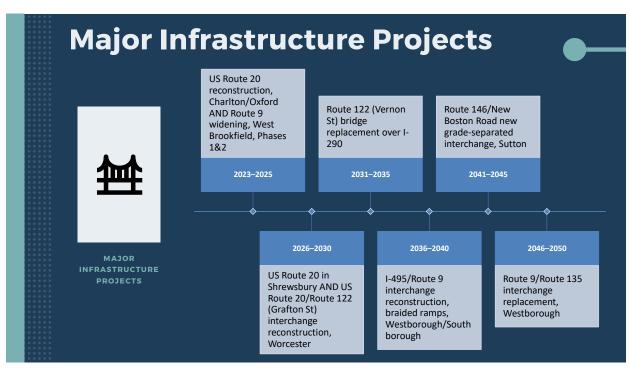


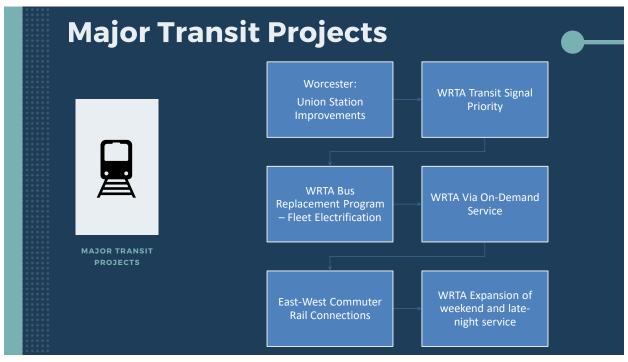
LIMATE CHANGE & RESILIENCY

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2050 CONNECTIONS







7. Air Quality and GHG	Massachusetts Statewide Aggregate CO ₂ Estimated Emissions Impacts from Transportation (all emissions in tons per summer day)				
Assessments	Year	CO ₂ Action Emissions	CO ₂ Base Emissions	Difference (Action – Base)	
	2019	75,113.6	75,113.6	n/a	
	2050	53,772.5	53,781.4	-8.9	
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Draft 2050 Connections Public Meeting July 10, 2023 5:00 PM

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Stinkages It inkages It the region experiences a slow growth, by 2050 the opulation will increase from 604,631 (2020) to 621,469 inhabitants (MassDOT Projections for the region by 2050). It growth continues at the same pace as previous years, population can reach the 681,229 inhabitants in the region by 2050 (CMRPC estimates).

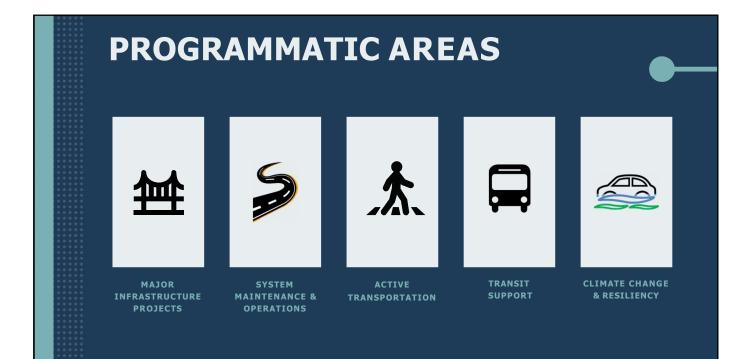




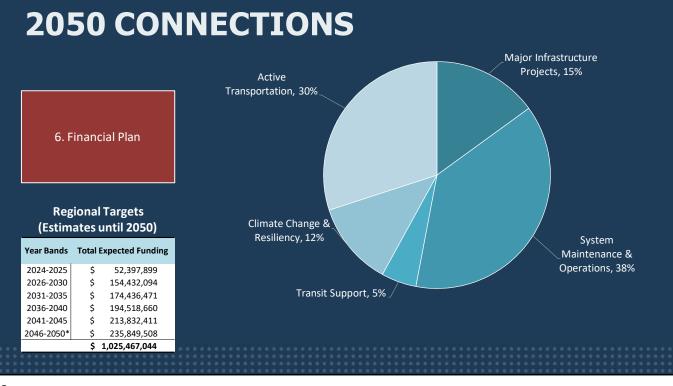


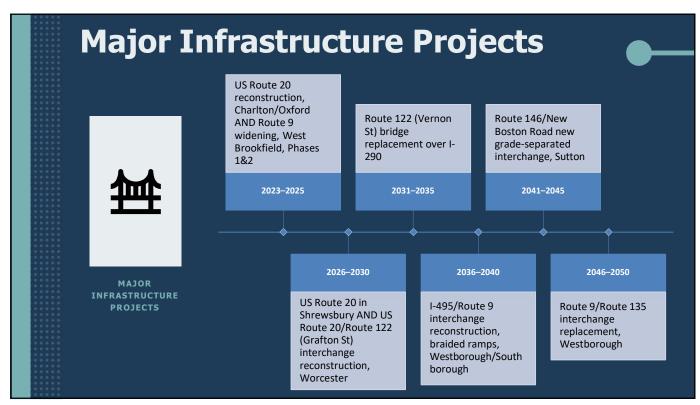


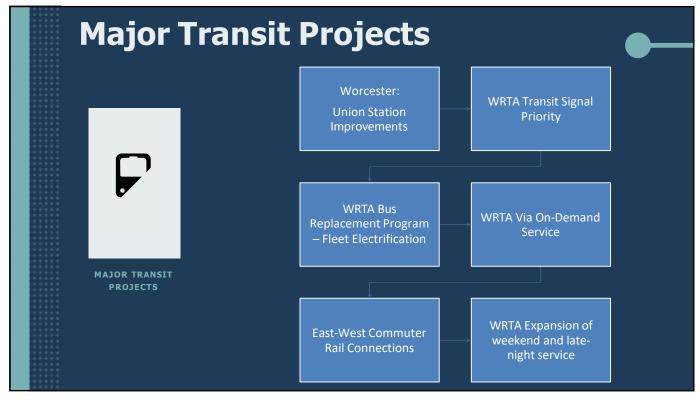








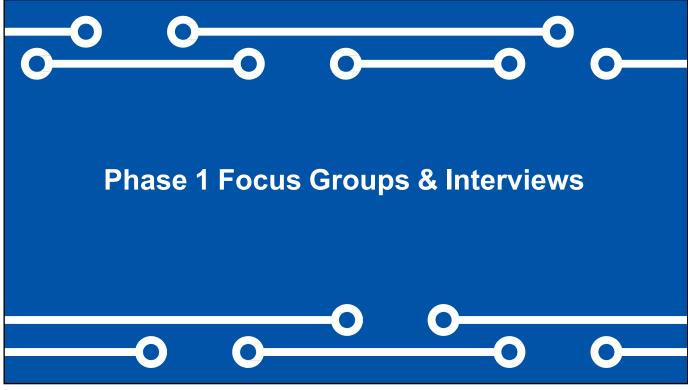




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Assessments	Year	CO ₂ Action Emissions	CO ₂ Base Emissions	Difference (Action – Base)
	2019	75,113.6	75,113.6	n/a
	2050	53,772.5	53,781.4	-8.9
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Second Beyond Mobility Massachusetts 2050 Transportation Plan	
Phase I Engagement Results October 3, 2022	
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Reference Slide: Focus Groups

Deuticia ente como fuero	Age group (years)	N (%)	Study group	N (%)
Participants came from	18 to 21	1 (2.5%)	Less than \$14,500	2 (5.0%)
25 zip codes and various	22 to 34	16 (40.0%)	\$14,500 to \$28,999	7 (17.5%)
backgrounds of		· /	\$29,000 to \$43,499	4 (10.0%)
race/ethnicity, age, and	35 to 44	13 (32.5%)	\$43,500 to \$57,999	4 (10.0%)
income	45 to 64	9 (22.5%)	\$58,000 to \$75,999	3 (7.5%)
	65 or older	1 (2.5%)	\$152,000 or more	4 (10.0%)
N	Total	40 (100%)	No answer	16 (40.0%)
2 and	10141	10 (100 ///)	- Total	40 (100%)
1 and the lite is a set	2V		Total	40 (100 %)
Instachuserts	• Braun		Study group	N (%)
Discarbusetts				
typeschusetts Springseld Woon	Brockton	~	Study group Black community	N (%) 7 (17.5%)
Woon	socket	and the second sec	Study group Black community Spanish-speaking	N (%) 7 (17.5%) 7 (17.5%)
Woon	0		Study group Black community Spanish-speaking Mandarin-speaking	N (%) 7 (17.5%) 7 (17.5%) 3 (7.5%)
Woon	socket		Study group Black community Spanish-speaking Mandarin-speaking Vietnamese speaking	N (%) 7 (17.5%) 7 (17.5%) 3 (7.5%) 3 (7.5%)

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Focus Groups

Trends

- 56% reported driving a private vehicle as their primary mode choice
- 86% changed travel behavior due to COVID-19

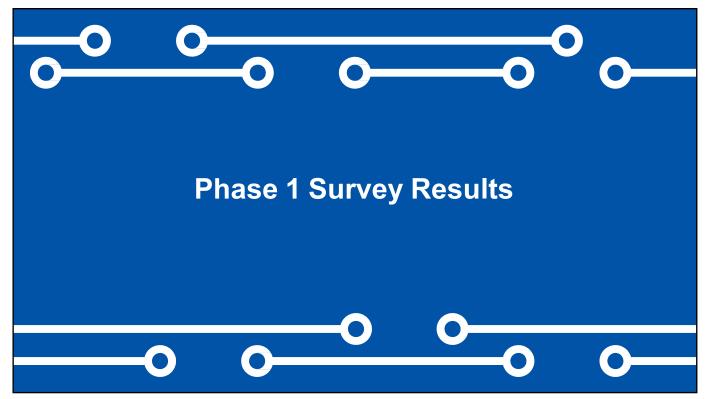
Values

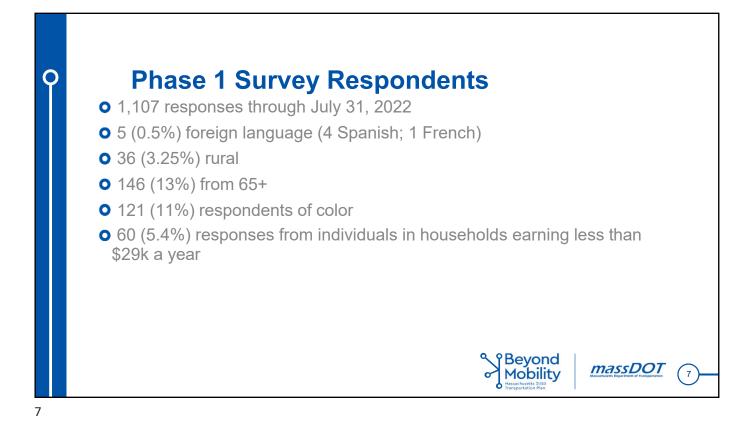
- High value on **convenience** and **affordability**.
- Felt public transit to be **unreliable** and **less safe** than other modes.

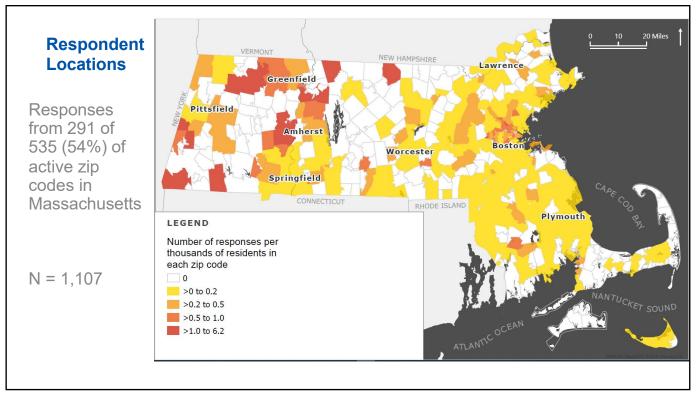


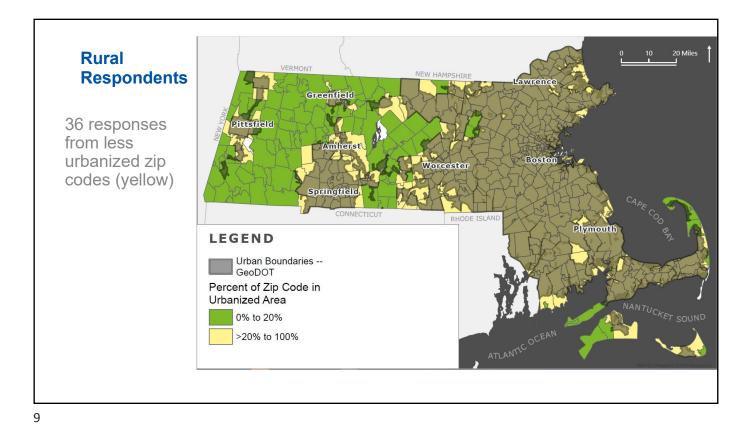
	tts' Transportation litative Themes)	Stakeholders value a
53	Improved Infrastructure O-	well-maintained system
39	Modernization O	 modern system that embraces technology
29 Relia	bility O	a dependable and growing system
19 Affordability (17 Safety O	>]	 economical and resilient system that prevents per costs of time and money
10 Communication 10 Other		- safe system that ensures personal well-being and protection
8 Maintenance 2 Accessibility		

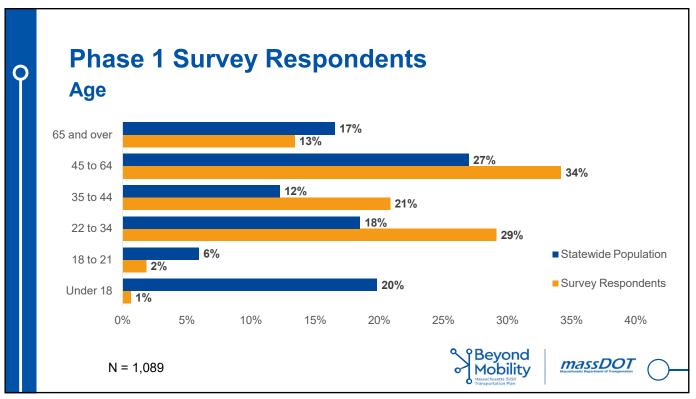


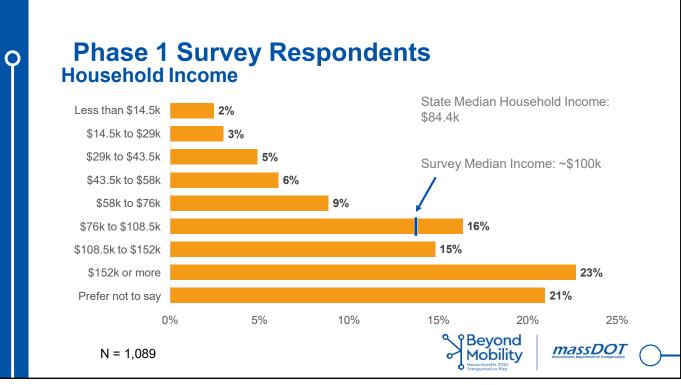


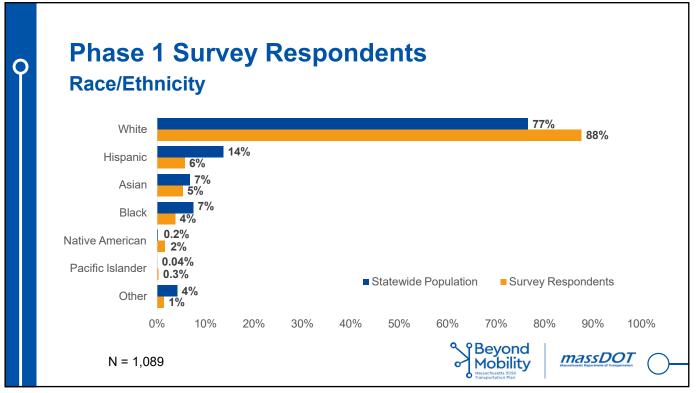


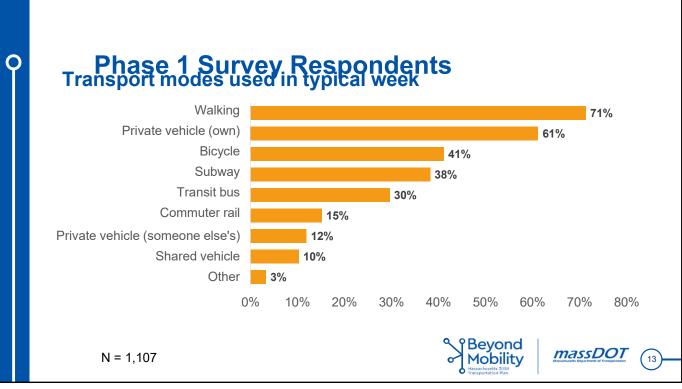


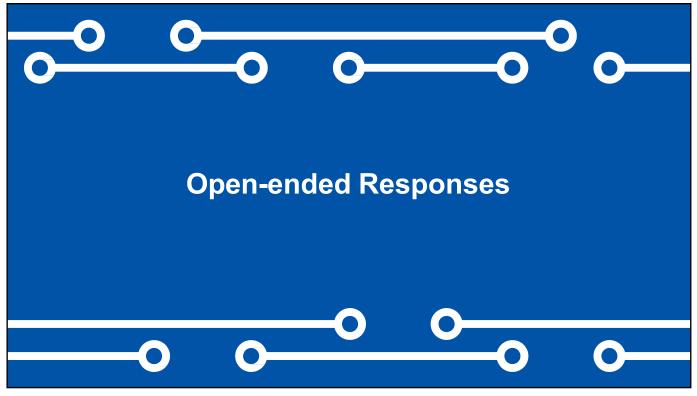


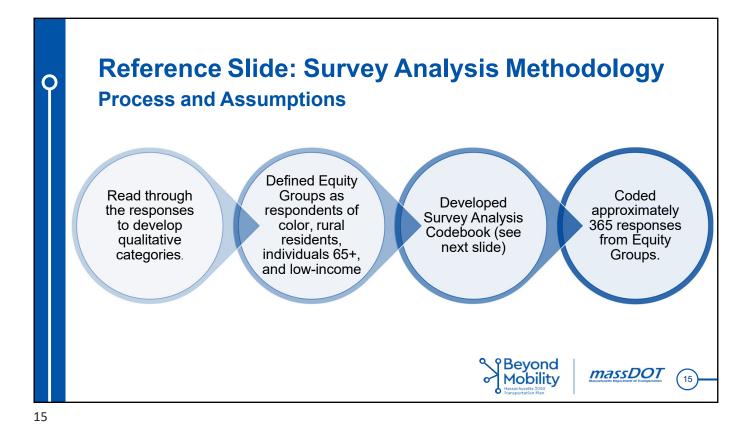












Reference Slide - Coding Explanations

Code	Example Comment
User Experience Clean, convenient, legible, modern, comfortable, uncrowded	"The machine in the station is unbearable for the Elderly that can't read or write and understand the English."
Land Use Parking, transit infrastructure improvements	"Develop more live, work, play districts. Reduce the area for parking. Establish zones for shared self-driving vehicles."
Safety Safety, safety in relation to bike/ped	"I live in a place where on a bad traffic day, biking takes less time than driving. So, I'd like to see more safe bike paths and lock facilities around the city as an alternative to driving."
Efficient Speed, time (delays), unimposing, financially responsible	"Provide maximum transportation to as many people as possible with minimum inconvenience to non-users."
Equitable Geographically, rural, ADA	"There is subsidized to free depending on income and mobility needs transportation for all ages to work, errands, medical appointments, and school. Rural Mass. will be connected to all cities and towns."
Expansion Time, rural, transit	"Get me to doctors appts and where I need to go. I would go [to] more places might [I] not have to leave so early."
State of Good Repair General, pavement, transit, bike/ped	<i>"Safe streets & or sidewalks for walking jogging and biking even in winter. An MBTA train that doesn't break down."</i>

Question 2

What are three key qualities that describe your ideal future transportation system?

All Respondents	, Open Ended Question	
Key Words	Occurrences	energy efficiency rural area useful read: biking neone witherable read user
Reliable	263	less traffic time
Safe	239	
Affordable	144	options access multiple mode
Accessible	126	affordability bus train clean energy boston
Frequent	105	carbon Satety traffic calming
Transit	97	INTRASTRUCTURE Gai renewable energy
Efficient	94	easy access equitable bike high speed high quality
Convenient	90	bus lane speed distant bike lane efficient reliable infrastructure
Fast	77	pedestrian safety light rail private car connectivity protected bike lane
Clean	71	easy transfer high frequency state climate change
		reliable services frequent services low environmental impact maintained road reasonable cost

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Question 2 – by Equity Group

Three key qualities that describe your ideal future

transportation system? Equity Groups, Open Ended Question (% is portion of group that selected value category)

Value Category	Low Income	65 and over	POC	Rural
User Experience	43%	23%	36%	28%
Reliability	33%	34%	45%	8%
Affordable	27%	24%	28%	33%
Safety	28%	28%	31%	22%
Accessibility	13%	27%	20%	33%
Frequent	18%	27%	30%	14%
Expansion	22%	8%	16%	31%
Sustainability	13%	20%	9%	31%
Efficient	15%	14%	22%	19%
Connected	5%	22%	21%	22%
Equitable	12%	16%	8%	25%
Multimodal	12%	23%	10%	8%
State of Good Repair	8%	14%	8%	22%
Car Free	15%	7%	6%	8%
Intelligent	5%	6%	6%	6%
Land Use	3%	1%	9%	8%
Flexibility	5%	2%	3%	8%
Resilient	2%	5%	2%	8%
Unimposing	0%	3%	0%	3%
N	60	146	121	36

User Experience was a key quality of the future transportation system.

Reliability, User Experience, and Safety largest vote-getters.

Rural responses vote slightly different for **Sustainability**, **Expansion**, **Equity**, **Accessibility**, **Affordability**

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Question 2 – by Transport Mode

Three key qualities that describe your ideal future

transportation system? Equity Groups, Open Ended Question (% is portion of group that selected value category)

Value Category	Bike	Subway	Bus	Rail	Walk	Private Vehicle
Reliability	36%		49%	40%	36%	32%
Safety	36%	32%	27%	29%	28%	26%
Frequent	29%	37%	30%	29%	29%	22%
User Experience	24%	34%	16%	27%	29%	30%
Affordable	24%	26%	21%	18%	29%	29%
Connected	21%	21%	22%	22%	22%	16%
Accessibility	15%	19%	19%	13%	23%	24%
Multimodal	27%	13%	10%	18%	19%	17%
Efficient	13%	23%	19%	13%	14%	17%
Expansion	13%	12%	5%	22%	14%	16%
Sustainable	20%	10%	7%	7%	17%	19%
Equitable	12%		6%	9%	12%	
State of Good Repair	8%	12%	6%	11%	9%	11%
Car Free	14%	2%	5%	9%	9%	10%
Flexibility	8%	2%	4%	11%	4%	
Intelligent	5%	5%	4%	2%	6%	7%
Resilient	5%	3%	2%	4%	3%	5%
Land Use	4%	2%	2%	0%	5%	6%
Unimposing	1%	1%	1%	2%	2%	2%
N	98	129	113	45	236	243

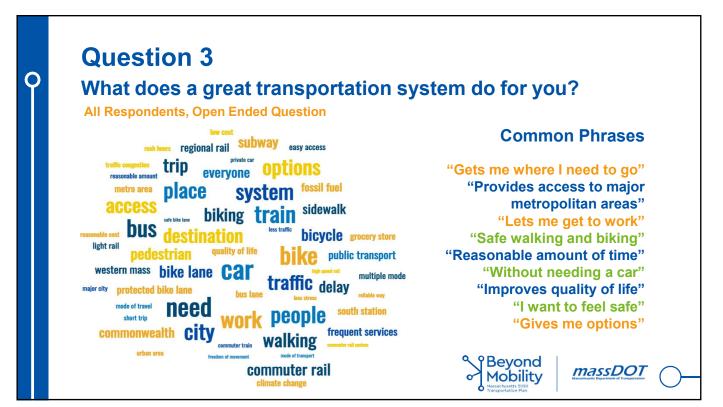
Reliability was a key quality of the future transportation system, especially among transit riders.

User Experience, Frequency, and **Safety** were more frequently mentioned.



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Question 3 – by Equity Group What does a great transport system do for you?

Equity Groups, Open Ended Question (% is portion of group that selected value category)

Value Category	Low	Income	Over	65	POC	Rural	
User Experience		35%		27%	36%	33%	
Expansion		28%	27%		16%		50%
Reliability		35%		29%	45%		11%
Efficient		17%		26%	22%		50%
Connected		30%	27%		21%		33%
Accessibility		17%		25%	20%		31%
Affordable		20%	18%		28%		19%
Safety		13%		25%	31%		8%
Frequent		15%		18%	30%		14%
Equitable		22%		18%	8%		22%
Car Free		15%		25%	6%		14%
Multimodal		22%		18%	10%	8%	
Sustainability		12%		18%	9%	11%	
Land Use State of Good Repair		0.1 5%		3% 9%	9% 8%		119 09
ntelligent Flexibility	5% 2%			5% 3%	6% 3%	3% 8%	
Resilient	5%			2%	2%	0%	
Unimposing	0			3%	0%	0%	
N		60		142	121		36

Rural respondents value **System Expansion** and **Efficiency** more than other groups

All respondents value User Experience, Connectivity, Reliability, and Efficiency

Few votes for Flexibility, State of Good Repair, Resilience, Intelligent transport, Unimposing



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Question 3 – by Transport Mode What does a great transport system do for you? Ο **Equity Groups, Open Ended Question** (% is portion of group that selected value category) Bike 36% Private Vehicle Subway Bus 32% 42% Walk 35% Rail 48% User Experience Private vehicle and Walking Reliability 31% 37% 38% 36% 31% 29% respondents value System Efficient 33% 38% 33% 25% 32% 35% Expansion and Efficiency more Expansion 36% 29% 27% 32% 35% 33% than other groups 28% 30% 27% 29% 25% 31% Connected 29% 28% 23% Car Free 30% 24% 20% Bus and Rail respondents value 25% 24% 25% 23% Safety 31% 26% **User Experience** and **Reliability** Accessibility 21% 23% 27% 14% 26% 23% 23% 18% 21% 25% 20% 22% Equitable more than other groups Multimodal 34% 15% 17% 16% 23% 21% **Multimodal** valued by Bike riders Frequent 21% 19% 16% 16% 17% 15% Affordable 14% 12% 14% 23% 19% 17% and Affordable and State of good 15% 20% 12% 10% 15% Sustainable 7% Repair valued by Rail riders State of Good Repair 4% 9% 8% 18% 6% 10% Intelligent 8% 8% 10% 11% 6% 6% Land Use 9% 7% 11% 2% 9% 6% Flexibility 3% 2% 3% 5% 2% 3% Resilient 2% 3% 3% 5% 2% 3% Beyond massDOT 5% 2% Unimposing 0% 2% 2% 2% Mobility N 97 128 113 44 236 239

Public Comments

What we've heard from "Emails to Beyond Mobility"

Values: Safety especially for non-motorized users; modernization; accessibility; efficiency; expansion; fiscal stewardship

Geographies: Bike route from Jamaica Plain to Cambridge; Route 6 in Wellfleet; South Coast Rail improvements and integration into the existing commuter rail; Cape Cod Canal area

"If this could be turned into a one-way street for cars with two-way protected bike lane it would make a huge difference in improving access and safety so more people could commute by bike."

"One of the major problems with mass transportation in and around Boston, is the "hub and spoke" system, where most CR and MBTA lines feed into a central area, with transfers made to destinations further out on a different line. This increases the volume of people within the hub, and increases the risk of any interruption of service, resulting in massive delays and inconvenience."



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Open Ended Questions

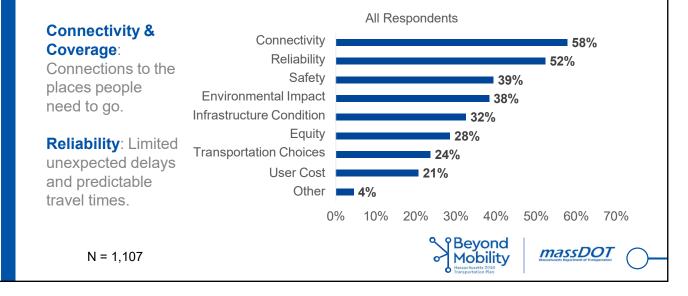
- Respondents indicated an interest in **core functions** of a transportation system: connectivity, reliability, efficiency, and user experience. Affordability and safety also priorities across groups.
- **Rural respondents** differ in priorities, valuing system expansion, efficiency, and transit accessibility more than other equity groups
- Fewer votes for more **technical** or "**nice to have**" ideas: flexibility, state of good repair, resilience, intelligent transport, unimposing (minimum inconvenience to non-users), and supportive land uses
- Respondents recognize that transportation is a pathway to opportunity (e.g., access to jobs, services, and other cultures and communities). By providing options of how they move, it improves their quality of life and the quality of the places around them.



Question 4

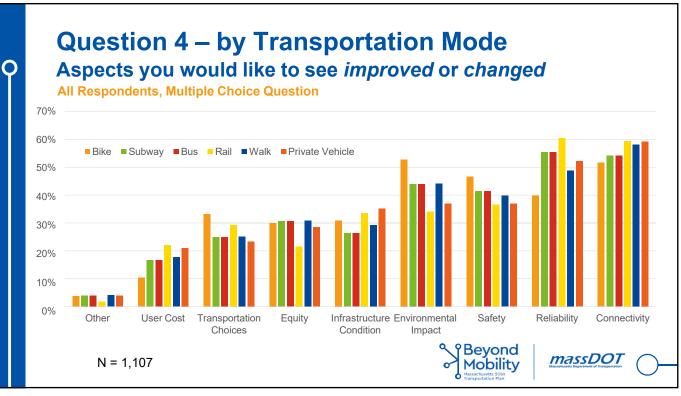
Aspects you would like to see improved or changed

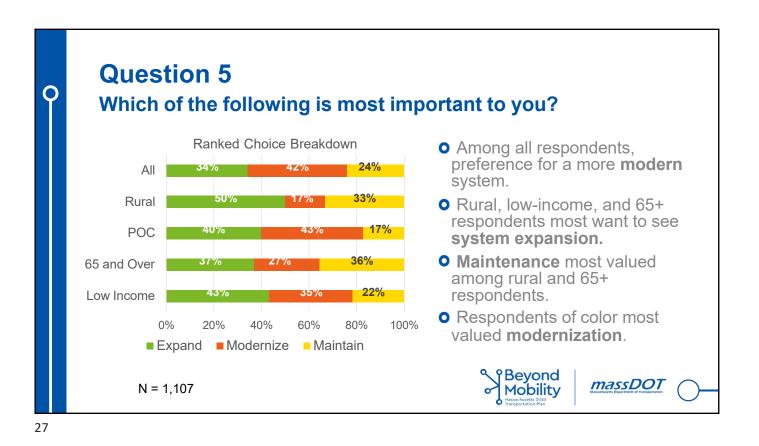
All Respondents, Multiple Choice Question

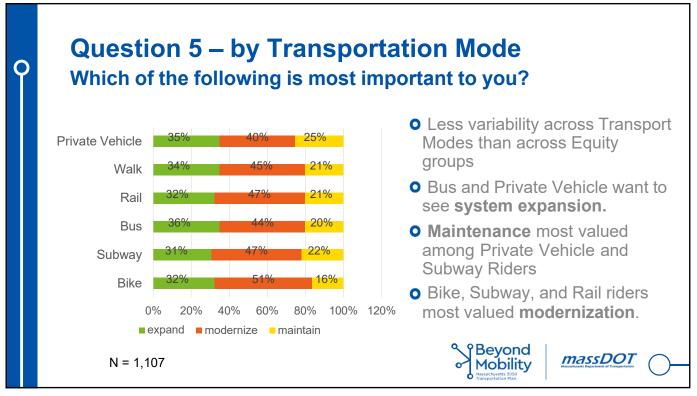


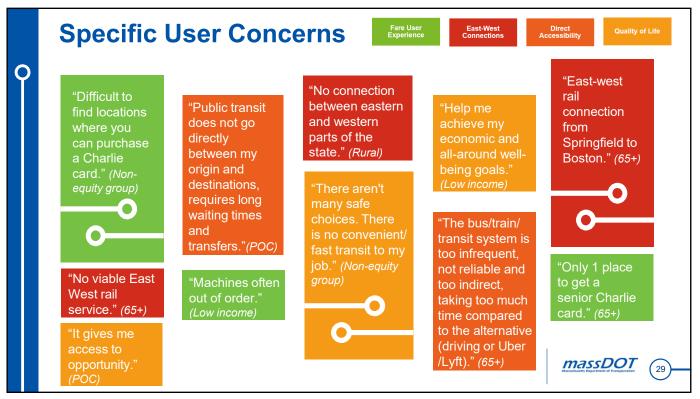


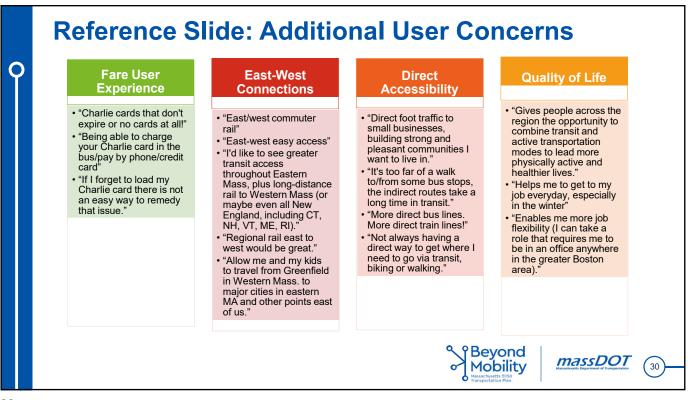
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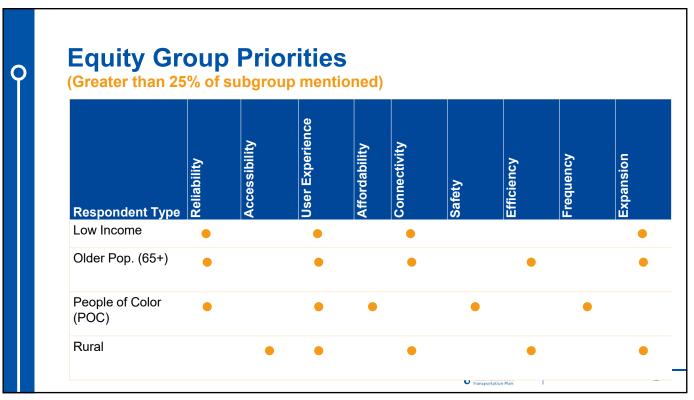


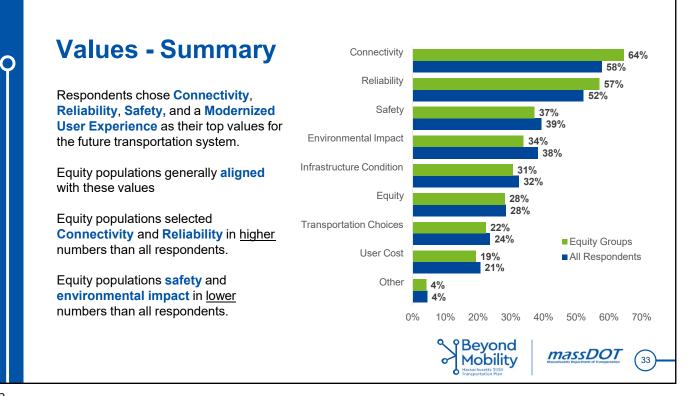














Long Range Transportation Plan: 2050 Connections Potential Major Infrastructure (MI) Project Options

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2023 to 2025	Route 20 reconstruction, Charlton/Oxford (#602659) AND Route 9 widening, West Brookfield, Phases 1&2 (#606517 & #609049)
2026 to 2030	Route 122 (Vernon St) bridge replacement over I-290 (No PRC#) AND State-funded US Route 20 reconstruction, Shrewsbury (#610825)
2031 to 2035	I-495/Route 9 interchange reconstruction, braided ramps, Westborough/Southborough (#607701)
2036 to 2040	Route 146/New Boston Road new grade-separated interchange, Sutton (No PRC#)
2041 to 2045	US Route 20/Route 122 (Grafton St) interchange reconstruction, Worcester (#603516)
2046 to 2050 Option B:	US Route 20 consistent four-lane cross-section, Auburn (No PRC#)
2023 to 2025	US Route 20, Charlton/Oxford (#602659) AND Route 9 widening, West Brookfield Phases 1&2 (#606517 & #609049)
2026 to 2030	Route 122 (Vernon St) bridge replacement over I-290 (No PRC#) AND State-funded US Route 20 reconstruction, Shrewsbury (#610825)
2031 to 2035	I-495/Route 9 interchange reconstruction, braided ramps, Westborough/Southborough (#607701)
2036 to 2040	US Route 20/Route 122 (Grafton St) interchange reconstruction, Worcester (#603516)
2041 to 2045	Route 146/New Boston Road new grade-separated interchange, Sutton (No PRC#)
2046 to 2050	US Route 20/Route 9 interchange replacement, Northborough (No PRC#) OR Route 9/Route 135 interchange replacement, Westborough (No PRC#)
Option D3:	
2023 to 2025	US Route 20 reconstruction, Charlton/Oxford (#602659) AND Route 9 widening, West Brookfield, Phases 1&2 (#606517 & #609049)
2026 to 2030	US Route 20/Route 122 (Grafton St) interchange reconstruction,
	Worcester (#603516) AND State-funded US Route 20 reconstruction, Shrewsbury (#610825)
2031 to 2035	Route 122 (Vernon St) bridge replacement over I-290 (No PRC#)
2036 to 2040	I-495/Route 9 interchange reconstruction, braided ramps, Westborough/Southborough (#607701)
2041 to 2045	Route 146/New Boston Road new grade-separated Interchange, Sutton (No PRC#)
2046 to 2050	US Route 20/Route 9 interchange replacement, Northborough (No PRC#) <i>OR</i> Route 9/Route 135 interchange replacement, Westborough (No PRC#)

Stakeholder Meeting Notes

Stakeholder: The 495/MetroWest Partnership, *Leaders for Regional Prosperity*

Meeting Details:

Date: September 20, 2022

Location: Virtual

Topic: 2050 Connections & the 495/MetroWest Partnership Updates

Attendance: Rydant (CMRPC), Krishnan (CMRPC), Palitsch (495), Thompson (495)

- The discussion was prefaced by SK with discussion about the socio-economic projections being handed down by MassDOT's contractor the Donohue Institute, that are a subject of debate. Jason noted the past challenges presented by Donohue-produced figures. The Mass Builds site maintained by MAPC was noted. Rich also provided a listing of modal projects that could be considered subregional priorities and highlighted in the next LRTP. *Following the meeting, the CMRPC staff forwarded the Partnership the 2050 Connections survey for their subsequent distribution to their full membership*
- SK provided an introduction to the new LRTP, noting the 2050 horizon year as opposed to 2040 (current plan). She mentioned warehousing & distribution and how that has changed/evolved with the pandemic.
- Rich reviewed the development schedule for the LRTP, with CMMPO endorsement anticipated in July of 2023. Opportunities to follow up on various subject matter after the meeting. Plenty of opportunity for involvement moving forward. The Partnership is a member of the CMMPO Advisory Committee that typically meets on a monthly basis. The common subset of CMRPC and Partnership communities was noted.
- Major infrastructure efforts listed by Rich to simulate the discussion:
 - o I-495 @ I-90 MassPike (poised for construction)
 - I-495 @ State Route 9 (conceptual improvement plan, funding needs to be identified)
 - o I-495 southbound to I-290 westbound ramp improvement (poised for construction)
 - o Route 9/Route 135 interchange reconstruction, substandard geometry
 - Route 9/US 20 interchange reconstruction, narrow bridge cross-section for Route 20, nearing 100 years in age.
 - \circ $\;$ Westborough Center and the truck traffic from the garbage removal company.
 - o MBTA Commuter Rail service in the area
 - Shuttle services
 - EV proliferation

- o Bicycle and Pedestrian facility progression
- o Regional trails such as the proposed/planned Boston-Worcester Air Line Trail (BWALT)
- Nightmares are from 2014 and should be updated but the major projects that are mentioned continue to be priorities. Some progress has been made. Jason noted that the reconstruction of I-495/I-90 MassPike interchange will soon begin. Similarly, I-495 southbound to I-290 westbound is poised for implementation. Further, US Route 20 improvements are moving forward, particularly in Shrewsbury.
- The "Big Whale": Jason noted that I-495/Route 9 interchange needs to follow after the reconstruction of I-495 @ I-90 MassPike. The wheel needs to start squeaking so that project can follow on the tail of the MassPike interchange reconstruction.
- The Partnership is watching the Allston I-90 straightening project carefully and plans to
 participate in a "Mitigation Group" being formed for the project. The project has multi-modal
 impacts to people and freight as well as Cumberland Farms, a member of the Partnership. The
 preservation and improvement of transit service is important when this project is being
 implemented.
- The Partnership's Strategic Plan is from 2008 and needs to be updated. This is a current topic of discussion among the Partnership leadership and Transportation Committee chairs from the public and private sectors. The Partnership wishes to define their vision for passenger rail, pubic transit (WRTA & MWRTA) and demand responsive service as examples. North-south transit doesn't currently exist to serve, as an example, the Route 85 corridor in MetroWest.
- We should be preparing now for the resurgence of MBTA Commuter Rail in an attempt to avoid, deal with the problems that were prevalent during pre-pandemic conditions, such as parking. Jeremy noted that GATRA had eliminated some fixed route transit service and replaced it with demand responsive service. He questioned how does demand responsive service work effectively and efficiently, noting some examples from LA and Seattle.
- Jason noted that the 495 Partnership was asked to serve on two statewide Commissions, 1) the Commission to investigate mobility pricing and transit fare structures in an attempt to reduce congestion (and increase mid-day passenger rail ridership) as well as 2) the Commission for East-West Passenger rail to determine how it will be setup and run. What entity will be responsible for the business of running the trains? The MBTA, Amtrak, another newly established managerial group?? Stakeholder feedback will be important to both of these newly established Commissions.
- It was noted that James Nee is the administrator of the MWRTA and was a former member of the WRTA Advisory Board. Mr. Nee and Mr. Lipka, WRTA Administrator plan to meet and speak further regarding further interaction between the two transit providers. There is the potential to include the future vision and any known details for interaction between the WRTA and the MWRTA in the new LRTP. SK commented that the VIA service has been very successful and that demand-response times are in the vicinity of 15-17 minutes. It is a good suburban model for others to potentially emulate.
- SK noted the increasing importance of regional trail networks. Trails have been gaining more attention in the communities of Berlin, Northborough, Shrewsbury and Westborough. The

BWALT effort has been ongoing and the town of Westborough has completed a feasibility study. Where will the trail connect on either end to the adjoining communities of, say, Shrewsbury and Southborough.

- Jason noted the quality-of-life aspects associated with the existing and envisioned bicycle and pedestrian facilities. State bond bill discussion ensued with the Berlin example for \$500K for development of that community's segment of the Central Mass Trail.
- Jeremy noted the need for "service centers" along the long-distance trails if they are to be used for commuting, utilitarian trips. Places where a flat tire can be repaired. Other examples exist elsewhere in the nation.

Stakeholder: Central Transportation Planning Staff (CTPS)

Meeting Details:

Date: September 22, 2022

Location: Virtual

Topic: Passenger and Freight Rail activities in the region

Attendance: Rydant (CMRPC), Sandy Johnson (CTPS)

- Sandy initially requested to speak earlier in the week as his colleague Jonathan Church had suggested he contact Rich Rydant to talk freight planning activities in the CMRPC region. He is considering various freight activities for the 2024 UPWP. Perhaps CMRPC and CTPS can conduct some type of study looking at trucking and truck parking along the I-495 beltway. He thought that the 495/MetroWest Partnership is interested in and would lend support to such a potential effort. Rich and Sandy will continue to periodically communicate determine what type of effort has the potential to proceed in the future program year. Rich notes that this could potentially blend with the Southeast subregion highway freight accommodation assessment study that will be pending in the future.
- The truck parking supply for long-distance truckers was discussed as well as the (possibly) near completion of the statewide MassDOT truck parking study that OTP is leading with contact person Makala Niles. It will be interesting to see where their analysis has led and where potential new parking could be located and constructed, potentially with the use of federal funds designated for this purpose through the BIL.
- Last-mile delivery and the proliferation of warehousing (Amazon and others) in the greater region was also discussed. Rich noted that at a recent statewide Transportation Program Manager's meeting the discussion occurred that perhaps the regions could compile the data concerning such developments in their respective areas so that the situation (traffic generation, popular local routes, safety, etc.) can be examined in a comprehensive manner on a statewide basis. Perhaps something can proceed in a joint fashion through the Manager's Group in coordination with MassDOT OTP.
- Sandy also asked for a contact at CSX. After the call, through email Rich provided Sandy with contact Maurice O'Connell, a regional vice president for CSX.

Stakeholder: Legislative Affairs Forum

Meeting Details:

Date: December 6th, 2022

Location: MassWildlife Headquarters, Westborough, MA

Topic: Transportation, Active Transportation, the East-West Rail Project

Attendance: Melad (CMRPC), Robichaud (CMRPC), Graxirena (CMRPC), Gemperline (CMRPC), Pierce (CMRPC), Settles (CMRPC), Jarvis (CRMPC), Rydant (CMRPC), Krasnecky (CMRPC)

- Andrew Golas introduces Yahaira and Rich
- Opens the floor to guests to speak on transportation infrastructure and how that affects the local economy
- Senator Eric Lesser introduces himself and discusses how rail has impacted Worcester
 - Explain why we need the EW rail
 - Affects communities across various counties and cities
 - The single biggest problem in the state currently is housing insecurity
 - This project would create thousands of new housing units that are accessible, walkable and convenient
 - Would take thousands of cars across the roads; Pioneer Valley is currently one of the worst places in the country for asthma
 - Job opportunities EW creates
 - Not having this rail exacerbates the racial equity issues in this state; connecting these three cities could help close the racial wealth gap
 - There is funding in the Biden Infrastructure program!
 - Overall, we need high-level, focused engagement
- Tim Murray discussing commuter rail and freight rail
 - Congratulates Senator Lessor on EW rail progress
 - Transportation transforms cities; Fordham, CT for example
 - He worked with Congressman McGovern to expand from 6 commuter rails to over 20 rails
 - Another example, how Union Station was transformed
 - o Increasing amount of affordable housing in Worcester
- Rich
 - Commends Senator and Tim
 - o Commuter rail in Worcester constantly growing and improving

- Center platform undergoing construction to accommodate a wider variety of passengers
- EW is the missing link as both Worcester County and Pioneer valley improve but are not connected
- MassDOT leading statewide long range transportation plan, Beyond Mobility
 - Under development, seeking input
 - EW rail should be mentioned among competing means
- Some projects we are doing on the regional level
 - Imagine 2050 built upon three Es
 - 2050 Connections multi-modal document
- Yahaira
 - Mentions there are many initiatives going on right now
 - Goes through 2050 Connections presentation
 - Overview of timeline
 - June 2023 draft release for public comments
 - Strategy
 - Planning, actors and implementation
 - The structure
 - i.e. major infra projects, such as EW rail
 - Public involvement
 - We want to move away from consulting and get to a place where our communities are our partners
 - Major elements for document
 - Multiple sources of data to determine priorities
 - Regional workshops
 - Survey
 - Scenarios
 - TD populations
 - Virtual public involvement
- Congressman Jim McGovern

- Thanks to CMRPC
- Worcester is constantly improving
- o These conversations help us envision what we can do in the absence of funding
- Biden's infrastructure bill is the single largest investment in public transit since Amtrack
 - We can utilize a new corridor development program
 - The language can enable DOT to have passenger rail takeoff
 - This is an opportunity to SOLVE problems... we have the money
 - Overriding message: to meet the moment, we must work in unison
 - Supporter of EW rail
- Andrew Golas and moving on to Q&A
 - The need to establish rail authority should be the first step

- What type of progress has been made to establish something like this?
- Congressman Mcgovern mentions that he and Congressman Neil and some members of Western Mass legislative delegation had a meeting with Governor Baker to discuss the topic of a rail authority
 - We need to apply for this funding, with or without the official authority
 - Whoever the next Governor is, needs to hit the ground running, as we are competing for funding with other states
- Senator Eric Lesser
 - Official rail authority is the way Massot prefers for us to apply for the money, but it is not the only way
 - Massot could apply for the funds on their own
 - Our calendar is up against the July 31 deadline, with some push back from legislators
 - We need a "double-tracking" effort
 - Efforts from legislative authorities to get this group set up
 - At the same time, we need to work collaboratively with MassDOT to get application out for the Bipartisan Infrastructure bill
 - Many states have a type of rail authority for applying for funding, but many do not
- Congressman McGovern
 - Thanks Senator Lesser for advocacy for EW rail
 - The money is in it, we need to ASK FOR IT
- Andrew Golas
 - Do we foresee expanding EW rail with a Charlie system or other infrastructure to connect even more towns that do not have direct access?
 - Rich answers examples such as shuttle service in Westboro that brings people to commuter rail funded by WRTA (Worcester Regional Transit Authority); happening elsewhere for the MBTA (Massachusetts Bay Transportation Authority)
 - Are there plans in the works to continue expanding programs adjacent to expanding regional transportation efforts, such as bike trail system?
 - Sen. Lesser absolutely; many of these projects are eligible for the AARPA money
 - We are also increasing environmental/sustainability project budgets
 - Lesser has experience connecting bike infrastructure in Western mass
 - CPA (Community Preservation Act) funds city and towns
 - o Tim Murray
 - Has experience working with local authorities to improve bike paths in Blackstone valley and surrounding areas
 - How the private sector can complement the public sector work
- McGovern

- Massachusetts is getting \$12 billion, aside from other funding we can apply for that is available nationwide
 - We need to set aside at least \$1 billion for this rail project
- Disappointed that we have not completed Blackstone Valley bikeway
 - This infra money and ARPA money needs to be used here, as well
- Andrew Golas
 - Elephant in the room question say we apply for the money now, what is the timeline for establishing the EW rail
 - Murray we need to be methodical between rail, freight, walkable/bikeable infra
 - McGovern time is of the essence; we need to ASK for this money, we cannot wait
 - Lesser authority is a red herring, focus needs to be on application
 - Impacts of zoning on this project?
 - Yahaira The idea of transportation related development is that the stations become nodes for connection and development
 - Zoning will affect people from housing to businesses
 - Murray recently out in Palmer, huge opportunity for development there
 - Union station is again an example of the importance of this revitalization
 - Lesser yes, we need to incorporate zoning in EW rail planning
 - Many of the stops are already properly zoned
 - For example, Springfield
- Andrew Golas
 - Can individual communities apply for these nationwide funds?
 - Murray that does not make sense, we need economies of scale
 - Yahaira these are for major projects, but will affect individual communities
- Thanks, and adjourned

Stakeholder: East Brookfield and Spencer Railroad & NEAG

Meeting Details:

Date: November 9th, 2022

Location: NEAG, Spencer, MA

Topic: Current & Future Site Operations

Attendance: Rydant (CMRPC), George Bell (NEAG), Kory Bryant (Railroad Manager)

- Rail giant CSX essentially requires that the EB&S RR needs to react to and be ready to receive trains of automotive carriers, sometimes late in the day, and quickly unload them and continue to get ready to return the empties the next day-essentially every day. CSX lack of true railroad freight schedule lamented.
- Major railroads will refuse certain freight through high pricing. In turn, the trucking industry will move the materials but this adds to the large and growing number of trucks on the nation's major highways.
- Rich went over a listing of nearby major highway projects that could impact the operations of the NEAG, mostly in a positive manner through increased safety and resiliency.
- Route 31 bridges (little NEAG site traffic turns north to Meadow Road & Route 31 to eventually get to I-190 through Holden in West Boylston (at the Sterling town line) destined for points north).
- Current and proposed future MassDOT Route 49 safety improvements discussed, including proposed mid-point roundabout at Putnam Road intersection.
- New modern roundabout at Route 9 and Route 49 expected to vastly improve safety at that location, greatly decreasing travel speeds through traffic calming measures.
- Route 9 repaying forthcoming in both Spencer and East Brookfield as well.
- Route 20 improvement work, both current and potential future, along the length of the highway between Auburn and Charlton and particularly Sturbridge discussed.
- Pan Am absorption in CSX. Not sure what will happen to future year distribution patterns. \$100 million needed (at least) to get notorious Pan Am trackage up to snuff. Rich mentioned the track work being conducted in the Sterling-Clinton-Lancaster area to increase train speeds while also safe guarding the Wachusett Reservoir property and adjacent watershed properties with the installation of continuous welded rail and other improvements.
- National railroad strike potential and railroad worker working conditions discussed. Railroad strike could happen due to harsh working conditions, health care concerns, and long times away from home and family.

- The incredibly high cost of new vehicles was lamented. Cars, trucks and SUVs requiring large payments of say \$1000 per month for 8 years as an example??
- Only small percentage of Electric Vehicles (EV) handled by the NEAG at this point compared to traditional combustion engine vehicles. Around 5%, certainly less than 10%.
- The producers have, at this time, numerous newly manufactured vehicles to ship. So many need to be moved to market, once they are complete and get their necessary computer chips for example.
- As such, the NEAG freight yard is as busy as ever, receiving 80-100 loaded railcars on the daily arriving trains, with no defined CSX schedule. Trains travel from the heartland where most vehicle manufacturing resides.
- Concerning the EJ community, the RR and the NEAG attempt to hire personnel from the immediate surrounding towns. Rich mentioned that Spencer has a defined EJ community. Long hours on a tough job, people need to take marijuana tests to meet the safety requirements of federal law and that has been a challenge as some people won't give it up to work there. However, at the end of the shift workers could be home with the family and not far away as is the case with other railroad jobs. Some EB&S RR staff hired away after getting all the training at the EB&S RR, taken by the big railroads CSX and GW. Perhaps there are more opportunities and larger pay but likely workers will be away from home more often.
- Mass Central RR steady, quiet; no resurrection of the North Brookfield branch anticipated as had been the case with earlier DB.

Stakeholder: General Public

Meeting Details:

Date: July 10th, 2023

Location: Virtual

Topic: 2050 Connections Draft Document & TIP (2023 - 2028) Amendment #8

Attendance: Krasnecky (CMRPC), Rydant (CMRPC), Krishnan (CMRPC), Graxirena (CMRPC), Jarvis (CMRPC), Ann Sullivan (MassDOT), Roberto Echevarria (RI Division of Statewide Planning), Liza Farr (RI Division of Statewide Planning), Senator Michael Moore, Scott Delaney

- Meeting begins at 5:04pm, Kevin welcomes all and explains the purpose of meeting today (LRTP and TIP)
- Reviews the proposed TIP amendment regarding the addition of the Community Transit Grant Program (FTA 5310) vehicle awards
 - Five awards
 - Will affect WRTA, Uxbridge, and Millville; includes acquiring replacement vans for WRTA
- Kevin passes it over to Yahaira for a LRTP presentation
 - Reviews each chapter of the LRTP
 - Introduction
 - Background scenario planning, planning factors, emphasis areas, resources
 - Linkages how transportation effects the region; how the region effects transportation; reference to the CMRPC Regional Plan, IMAGINE 2050
 - Planning areas, modes and related programmatic areas
 - Overview of modes and planning areas
 - Program and Projects Priorities how these turn in to studies, initiatives, and projects; overview of previous public meeting; overview of programmatic areas
 - Financial plan breakdown by five programmatic areas: system management and operations, transit support, climate change and resiliency, active transportation, major infrastructure projects
 - Air quality and Greenhouse Gas Assessment
 - Plugs participants to website where draft chapters are
- No public comments were made
- Sujatha plugs next MPO meeting (July 19) and end of public comment meeting (July 12)

Stakeholder: HNTB Consultants

Meeting Details:

Date: September 21, 2022

Location: Virtual

Topic: Passenger and Freight Rail activities in the region

Attendance: Rydant (CMRPC), Dennis Coffey (HNTB)

- CSX making \$100's of millions in improvements along the Pan Am network. Continuous welded
 rail being installed along the Worcester to Ayer mainline in vicinity of the Wachusett watershed.
 RJ Corman railroad contractors on the job. Some guardrail being installed in other places near
 the reservoir. MWRA had pointed out the need for additional safety precautions around the
 reservoir.
- Check out the CSX application for the Pan Am merger. It has an appendix that details the operations of CSX before and after the acquisition. NS freight will be going through Clinton in the future.
- Relayed the G&W, P&W recent interaction and learning about the number of trains on the mainline between Worcester and Providence on a weekly basis, about 20. Average train lengths estimated at 20-30 railcars on average. Based on inquires to both the GU RR's John DeWaele and ICI's Steve Cotrone. G&W Chris Guzzi had passed me to two others on staff that were inattentive to the request, that RAR later estimated.
- Governance of the East West Passenger Rail initiative needs to be decided by the new Commission that was established as part of the recently passed state transportation bond bill. An excellent example is Northern New England Passenger Rail Association between Boston and Portland, Maine and beyond. The same will hold true concerning governance for the Northern Tier. It was suggested that a regional entity control such governance for the different lines, rather than a number of duplicate groups-that would perhaps be optimal but difficult to achieve. MassDOT would rather permit and oversee such service, as opposed to owning it. The costs can be covered by the selected operating authority. Also, Amtrak is essentially the only operator that can deal effectively with CSX (and NS) in regards to major initiatives.
- Rich talked about the "B" word. Billions. The high cost of passenger rail and need for long-term planning, infrastructure improvements, safety, equipment and operations. Major undertakings that need federal monies. The NNERI study was mentioned and the \$1-\$2-\$3 billion options-estimates that are now a number of years old. New service will take time to establish and will not likely initially serve all intermediary stops (although there being future potential).

Stakeholder: General Public

Meeting Details:

Date: May 31st, 2023

Location: Unum Building, Worcester

Topic: 2050 Connections Priorities

Attendance: Krishnan (CMRPC), Graxirena (CMRPC), Gemperline (CMRPC), Wriggins (CMRPC), Jarvis (CRMPC), Rydant (CMRPC), Krasnecky (CMRPC), Sangkagalo (CMRPC), Mellis (CMRPC), Ann Sullivan (MassDOT), Blaine Bershad (Sterling DPW), Alex Salcedo (MassBike), JoAnne Clarke (AARP), Brandon Avery (North Brookfield Planning Board), Daniel Shur (Westborough), Jared Grigg (Spencer), Joe Bellil, Councilor Adams (Worcester)

- After the presentation, Yahaira opens the floor to comments and questions
- Joanne (AARP Rep & Age-Friendly Advocate), mentions that she did not see any references to local walk audits in the presentation or the list of priorities
 - She affirms that walk audits provide crucial information related to accessibility, especially for those with disabilities
 - Specifically mentions Grove St and Lincoln St walk audit
 - Mentions that Sandy (A?), Meg Coffin, Stephanie Wick (AARP), and Liz Myska are all interested in continued participation in walk audits
 - (Yahaira mentions CMRPC's work with walk audits and Liz Myska & that accessibility is on our radar)
- Joanne also mentions she is concerned with electrification considering the rising cost of electricity
- Joanne also mentions being displeased with local transit's accessibility for folks with disabilities
- Brandon (N. Brookfield) discusses how the LRTP's plans arevery broad, but that needs for small towns such as N. Brookfield are very specific
 - He references needing experts to come to town to assess issues that local officials do not have the capacity to work with
 - Also mentions frustration with local and regional officials "coming and going" too often, causing a revolving door effect in terms of working relationships
- Daniel (Westborough) asks if CMRPC recommends funding sources to towns for projects even if CMRPC does not have the capacity to facilitate them on the town's behalf or if the town/project needs immediate funding
 - o (Sujatha explains difference between initiatives vs. Projects)

- Daniel also mentions that he works on the MP Implementation Team in Westborough and understands how all these projects progress slowly; he references constantly needed to updating zoning and that the public wants it all to be done overnight
- Joanne asks about ARPA funding availability
- Daniel mentions that Westborough is looking for some traffic counting, specifically on local bottlenecks
 - He also asks if CMRPC incorporates emerging technology into these traffic counts (Sujatha explains we do not have software engineers but that it is on our radar)
- Blaine (Via Zoom, Sterling DPW) asks about CMRPC's coordination process with other towns and the region at large; references wanting to see more "regional exploration"
 - Blaine also mentions that Sterling is in the process of updating undersize culverts
 - Mentions some frustrating with the state and sees a need for increased streamlining of both statewide and regional plans
 - (Sujatha discusses coordination with other regions and state; also references importance of active transportation and transit in the wake of covid in response to a previous comment)
- Jared (Spencer Rep) asks what has the biggest weight in determining the LRTP priorities
 - (Yahaira responds to this question explaining it is a combination of the many factors we overview in the presentation)
- Joanne, a user of mobility assistance (walker), mentions not feeling comfortable using transit/the bus since it is hard to get on/off bus and stops are in precarious locations and walking great distances is uncomfortable
 - She lives off of Burncoat St in Worcester
- Yahaira then explains interactive activity to attendees and attendees participate for 20 minutes or so
- Alex (MassBike) advocate for an increased focus on bicycle infrastructure
- Yahaira invites attendees to MPO meetings and explains a bit about MPO Advisory Board
 - o Both Joanne and Jared mention an interest in attending
 - Yahaira also mentions June 21st release of draft document
- Alex discusses how the e-bike program has changed her perspective on transportation and allowed for a new level of freedom
 - She is noticing positive changes in the City in terms of bike and ped infrastructure
 - Wishes to continue working with CMRPC
- Joanne promotes AARP walk and bike audit forms
- Baline notes that this meeting was uplifting

Stakeholder: MassBike

Meeting Details:

Date: Fall 2022

Location: Virtual

Topic: Active Transportation

Attendance: Graxirena (CMRPC), Jarvis (CMRPC), Salcedo (MassBike)

- What are the existing conditions/status of transportation in the City?
 - o Limited bicycle accommodations
 - Good examples of areas to bike in the city:
 - Canal District
 - Lake Avenue & around Quinsigamond Lake
 - o E-Bike pilot exposing vulnerable areas in the city that need better accommodations
 - Neighborhood streets lend themselves as better avenues for bike riding
- What are some current challenges/issues with transportation? (1-2)
 - Areas of concern identified through e-bike pilot:
 - MA-9
 - Shrewsbury near White City
 - Belmont Street
 - Highland Street
 - Some roads in the city are very wide and/or have multiple lanes that could be better utilized:
 - o Mill Street
 - Portions of Park Ave
 - MA-122: east-west connection to the City and rural communities in western part of region
 - Downtown in disconnected and hard to navigate as a bicyclist
 - I-290 and rail road overpasses create pinch points near downtown where separated facilities between bikes and cars may not be possible
 - Need to channel bike activity in one or two locations and use heavy signage to make it safer to use
- What is your vision for the future? (What projects, programs, or initiatives should be considered that would help bring this vision to life?)

- There needs to be a focus to finish the regional trail network while also seizing opportunities as resurfacing & other road projects are happening on-road
- Prioritize low-hanging fruit connections in and out of the city (bridge to Shrewsbury)
- City-wide bike parking
- Focus multi-modal connections to job centers (business districts, schools, etc.)
- Given reasonably anticipated funding (public and private) what are the identified priorities for the future given financial constraints?
 - Policy or ordinance for new developments/developers to comply with city Complete Streets policy (bike/ped accommodations)
 - Public education about the importance of multi-modal infrastructure and land acquisition for trails and bike lanes
 - City-wide bike parking
 - Building out the bike network in the City of Worcester and surrounding communities (on and off road)

Stakeholder: MassDOT Highway Division Districts #2 & #3 & MassDOT Office of Transportation Planning (OTP)

Meeting Details:

Date: November 15th, 2022

Location: Virtual

Topic: 2050 Connections

Attendance: Rydant (CMRPC), Graxirena (CMRPC), Krasnecky (CMRPC), Krishnan (CMRPC), Amaral (MassDOT), Lorion (MassDOT), Sullivan (MassDOT), Bradbury (MassDOT), Klem (MassDOT OTP), Krevat (MassDOT OTP)

- Sujatha provided an overview for the meeting, particularly targeting MassDOT priorities as there
 are numerous identified needs from both the recent public process and earlier LRTP efforts.
 CMMPO staff is looking to verify MI projects in the current plan and what time parameters they
 may either remain or must move due to financial constraint.
- Long-awaited New Braintree project for Ravine Road and Central Turnpike should be advertised 5/20/23. Two design paths, one roadway and another for the project's two major culverts. April 2023 PS&E anticipated D-2 staff indicated.
- Ann Sullivan noted that the town of Princeton did contact District #3 regarding a possible project on the northern part of Route 140 towards Westminster. The current design they discussed would likely not move forward. As for the Blackstone Bikeway project, District #3 has not received any updates from DCR regarding the redesigning of the project according to MassDOT guidelines. In regards to the Route 9 (Phase III) project in West Brookfield, Daryl Amaral said there is no status update and the project does not currently have an advertising date. Sujatha noted that the town was not awarded a MassWorks grant for funding the design of the project.
- Ann Sullivan indicated that 25% design for Route 20 in Shrewsbury is due 6/2023. At that time more will be known concerning the estimated cost as compared to the monies available on the TIP. FY 2026 programming seems adequate, at least at this time.
- Sujatha and Rich inquired about the status of the I-495 Interchange with Route 9. A known priority, when will funding be identified? Barry Lorion commented that it will be dictated/based on the condition of the bridges and when in fact they will need to be replaced. Not beyond the conceptual plan ("braided ramps") that was included in the earlier planning study (*RAR had participated on the technical advisory group established for that study effort*). It will be determined if the 2025-2029 band is still reasonable for this MI project.

- It was generally agreed that the "super" signalized intersection of Route 146 and Boston Road in Sutton will in fact reach a point where volumes will overwhelm the signal, thus necessitating the need for grade separation that has long been envisioned for this location, the last traffic signal on the Massachusetts stretch of the roadway. RI is currently working to eliminate the last signal in that state along Route 146 in North Smithfield. In calendar 2023, Barry indicated that MassDOT will have a consultant conduct a planning study on that segment of Route 146 to determine the likely future year timing for grade separation.
- Continuing to look at the MI bands from the current LRTP, US Route 20 through Charlton City was brought up and the lane drop that contributes to congested conditions at this location, especially when the MassPike has issues and traffic diverts to the essentially parallel US Route 20 corridor. Barry indicated that widening of the Pike between I-84 and I-290/I-395 is *not* an item of discussion at this time. Improvements can be made at the Auburn interchange from I-290 westbound to I-90 westbound where five lanes drop to three and can lead to miles of congestion.
- MassDOT is having a consultant look at the section of US Route 20 between Route 49 and I-84 interchange. One would anticipate a set of suggested recommendations from such an effort.
 Back to Charlton City, perhaps traffic signal modification as lane reassignments could alleviate congestion through that bottleneck.
- In Northborough, the bridge condition at the US Route 20/Route 9 interchange will similarly dictate when that structure should be replaced. It won't be replaced simply due to existing (and documented) capacity constraints. Elsewhere, D-3 hasn't been approached by Westborough about the Route 9/Route 135 interchange. In Worcester, the interchange of US Route 20 with Route 122 has been a long-awaited project (redesigns were considered as early as 2003) that will need to be addressed. The site is constrained and would require fairly significant land takings. This would provide for an improved four-lane cross-section for Route 20 and alleviate reoccurring flooding. The proximity of the MBTA bridge is also an identified, significant constraint. The project will be costly as well, in the tens of millions of dollars.
- D-3 is interested in the segment of Route 9 in Shrewsbury and Westborough and what future improvements may be warranted. Not so concerned about the remaining two lane segments of US Route 20 in Auburn. Major project commencing in Oxford/Charlton on US Route 20. The "missing link" on Route 20, that segment which hasn't received a lot of attention in comparison to others, is the segment between Route 169 and Route 49 where a number of tremendous warehouses are being built and will eventually come on-line generating huge truck volumes. Sujatha had commented that still other warehouses are closing in different places, so that the overall trip distribution will continue to both grow and shift. Sujatha mentioned, in response to inquiry from Ann, that it would likely be an OTP-led effort with the regions participating to assess the overall impacts from the distribution centers on a statewide basis the respective trip generation and distribution. Impacts could then be assessed and mitigation solutions formularized. Sujatha mentioned the work CMRPC staff conducted for Northborough officials to assess the impacts of an Amazon warehouse in that host community in the Bartlett Street area of town.

Stakeholder: Regional Environmental Stakeholders

Meeting Details:

Date: November 18, 2022

Location: Virtual

Topic: Regional Sustainability for Transportation Planning and 2050 Connections

Attendance: Rydant (CMRPC), Graxirena (CMRPC), Blais (CMRPC), Krasnecky (CMRPC), Jarvis (CMRPC), Phil Gott (Town of Princeton, Environmental Action Committee), Christine Tosti (WRTA User, Advocate for Individuals with Disabilities), JoAnne Kasper-Dunne (MassDEP)

- On the morning of Friday, November 18th, five CMRPC Transportation staff members met with three Environmental Stakeholders to discuss the Long-Range Transportation Plan (LRTP) and ways to make the plan more sustainable and overall, more environmentally conscious. The transportation staff members in attendance included Yahaira Graxirena, Rich Rydant, Kevin Krasnecky, Zachary Blais, and Greer Jarvis. The Environmental Stakeholders in attendance included Massachusetts DEP's JoAnne Kasper-Dunne, the town of Princeton's Environmental Action Committee's Phil Gott, and former Regional Environmental Council's staff member Christine Tosti.
- At 10:05 a.m., attendees of this virtual zoom meeting conducted round-robin introductions, which was promptly followed by the CMRPC's LRTP presentation. CMRPC's Rich Rydant led everyone through a brief overview of the CMRPC's work and relevant region, as well as our two long-range projects that are currently in the works, Imagine 2050 and the LRTP, 2050 Connections. Moreover, Rydant went into more detail about the purpose and development of 2050 Connections.
- Next in the presentation, Yahaira Graxirena overviewed the different modes of transportation and planning areas that are taken into consideration under the LRTP. Graxirena went into further detail about each of the five designated planning areas: safety planning, congestion management, asset management, emerging technologies, and environmental planning.
- Before 10:30 a.m., Zack Blais began presenting about the work CMRPC does to address climate change. Specifically, Blais outlined how changing weather patterns, like rising temperatures and heavy rain, affect our roadways. Blais then highlighted some of the work that is done to combat these challenges, like CMRPC's Culvert Assessment Program and other methods for stormwater management, environmental consultation, and the MVP (Municipal Vulnerability Preparedness) Grant Programs. Blais also mentioned CMRPC's decarbonization efforts, especially through the implementation of electric vehicle charging stations.

- Finally, Kevin Krasnecky presented information about the Transportation Improvement Program (TIP), the funding program that specifically addresses Congestion Mitigation and Air Quality (CMAQ). Krasnecky overviewed the projects from the past five years that CMRPC has helped obtain funding for through the TIP and how communities may become eligible for this type of funding. Furthermore, Krasnecky summarized the other funding sources for environmentally related transportation projects, such as the Bipartisan Infrastructure Law (BIL) and Statewide funding programs, like MassDOT's Complete Streets.
- At 10:45 a.m., CMRPC Transportation Staff concluded their presentation and began the open discussion portion of the meeting. Greer Jarvis asked the stakeholders three different questions to prompt a variety of conversations and potential feedback. The first question Jarvis asked attendees was "what is the most pressing environmental issue or challenge related to transportation today?" To this question, Christine Tosti replied that as a frequent user of the WRTA, she does not think that the way the buses come in, park, and depart from the station is very efficient. She said that she finds herself watching buses loop around the station various times just to pull into a spot that had already been available. JoAnne Kasper-Dunne added that there is a lack of connectivity across the region in terms of public transit, and that if we really want people to give up their cars, we must make it convenient for them to do so. Later, Phil Gott mentioned that inconsistent transit schedules in different communities throughout the region further deters ridership.
- Moreover, Kasper-Dunne mentioned that sidewalks where she lives in West Boylston have been destroyed through the process of sewer maintenance, and that she notices unsuitable sidewalks in other communities, as well. Tosti added to this discussion that poor sidewalk conditions make them inaccessible to wheelchair users and others who live with disabilities. Furthermore, these attendees would like to see vast infrastructure improvements, specifically for pedestrians, bus stops, and even the internet. Phil Gott mentioned that publicly accessible electric bicycles would be beneficial in his town, Princeton, and potentially many other communities, as well as investing in more modern internet infrastructure.
- The next question Jarvis posed to the group was "Do you have an environmental project, service or study that you would like to pursue to improve transportation if the financial resources became available?" In response to this question, Gott brought up the point that his town, Princeton, does not have enough people or time to carry-out the requirements for some of the available funding opportunities, such as Green Communities and MVP. In fact, when pursuing the MVP funding for Princeton, the project management costs exceeded the cost of the entire project. He would like to see these opportunities become even more accessible, especially for smaller communities like Princeton.
- Tosti circled back to the original question and mentioned she is interested in how much people are benefiting from the fare-free WRTA and how much that has changed its ridership. Krasnecky responded to this question, saying ridership has gone back up to pre-pandemic level. Tosti also mentioned she would love to see more electric buses with the WRTA.
- Kasper-Dunne brought up the point that although decarbonization is important, people are not going to be interested in coming into Worcester if there is nowhere to park. Gott mentioned

that he noticed there is only parking available in downtown Worcester, and that parking is arduous surrounding downtown. Gott believes this has a negative impact on bus ridership, as people would rather park on the outside of the city and bus in than vice versa.

- Lastly, Jarvis asked attendees "what is your transportation-related environmental big idea?" To
 this, Kasper-Dunne promptly responded that she would like to see trains used more to transport
 people as well as goods. Gott echoed this statement, saying rail is the most efficient method of
 transportation, when the rail is loaded to capacity. Tosti added that she would like to see service
 animals be more accommodated for on public transit, as unwelcoming transit employees deter a
 lot of riders who use public transit as their main mode of transportation.
- At 11:07 a.m., the open discussion wrapped up and CMRPC staff thanked their stakeholders. The stakeholders were also invited to attend the CMRPC Legislative Affairs Forum on December 6th to talk specifically about trails.

Stakeholder: RH White Construction Company

Meeting Details:

Date: July 27, 2022

Location: Virtual

Topic: Regional Economic Development & Transportation Planning

Attendance: Rydant (CMRPC), Pierce (CMRPC), Salwa (CMRPC), Devaney (RH White), Towle (RH White), McCarthy (RH White)

- Jim McCarthy is president and CEO of the RH White Company. He began the meeting noting the company's attention to safety-on the job and at the home, etc. Use of seat belts being an example. Another, taking proper precautions when working in extreme heat.
- Considered a "discovery meeting as they meet with other agencies in the greater region. This is the fourth generation that is running the company presently. They are looking out so that the company last another 100 years by evolving for the needs of the customer. They are interested in what infrastructure needs that they can help implement in the coming years.
- Staff emphasized that the CMMPO's LRTP looks well into the future: 25 years plus. Earlier LRTPs sought improvements for the US Route 20 corridor (Auburn, Charlton, Oxford, Shrewsbury) that are now being implemented over 40 years later. CMRPC staff also provided a brief overview of the CMMPO purpose and structure.
- Kerrie spoke on a range of topics and Janet Pierce noted the Municipal Vulnerability Preparedness (MVP) program and the need for the communities to identify and prioritized needs for resiliency, etc. The proliferation of EVs was also mentioned and the CMRPC "dashboard" regarding same was noted.
- Rich noted the "Highway Freight Accommodation Assessment" study series that staff has embarked on and continues to conduct throughout the region n a systematic manner. Two are complete and another is pending at this time. Parking for large commercial vehicles is a concern that needs to be addressed in this consuming part of the nation.
- Freight rail was also mentioned. RH White had worked with the Grafton & Upton Railroad to construct an intermodal facility for the railroad as summarized on one of the attached "Project Sheets". Rich noted that CSX plans \$100's of millions of improvements along the recently acquired Pan Am Railways network in Massachusetts, New Hampshire, New York and Maine.
- **RICH R**: Perhaps seeking an update of the 2015-ish review of industrial sites that could be serviced by CSX last-mile delivery services, based out of the Worcester Franklin Street Intermodal Facility. This earlier effort received funding from the WRCC with the oversight of

both Director Pierce and Chamber President Tim Murray. (An envisioned phase 2 was never pursued due to funding constraints.)

Stakeholder: Town of Rutland Select Board

Meeting Details:

Date: November 1st, 2022

Location: Town Library, Rutland, MA

Topic: Transportation & Regional Infrastructure

Attendance: Rydant (CMRPC), Trevor (CMRPC), Pierce (CMRPC), Rutland Select Board members, other town officials and employees

- Concerns about safety on most state, or MassDOT maintained highways, particularly the intersection of Route 122A and Pleasantdale Road.
- Noted were the number and length of gravel roads ten miles in Rutland and the northern part
 of the region and the associated impact on transportation policy *not listed in the presentation*.
 The gravel roads are used by school buses.
- Concerns about the lack of EV charging stations in Rutland and the resulting impacts on sustainability and resiliency towards future local energy policy. Range anxiety was raised as a concern. Where will the charging stations be installed? Businesses, farms, Rail Trail parking areas??
- Recurring mention of the non-existence of the once envisioned Route 49 extension between Spencer and Gardner, which may have resulted in a lack of interconnectivity between the rural small towns in this part of the planning region. Large trucks use the secondary roads seeking more direct routing.
- Town engineer Joe Buckley indicated that MassDOT is slow to respond to town concerns on the state-owned and maintained highways in the community. Further, the town, as indicated by Joe Buckley, has a number of hired consultants conducting different tasks and providing a range of services to the town. RSA at Route 122A/Pleasantdale Road mentioned.
- A major infrastructure concern that probably needs more discussion is the eventual maximum capacity of the sewer line from Rutland through Holden and into Worcester. It will reach maximum capacity eventually and the relationship between the town and the city is tense when it comes to sewer issues and the overall capacity of the regional sewage treatment plant.
- Rich went through the presentation of the LRTP and asked the Board members to identify any needs and/or programs that had not been mentioned and/or would be a local priority for consideration in the development of the LRTP document.

- Perhaps public transit shuttle service from Rutland to events in the city of Worcester (example of the Canal District) would be beneficial for a range of reasons. Look into the potential for Micro-transit to Worcester.
- Rail trail implementation and growth in usage in the area was noted. (Long-term investment of time and labor by the Wachusett Greenways group.)
- Route 56 TIP project mentioned, need for signal at Route 122A/Route 56 southern intersection lamented. Perhaps opportunity for future modern roundabout. Staff looked at northern Route 122A/Route 56 intersection a number of years ago. Flashing beacon reinstalled at that time. Still location of concern of local officials due to the restricted sight distance due to highway grades at the top of the hill.

Stakeholder: WalkBike Worcester

Meeting Details:

Date: Fall 2022

Location: Virtual

Topic: Active Transportation & 2050 Connections

Attendance: Graxirena (CMRPC), Jarvis (CMRPC), Karin Valentine Goins (WalkBike)

- Concerns about safety on most state, or MassDOT maintained highways, particularly the intersection of Route 122A and Pleasantdale Road.
- Noted were the number and length of gravel roads ten miles in Rutland and the northern part
 of the region and the associated impact on transportation policy *not listed in the presentation*.
 The gravel roads are used by school buses.
- Concerns about the lack of EV charging stations in Rutland and the resulting impacts on sustainability and resiliency towards future local energy policy. Range anxiety was raised as a concern. Where will the charging stations be installed? Businesses, farms, Rail Trail parking areas??
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Stakeholder: Worcester Accessibility Commission

Meeting Details:

Date: Fall 2022

Location: Virtual

Topic: Accessibility & 2050 Connections

Attendance: Graxirena (CMRPC), Worcester Accessibility Commission Members

- What are the existing conditions/status of accessible transportation in the City? Are there areas that represent good examples of ADA compliance? What areas are the worst?
 - WRTA notoriously late
 - No paratransit transfers between RTA's (i.e., between WRTA and MWRTA)
 - Accessibility applications (Blind Access & TAP Access) are a barrier for transit users including for use of the MBTA train, and transferring between RTA's
 - Multiple applications for each RTA
 - Poor sidewalks throughout the City
 - Chandler Street to Park Ave
 - Lacks walkability (dichotomy between drivers & walkers not safe for pedestrians)
 - Inconsistency in the pedestrian network and pedestrian facilities (HAWK, RRFB's some don't work or do not have sound, etc.)
- What are some current challenges/issues with transportation accessibility? (1-2)
 - Need 1 paratransit application for the entire state, for all transportation
 - Universal transportation car similar to a handicap placard that can be transferable between RTA's and transit modes
 - Greater security presence on T
 - Need for a statewide transportation service with no boundaries that better accommodates ADA needs
 - Home health aides would benefit from a transportation voucher to get to their clients especially when public transportation is not available.
 - Traveling by air is difficult for people with disabilities. Airports and airlines need to be more sensitive to the needs.
- What is your vision for the future? (What projects, programs, or initiatives should be considered that would help bring this vision to life?)
 - RIDE (Gloucester -> Brockton)
 - Continue fare-free in WRTA

- Phoenix Arizona walkability & smart growth for a connected a walkable environment (example)
- Given reasonably anticipated funding (public and private) what are the identified priorities for the future given financial constraints?
- Restructuring of the RTA's
- \circ $\;$ Statewide comprehensive transit network that greater ADA accommodations $\;$

Stakeholder: Worcester Department of Public Works & Parks

Meeting Details:

Date: August 5th, 2022

Location: Worcester DPW Conference Room

Topic: Infrastructure & 2050 Connections, TIP, and other regional efforts

Attendance: Rydant (CMRPC), Graxirena (CMRPC), Krishnan (CMRPC), Krasnecky (CMRPC), Salwa (CMRPC), Jay Fink (City of Worcester), Steve Rolle (City of Worcester), and other municipal officials

- SK covered regional partnerships and efforts. It was noted that Steve Rolle will lead the City's new Mobility & Transportation Department.
- The underway Worcester City Master Plan effort was noted along with the currently underway MassDOT "Beyond Mobility" statewide transportation plan development effort. Equity noted as an integral part of the long-range planning process.
- Rich read off a listing of communities in the region that have either pending or potential TIP projects that the CMMPO could consider for programming during the next TIP funding round. He encouraged the city to consider potential TIP projects that could both utilize available, increased future year funding but also fill potential voids of unencumbered funding in earlier years if the city has the ability to move rapidly. The Route 12 example in Auburn when Bill was town engineer was referenced.
- Mill Street multi-faceted effort envisioned. Roadway narrowing for traffic calming and the construction of a parallel multi-use pathway within the existing, wide right-of-way. Lengthy section of roadway, would be costly project.
- Rich also mentioned if there are any potential study corridors in the city where a Corridor Profile style study could be useful, with the Southbridge Street effort being referenced.
- The City's new Mobility & Transportation Department will work in planning, project development, and parking.
- CMRPC can broker a meeting with MassDOT and the City of Worcester twice a year to go over the status of projects.
- Potential trail connectivity with the established Wachusett Greenways network to the north.
- The following potential projects were noted by the group:
 - Mill Street corridor new concept for developing the area, pavement reconstruction, green infrastructure, recreation & open space, and bicycle lanes.
 - US Route 20 in Worcester potential Major Infrastructure project.

- Vernon Street bridge replacement over I-290. The BIL-generated Reconnecting Communities effort was noted and the city is ready to participate in potentially gaining federal design dollars for this critical linkage.
- Safety issues were noted involving vehicle crashes at Southbridge Street and the Worcester Fire Department Station; also, vehicle crashes along Lake Avenue adjacent to UMass and Lake Quinsigamond.

Stakeholder: General Public

Meeting Details:

Date: October 5th, 2022

Location: WRTA Hub at Union Station

Topic: Public Transit & 2050 Connections

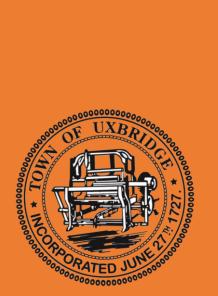
Attendance: Rydant (CMRPC), Sangkagalo (CMRPC), Mellis (CMRPC)

- A number of persons took the paper survey and said they would drop it off at the customer service desk when complete-Nahrin will check with Nick B to see if any had been subsequently turned in.
- Person approached indicated only use service once a week and indicated that it has been "fine" for the limited usage.
- Man took an English language paper survey.
- Person scanned the English language survey code.
- Person took a Spanish language paper survey.
- Person suggested that people would pay 50 cents a ride for a cleaner and safer bus system. The buses are not hygienic and are dirty. In 12 years as a rider this person has observed much on the system. Usually, no trouble with the drivers or other passengers. The Hub has throw up and is unclean. Bacteria was mentioned. New users don't appear to be as respectful of the buses.
- I have sat in pee a number of times.
- "No Complains," said this person.
- The 26 is on time. The operator will drive by you frequently. 23 & 26 both drive by me, especially on Sundays (a person with disabilities and in a motorized wheelchair). By no charging a fare, "riff raff" now ride the buses. (Editor: When asked where he was bypassed, staff suspected in the area of Hahnemann Hospital.)
- Person took the paper survey in the English language.
- When asked how to improve the bus service, this person indicated "no comment".
- Opiate addict overdoses in the Hub bathrooms, now closed as is the inside waiting area. The WRTA has a challenge with the potential for death, vandalism, and over all Hub safety. There are no camaras in the Hub area. The police are over at Union Station, not here at the Hub. There are cameras on the buses that could be viewed if there is an incident but it appears that may often not be the case when something happens. Bus 12 was given as an example.
- Same person continued, the starter in the booth is of little help. There are arguments between the drivers and the customers. The drivers will "blow right by you". The recordings could be

used as evidence. Leadership should realize that the service is for the customers. *(Editor: RAR recollected FTA training video that focused on calming tense customers and situations beyond driver & passenger control).* The driver's job is to serve the customers. What are the applicable laws? Worcester calls itself a city but it is just "Big Town". Homelessness is a problem. There must be 1200-1300 persons camping in a tent city off of Lincoln Street. You don't hear about that. They build a stadium for \$33 million that can only be used 8 months of the year. The city has to pay all the maintenance and the electricity. Communication is key. Stadium versus homelessness. Net of Compassion service in the city noted and complimented. The officials need to be embarrassed on TV to bring about change. Teen pregnancy was also mentioned in some context. *(Editor: Talked for about 15 minutes at least.)*

- Bus cancellations noted as an issue by this person. Route 56 (?) mentioned. Middle of day, Chandler Street and back. One bus should be along that stretch instead of 5 or 6 buses all bunched up inefficiently.
- This person wanted a clean bathroom available at the Hub. The person wanted the cops to arrive when called. They also wanted face masks available in the bathrooms (if open) or elsewhere as they think that masks will again be mandatory on transit with another COVID outbreak.
- "Can the drivers wait for the passengers to be seated before taking off at 100 MPH??"
- Stabbing on bus on Route 26. Route 23 also mentioned. The drivers miss stops on these routes. The person in a wheelchair indicated that they essentially can't move quickly.
- "One needs to use the Union Station bathrooms that are a walk back and forth and then one risks missing the bus and then having to wait for 30-40 minutes in the cold with a child. Ridiculous."
- Too many persons "hanging out" at the Hub.
- Better indoor waiting facilities are necessary.
- Drivers "slam the door and drive by" waiting passengers.
- Staff observed a man plodding through the Hub indicating that the driver "took off". He yelled profanities that he was upset (PO-ed), the "F-ing WRTA" and the at the "busses suck". Later returning, surprising calm, he told staff that the buses need to run every 15 minutes in the city for the service to be meaningful and used more.
- Drivers will not wait at the stop even if they see you in the mirror struggling to get to the bus and motioning/waving to please wait.
- Route 14 operator accused of driving by waiting passenger at bus stop indicated by this person.
- This person indicated that they would like the service kept free but they should also hire more drivers.
- Why (was it observed by this person that there) were three (3) buses stacked up on Burncoat Street?? (Editor: Headways and interlined routes were noted to this person.) This woman indicated that there are discrepancies between the printed schedules and the actual timing of bus service-sometimes they don't match.
- The climate control in the buses should be sensitive to the prevailing weather-often times too hot in the buses.

- Person liked fare free service and asked when that will end. (Editor: Next June 2023 perhaps.)
- The interlined fixed bus routes along Worcester's South Main Street were noted. In the middle of the winter and then say there is a blizzard. "Management sucks." No one can find out the location of where Bus 10 is?? Turned out that it was broken down. The send another one-"can't do that" was the response. What is the alternative when a bus is cancelled and passengers are waiting for a bus that isn't going to show up??
- The technology in electronic communications should allow the drivers to speak with the dispatchers and address/answer customer inquiries. Has the vehicle broken down? When will another be along?
- This person indicated buses queued at the Hub and there being no drivers to operate them. How many people are assigned to customer service was questioned?? Management and workers??
- Lack of seating at the Hub is problematic.
- Hub is "now isolated". No Dunkin Donuts no more. They vacated and left dangerous hanging wires where they were located. When the bathrooms were open, they would close at 8 PM. Service goes until 11 PM? It's cold outside. The Hub has an internal waiting room that is locked-a shelter that can't be used. This person worked food service on the Southbridge finger route. 5 AM to 12 PM. Poor schedule in order to work a full shift.



TOWN OF UXBRIDGE

TRANSPORTATION ROUNDTABLE FINDINGS REPORT





OVERVIEW

On Tuesday September 13, 2022 a Roundtable meeting involving all Town Department Heads and staff members of the Central Massachusetts Regional Planning Commission (CMRPC) was held. The people that participated included:

Town

Michael Baldassarre	Tom Dion	Jessica Messer
Schools	Fire	Treasurer/Collector
Matthew Bobola	Joe Fitzpatrick	Ken O'Brien
Accountant	Building	Assessor
Carl Bradshaw	Michael Gallerani	Emily Petro
Veterans Services	EDCP	Conservation
Bruce Burak	Erin Hightower	Chris Powloka
Facilities	Health	Library
Timothy Burke	Paul Hutnak	Benn Sherman
Police	DPW	DPW
CMRPC		
Yahaira Graxirena Sujatha Krishnan Connie Mellis	Janet Pierce Faye Rhault Connor Robichaud	Richard Rydant Trish Settles

The Roundtable served as the precursor for a Regional Transportation and Infrastructure Planning meeting scheduled for Thursday September 27, 2022. The meeting, to be hosted by the staff of CMRC (many of whom participated in the subject Roundtable) will shape the agenda for State and Federal funding programs.

The following Findings report will speak to the discussions and observations from the Roundtable. They are in no particular order, and have been segregated according to function (Senior Services, infrastructure, local transportation, etc.

TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

TRANSPORTATION ROUNDTABLE FINDINGS REPORT

TRANSPORTATION

COMMUNITY TRANSPORTATION

There is a need for an inter-modal transportation hub that can service the needs of seniors, youth, Veterans, and others with limited transportation options. Such a hub would offer EV charging stations, bike racks and lockers, shared bikes, access to the proposed bike trail and in close proximity to Main Street.

Ideally a portion of the proposed Municipal Campus parking area could be designated as well as in the core Main Street area (21 South Main, the would be former Senior center, or the Public Library).

EV CHARGING STATIONS

MA Dot continues to develop regulations; CMRPC will keep the Town informed of regulations and subsequent changes.

Research needs to be conducted regarding local bylaws that govern public access EV Stations.

The Town will draft a policy and procedure regarding the siting of EV Stations at public buildings and as part of public (Town-owned) parking areas.

SENIOR SERVICES

Senior Center/Council on Aging needs to develop a strategy for expanding transportation services, especially for individuals with disabilities. The Town's age 55 plus population is projected to continue to grow, reaching 70% by mid-century (2050). In comparison, the national average (of 55 +) is projected (in 2050) to be 27%.

VETERANS

There is a need for transportation services for Veterans to and from medical appointments in Worcester. The Town of Blackstone is seeking a similar service – the possibility for a regional approach exists. Tri-Valley provides mobility management for the towns of Grafton, Hopedale, Mendon and Blackstone.

UPDATE: Veterans Services Director Carl Bradshaw, confirmed with Tri-Valley that they will provide transportation to Uxbridge Veterans. Under the new contract with DVS, they have contracted with two companies to provide the transportation.

TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

TRANSPORTATION ROUNDTABLE FINDINGS REPORT

SCHOOLS

Safe Routes to Schools – a sidewalk program must be developed and enforced.

Vendetti Transportation is under contract agreement with the Uxbridge Public Schools To provide student transportation.

What is needed to transport students from UHS to the Public Library each day (or designated days)?

The lack of sidewalks along Quaker Highway are an issue. A serious accident involving a UHS student occurred during the past year.

A traffic bottleneck occurs during morning and afternoon in the rea of UHS. In addition, the school traffic needs to be addressed in the Emergency Evacuation Plan.

A question was raised about the possibility of developing a helipad at the High School for Emergency Medical Services. The current logistics precludes such development.

The emergency egress and public safety access at UHS scenario was raised. CMRPC will work with the School Department and Public Safety to develop a strategy for the development of a roadway at the rear of the property that can provide for students and staff egress as well as emergency vehicle access.

Bike Trail

CMRPC will provide data that is needed to create an overview and strategy for the proposed Bike Trail. It is suggested that Bob Contursi reach out to Dani at CMRPC to coordinate.

BIKE LANES

There is an ongoing issue with the North Main Street Bike Lanes, specifically in the area of Hannaford's. Collisions have occurred.

TRUCK TRAFFIC

The growing volume of large commercial truck traffic, particularly along the Main Street corridor is an issue. The impacts on traffic, noise, and the overall sense of place of Main Street, particularly the core area needs to be addressed.

- GPS companies are routing trucks through the Main Street; alternative routes do exist.
- Trucks have an issue at the North and South Main Streets intersection with Douglas Street due to the offset.

TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

- The truck traffic data (for Uxbridge) needs to be reviewed.
- Tolls in Rhode Island are resulting in trucks seeking alternative routes that bring them through Uxbridge.

A few days after this meeting, the Rhode Island tolls were handed a staggering defeat in Federal Court. According to an article in the Providence Journal dated Sept 21, 2022, the system was essentially ruled as unconstitutional. RIDOT has covered all of the signage near the toll systems. The incentive for trucks to jump off Route 146 to avoid tolls has been removed.

• The level of truck traffic and the trucks queuing up on Route 146 has become problematic.

The Uxbridge Police Department addressed the situation by requesting that the weigh station be opened for the trucks in order to relieve the pressure and unsafe conditions.

• There is no facilities or amenities (rest rooms, food, etc.) for truck drivers.

TRAFFIC (IN GENERAL)

There is an increase in traffic of all types due to the new normal following the pandemic. Route 146 is especially heavily travelled.

MUNICIPAL FLEET

The Town needs to develop a strategy to transition the Town vehicle fleet to all or nearall electric by a time certain.

The Town's Inspectional Services (particularly the Board of Health) needs a dedicated vehicle to move equipment and supplies.

RAILROAD

Explore the possibilities of the rail to Providence be used as a "commuter" rail. Currently the rail is used three times per day.

General

There is a need for all abilities transportation for people to get to and from medical facilities and clinics.

TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

REGIONAL TRANSPORTATION MEETING

Uxbridge could host a regional transportation for the Blackstone Valley communities in order to explore potential collaborations, inter-community transportation systems, strategies for EV stations, and the ongoing and growing issue of truck traffic.

Congressman McGovern and the State delegation, as well as MA Dot will be invited to participate.

TRANSPORTATION SURVEY

The Town may conduct a survey of local residents to gauge the interest in a local transportation system/service, as well as seeking input regarding other transportation related matters. A tax bill (December) insert will serve to inform residents and direct them to the survey, which will be available electronically.

INFRASTRUCTURE

BLACKSTONE PEDESTRIAN BRIDGE

Estimated cost: \$10 million. Status: Design phase Agency: DCR Issues: Trail should be included in the SCORP. Right-of-way Preferred alignment (need to commit to an alignment/feasibility that is not along the railroad line.

FEMA – PDM (PRE DISASTER MITIGATION GRANT)

Reach out to FEMA – Region 1 to discuss how Uxbridge can qualify for PDM support.

The Pre-Disaster Mitigation (PDM) Grant program makes federal funds available to state, local, tribal and territorial governments to plan for and implement sustainable cost-effective measures designed to reduce the risk to individuals and property from future natural hazards, while also reducing reliance on federal funding from future disasters. The program is authorized by Section 203 of the <u>Stafford Act</u>.

TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

EMERGENCY ACCESS

Conduct a survey to determine what roads and bridges pose a restriction for adequate public safety response.

Develop a strategy for the needed improvements to eliminate vulnerabilities.

SHOVEL READY PROJECTS

Request a regional discussion about grants and other funding for shovel ready projects.

BROADBAND

Mass Broadband Institute (MBI) has monies available to help communities improve broadband.

MBI's mission is to make affordable high-speed Internet available to all homes, businesses, schools, libraries, medical facilities, government offices, and other public places across the Commonwealth.

The Commonwealth created the MBI as a division of the MassTech Collaborative when signing the Broadband Act into law in August 2008.

PARKING

Desire for a parking study parking study in the core are of Main Street (similar to the Westborough study) and a sidewalk plan (similar to Shrewsbury).

EDCP will work with CMRPC to determine if the execution of a parking study can be funded by the 2023 round of DLTA funding that becomes available in January.

Library

Determine feasibility of an expansion of the public Library that can address the parking and accessibility issues.

BI-PARTISAN INFRASTRUCTURE LAW (BIL)

Is the Sutton Street Culvert Project an eligible project?

Are planned road projects eligible?



TOWN OF UXBRIDGE ECONOMIC DEVELOPMENT & COMMUNITY PLANNING SEPTEMBER 2022

Sub-Regional Infrastructure Notes

North Sub-Regional Infrastructure Summit

Meeting Details:

Date: October 6th, 2022

Location: West Boylston Senior Center

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & North Sub-Region officials: John Fitch (WBMLP), Sean McKeon (Princeton Light Department), Otto Lies (Holden), Kevin Duffy (WB DPW), Paul Osterberg (WB DPW), Travis Thibault (Paxton DPW), Philip Gott (Princeton), Isabel McCauley (Holden DPW), Tara Rendeau (Paxton Light), Jennifer Warren (West Boylston), Patrick Wood (Holden DPW)

- Town of Holden
 - Needs sidewalk improvements based on ADA standards near Main St, Wachusett St, Shrewsbury St & Malden St
 - Various culverts in need of repair
 - o Interested in increased public rail
 - Major concern with congestion, especially along Main St; residents use Main St to get to I-290, but they need another route; the CMRPC helped with TIP project on Shrewsbury St; Highland St needs work
- Town of Paxton
 - Complete Streets prioritization plan recently approved
 - Major concern with intersection in the town center which has a high crash rate; interested in this being added to the TIP
 - o Interested in relining culverts but does not want to shut down roads
- Town of Princeton
 - Project management requirements for MVP, Green Communities, etc. is costly & finding leads for plans is difficult; do not have town planner or town facilities manager
 - o Interested in increased public rail
 - Major concern with how to plan for 2050 and implement the LRTP; frustrated with state regulations posing obstacles
- Town of West Boylston
 - Potential TIP along Woodland St: two major intersections have no sidewalks; this is near a park and EJ community; need increased maintenance of sidewalks in neighborhoods
 - Major concern is securing funds to repair culverts; specifically, bridge on Prescott St/Rt
 31; bridge/culvert repair needed near Senior Center

Northeast Sub-Regional Infrastructure Summit

Meeting Details:

Date: September 8th, 2022

Location: Forbes Municipal Building, Westborough, MA

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & Northeast Sub-Region officials; Jeff Howland (Shrewsbury), Chris Payant (Westborough), Joe Boccadoro (Westborough), Patrick Collins (Shrewsbury), Jackie Pratt (Shrewsbury), Kristi Williams (Westborough), Fred Litchfield (Northborough)

- Thanks, welcome & introductions
- RCCP staff discuss the Regional Plan, IMAGINE 2050
 - How this plan is developed; purpose of planning for gaps in funding; past plans
 - Explains why regional/municipal infrastructure is crucial to this plan and the three core themes of economy, environment, and equity
- Transportation staff introduce the LRTP, 2050 Connections
 - How regional and municipal infrastructure are crucial to the LRTP
 - Areas of concern include connectivity, accessibility, and safety
 - o Discusses the Transportation Improvement Program (TIP)
 - Discusses other funding/grant programs available
 - o Discussed decarbonization, resiliency, and emerging technologies
- Question asked about the timeline of both plans
- Comment made about the importance of the commuter rail in Westborough
- Town of Westborough
 - Frustration with weak trails committee and disjointed trails network; for example, some trails cross private property and users are not aware ahead of time
- Regional trend (Towns of Westborough, Northborough, Shrewsbury)
 - Increased trail and bike trail mapping
 - o Discussion of top crash locations and potential remediations
 - Contentious discussion regarding bike lanes; disagreement over whether segregated bike lanes are best or regular bike line directly along sidewalks
 - Major concern with how the use of emerging technology is affecting traffic patterns and congestions; specifically, freight trucks are using backroads more often, causing congestion within each community

Southeast Sub-Regional Infrastructure Summit

Meeting Details:

Date: September 22, 2022

Location: Grafton Police Station

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & Southeast Sub-Region Benn Sherman (Uxbridge), Michael Gallerani (Uxbridge), David Butler (Hopedale), Gary Nelson (Millbury), Robert Sullivan (Douglas Waste/Sewer), Bob Minarik (Douglas), Matt Benoit (Douglas), Joe Laydon (Upton), Jen Hager (Sutton), Chris McGoldrik (Grafton)

- Town of Douglas
 - Major concern with the new warehouse on rt 146 and how increased freight trucks will impact congestion; also, because of RI tolls, trucks cross through Douglas and Sutton
- Town of Grafton
 - Noted that the MBTA zoning laws, new housing near train station is being considered
- Town of Millbury
 - Potential interest in Via pilot program
 - Has been repaving roads using chapter 90 funds
 - Mentions WRTA routes should be expanded
 - Increasing the number of multifamily units in downtown area; anticipating more to come with MBTA zoning laws; also anticipating influx of residents
 - \circ Major concern with warehouses and resulting congestion, especially along Rt 146
- Town of Sutton
 - Concerns regarding warehousing and resulting congestion along Rt 146 in Southeast subregion; they specifically noted that more traffic lights are necessary
 - Interested in seeing the completion of the gap in Blackstone River Parkway, the section between Millbury and Uxbridge
 - Needs more sidewalks, especially around town center, industrial parks and school; interested in Safe Routes to School
 - Interested in increasing the use of rail for freight purposes as congestion mitigation
- Town of Upton
 - In the process of reconstructing town center with roundabout and pavement improvements

- Interested in potential traffic study for route 146 to determine cumulative impacts of emerging technologies and warehouses, and to consider congestion mitigation
- \circ $\,$ Also interested in the completion of Blackstone River Parkway gap
- Town of Uxbridge
 - Major concern with warehouses/distribution centers and emerging technologies impact on congestion

Southwest Sub-Regional Infrastructure Summit

Meeting Details:

Date: August 24th, 2022

Location: Tri-Valley Elder Services, Dudley, MA

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & Southwest Sub-Region officials: George Patting (Dudley), Heather Blakely (Sturbridge), Peter Boria (Charlton), Andrew goals (Charlton), Adam Menard (Auburn), Peg Dean (Southbridge)

- Town of Auburn
 - TIP potential for the reconfiguring of 290, 395, and 84 interchange
 - Frustration with Rt 20 as it narrows down to 1 lane, there are high crash volumes, and additional distribution center with worsening congestion
- Town of Charlton
 - o Interested in increased electric vehicle charging stations
 - Interested in SS4A funding for Stafford St/Center Depot Rd due to its high crash volumes & results from community compact grant study
 - o Potential need for additional exit off of 90; traffic is worst during Mass Pike peak traffic
 - Potential collaboration between Amazon and WRTA for fixed route along 169; also, potential for WRTA bus stop along 31 off of 169 and 20
- Town of Dudley
 - Applying for SS4A for Stafford St corridor
- Town of Southbridge
 - o Interested in SS4A for Hamilton St redesign
 - o Currently working on the town Master Plan
 - Expanding airport to allow for larger jets
 - Interested in increased warehouse economy and highway access
 - Flagstops are not effective
 - o Interested in additional rest stops in the area to accommodate truck drivers
 - Interested in promoting the WRTA fixed-route shuttle between Southbridge and Webster
- Town of Sturbridge
 - Interested in getting the 84 interchange on the TIP

- Interested in increased promotion of transit options as well as addition of fixed-route to distribution center and Southbridge
- o Interested in increased EV charging stations
- Major concern with 84 & 90 interchange as it effects both Southbridge and Charlton
- o Major concern with trucking capacity, trucks are parking everywhere

West Sub-Regional Infrastructure Summit

Meeting Details:

Date: September 15th, 2022

Location: North Brookfield Police Station

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & West sub-region officials: Jim Nyberg (Sewer Department), Lauren Vivier (Spencer), Brandon Avery (Planning Board), Bill King (Planning Board), Brooke Canda (Board of Selectmen), Kathy Landry (North Brookfield Water)

- Town of North Brookfield
 - Concerned about reconstruction of Rt 9 and how that would affect rail trail crossing at Elm St as they just painted crosswalk and put up mirrors
 - Noted the need for curb cuts along sidewalks with trail crossings as well as need for increased signage
 - Major concern is insufficient transportation options for students within certain radius of school; students grades 4 & up are now required to walk to school; mentioned interest in SRTS
 - In need of parking improvements, especially in congested downtown; potential parking study
 - Concerned with the pollution, noise pollution, speeding, and roadway damage caused by freight trucks
- Town of Spencer
 - East Brookfield and Spencer both voted to approve new high school project; anticipate influx of students & need increased sidewalks and crosswalks
 - Wire Village needs sidewalks
 - Bus stops need shelters and more streamlined maintenance; also need sidewalks to these shelters
- Town of West Brookfield
 - Recently completed SRTS requirements; now distributing bike safety kits and discussing bike and pedestrian safety with students
 - o Interested in walk audits
- Town of East Brookfield
 - The flats could be a potential location for commuter rail station
 - Also interested in pursuing SRTS due to new high school project & expected influx

Virtual Infrastructure Summit – Transportation Focus

Meeting Details:

Date: October 20th, 2022

Location: Virtual

Topic: Regional Infrastructure, IMAGINE 2050 & 2050 Connections

Attendance: CMRPC staff & regional municipal officials/employees/general public

- Roundtable discussion
 - o Q1) Most pressing need in your community
 - Congestion on the mass pike and spillover to route 20
 - The danger of the new types of congestion, I.e., freight
 - Stop for EW rail in Brookfield area
 - Public transit in this area is suffering and the elderly need help
 - Implementation of traffic calming infrastructure design
 - Truck traffic on backroads of cars trying to get around traffic on highway
 - The cost of modernizing the whole system
 - Pedestrian safety epidemic
 - Q2) Do you have a transportation project, study or service that you would like to pursue if the financial resources become available?
 - Spencer & Sturbridge bike and ped trails should be linked with regional network
 - Need inter-town connection of trails
 - Spencer, better pavement mixes and infra
 - Smaller towns struggle with all projects
 - Is there a service where CMRPC could walk them through it
 - Q3) What is your transportation big idea?
 - Micro-mobility is going to keep expanding, we need more flexible ways to include them in the streetscape
 - Heather asks about hovercrafts
 - Sujatha comments about airport in New Braintree and the possibility of amazon using air-service delivery
 - Lanes for self-driving cars
 - Charging stations at gas stations
 - Training sessions; mobility as a service
- Discussion of next steps, resources & funding opportunities, and promotion of LRTP survey

MassDOT Meeting-in-a-Box Notes

MassDOT Meeting-in-a-Box Notes

Stakeholder: Greater Worcester Community Foundation

Meeting Details:

Date: January 20th, 2022

Location: Virtual

Topic: 2050 Connections & Beyond Mobility

Attendance: Graxirena (CMRPC), Jarvis (CMRPC), Jonathon Cohen (GWCF)

- What is the most pressing issue/challenge related to transportation today?
 - Public transportation in general; but his specific lens is that he wants it to be possible for low-income people to have mobility (I.e., medical appointments, access to social and governmental services)
 - Worcester public transit is too slow and doesn't get people close enough to their destinations
 - You must come into the city to use transit to get out of the city
 - Would be great to access arts and culture, but low-income priorities are most important
- Do you have a transportation project, service or study you would like to pursue if the financial resources became available?
 - How WRTA is handling the fare free is BAD; they seem to have no interest in public feedback and input. Jonathon thinks WRTA needs to do better in terms of public engagement and service; there needs to be collective wisdom and approaches/best practices
 - He would like to study how it works and how it can be improved
 - Massachusetts is not easily influenced by other systems
- Do you know any best practice or example that we should look at/explore for our region?
 - Point-to-point
 - o Fare-free
 - Ownership and jurisdiction of bus stops; how is nobody responsible for shoveling busstops?!
- Are there any types of destinations that need better transportation connections?
 - o Transit needs to be around centers of activities (necessity or recreational)
 - There needs to be options for bypassing Worcester
 - Bike paths are not always connected
 - Blackstone Heritage Corridor has great paths but then people still must use main roads, which increases accidents

- Signage, lighting, enforcement
- Veterans ink has signage that says no parking, but people still park there
- o Need more paint on the road to indicate lanes and rules
- Intrigued by train work, doubling tracks, statewide lines; but if it is so hard to get to trains stations in the first place, they need to address that first
- o Not enough park and ride areas, especially between Fitchburg and Worcester
- Which types of improvements are most important for the state to spend funding on?
 - Meaningful transit connectivity between different modes; ease of vehicular access to main hubs, which will increase ridership; signage, road care, lighting
- Which metrics should be priorities when funding transportation projects?
 - Equity and fairness
 - Connectivity and coverage
 - o Reliability
 - Environmental impact
 - Condition of physical infrastructure
 - Safety Jonathon says this should always be top priority
 - User cost
- If you could design a transportation system that would meet all your needs, what would it include? Dream BIG
 - Point-to-point transit connectivity; a lot more paint; rural areas and small towns are isolated; bike paths and sidewalks are inconsistent, so people NEED cars
- Yahaira asks about grants regarding transportation at the foundation
 - Jonathon says the foundation does not specify transportation as something they want to hear about
 - Before fare-free, there was a nonprofit that made a deal with WRTA for more affordable passes and gave passes to organizations to give out, as well as uber passes
 - o Several organizations that advocate for point-to-point
 - They got CDGB money to get trucks to transport food to people
- Jonathon asks which sectors involve the most transportation discussion
 - Yahaira explains some of the different projects, such as Healthy Aging, Economic Development
- Jonathon asks about CMRPC's organizational approach
 - Yahaira explains that highway department is reorganizing and deals with many different modes, such as trails, bike & ped
 - Jonathon mentions that people should consider light rail
 - Yahaira mentions that Boston is considering bus only lanes

MassDOT Meeting-in-a-Box Notes

Stakeholder: Worcester Community Action Council

Meeting Details:

Date: February 8th, 2022

Location: Virtual

Topic: 2050 Connections & Beyond Mobility

Attendance: Graxirena (CMRPC), Jarvis (CMRPC), WCAC Senior Management Team

- What is the most pressing issue/challenge related to transportation today?
 - Access and affordability
 - o Public transit schedules
 - o Transit routes being limited (and even shrinking)
 - Increasing safety, especially at transit stops where there is no shelter or sidewalks and people are waiting on the street
 - People are unable to access services, resources and opportunities because public transit is not reliable or easily accessible
 - People from outside of Worcester must come to downtown (to the Hub) to access locations also outside of Worcester
 - Community demographics, for EV car sharing that necessitates people being able to afford (money and time) getting a driver's license
 - Ensuring access to vital services like medical appointments, childcare services, major places of work
 - They mention people who use their programs having a hard time accessing earlyeducation for their children
 - Specifically, the Palmer and Southbridge areas
- Do you have a transportation project, service or study you would like to pursue if the financial resources become available?
 - High speed rail to Boston and surrounding towns (we mentioned East West Rail)
 - They asked about micro-transit
 - They mention electric vehicles as a potential project, service and study and are exploring program options within their own organization with EV4the future (potential collaboration opportunity)
- Are there any types of destinations that need better transportation connections?
 - o Access to downtown and transit hubs from all neighborhoods
 - A circle loop around downtown and the entire City

- o Rural areas struggle with attaining/maintaining fixed routes
- They ask about on demand transit services and micro transit and if those opportunities could be more readily utilized for populations other than older adults and people with disabilities
- \circ $\;$ They ask about workforce transit options and how funding is programmed for that
 - They ask about this being extended to individual businesses or corporations that employ large amounts of people
 - Yahaira mentions MassDEP Rideshare Program
- Which metrics should be priorities when funding transportation projects?
 - Regional connectivity, access and affordability is their priority
 - User cost is the priority for this group. Transit affordability is very important and they will like to see WRTA continue with the free fare for the long term.
- Final questions and comments
- There used to be a service available where people could schedule a one-on-one "lesson" so to speak for how to use local transit services
 - We are connecting them with WRTA Travel Trainer
- There needs to be better promotion of available services

MassDOT Meeting-in-a-Box Notes

Stakeholder: Focus Group at Worcester Senior Center

Meeting Details:

Date: November 4th, 2022

Location: Friends of Worcester Senior Center

Topic: 2050 Connections & Beyond Mobility

Attendance: Graxirena (CMRPC), Rhault (CMRPC), Jarvis (CMRPC), Fuccione (Massachusetts Healthy Aging Collaborative)

Meeting Notes:

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- James from Healthy Aging does introduction
- Yahaira does introduction about CMRPC, LRTP and Beyond Mobility
- Amelia from Millbury, not enough public transit, or paratransit services
 - Florence from Auburn, uses WRTA
 - Small van/paratransit
 - Drivers are friendly
- Dorothy from Worcester (left meeting early), had positive experience with WRTA to go shopping
- Liz (from?) sometimes uses paratransit on Accessibility Advisory Committee
- Yahaira asks about positive experiences people have had with transportation services in the region and what are the key features to improve on our roadways?
 - Liz, bike and ped, ADA, pavement, little considerations like how green strips between bike lanes and sidewalks cause an obstruction for those with disabilities
 - Amelia and Florence both mention that their daughters drive them to the senior center and that they do not walk around alone much
 - James mentions issues with snow and extreme weather in the winter
- Yahaira asks about what improvements could be made to transit specifically?
 - Liz uses paratransit and walks around sometimes, mentions that paratransit is an arduous process and not reliable
 - She teaches visually impaired groups how to deal with transit and walking around stations themselves
 - Mentions that Charlie cards are discounted for elderly and free for those with disabilities
 - Mentions that being dependent on other people for transportation has a negative effect on your mental health
 - Her experience with paratransit is often stressful. Describes having to call 24 hours in advanced, does not know until only a couple of hours before that it is

confirmed, must know exact address of destination, there is a 20-minute window for the drivers to arrive in but if rider is not present exactly when they arrive, they will take off in 5 minutes, drivers do not always help or interact, no paratransit on holidays

- Ubers/Lyfts are not appealing because they are not accessible and are expensive
- Yahaira asks what additional transportation projects people would like to see get funding
 - Liz, autonomous vehicle services
 - Amelia wants to transit from Millbury to Worcester Senior Center (very few lines stop at the senior center)
 - People want to see senior centers and libraries as hubs where transportation services connect and overlap
 - o There is extremely limited public transit outside of Worcester
- Yahaira asks hat locations do people want connections to be made in their local transportation services?
 - Senior center and libraries
 - o DCR (Department of Conservation and Recreation) state parks/trails in general
 - Liz was contacted by the DCR and Universal Access Program to see if her and her group wanted to go hiking, they arranged transportation and shared what their experience is like using trails as someone with vision impairment
 - o Boylston Botanical Gardens
 - o Theaters
- Yahaira asks which metrics should be used as priorities when determining how to distribute funding?
 - o **RELIABILITY**
 - CONNECTIVITY & COVERAGE
 - o Cost
- Yahaira asks what people's dream transportation system would look like?
 - Public transportation across the county!
 - Public AV/EV/Bike/Paratransit services



Meeting-in-a-box Summary

Summary, analysis, and key takeaways

March 2023



Objective

Hear specifically from communities and groups whose perspectives we want to ensure are captured as part of development of the Long Range Plan.



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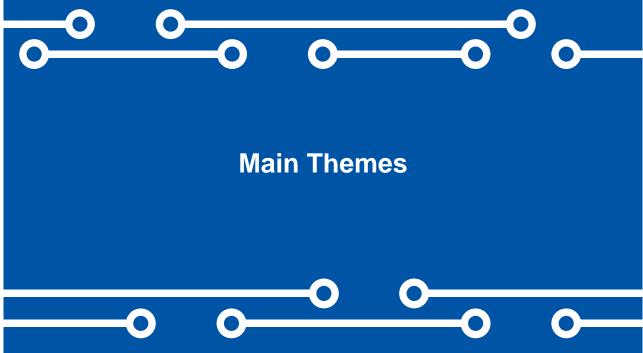
If you could design a transportation system to meet all your needs, what would it include? Dream big...



Focus Groups

Focus Group	Meeting Date
Berkshire MPO & Transportation Advisory Committee	December 20, 2022
Amherst Transportation Committee	January 3, 2023
Western Mass Transit Advocacy Network	January 12, 2023
Greater Worcester Community Foundation	January 20, 2023
Outer Cape Focus Group	January 26, 2023
SRPEDD Focus Group	January 27, 2023
Worcester Community Action Council	February 8, 2023
Health Equity Partnership of North Central Massachusetts (CHNA9)	February 16, 2023
Berkshire Regional Coordinating Council on Transportation	March 6, 2023





Connectivity and Equity

What We Heard:

- Transit stops and stations lack sufficient bicycle and pedestrian accommodations
- Mobility needs differ significantly across the state – on demand transit and micro-transit are realistic solutions to support mobility in Western Mass now
- · Passenger rail service for the entire state
- Individuals who cannot drive lack sufficient and affordable options to reach health care services
- · State airports are only accessible by automobile
- Rural communities lack meaningful transportation options to reach cities and other activity centers
- Wayfinding signs, painted paths, and directories must increase at transit stations to connect people to key destinations
- Lack of affordable housing is forcing people away from existing transit networks and increasing reliance on automobiles

Survey results (n=56)

7

Survey Results:

- 26.92% of participants feel pedestrian and bicycle connections are a top funding priority
- · 26.32% want better connections to Jobs
- 21.03% feel connectivity and coverage must be prioritized when funding projects
- 20.57% want better connections to health care services

Improved Transit Experience

What We Heard:

- Western RTAs cater their service to universities which leaves residents with unreliable transit during school breaks
- Expand evening transit services
- RTAs should consider vans during periods of low ridership to cut costs
- Expand RTA bus fleets and improve accommodations to support users of all ages and abilities
- Bus shelters at all stops to encourage yearround ridership
- Rural transit hubs require riders to come downtown to access transit connections to destinations outside the city

Survey Results:

- 18.28% of participants feel community shuttle services are necessary to improve the transit network locally and regionally
- When asked to design a transportation system that would meet all your needs, 25% of participants referenced micro-transit
- 19.71% feel more frequent bus service is the most important feature to improve on the transit network

Survey results (n=56)

Infrastructure Investment and Operations

What We Heard:

- Prioritize intersection safety projects and Intelligent Transportation Systems (ITS)
- Better first/last-mile connections for existing and any new transit services
- Improvements to local roads and bridges do not have to be part of major projects: potholes, road lines, and sign improvements are needed intermittently
- Climate resilient infrastructure must be incorporated in every project to prepare for sea level rise, flooding, and other extreme weather
- Bus only lanes connecting to transit hubs and major activity centers

Survey results (n=56)

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Survey Results:

- 51.28% of participants think transit improvements are the most important funding priority for the state
- 20.4% feel the most important feature to improve on roadways are pedestrian and bicycle infrastructure
- 17.31% feel more bus-only lanes are a priority

Building Organizational Capacity

What We Heard:

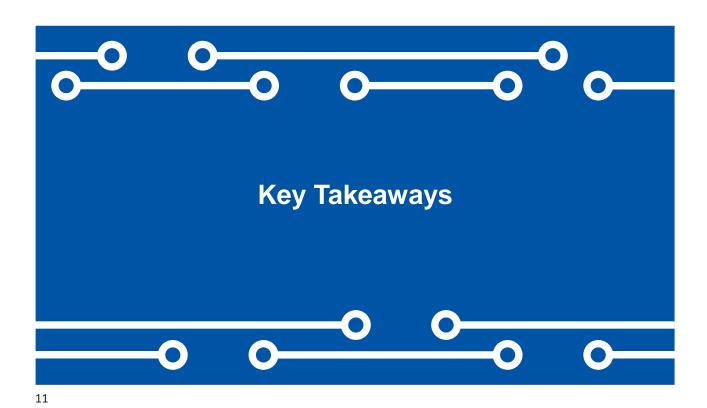
- Municipalities often lack the capacity to maintain new infrastructure as part of Complete Streets projects and other MassDOT investments.
- New Chapter 90 formula and additional funding is needed to help communities take advantage of grant opportunities
- Additional RTA staff to operate community shuttle services that would get people to, from, and around major activity centers
- Increase vehicle capacity so caregivers can be transported with patients to appointments
- RTAs must provide more opportunities for public input and improve communication of available services and changes

Survey results (n=56)

Establish an Office of Rural Planning within MassDOT – similar to DPH's Office of Rural Health – staffed with people who live and have experience navigating transportation in these regions.

We need to focus more of our resources on people with fewer resources - can't get a job if you don't have transportation, can't buy a car if you don't have a job. Likewise, older adults can't get medical care if they can't work out transportation issues.

> Sidewalk snow removal and funding for building snow removal operations at the local level. MassDOT can assist with funding and capacity building and partner with local communities to address MassDOT owned sidewalks.



Key Takeaways

- Individuals that lack the ability to drive face many barriers, including access to
 affordable transportation alternatives. Availability of options is the greatest barrier,
 followed by cost. Some services also lack appropriate features to support various needs
 and abilities.
- Dedicated services to access critical destinations across the state, especially jobs, child care and medical facilities, does not exist. This greatly limits where people can live and age affordably. Micro-transit has support statewide and can play a role in resolving these issues today.
- Rural populations that lack transit infrastructure view the transition to electric vehicles in their communities as critical to meeting climate and sustainability goals.
- Municipalities across the state struggle to stay on top of funding opportunities and require dedicated assistance from MassDOT for planning studies, grant writing, and project development. Chapter 90 funding is not enough to support these needs.
- Rural populations feel isolated and without sufficient transportation options due to lack
 of transit service and incomplete bicycle and pedestrian networks.



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Flyers & Social Media Infographics

2005 CONNECTAONS Imagine a Region Connected A region los transportation plan acts as a

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The region's transportation plan acts as a blueprint that helps guide the prioritization and funding for transportation improvements in the region. The plan includes the following:

- Socio-economic Projections
- Transportation Improvements
- Major Infrastructure Projects
- 📀 Transit & Mobility
- Livability & Healthy Aging
- Climate Change & Resiliency

Public involvement, data and performance measures are at the core of the region's plan. Sign up and stay updated! Join our email list about local opportunities to participate!.

Follow us:





Central Massachusetts Regional Planning Commission (CMRPC)

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Regional Planning Commission <u>Instagram</u> @CentralMassPlanning <u>Twitter</u> @CentralMassRPC



Scan to visit the 2050 Connections Hubsite!



Scan to visit the CMRPC Website!





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Scan to visit our Long Range Transportation Plan Website





Scan to visit our Regional Plan's Website!



2050 CONNECTIONS PUBLIC MEETING



Please <u>mark your calendar</u> and attend this public meeting to discuss the development of the Central Massachusetts long range transportation plan (LRTP), 2050 Connections.

WHEN: Wednesday, May 31st, 2023 at 5:00 PM

UNUM Building, Paul Revere Room, 1st Floor, One Mercantile Street, Worcester, MA



WHERE:

https://us02web.zoom.us/j/89638038171? pwd=L2ZqY2pNeHh1UkVpdEh3NVUzTkxudz09 Meeting ID: 896 3803 8171; Passcode: 828355

For more information:













The Central Massachusetts Regional Planning Commission Presents:

MEETING-IN-A-BOX

Please consider taking part in this community engagement effort where community groups, residents and stakeholders can learn more about CMRPC and MassDOT projects.

Please contact ygraxirena@cmrpc.org for more information or to schedule a meeting

Central Massachusetts Metropolitan Planning Organization (CMMPO)

VIRTUAL PUBLIC MEETING

Please join the CMMPO staff on <u>July 10th, at</u> <u>5pm</u>, to discuss:

- The proposed 2023 2028 Transportation Improvement Program (TIP) Amendment #8
- The draft Long Range Transportation Plan, 2050 Connections

Please visit the <u>2050 Connections Hubsite</u> to review the draft 2050 Connections plan as well as the hubsite's calendar to find the Zoom link for this meeting.

Please visit <u>www.cmrpc.org/2050connections</u>



The Central Massachusetts Metropolitan Planning Commission (CMMPO)

Virtual Public Meeting

Please join the CMMPO staff on July 10th, at 5pm, to discuss:

 The proposed 2023 - 2028 Transportation Improvement Program (TIP) Amendment #8

 The draft Long Range Transportation Plan (LRTP), 2050 Connections



Please visit the link below to access the draft LRTP as well as this meeting's Zoom link.

Attention Central Massachusetts!

The CMRPC transportation staff are utilizing a public, interactive map to inform the final priorities of their long range transportation plan.

To use the map, click the link in the caption above and review the brief instructions.

This map will close on Friday, June 9th!



TAKE THIS SURVEY AND IMPACT TRANSPORTATION IN YOUR REGION!

The Central Massachusetts Regional Planning Commission is conducting its Long-Range Transportation Plan which will effect Southern Worcester County for the next 25 years. Will you get involved and share your experience?

Follow the link below or scan the QR code with your smart phone's camera to take the survey. The results will directly impact CMRPC's priorities and plans. Thank you!



Spanish



English



http://www.cmrpc.org/2050Connections



Are you passionate about public transit? Do you enjoy walking or biking trails? Do you find yourself in a car every day? PLEASE TAKE OUR SURVEY!

The Central Massachusetts Regional Planning Commission is currently working on its Long-Range Transportation Plan, and we need *your help!*

Follow the link in the caption above to our Hubsite or scan the QR code below with your smart phone's camera to access our survey. Your responses will directly impact transportation planning in



Worcester County.



Environmental Consultation

2023 ENVIRONMENTAL CONSULTATION

Agenda of the Environmental Consultation Meeting of the Central Massachusetts Metropolitan Planning Organization (CMMPO)

I. WELCOME AND INTRODUCTIONS

II. ENVIRONMENTAL CONSULTATION OVERVIEW

III. TIP PROJECT SCREENING AND SELECTION

- Example Project: FFY 2024 Webster TIP Project (Project ID: 608433) Intersection Improvements at I-395 Ramps at Route 16 and Sutton Road
- Congestion Mitigation Air Quality (CMAQ)

IV. LONG RANGE TRANSPORTATION PLAN (LRTP) PROGRAM DEVELOPMENT: 2050 CONNECTIONS

- Document Overview
- o Environmental Planning Chapter
 - Electric Vehicles (EV's)
 - Stormwater Management Culverts
 - o Municipal Vulnerability Preparedness (MVP) Program Vulnerabilities

V. UNIFIED PLANNING WORK PROGRAM (UPWP)

- Task 3.8: Climate Change Resiliency, Sustainability, Vulnerability
 - Update on CMRPC Culvert Training and Assessment Results

VI. ADJOURNMENT

ZOOM DETAILS

Link:

https://us02web.zoom.us/j/83718752467?pwd=Rjk4QzZ1K21PekhLVXk5 bllrNWRBZz09

Meeting ID: 837 1875 2467

Password: 148314

Dial by your location:

- +1 301 715 8592 US (Washington DC)
- +1 646 558 8656 US (New York)
- +1 312 626 6799 US (Chicago)

- **Location:** Virtual
- **Date:** Thursday, April 6, 2023
- ن Time: 10:00 AM

WHAT IS AN ENVIRONMENTAL CONSULTATION?

According to US Department of Transportation (DOT) guidance, an Environmental Consultation is a discussion of potential environmental mitigation activities and potential areas to carry out these activities, including activities that may have the greatest potential to restore and maintain the environmental functions affected by the metropolitan transportation plan, 2050 Connections. The discussion shall be developed via consultation with Federal, State, and Tribal land management, wildlife, and regulatory agencies.

Environmental means mitigation activities, strategies, policies, programs, actions, and activities that, over time, will serve to avoid, minimize or compensate for (by replacing or providing substitute resources) the impacts to or disruption of elements of the human and natural environment associated with the implementation of a long-range statewide transportation plan or metropolitan transportation plan. The human and natural environment includes, for example, neighborhoods and communities, homes and businesses, cultural resources, parks and recreation areas, wetlands and water resources, forested and other natural areas, agricultural areas, endangered and threatened species, and the ambient air. The environmental mitigation strategies and activities are intended to be regional in scope.

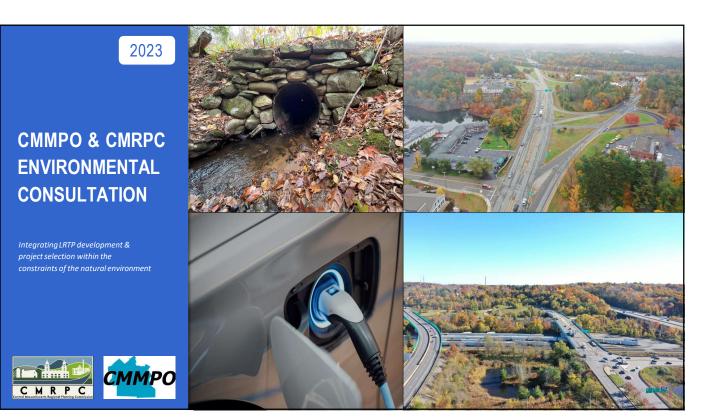
Consultation means that one or more parties confer with other identified parties in accordance with an established process and, prior to taking action(s), considers the views of the other parties and periodically informs them about action(s) taken. (*This definition does <u>not</u> apply to the "consultation" performed by the States and the MPOs in comparing the long-range statewide transportation plan and the metropolitan transportation plan, respectively, to State and Tribal conservation plans or maps or inventories of natural or historic resources*).

Further, the CMMPO shall consult, as appropriate, with State and local agencies responsible for land use management, natural resources, environmental protection, conservation, and historic preservation concerning the development of the transportation plan. The consultation shall involve, as appropriate:

- o Comparison of transportation plans with State conservation plans or maps, if available; or
- o Comparison of transportation plans to inventories of natural or historic resources, if available.

CMRPC meetings are conducted in accessible locations and materials can be provided in accessible formats upon request at least three (3) business days prior to the meeting. Interpreter requests must be made at least fourteen (14) business days before the meeting. If you need special accommodations, please contact the *CMRPC* at: (508) 459-3312, or <u>rryant@cmrpc.org</u>.

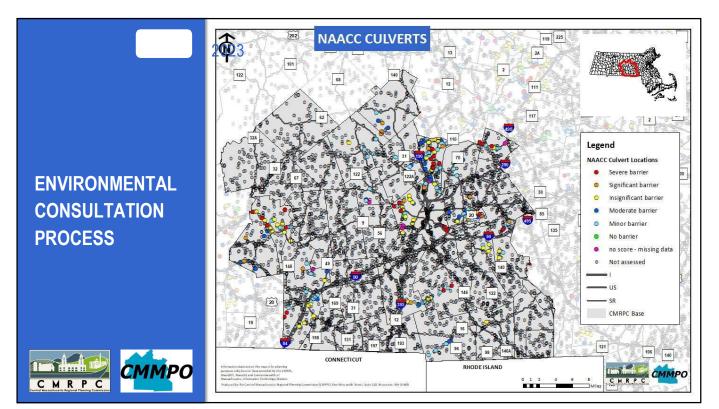
The CMRPC fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The CMRPC does not discriminate on the basis of race, color, national origin, English proficiency, income, religious creed, ancestry, disability, age, gender, sexual orientation, military service, or gender identity or expression. Any person who believes himself/herself or any specific class of persons have been subjected to discrimination prohibited by Title VI or related statutes or regulations may, himself/herself or via a representative, file a complaint with the CMRPC. A complaint must be filed no later than 30 calendar days after the date on which the person believes the discrimination occurred.

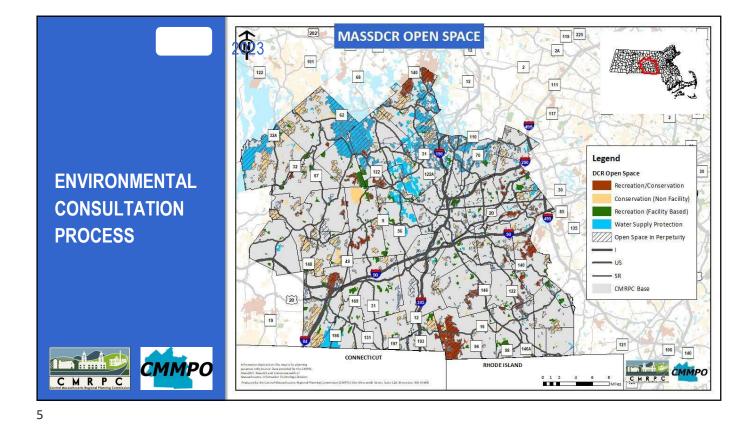


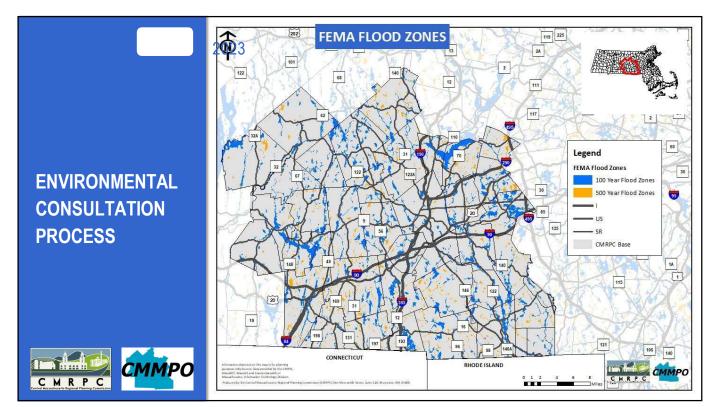
2023	 Welcome & Introductions Environmental Consultation Overview TIP Project Screening & Selection Example Project: FFY 2024 Webster TIP Project (Project ID: 608433) – Intersection Improvements at I-395 Ramps at Route 16 and Sutton Road Congestion Mitigation Air Quality (CMAQ) Long Range Transportation Plan (LRTP) Program Development: 2050 Connections
AGENDA	 Document Overview Environmental Planning Chapter Electric Vehicles (EV's) Stormwater Management – Culverts Municipal Vulnerability Preparedness (MVP) Program – Vulnerabilities
	 Unified Planning Work Program (UPWP) Task 3.8: Climate Change – Resiliency, Sustainability, Vulnerability Update on CMRPC Culvert Training and Assessment Results Adjournment
2	

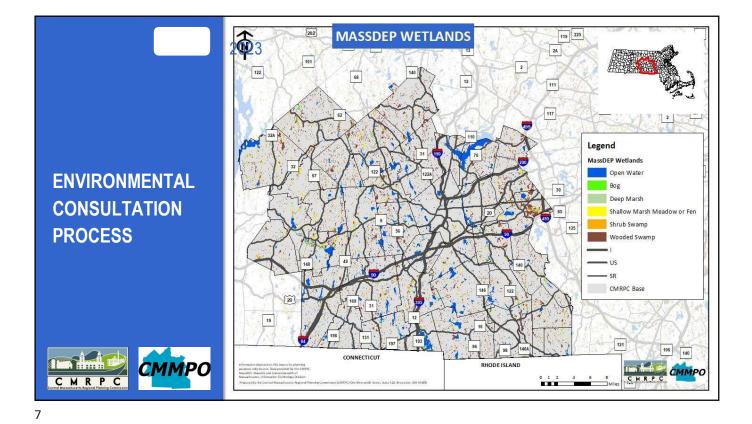
2023	 Early Coordination Develop strategies to discuss environmental aspects of LRTP and TIP with stakeholders and public (i.e., Environmental Consultation)
	 Environmental Resource Analysis Review environmental, cultural, and community resources and data Create candidate project location maps
ENVIRONMENTAL CONSULTATION PROCESS	 Mitigation Understand affected environment and assess transportation impacts throughout project development Minimize impacts from project by limiting degree/magnitude of the action and its implementation (i.e., rehabilitate affected environment as part of project)
	 Consultation MPO's consult with regulatory agencies responsible for natural resources, environmental protection, and historic conservation concerning development of transportation plans Includes a discussion of potential mitigation activities
	 Planning Integration Use feedback from consultations, LRTP, TIP public outreach to select/program transportation projects, policies, and initiatives to minimize environmental impacts

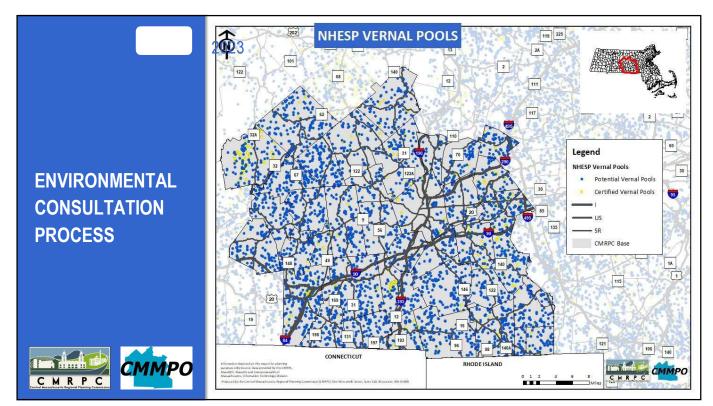














MaPIT

The Massachusetts Department of Transportation (MassDOT) initiates new project proponents through a 3-step process using their online tool, MaPIT:

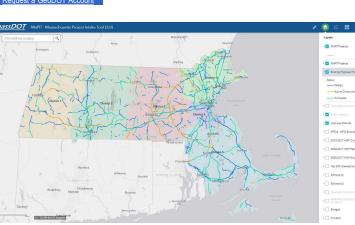
- 1. Project Need project proponent identifies project needs
- Project Initiation project proponent works with MassDOT to define scope, costs, timeline, impacts, and responsibilities
 Project Review Committee MassDOT submits projects to the Project Review Committee for approval

A GeoDOT account is needed to use MaPIT and initiate new project proponents.

Request a GeoDOT Account

MASSACHUSETTS PROJECT INTAKE TOOL (MAPIT)





9

2023

Long Range Transportation Plan (LRTP)

A 25-year regional vision that integrates all transportation modes adhering to and supporting federal, state, and regional legislation goals and performance management goals.

PROJECT SCREENING

Project Screening

Performance-based planning assessment of candidate projects (i.e., Environmental Consultation GIS Analysis).

Transportation Improvement Program (TIP)

Central Massachusetts Municipal Planning Organization (CMMPO) and other Committees consider proposed TIP highway/transit project listings and make recommendations to the CMMPO.



CONNECT A BNS

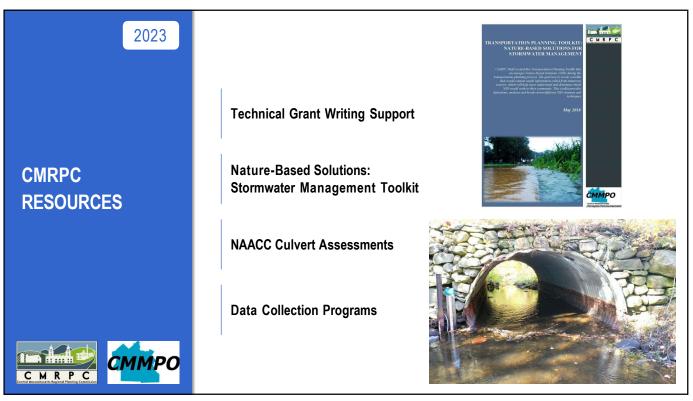
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CMRPC



2023

FFY 2024 Webster TIP Project (Project ID: 608433)

Intersection Improvements at I-395 Ramps at Route 16 and Sutton Road

Project Details

- · Project Limits: I-395 NB and SB ramps at Route 16 interchanges
- Project Cost: Estimated at about \$14.945 million
- · Currently at 75% design
- Currently programmed for the FFY 2024 TIP
- · Project will be funded by CMAQ, STBG, and Statewide HSIP funds
- Known crash history identified HSIP crash cluster within project area
- Congestion listed as congested locations in the $\ensuremath{\mathsf{CMP}}$
- · Lack of adequate facilities for pedestrians and bicyclists
- · Poor sidewalks
- · Poor drainage

Potential Improvements

- · Installation of traffic signals or roundabouts at both intersections
- · Resurfacing and geometric improvements
- Bicycle and pedestrian improvements (be consistent with Complete Streets goals)
- · Modify the bridge slope paving for sidewalks
- Environmental work for drainage modifications and upgrades, as well as replacement or extension of the Mill Brook sluiceway
- · Upgrade signs and pavement markings

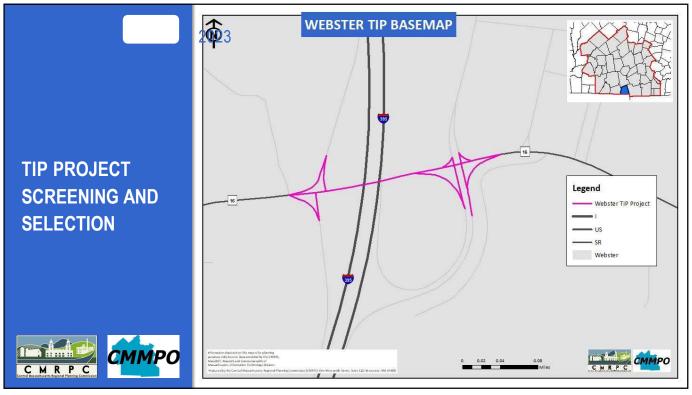
TIP PROJECT SCREENING AND SELECTION

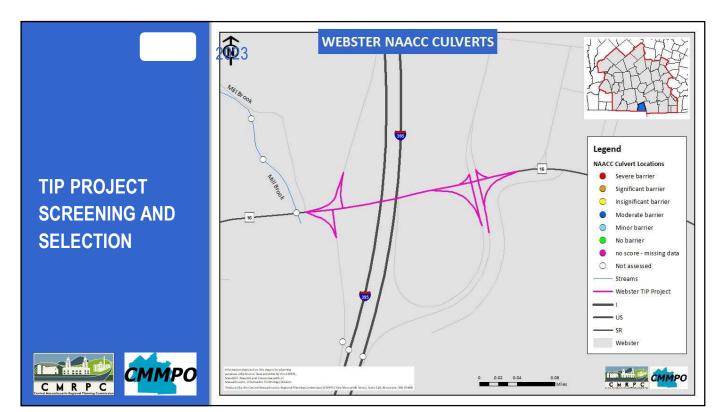






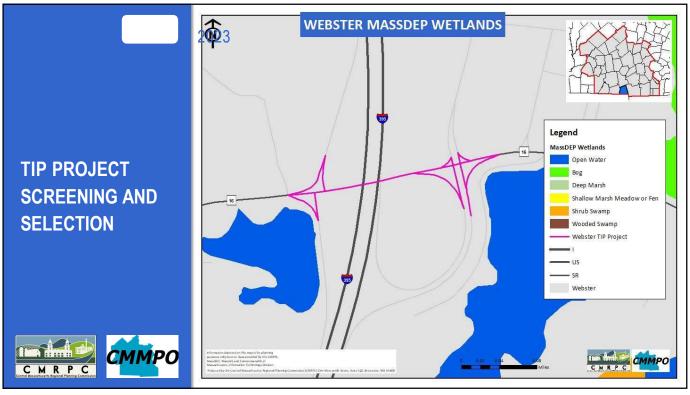






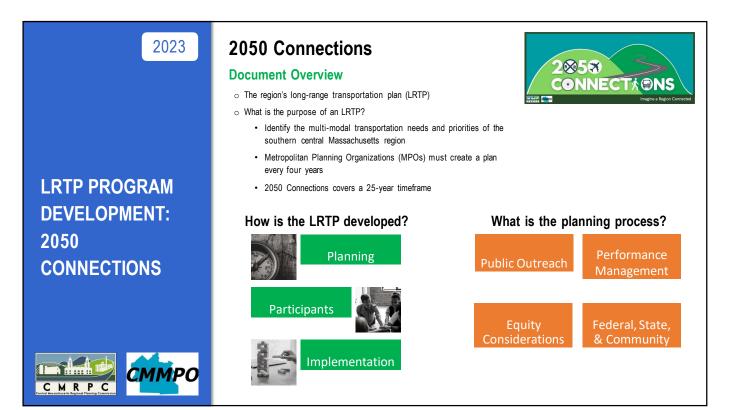


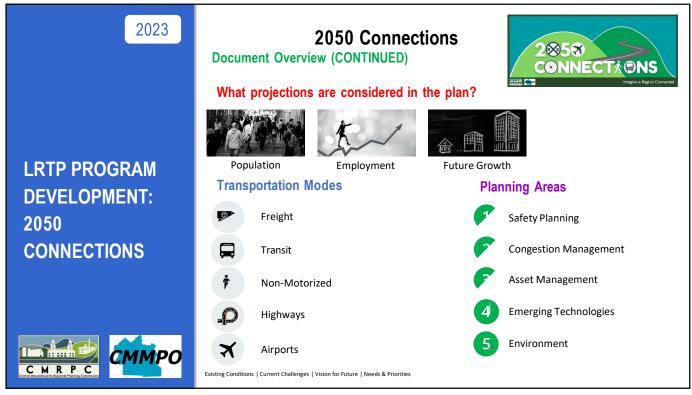






2023	CMAQ Proje	ct Types/Activitie	es										
2020	CMAQ Project Types	FHWA CMAQ Eligible Activities											
	Travel Demand Management/Rideshare	Rideshare Programs Park and Ride Employee Transit Benefits Carsharing Bikesharing Education and Outreach											
	Congestion Reduction and Traffic Flow Improvements	Incident Management Intersection Improvements Signal Improvements Roundabouts				-					In such		
	Transit Improvements	Transit Service Expansion Park and Ride Employee Transit Benefits				-			- Star	- Contraction	A A	Total Y	
	Freight Intermodal Projects	Intermodal Freight Facilities and Progr Truck Stop Electrification Heavy Vehicle Engine Replacements			-# C			in the second					
	Pedestrian Bicycle	Pedestrian and Bicycle Paths (that are Bikesharing	e not solely for	r recreation)	H Hanneller		No. of Concession, Name			2			
CONGESTION	Alternate Fuel and Clean Vehicle	Heavy Vehicle Engine Replacements Diesel Retrofit Technologies Extreme-Temperature Cold-Start Tech			1 P	- the second					F		1
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		Electric Vehicle Charging Stations			Deserte								
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2023

Environmental Planning Chapters

Electric Vehicles (EVs)

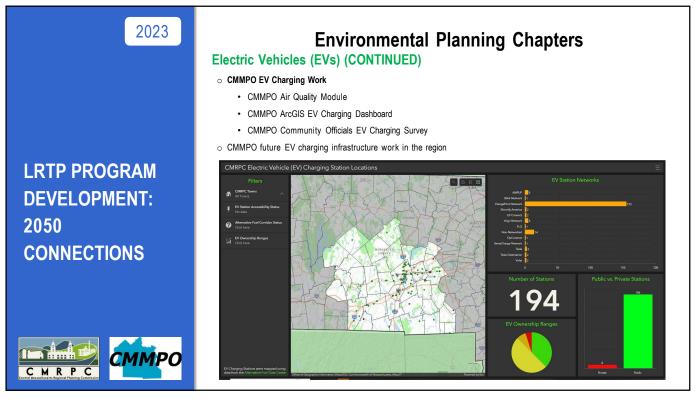
- Transportation makes up majority of GHG out of any economic sector in nation and the Commonwealth (42%)
- $\circ\,$ Transition to EVs can help reduce emissions from the transportation sector, combat the climate crisis, and improve air quality and public health
- $_{\odot}\,$ Build-out of EV charging infrastructure is necessary to support the widespread adoption of EVs

LRTP PROGRAM DEVELOPMENT: 2050 CONNECTIONS

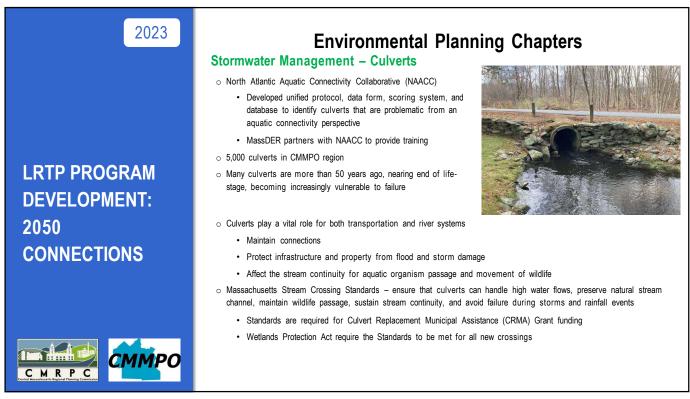


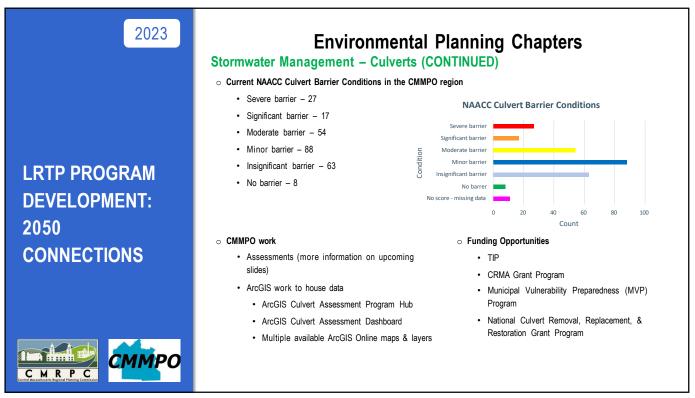


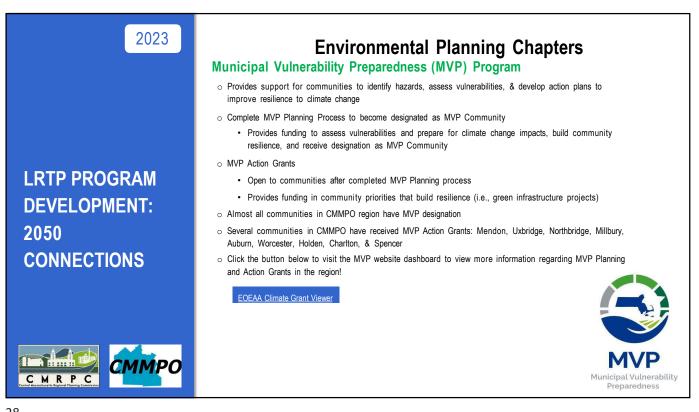
- Efforts are being made at both the national and state level to support the build-out of EV charging infrastructure:
 - BIL NEVI Program and Charging & Fueling Infrastructure (CFI) Grant Programs (\$7.5 billion)
 - Extension of Alternative Fuel Corridor (AFC) Grant Program
 - Massachusetts 2050 Decarbonization Roadmap
 - MassDOT NEVI Plan (\$63.5 million FY 2022 to FY 2026)

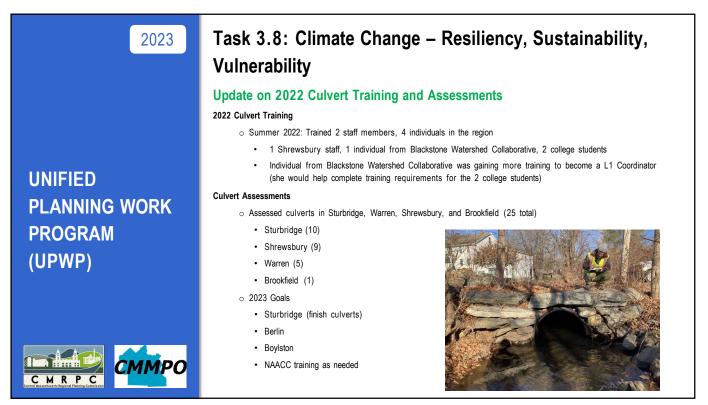


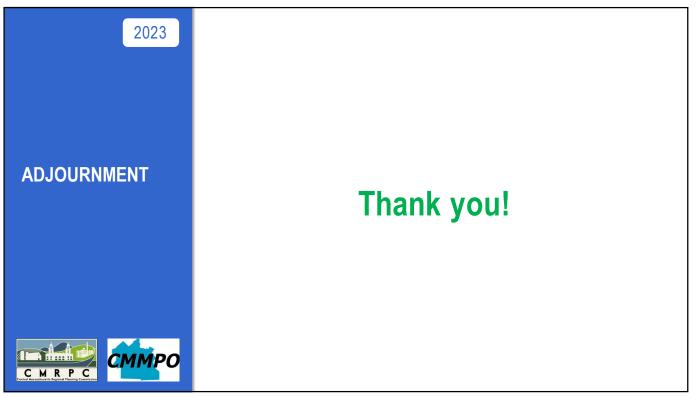














CENTRAL MASSACHUSETTS METROPOLITAN PLANNING ORGANIZATION

The minutes of the Environmental Consultation meeting held Thursday, April 6, 2023. This meeting was held virtually using Zoom.

• Guests:

- 1. Stella Jordan, Boston MPO
- 2. Jim Larkin, NECCOG
- 3. Brian Pigeon, Worcester Planning
- 4. Delia Fey, NECCOG
- 5. Dennis Lipka, WRTA Administrator
- 6. Kevin Duffy, West Boylston DPW Director
- 7. Lauren Vivier, Spencer Planning
- 8. Doug Alward, Shrewsbury
- 9. Joanna Paquin, Auburn DPW Director
- 10. Ann Sullivan, MassDOT District #3
- 11. Stephanie Covino, Blackstone Watershed
- 12. Sarah Bradbury, MassDOT District #3
- 13. Tracey Coppellotti, MassDOT District #3
- 14. Chris Klem, MassDOT Office of Transportation Planning

• CMRPC Staff Present:

- 1. Rich Rydant, Transportation Project Manager
- 2. Sujatha Krishnan, Deputy Director
- 3. Adam Wriggins, Assistant Transportation Planner
- 4. Kevin Krasnecky, Transportation Project Manager
- 5. Zack Blais, Associate Transportation Planner
- 6. Trish Settles, Deputy Director
- 7. Greer Jarvis, Assistant Transportation Planner

The CMMPO fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. The CMMPO does not discriminate on the basis of race, color, national origin, English proficiency, income, religious creed, ancestry, disability, age, gender, sexual orientation, military service, or gender identity or expression. Any person who believes himself/herself or any specific class of persons have been subjected to discrimination prohibited by Title VI or related statutes or regulations may, himself/herself or via a representative, file a complaint with the CMMPO. A complaint must be filed no later than 180 calendar days after the date on which the person believes the discrimination occurred.

Agenda Item #1 – Welcome & Around the Room Introductions

Rich Rydant welcomed everyone to the Environmental Consultation meeting. Introductions were made by the transportation staff and those attending the meeting. A brief summary of the agenda was also given.

Agenda Item #2 – Environmental Consultation Overview

Zack Blais began by explaining the purpose of the environmental consultation process. Mr. Blais described various maps that are an important element of the consultation process. The maps included: regional culverts (NAACC); DCR (open space, conservation, and water supply areas); FEMA flood zones (100 and 500 year) DEP (wetlands); and NHESP (vernal pools and priority habitats of rare species).

Mr. Blais then talked about the Massachusetts Project Intake Tool (MaPIT). This tool is used to initiate and develop a new TIP project. Similar to the previously mentioned environmental maps, MaPIT provides the numerous data layers that project proponents use to determine potential challenges for the proposed projects. Next, Mr. Rydant talked about project screening and selection and how all projects start in the Long-Range Transportation Plan (LRTP), which is a 25-year planning document. Projects are then screened using the MassDOT MaPIT tool and once approved they are assessed using the Performance-Based scoring criteria. Potential projects are then considered by the CMMPO for TIP programming. Additionally, Mr. Rydant mentioned other available CMRPC resources that communities can use for their environmental concerns. These include technical grant writing support, a stormwater management toolkit, culvert assessments, and various data collection programs.

Agenda Item #3 – TIP Project Screening and Selection

• **Example Project**: FFY 2024 Webster TIP Project (Project ID: 608433) – Intersection Improvements at I-395 Ramps at Route 16 and Sutton Road

Mr. Rydant began by describing the details of the Webster TIP project. The project cost is estimated at \$14.945 million. The project is currently at 75% design and programmed in FFY 2024. Funding for the project will come from CMAQ, STBG, and Statewide HSIP funds. Mr. Rydant also summarized the existing conditions at the project location. These include poor drainage, poor sidewalks, a lack of adequate facilities for pedestrians and bicyclists, congestion (listed as congested location in the CMP), and it is a known high crash location (identified HSIP crash cluster within project area).

Mr. Rydant explained that potential improvements to the intersection as part of the project include the installation of traffic signals or roundabouts, resurfacing, bicycle and pedestrian improvements, sidewalk improvements, environmental work for drainage modifications, replacement or extension of the Mill Brook sluiceway, and upgrade of signs and pavement markings. Mr. Rydant showed several images of the project location to show the current issues being described, and showed several maps using the previously mentioned environmental layers.

• Congestion Mitigation and Air Quality (CMAQ)

Kevin Krasnecky explained that CMAQ is a TIP funding source used for projects that are expected to improve air quality and reduce harmful gases. Mr. Krasnecky noted the type of projects and eligible activities that are appropriate for this program. Some of these include Bikesharing, roundabouts, transit

service expansion, truck stop electrification, pedestrian and bicycle paths, and electric vehicle (EV) charging stations. Next, Mr. Krasnecky summarized a table showing the previous seven years of TIP projects that were approved for CMAQ funds. Mr. Krasnecky noted that over \$25 million in funds were awarded for the 13 approved projects in the CMMPO region. The VOC, NOx, and CO savings were also shown for each project in kilograms per year.

Agenda Item #4 – Long Range Transportation Plan (LRTP) Program Development: 2050 Connections

Document Overview

Mr. Rydant explained that 2050 Connections is the CMMPO region's LRTP. The purpose of an LRTP is to identify the multi-modal transportation needs and priorities of the CMMPO region. Metropolitan Planning Organizations (MPOs) must create a plan every four years, and 2050 Connections covers a 25-year timeframe. Mr. Rydant also briefly explained the LRTP development and planning process.

Mr. Rydant noted that 2050 Connections considers three projections in the plan: population, employment, and future growth. Mr. Rydant also briefly explained the five transportation modes and five planning areas that are included in the plan. The transportation modes are freight, transit, non-motorized, highways, and airports. Each mode summarizes the existing conditions, current challenges, visions for the future, and needs and priorities. The planning areas are safety planning, congestion management, asset management, emerging technologies, and environment.

- Environmental Planning Chapter
 - Electric Vehicles (EV)

Mr. Blais briefly reviewed the EV section of the Environmental Planning Chapter of *2050 Connections*. This section highlights the growing trend of emissions that transportation contributes and how the transition to EVs can help reduce emissions and improve air quality and public health. In order to support the widespread growth of EV ownership a sustainable EV charging infrastructure is necessary. Mr. Blais explained that efforts are already being made to do this at both the national and state level, and this section reviews ways the CMMPO are working to support these efforts now and into the future.

• Stormwater Management – Culverts

Mr. Blais briefly reviewed the culvert section of the Environmental Planning Chapter of *2050 Connections*. This section highlights the overwhelming number of culverts in the CMMPO region and how many of them are becoming increasingly vulnerable to failure, especially during frequent rainstorms and severe weather events. Mr. Blais explained that CMMPO staff have been working with the North Atlantic Aquatic Connectivity Collaborative (NAACC) to identify, assess, and score culverts based on their impact on aquatic/wildlife and stream continuity. These results can help identify culverts that are at risk of flood and storm damage. Mr. Blais reviewed current results of NAACC culvert assessments in the region and other CMMPO work that has been completed, as well as funding opportunities that can be used to repair or replace vulnerable culverts.

o Municipal Vulnerability Preparedness (MVP) Program – Vulnerabilities

Mr. Blais briefly reviewed the MVP Program section of the Environmental Planning Chapter of *2050 Connections*. This section provides an overview of the MVP Program, which provides support for communities to identify hazards, assess vulnerabilities, and develop action plans to improve resilience to climate change. Communities must complete an MVP Planning Process to become designated as an MVP Community, which gives them access to apply for MVP Action Grants to receive funding to use for projects that build resilience. Mr. Blais mentioned that almost all communities in the CMMPO region have MVP designation and several communities have received MVP Action Grants.

Agenda Item #5 – Unified Planning Work Program (UPWP)

- Task 3.8: Climate Change Resiliency, Sustainability, Vulnerability
 - o Update on CMRPC Culvert Training and Assessment Results

Mr. Blais provided a brief overview of the CMRPC Culvert Assessment Program training and assessments. In Summer 2022, two CMRPC staff members and four individuals from the region were trained to become NAACC Lead Observers and allows them the ability to assess culverts using NAACC protocols. One individual completed NAACC Level 1 (L1) Coordinator training, which provides the ability to provide training to other interested individuals.

Mr. Blais updated the group that staff have recently assessed culverts in Sturbridge, Warren, Shrewsbury, and Brookfield, totaling 25 culvert assessments. For 2023, staff aims to finish all culvert assessments along federal-aid eligible roads in Sturbridge, and then begin culvert assessments along federal-aid eligible roads in Berlin and possibly Boylston. NAACC training will also be provided as needed.

<u>Agenda Item #6 – Adjournment</u>

Jim Larkin asked if staff are involved with assisting the towns with MS4 Program. Sujatha Krishnan replied that that would be with the CMRPC RCCP staff. Trish Settles provided some more details on how the RCCP staff refers the towns to the Central Mass Stormwater Coalition.

There were no other comments or questions.

Rich Rydant thanked everyone for attending and adjourned the meeting at 11:20 PM.

Public Transit



Public Meeting amid COVID-19 circumstances

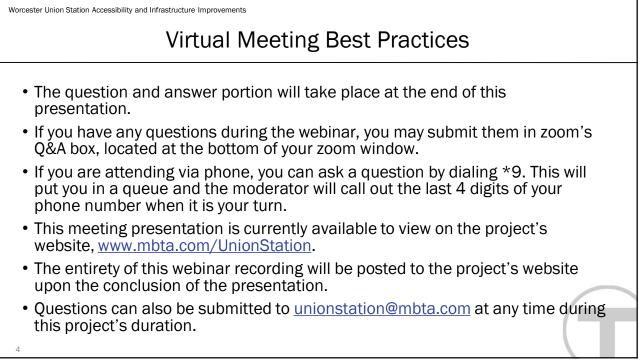
In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The MBTA greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 25 people (later revised to 10 people), together with the present closure of public buildings to the public, the MBTA has decided to implement the "remote participation" procedures.

The virtual webinar is part of that effort.

Notification of Recording

- This meeting will be recorded and the Massachusetts Bay Transportation Authority (MBTA) may choose to retain and distribute the video, still images, audio, and/or the chat transcript.
- Attendees will be muted and video will be turned off upon entry.
- By continuing with this virtual meeting, you are consenting to participate in a recorded event.
- The recordings and chat transcript will be considered a public record.
- If you do not feel comfortable being recorded, please turn off your camera and/or mute your microphone, or leave the meeting.

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5

Worcester Union Station Accessibility and Infrastructure Improvements

Team Introductions

<u>MBTA</u>

- Deputy Chief, Capital Delivery Commuter Rail Programs
- Sr. Director of Commuter Rail
- Sr. Project Manager

Panelists - Project Team

- MBTA Sr. Project Manager
- HDR Project Manager
- HDR Sr. Architect
- HDR Architect
- HDR Engineer

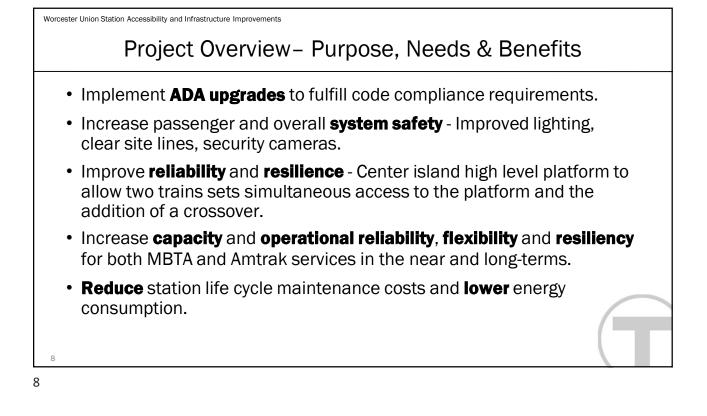
- Nazanin Mossahebi Anthony DeDominicis Maribel Kelly
- Maribel Kelly Eric DiVirgilio Michael Baskin Christopher Smee Kevin Slattery

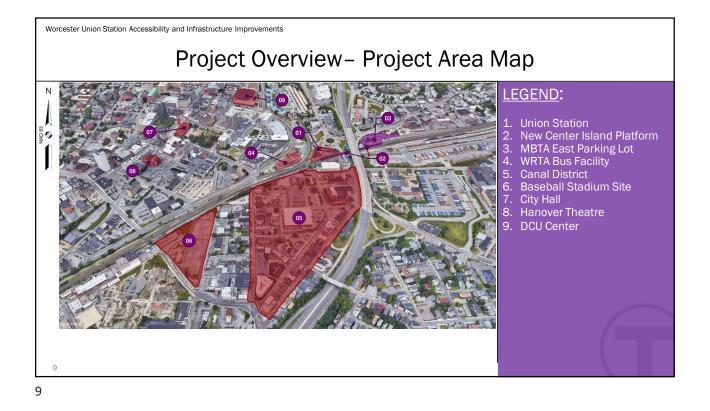


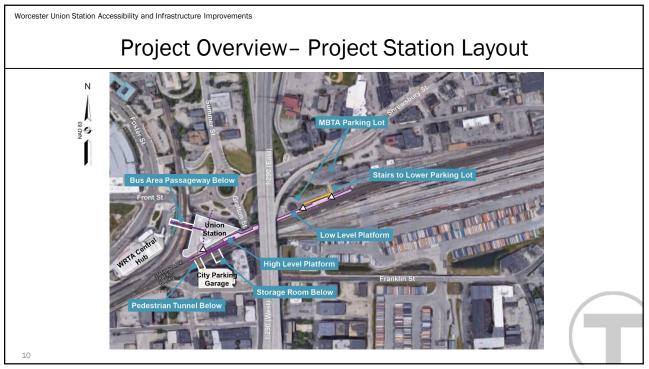
Project Goals

- **Operational Flexibility**
- Sustainability

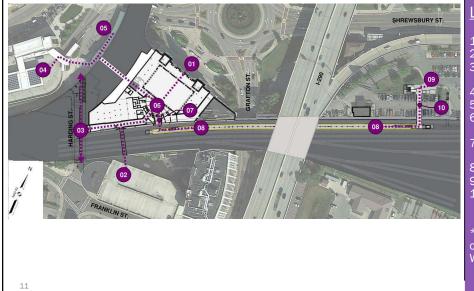








Project Overview- Station Access

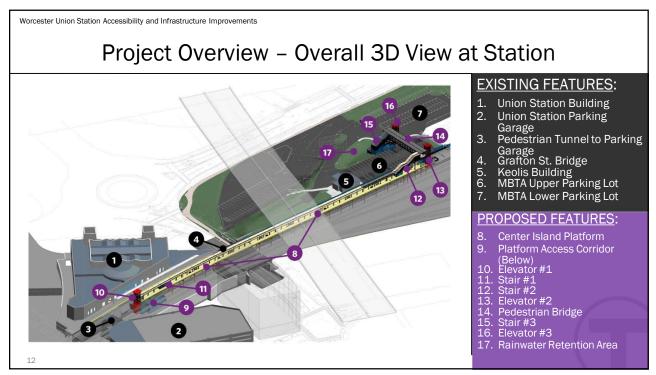


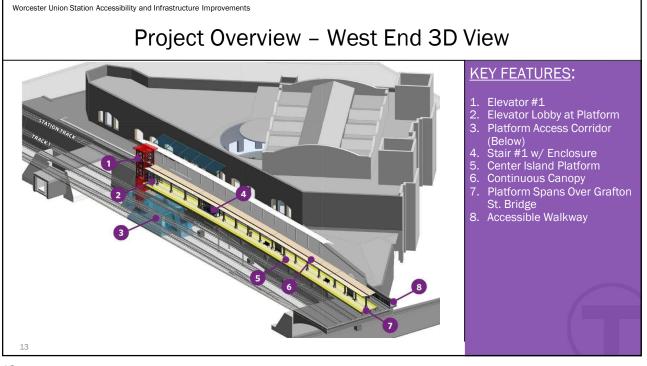
LEGEND:

- Front Entrance / Drop-Off
- Union Station Garage
- 3. Harding Street Entrance / Taxi & Ride Share Area
- 5.
- WRTA Bus Station Inter-City Bus Bays Rotunda (Convergence Point within the Station Building)
- **Platform Access Corridor** 7.
- (<u>Ticketing Located Here</u>) New Center Island Platform 8.
- 9. East Passenger Drop-Off* 10.Pedestrian Bridge (<u>Ticketing</u> Located Here)

* This is currently being coordinated between MBTA and WRA







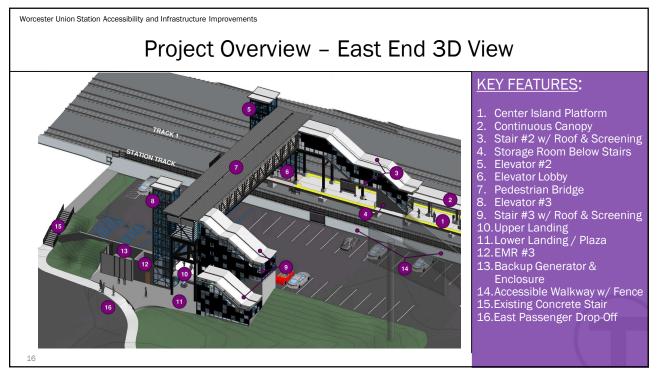




Project Overview – Rendering at West End from Platform



15

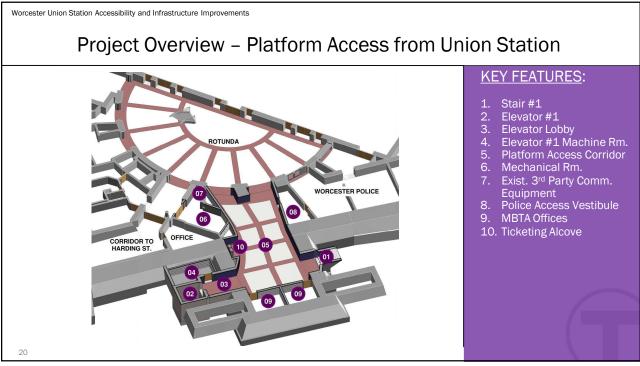


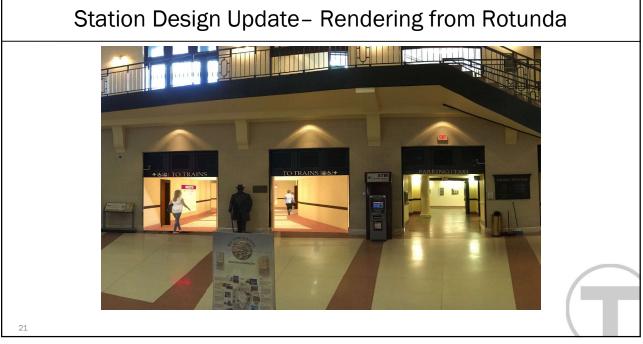




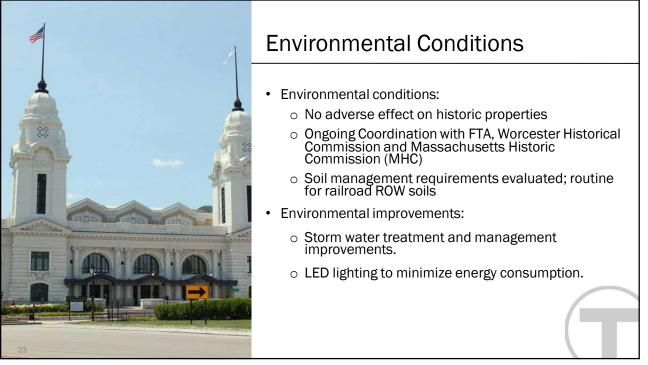








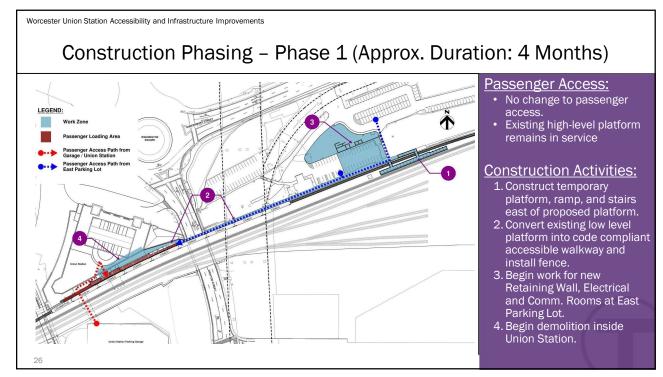


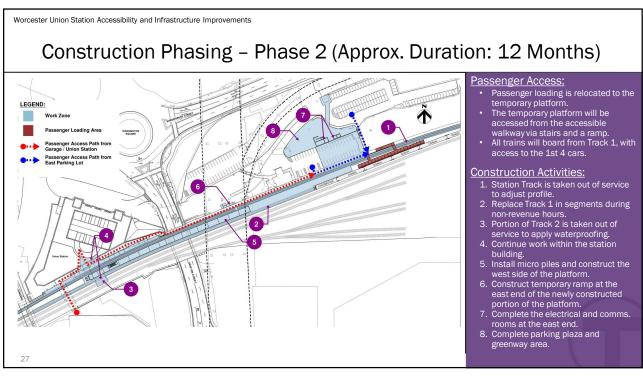


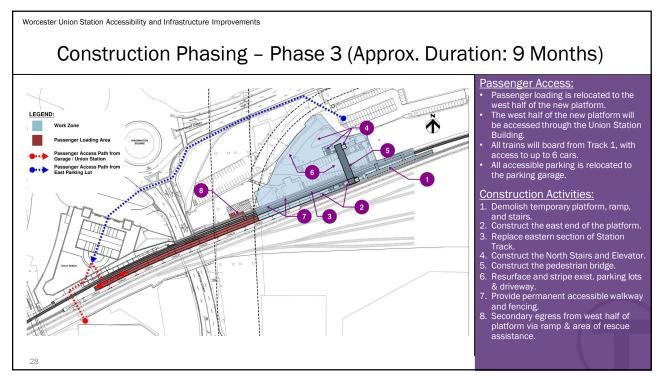
Worcester Union Sta	Worcester Union Station Accessibility and Infrastructure Improvements					
Project Schedule						
	MILESTONE	SCHEDULE				
	30% Submission	July 2019				
	75% Submission	November 2019				
	100% PS&E	Anticipated - June 2020 Actual - April 2020	-			
	Bid Phase	August 2020 – October 2020*				
	Notice to Proceed (NTP) Construction	November 2020				
	Project Completed	Fall 2022				
24	* Pending Construction Funding					



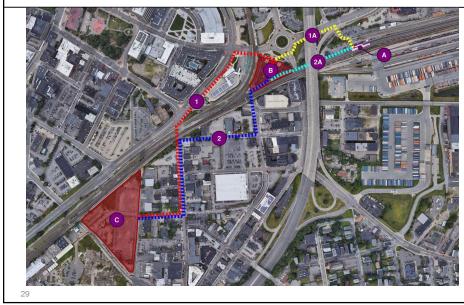
²⁵ 25







Access to Polar Park During Construction



Destination Points:

- A. Temporary Platform
- B. Union Station Building
- C. Baseball Stadium Site

Walking Routes:

From Union Station:

1. 0.5 Miles / Approx. 10 Min. 2. 0.4 Miles / Approx. 9 Min.

From Temporary Platform:

1A: Adds 0.2 Miles / 5 Min. Total: 0.7 Miles / 15 Min.

2A: Adds 0.15 Miles / 4 Min. Total: 0.65 Miles / 14 Min.

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Worcester Union Station Accessibility and Infrastructure Improvements **Questions & Answers** Please share only one question or comment at a time. • To ask a question via phone, dial *9 and the moderator will call out the last 4 digits of your phone number and unmute your audio when it is your turn. Use the "Q&A" button to submit a typed question or comment at any point during the meeting. Press the "Raise Hand" button to share your question or comment verbally. After you raise your hand, wait for the moderator to recognize and unmute you before speaking. After you share your question or comment, we will lower your hand and you will be muted to allow the team to respond and provide opportunities for others to participate. Raise Hand 024 You may also submit your questions or comments if we run out of time, after the meeting, to the project email address: unionstation@mbta.com or visit www.mbta.com/UnionStation for more information. 30

Worcester Union Station Accessibility and Infrastructure Improvements
For More Information On This Project

Visit the Project Website

www.mbta.com/UnionStation

Public and Stakeholders can sign up for email updates from project on website.

Project Email UnionStation@mbta.com

THANK YOU!

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Additional Materials

Additional Materials

Listing of Acronyms

ABP:Accelerated Bridge ProgramACAdvanced ConstructionADA:Americans with Disabilities Act of 1990BIL:Bipartisan Infrastructure LawBMS:Bridge Management SystemCAAA:Clean Air Act AmendmentsCIP:Capital Investment PlanCMAQ:Congestion Mitigation Air QualityCMMPO:Central Massachusetts Metropolitan Planning OrganizationCMP:Congestion Management ProcessCMRPC:Central Massachusetts Regional Planning CommissionCO:Carbon MonoxideCO2:Carbon DioxideCRP:Coronavirus Response & Relief Supplemental Appropriations ActCY:Calendar YearDCR:Department of Conservation and RecreationDEP:Department of Environmental ProtectionDOD:Department of TransportationEJ:Environmental JusticeEPA:Environmental Protection AgencyEPDO:Equivalent Property Damage Only
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EPA: Environmental Protection Agency
ö ,
EPDO: Equivalent Property Damage Only
eSTIP: Electronic STIP
EV: Electric Vehicles
FAST ACT Fixing America's Surface Transportation Act
FFY Federal Fiscal Year
FHWA: Federal Highway Administration
FLMA: Federal Land Management Agency
FRA: Federal Railroad Administration
FTA: Federal Transit Administration
FY: Fiscal Year
GANs: Grant Anticipation Notes
GHG Greenhouse Gas
GIS: Geographic Information System
GWSA: Global Warming Solutions Act
HIP: Highway Infrastructure Program
LIDNAC, Lliphway Darfarmanaa Manitaring Cystam
HPMS: Highway Performance Monitoring System HPP: High Priority Project

HSIP:	Highway Safety Improvement Program
IIJA:	Infrastructure Investment and Jobs Act
IM:	Interstate Maintenance
IRI:	International Roughness Index
ITS:	Intelligent Transportation Systems
LEP:	Limited English Proficiency
LOTTR:	Level of Travel Time Reliability
LRTP:	Long Range Transportation Plan
MaPIT:	Massachusetts Project Intake Tool
MAP-21:	Moving Ahead for Progress in the 21 st Century Act
MARPA:	Massachusetts Association of Regional Planning Agencies
MARTA:	Massachusetts Association of Regional Transit Authorities
MassDOT:	Massachusetts Department of Transportation
MBTA:	Massachusetts Bay Transportation Authority
MOU:	Memorandum of Understanding
MPO:	Metropolitan Planning Organization
MVP:	Municipal Vulnerability Preparedness
NAAQS:	National Ambient Air Quality Standards
NBIS:	National Bridge Inventory Standards
NBS:	Nature-Based Solutions
NEVI:	National Electric Vehicle Infrastructure
NFA:	Non Federal-Aid
NGBP:	Next Generation Bridge Program
NHFP	National Highway Freight Program
NHPP:	National Highway Performance Program
NHS:	National Highway System
NOx:	Any of the Oxides of Nitrogen
NPMRDS:	National Performance Management Research Dataset
NTD:	National Transit Database
ODCR:	Office of Diversity and Civil Rights
O3:	Ozone
ОТР	Office of Transportation Planning
PBPP:	Performance-Based Planning & Programming
PDA:	Priority Development Area
PEA:	Planning Emphasis Area
PEL:	Planning & Environmental Linkages
PHED:	Peak Hour Excessive Delay
PL:	Metropolitan Planning funds (federal)
PM:	Performance Measures
PMS:	Pavement Management System
PPP:	Public Participation Program
PRC:	Project Review Committee
PROTECT:	Promoting Resilient Operations for Transformative, Efficient, & Cost Saving
	Transportation

PSI: PTASP:	Pavement Serviceability Index Public Transportation Agency Safety Plan
RITIS:	Regional Integrated Transportation Information System
ROW:	Right Of Way
RPA:	Regional Planning Agency
RSA:	Roadway Safety Audit
RTA:	Regional Transit Authority
RTACAP	Regional Transit Authority Capitol Assistance
RTP:	Regional Transportation Plan
SD:	Structurally Deficient
SGR:	State of Good Repair
SHSP	Strategic Highway Safety Plan
SIP:	State Implementation Plan (for Air Quality)
SMS:	Safety Management System
SOV:	Single Occupancy Vehicle
SRTS	Safe Routes to School
STIP:	State Transportation Improvement Program
STBG:	Surface Transportation Block Grant Program
TAM:	Transit Asset Management Plan
TAMP:	Transportation Asset Management Plan (Highway)
TAP:	Transportation Alternative Program
TDC:	Transportation Development Credits
TEC:	Transportation Evaluation Criteria
TERM:	Transit Economic Requirements Model
TFPCC	Total Federal Participating Construction Cost
TIP:	Transportation Improvement Program
Title VI	Title VI of the Civil Rights Act of 1964
TTTR:	Truck Travel Time Reliability
ULB:	Useful Life Benchmark
UPWP:	Unified Planning Work Program
UZA:	Urbanized Area
VMT:	Vehicle Miles of Travel
VOC:	Volatile Organic Compounds
WRTA:	Worcester Regional Transit Authority
YOE:	Year of Expenditure
3C:	Continuing, Cooperative & Comprehensive (planning process)

Partner Agencies

The Long-Range Transportation Plan (LRTP), 2050 Connections is the product of a comprehensive, continuous, and cooperative effort to improve and sustain the transportation systems of the Central Massachusetts Region. The decisions and priorities established within are derived and shaped through outreach to and input from local officials, the CMMPO, the Worcester Regional Transit Authority (WRTA), the Central Massachusetts Regional Planning Commission (CMRPC), the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the MassDOT OTP, the MassDOT Highway Division and any and all interested individuals, organizations and stakeholders in the public at large. Throughout the development and decision-making process, all individuals in the region are strongly encouraged to participate in the transportation planning process, voice any opinions or concerns and help shape and guide the development of this document.

Additional Materials

2050 Connections Comment Checklist from MassDOT OTP

	MPO Liaison LRTP Review Checklist						
				Completeness			
ID			Review Item	Comments	Reference		
A1	~	*	Table of Contents is accurate and internally- linked.	N/A	✔ for use in column B		
A2		*	Document has no broken links.		X for use in column B		
A3		*	MPO self certification statement is included.	Please include the MPO self certification endorsement sheet for signature.			
A4	~	*	GHG certification is included.				
A5	~	*	Air Quality Conformity statement is included.				
A6		*	Document has no text or image placeholders.	Please make sure Technical Appendix is avilable online after MPO endorsement. Please make sure figures throghout Chapter 4 are incorporated into final version.			
A7	~	*	Charts, tables, and maps are legible and properly annotated.				
A8	~	*	Document passes an accessible check.				
A9	~	*	Document is available in relevant languages per the MPO's Title VI Plan.				
A10	~	*	List of MPO members is current.				
A11	~	*	Signatory sheet is included and accurate. Update Gina Fiandaca as Secretary/CEO of MassDOT.				

A12		*	Acronyms and partner agency lists are up to date.	Please concisder including an acronyms and partner agency list in the appendix. This can be copied directly from the list in the TIP & UPWP.	
				Narrative	
ID			Review Item	Comments	Reference
B1	~	*	RTP outlines MPO institutional organization.		
B2		*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		https://www.transit.dot.gov/regulations-
	~		RTP links to BIL planning emphasis areas.		and-programs/transportation- planning/2021-planning-emphasis-areas
B3		*	RTP references the TIP		pianning/2021-pianning-empirasis-areas
ВЗ	~		and the UPWP.		
		*	RTP narrative is concise		
B4			and reader-friendly.		
B5	1	*	RTP discusses evaluation		
	•		scoring.		
B6	1	*	RTP includes project		
	•		scoring table.		
	1	*	RTP describes public		
B7	•		participation process.		
B8		*	RTP references projects		
			that are considered to be		
			regionally significant. If		
			RTP lists "regionally		
	~		significant" projects in a		
			financially constrained		
			manner, please notify		
			the Manager of MPO		
B9		*	Activities.	Please consider	https://www.fhwa.dot.gov/specialfunding/
69				including the	https://www.mwa.uot.gov/specialiunung/
				following link in the	
				appendix, or	
				perhaps in the	
				'Federal Programs'	
	~			section of Chapter	
				2, so the audience	
			RTP describes funding	has full information	
			sources accurately and	on the non-	
			notes new funding	discretionary	
			sources in BIL.	programs in BIL.	

D.1.	1	.			1
B10	~	*	RTP is comprehensible to the general public.	Please consider addressing the following potential minor errors/typos: - Ch 6, in the 'Projected Revenue' subsection on page 7, the third sentence of the first paragraph describes state funding revenues but introduces them as federal revenues. Please confirm whether the sources describes are for state or federal funds. On the same page, in the last	
				paragrah, it is noted that "After 2045, the regional targets include a projected 2% increase per year." Should this be	
D 44		+		2025?	
B11	1	*	RTP vision, goals, and objectives are clearly stated, and discuss the influnce of public feedback and participation.		
B12	~	*	RTP discusses coordination and collaboration with regional and state agencies that contributed to document development.		
B13	~	*	RTP outlines reference and coordination with other regional planning efforts and MassDOT statewide plans. This includes all modes of transportation and also economic development,		https://www.mass.gov/statewide-plans

			housing coordination, recreation, etc.		
			Pe	erformance Measure	ement
ID			Review Item	Comments	Reference
C1	~	*	RTP includes discussion of target-setting process.		
C2	~	*	RTP references relevant Transit Asset Management (TAM) Plans and includes all TAM Plan targets.		https://www.transit.dot.gov/TAM/TAMPlans
C3	~	*	RTP references relevant Public Transportation Agency Safety Plans (PTASPs) and includes all PTASP targets		https://www.transit.dot.gov/PTASP
C4	~	*	RTP includes current adopted performance targets.		PM1, PM2, PM3, TAM, and any regionally-derived targets
C5	~	*	RTP discusses relationship between performance targets and project selection.		
C6	~		Discussion on performance measures compares regional data to statewide data where available.		
C7	~	*	Future projects and studies under consideration outline beneficiaries at the local, regional, state, and inter- state leve as appropriate.		
C8	~		Transit-related efforts are specific.		
C9	~	*	Includes a discussion on performance-based planning.		
C10	~	*	Includes a discussion of efforts to update to any congestion mitigation planning.		Required for TMA MPOs if current CMP is out of date.
C11	~		If previous priorities, projects, or studies have not advances, please		

			discuss challenges and potential solutions.		
			· ·	sting and Program D	avalanment
ID			Review Item	Comments	Reference
		*	Financial projections align	Comments	Reference
D1	✓		with MassDOT guidance.		
			If the LRTP establishes or		
			updates programs, there		
			is a clear linkage to the		
	~		TIP (e.g. X% of funds		
			spent on Complete Streets, X% of Safety,		
			etc.)		
		*	If projects are listed, they		
	✓		use MassDOT ProjectInfo		
D2			TFPCs.		
		*	If projects are listed, they		
D3	~		use MassDOT ProjectInfo description.		
05	1			Impact Analysis	
ID			Review Item	Comments	Reference
E2		*	GHG analysis is available		
			for all (and only) funded		
			projects.	N/A	
E3		*	All projects are		
			appropriately labeled as qualitative or quantitative.	N/A	
E4		*	Transit projects have		
			been analyzed for GHG.	N/A	
E5		*	Past and current TIP		
			projects have been		
			analyzed for geographic		
	~		equity, including a relevant table of		
			programming by		
			municipality.		
E6		*	Past and current TIP		
	~		projects have been		
E7		*	analyzed for social equity. Social equity analysis		
	~		considers Title VI /		
	-		language access.		
E8	1	*	Social equity analysis		
	~		considers EJ populations,		
	-		including both federal and		
E9		*	state definitions. Equity analysis includes a		
E9	~		narrative to accompany		
			any figures.		
L			,		

E10		*	RTP includes a geographic equity distribution table showing location of 2024-2028 TIP projects and 2018–2022 and current UPWP-funded studies by municipality and number of tasks.	N/A	
E11		*	RTP includes a social equity distribution table of 2024-2028 TIP projects and 2018-2022 and current UPWP funded- studies considering language access and EJ populations.	N/A	
E12	~	*	Public involvement and comment are explicitly documented and in line with MPO's Public Participation Plan.		