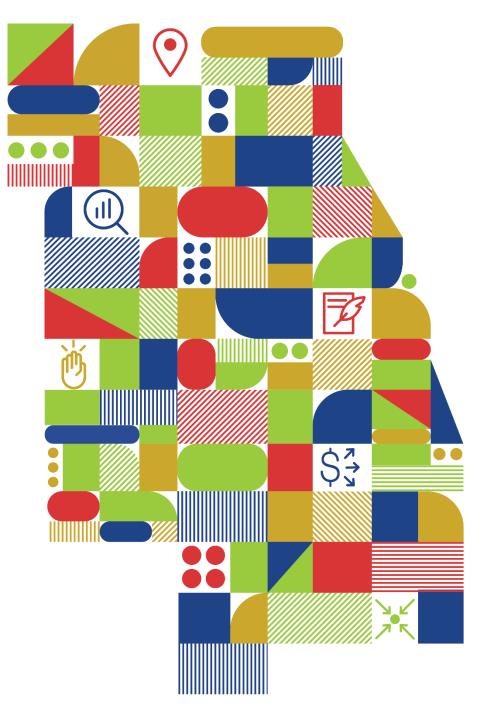


## Transportation GHG Reduction Strategies

May 6, 2021



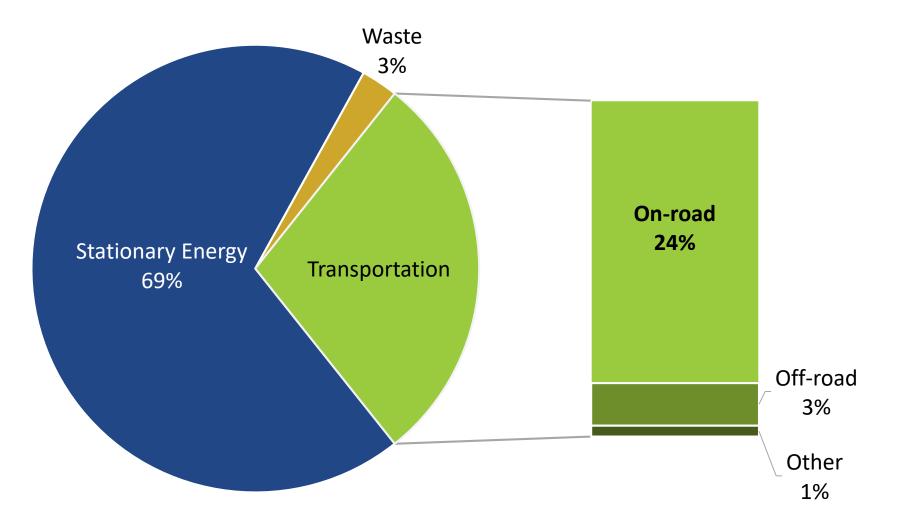
### FY22 Climate Focus Area Work Plan

- 1. Regional climate planning and coordination
- 2. Transportation mitigation strategies
- 3. Local climate action and capacity building
- 4. Climate data and information
- 5. GHG reporting and performance monitoring
- 6. Electric vehicle infrastructure strategy
- 7. Regional greenhouse gas inventory
- 8. Regional transportation vulnerability assessment



#### On-road emissions are nearly one-quarter of all emissions

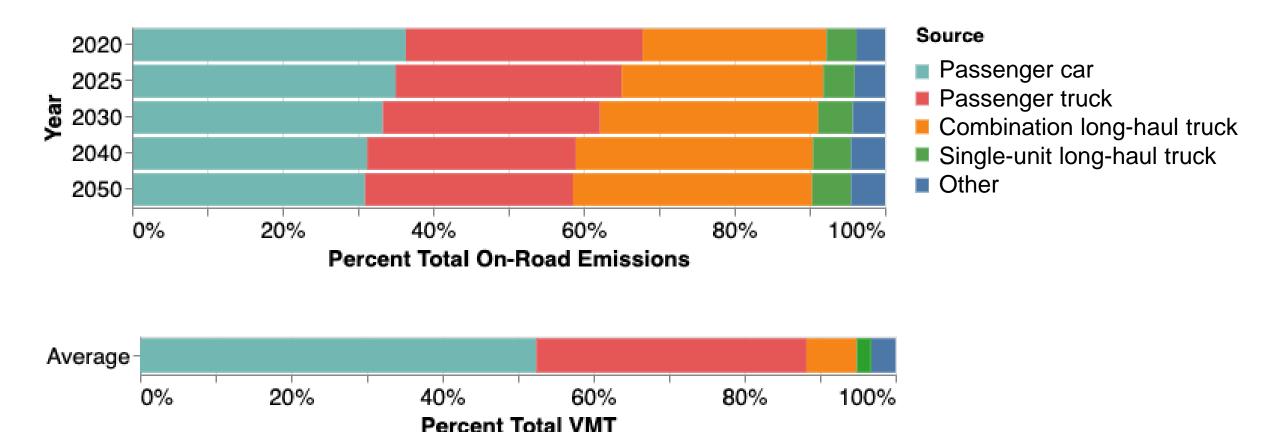
2015 Greenhouse Gas Inventory. Total Emissions = 119.13 MMTCO2e.



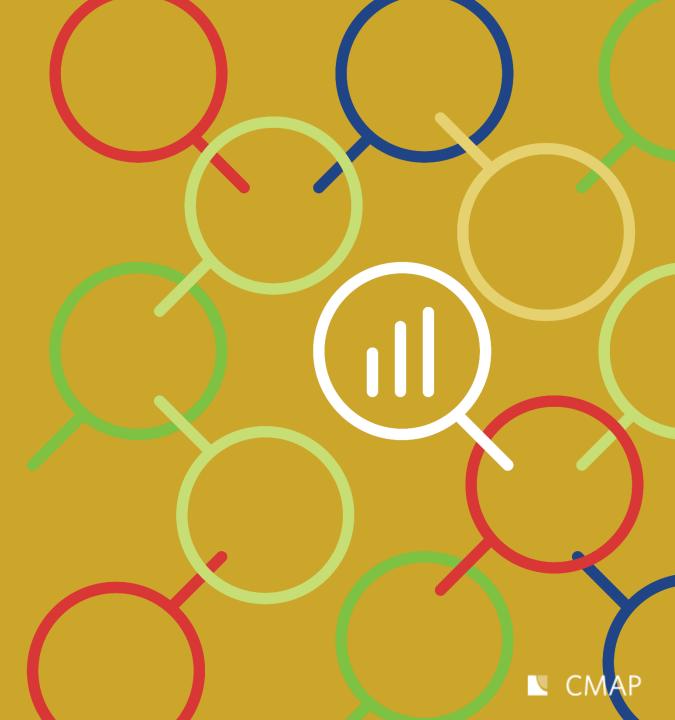


# Majority of emissions from Passenger Cars, Passenger Trucks, and Combination Long-haul Trucks

Percent Total Emissions by Year by Source Type for Spring 2020 Conformity Run Majority of VMT is from Passenger Cars and Trucks (bottom)



Transportation Mitigation – strategies to reduce GHG



## Scenarios

#### **Travel Behavior**

- Transit RSPs
- Highway RSPs
- Increase transit use
- Driving cost
  - Price parking
  - Tolling/ congestion pricing
  - VMT or GHG tax
- Congestion reduction technologies
- Increase work from home

#### Vehicle Technology

- Electrify cars
- Electrify freight
- Electrify transit
- More efficient vehicles (CAFE standards)
- Other alternative fuels

#### Future Analysis / Out of Scope

- Land use
- Air / Marine
- Electricity source
- Manufacturing / materials

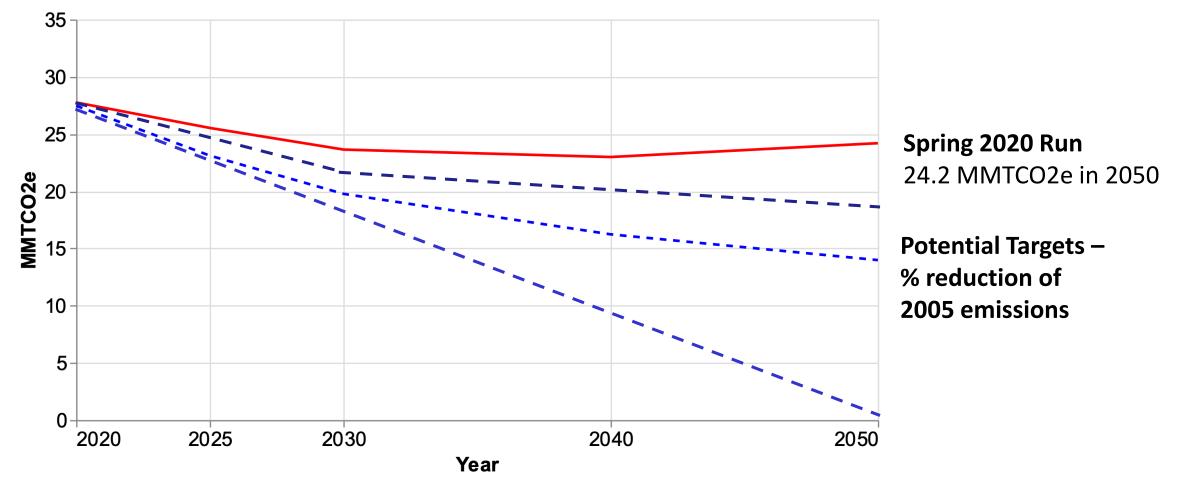


### **Draft Scenario Results**

				EDA	Transit	Truck	Passenger
Scenario	VMT	GHG	PM 2.5	PM 2.5	Ridership	GHG	GHG
Highway RSP	0%	0%	3%	2%	-2%	0%	1%
Transit RSP	-1%	0%	4%	3%	0%	0%	0%
Price Parking Low	-1%	-1%	-1%	-1%	1%	0%	-1%
Price Parking Medium	-2%	-1%	-2%	-1%	7%	0%	-2%
Price Parking High	-4%	-2%	-3%	-2%	15%	0%	-4%
Work From Home 20%	-5%	-4%	-5%	-5%	-10%	0%	-6%
Work From Home 50%	-15%	-10%	-13%	-13%	-25%	0%	-17%
2050 Carbon Tax \$75	-2%	-1%	-2%	-1%	4%	0%	-2%
Off Peak Truck Delivery 25%	0%	0%	-1%	0%	0%	-1%	0%
Off Peak Truck Delivery 75%	2%	0%	4%	3%	-1%	-2%	1%
Short trip mode shift 50%	-6%	-4%	-5%	-6%	-1%	0%	-7%

### Where are we trying to go?

Emissions by Year for Spring 2020 Conformity Run and Draft Reduction Target





## **Next Steps**

Continue to model travel behavior scenarios

Examine the impact of alternative fuels such as electric, LNG, and hydrogen

Set targets for transportation GHG

Develop policy recommendations to achieve targets



### Discussion

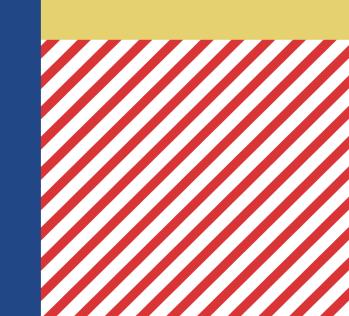
1. What are others, your organizations, doing to reduce emissions and address the climate crisis?

2. Is there a need for a regional conversation and or coordination around Transportation Mitigation action?





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