

CITY
IN
MOTION
2017



Transportation Master Plan (TMP)

Review & Update – Final Report Presentation, June 20, 2018



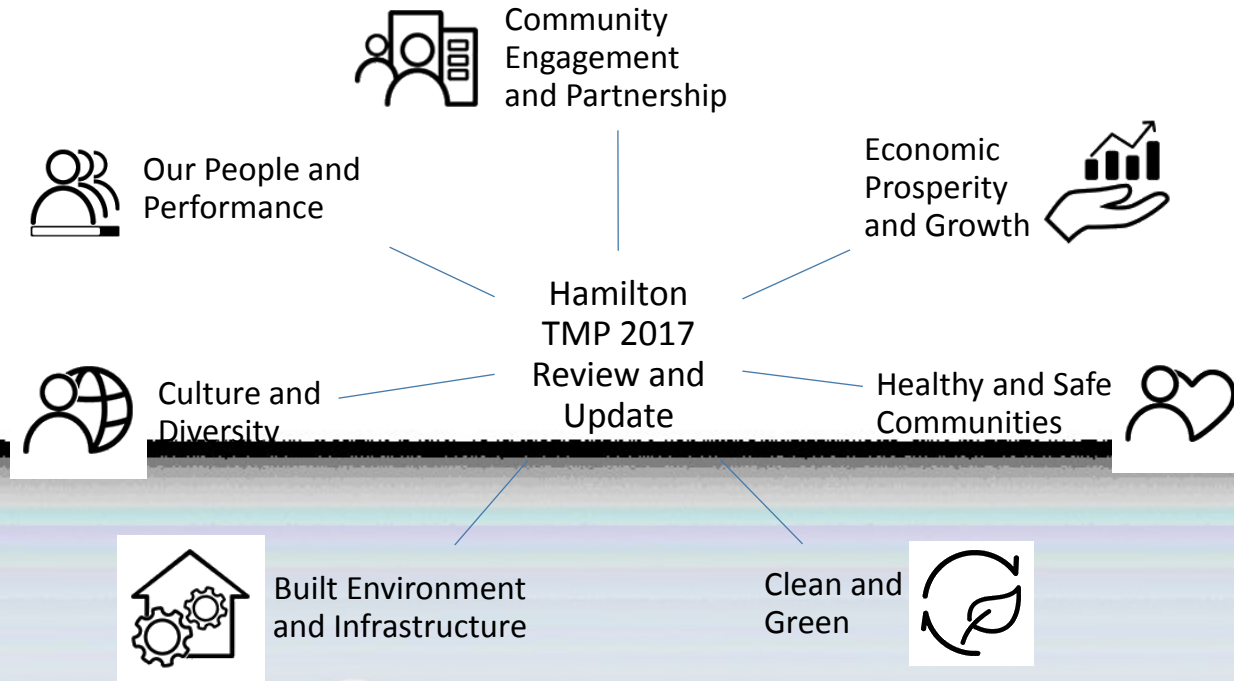
Vision

“ To provide a comprehensive and attainable transportation blueprint for Hamilton as a whole that balances all modes of transportation to become a healthier city.

The success of the plan will be based on specific, measurable, achievable, relevant and programmed results. ”



Alignment with Hamilton's 10-year Strategic Plan



Setting the Stage for New Directions

- Rapid Ready and 10-Year Local Transit Strategies
- B-Line Light Rail Transit (LRT) Transit
- West Harbour GO Station, other transit terminals and park & rides
- Pedestrian and Cycling Master Plans
- Hamilton Strategic Road Safety
- Smart Commute Initiatives
- Community partnerships
- Adequate, sustainable funding
- Balance of BLAST rapid transit network
- Alignment between transportation and public health
- A more service-based economy
- Emerging technologies
- Building capacity to serve new growth areas
- Dependency on single-occupancy vehicles
- Increasing commuting distances



What We Heard

“ Incorporate accessibility, be all encompassing, include a holistic approach, balance all modes of transportation, be comprehensive and attainable

Sustainable transportation planning is important to the long-term future of the transportation system

Focus on public transit, walking and cycling, complete streets and complete communities

Improve connectivity between Upper and Lower Hamilton

Integrate Public Health Services and Public Works initiatives

*Provide seamless connections between all travel modes
Consider alternate and emerging technologies*

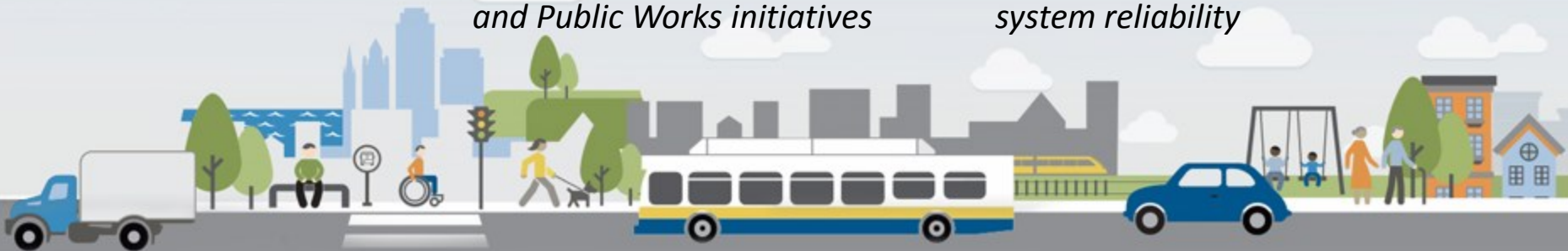


Consider accessibility for people of all ages and abilities

Public awareness is necessary for goods movement initiatives – leading to continued commitment to continued education

Need for better communication and integration between agencies and stakeholders

Data sharing between agencies and stakeholders will enable system reliability”



Catalysts for Change

Demographic, economic and travel

	<i>Forecast by 2031</i>
Population	Up 22.9%
Employment	Up 23.4%
Number of older adults 60 years+	Up 65%
	<i>Last 4 to 5 years</i>
Daily commuters working outside Hamilton	Up 19.3%



Catalysts for Change

Technology

Vehicles

Autonomous
Connected
Electric

People and the way they will share mobility

Car share
Bike share
Personal mobility providers

Information and communications

The Internet of Things
Smart Cities
Sensors
Big Data



Three New Strategic Directions

TMP Review and Update Strategic Directions

Enables...

1. Sustainable and Balanced Transportation System

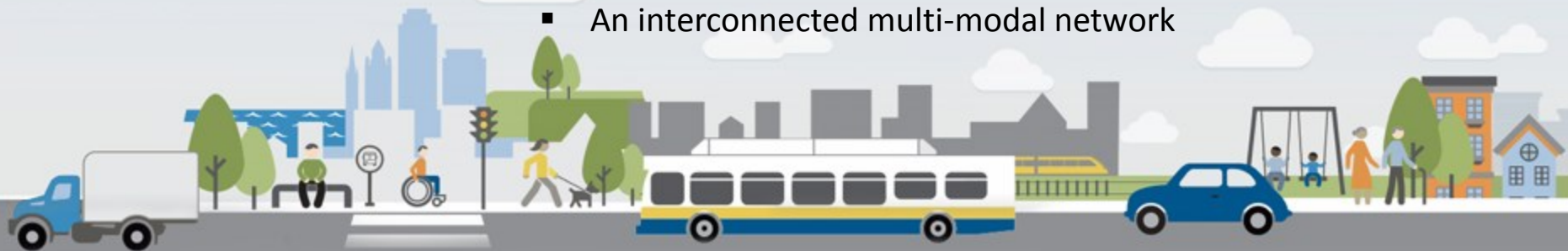
- Hamilton's economic, social and environmental goals
- Life-cycle asset planning and financing
- Connectivity and accessibility for all ages, abilities and incomes
- Improved transportation choice

2. Healthy and Safe Communities

- Active lifestyles
- Safe movement of people and goods

3. Economic Prosperity and Growth

- Efficient access to markets, customers and high quality jobs
- People providing for themselves and their families
- Dedicated transit and truck corridors
- An interconnected multi-modal network





Sustainable and Balanced Transportation System

Strategic Direction #1

- Sustainable Mobility
- Active Transportation
- Cycling Master Plan
- Transit
- Roads
- Complete Livable Better Streets
- Connectivity
- Climate Change
- Emerging Technologies
- Inter-governmental Relations



Sustainable Mobility and TDM

Reducing dependency on Single Occupant Vehicles (SOV) by providing and encouraging realistic alternatives reduces pressures (and costs) to expand road capacity

Key Actions

- Expand the reach and effectiveness of existing programs
- Expand Smart Commute services to a wider range of businesses and geographic coverage
- Undertake individualized marketing
- Coordinate school travel plans
- Integrate TDM with new development



Community-Based Social Marketing

Mobility Lab



Active Transportation

Walking and cycling are important elements of a livable healthy city

Key Actions

- Update and apply prioritization framework for sidewalk extensions
- Integrate walking and cycling needs into 10 year capital plan
- Work across departments to improve walking environments
- Create business plan for bikeshare expansion
- Monitor and enhance maintenance program for pedestrian and cycling facilities



Cycling Master Plan Update

The Cycling Master Plan provides Information and resources to increase awareness about non-motorized travel and guides the implementation and monitoring of active transportation projects and infrastructure.

Key Actions:

- Maintain annual capital budget for project implementation
- Integrate cycling needs into 10 Year Capital Budget for road reconstruction/rehabilitation – “follow the pavers”
- As part of implementation, undertake evaluation of alternatives to maximize safety and promote continuity of the network across the City



Transit

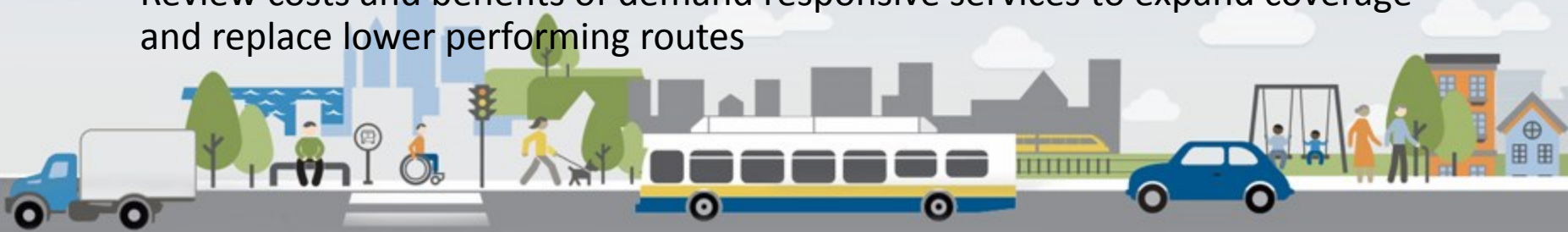
A range of effective transit services are required to meet growing transportation demands – local, rapid, regional and intercity

Key Actions:

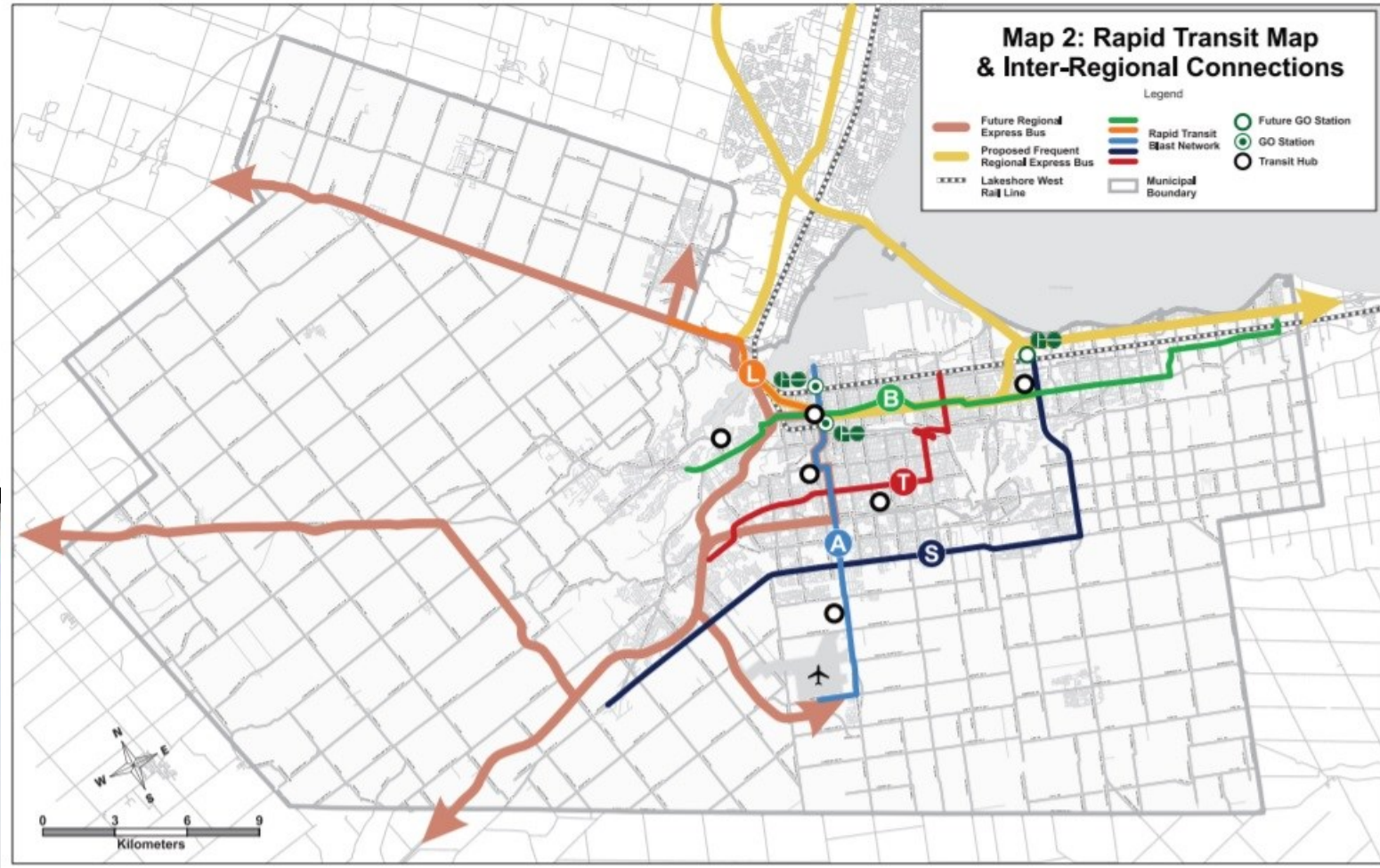
- Continue to advance planning for the implementation of the BLAST rapid transit network
- In partnership with Metrolinx:
 - Confederation GO Station
 - Two-way All-Day GO rail service
 - Funding support for BLAST network



- Work with neighbouring municipalities to optimize cross-boundary transit
- Implement transit priority measures
- Review costs and benefits of demand responsive services to expand coverage and replace lower performing routes



Transit



Roads

Achieving mode share targets means that overall auto trips in 2031 will be similar to today, but the pattern of trips will change. Accommodating growth while maintaining an efficient road network requires a suite of improvements.



Key Actions

- Move to a managed lane approach
- Advocate for provincial highway network improvements
- Continue to invest in Intelligent Transportation Systems
- Plan for connected and autonomous vehicles
- Implement road improvements in advance of growth
- Continue to implement intersection modifications



Complete-Livable-Better (CLB) Streets

- Implementation through routine accommodation and performance guidelines:
 - Maximizing the movement of people and goods not only private vehicles
 - Allocate space for all users
 - Choice and flexibility to get to destinations
 - Enhanced public realm, landscaping and environmental sustainability
 - Comfortable, healthy and safe opportunities for people of all ages and abilities
 - No one-size-fits all solution

Key Actions

- Develop CLB Streets design manual
- Use Multi-modal Level of Service approach to evaluate road designs
- Provide paved shoulders on rural roads where cycling is prevalent
- Many actions in TMP support CLB Streets approach



One-way to Two-Way Conversions

Decision Framework

- Stage 1: Evaluate road design alternatives and impacts on
 - comfort
 - direct routing
 - road safety
 - travel time
 - emergency services
 - cost
- Stage 2: Prioritization based on Hamilton's Strategic Plan and TMP vision and goals

What does the TMP say about Main Street?

- Conversion to two way is feasible from east of Wellington.
- Conversion through downtown would require reconfiguration of 403 ramps.



Connectivity, Climate Change, Emerging Technology and Intergovernmental Relations

Over the next decade there will be many disruptive changes in transportation. Hamilton must be prepared to respond to these changes.

- Be aware and responsive to:
 - Autonomous Vehicles (AV's) and other new technologies and trends
 - The potential of electric, hydrogen and other new rail and transit technologies
 - Potential for “Big Data” to help deliver more efficient transportation
- Support the transformation of our transportation system to:
 - Create a “Smart City”
 - Integrate with the Regional transportation initiatives
 - Introduce innovative options for escarpment crossings





Healthy and Safe Communities

- **Built Environment**
- **Road Safety**
- **Accessibility**

Strategic Direction #2



Health and the Built Environment

Transportation and the built environment has a major influence on health, mental well-being, ultimately healthcare costs

Key Actions:

- Include health outcomes in the evaluation of transportation designs, projects and policies



Road Safety

Best practices involves addressing road safety holistically through the five elements of: Education, Enforcement, Engineering, Evaluation and Engagement

Key Actions

- Integrate the goals and principles of Vision Zero into the CLB streets design manual and other guidelines
- Establish Vision Zero Task Force
- Implement comprehensive collision data collection system
- Apply speed reduction techniques through the implementation of CLB Streets
- Public education on the effects of traffic calming and management
- Explore the implementation feasibility of Vision Zero



Age-Friendly and Accessibility

Planning for age-friendly accessible communities includes equitable access to transportation regardless of age, ability or socio-economic status

Key Actions:

- Support delivery of age-friendly and accessible transit training
- Develop education around sidewalk etiquette





Economic Prosperity and Growth

- Land Use and Travel Patterns
- Parking Strategy
- Economic Development
- Goods Movement

Strategic Direction #3



Linking Transportation Planning with Land Use and Economic Development

Transportation and land use go hand in hand. When planned right, the outcome can result in:

- Shorter trip distances
- Improved transit and active transportation opportunities
- Efficient movement of goods
- Reduction of automobile dependence

Key Actions:

- Update TIS Guidelines to include concept of Multi-modal Level of Service
- Update Road Right-of-Way policies within OP to ensure future development protects for multi-modal capacity, municipal services, utilities, CLB streets and Vision Zero



Parking

Parking management is closely linked to sustainable transportation and economic development

Key Actions:

- Undertake City-wide Parking Master Plan
- Integrate requirements for EV parking into Zoning By-law and expand EV charging stations
- Adopt off-street and on-street policies that ensure a responsible amount of parking, are in line with mode share target and recognize increasing pressures on on-street parking
- Evolve the Hamilton Municipal Parking System to support new mobility options



Goods Movement

Efficient Goods Movement is critical to Hamilton's economy, but there is also a need to balance impacts on communities.

Key Actions:

- Update the 2010 Truck Route Master Plan and 2005 Goods Movement Study
- Focus on developing the two existing intermodal hubs: Hamilton International Airport and the Port of Hamilton
- Integrate goods movement data to inform transportation planning and investment





Implementation Strategies



Implementation Strategies

Key Actions:

- Create in-house modelling capacity to monitor and maintain the City's travel demand model
- Implement proposed monitoring program
- Create budgets based on designs as opposed to designs based on budgets to provide higher quality infrastructure
- Apply asset management best practices which include consideration of operating and maintenance costs



Intergovernmental Partnerships

Many congestion problems and expansion needs are located beyond the City of Hamilton's jurisdictional responsibility

Stronger partnerships with:

To enable:

Metrolinx, the Greater Toronto Transportation Authority

- Two-way all-day GO rail service
- Regional Express Rail (RER) electrification
- GO Niagara rail extension
- BLAST Rapid Transit readiness
- Mobility Hubs and "First and Final Mile" connections
- GTHA Goods Movement Strategy

Ontario Ministry of Transportation

- Highway 403 expansion
- QEW expansion
- Future Niagara-GTA corridor
- A comprehensive Southern Ontario Highway Master Plan
- Bicycle and Active Transportation networks

Ontario Ministries of Finance, and Municipal Affairs and Housing

- Financial empowerment and sustainability with new dedicated revenue tools

Ontario Ministry of the Environment and Climate Change

- Transportation that is resilient to the impacts of Climate Change

Federal Infrastructure Bank and Infrastructure Ontario

- Funding/financing support for local highway and rapid transit projects



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Thank You

