

Emerging technology strategy: technical draft

Metro Council

June 5, 2018

Our purpose today:

Provide an overview of the discussion draft of the Emerging Technology Strategy (ETS).

Pending approval by Council, the ETS will be included as part of the public review draft of the RTP.

Emerging technologies



Automated vehicles (AVs)



Connected vehicles (CVs) and CV infrastructure



Electric vehicles (EVs)



Transportation network companies (TNCs)



AV/EV transit vehicles



Microtransit



Car share



Bike share



Travel information and payment



New data sources



We need this strategy so that we can guide innovation in transportation technology toward creating a more equitable and livable region.



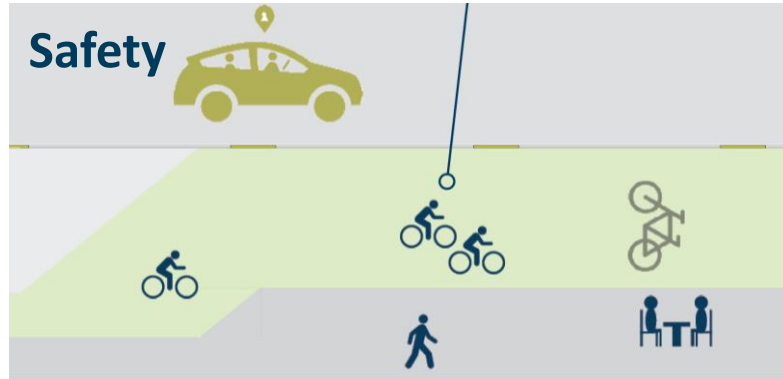
Even people who don't use these technologies are affected by them, and we want the whole region to benefit.

Technology makes pressing regional issues even more urgent

Regional transit strategy



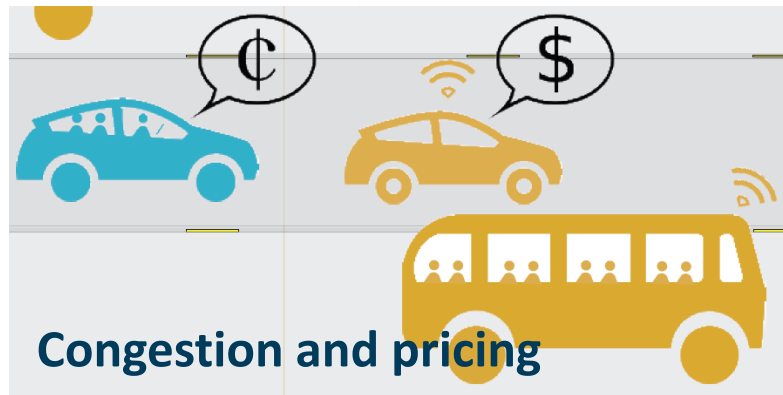
Safety



Equity



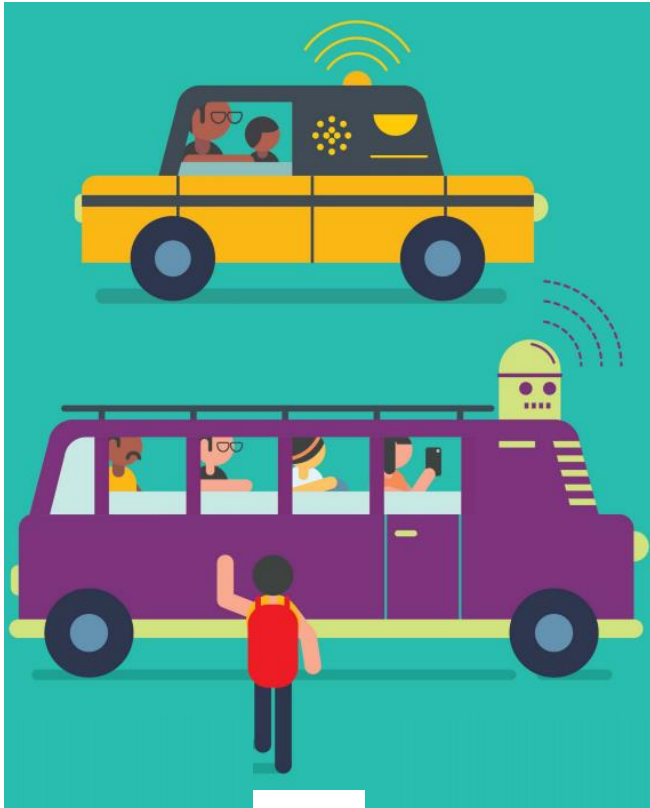
Congestion and pricing



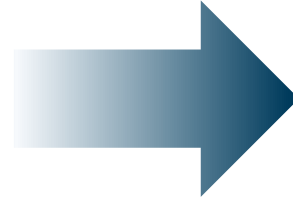
Growth and affordability



The ETS will be part of the RTP



Single document for readers focused on technology



Integrated throughout RTP strategies and policies

What's **new**? What have we discussed?

**Technology
trends and
impacts**

This has been a part of every discussion of the Strategy, but the draft goes into **more detail**.

**Assessment of
individual
technologies**

**Vision, policies,
implementation
actions**

- **Jan:** MTAC-TPAC workshop
- **Feb-Mar:** Metro tech & policy committees
- **Mar:** Emerging tech working group review
- **Apr:** MTAC-TPAC workshop on RTP policies

**Next steps for
Metro**

Four core policies

Equity: Make emerging technology accessible, available, and affordable to all, and use technology to create more equitable communities.

Choices: Use emerging technology to improve transit service, provide shared travel options throughout the region and support transit, bicycling and walking.

Information: Use the best data available to empower travelers to make travel choices and to plan and manage the transportation system.

Innovation: Advance the public interest by anticipating, learning from and adapting to new developments.

Changes to policies in this version



Choices



Equity



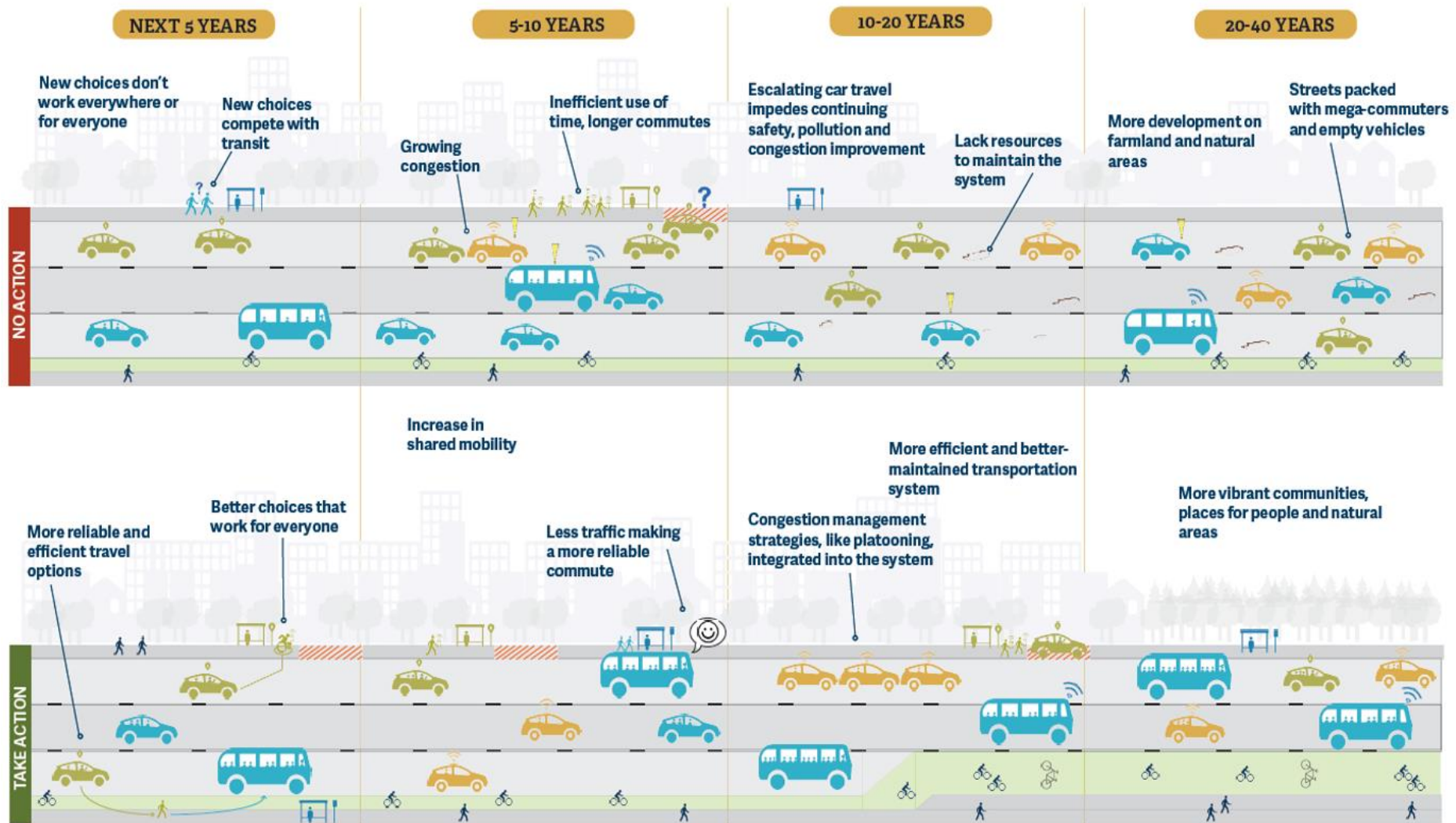
Information



Innovation

- Wordsmithed policies and actions
- Increased focus on supporting transit in Choices policy
- Removed Prosperity policy focus
- Crosswalked policies and regional goals
- Detailed the applications of technology we want to see
- Added info on who would lead implementation

New: outlining a path to long-term success



New: taking a deeper look at individual technologies

Goal	Automated vehicles	Connected vehicles	Electric vehicles	Ridehailing	Coordinated microtransit	Luxury microtransit	Station-based car share	Conventional bike share	Free-floating / peer-to-peer bike share	Travel information and payment
Vibrant communities	+/-	+/-					+		-	
Economic prosperity	-			-				+		
Transportation choices	+/-	+/-		+/-	+/-	-	+	+	+	+/-
Congestion	+/-	+/-		+/-	+	+	+			
Safety	+	+		-					-	
Environment	-	-	+				+	+	+	
Health			+					+	+	
Equity	+/-	+/-	+/-	+/-	+	-	+/-	+/-	+/-	+/-
Accountability	-	+		+/-	+	-	+	+/-	-	-
Fiscal stewardship		+	-		+	-				

New: two-year next steps for Metro

- Fund **technology pilot projects** (through new and existing grant programs)
- Convene stakeholders to establish consistent **new mobility policies** across the region
- Develop **better data and tools** to plan for emerging technologies
- Advocate for **state and federal technology policy** that supports our regional goals

What's next?

Jun 2018

- Council considers approving ETS release as part of the **RTP public comment draft**

Jun-Aug 2018

- **Public comment** period
- Staff request Council approval to begin selected **implementation actions**

Sep-Dec 2018

- Technical / policy committee **adoption process** for final draft RTP (including ETS)
- Council **considers approving** adoption draft of RTP

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