



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Agenda Item 6**

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TO: Policy Advisory Council

DATE: October 3, 2018

FR: Shruti Hari

RE: Regional Safety Program: Regional Strategies for Driving Down Fatalities and Serious Injuries

MTC staff will be at your October 10 meeting to present a preview of the Regional Safety Program, focused on harnessing data for reducing fatalities and serious injuries in the region.

**Regional Safety Program:**

MTC believes that safety is a top priority and must be a central consideration as we proactively plan, fund and build transportation improvements in our region. Towards that end, MTC is interested in establishing a regional safety program that integrates safety data from throughout the region, in order to identify critical traffic safety issues and set performance targets that offer the most potential for lowering transportation-related fatalities and injuries.

MTC recently applied for and received \$500,000 in Caltrans Systemic Safety Analysis Report Program (SSARP) funds towards the development of a:

- A. Regional Safety Data System – The data system would integrate safety-related datasets like roadway inventory, traffic volumes and crash data, and would be capable of a) conducting crash analyses to identify crash patterns and trends in our regions and b) conducting network screening analysis on all roads to identify and quantify the potential for safety improvements.
- B. State of Safety in the Region Report – The report would document the region's crash data, patterns and trends and the relationships of serious crashes with environmental factors. The report would inform the development of a Regional Safety Strategy and Plan and the development of performance measures and safety targets to meet federal requirements.

The ultimate goal of the safety program is to reduce fatalities and serious injuries across the region. Part of a safe systems approach to transportation safety is to use data to identify what causes crashes and which strategies and actions are most effective in mitigating those causes. This effort will enable more strategic use of existing funds, combined with targeted policy initiatives to help our region move towards zero deaths over the next decade. MTC staff is also seeking feedback on implementing a regional Vision Zero policy that could make use of the safety data program as well as consider funding programs, education, and planning/technical assistance.

**Attachment:**

- Presentation

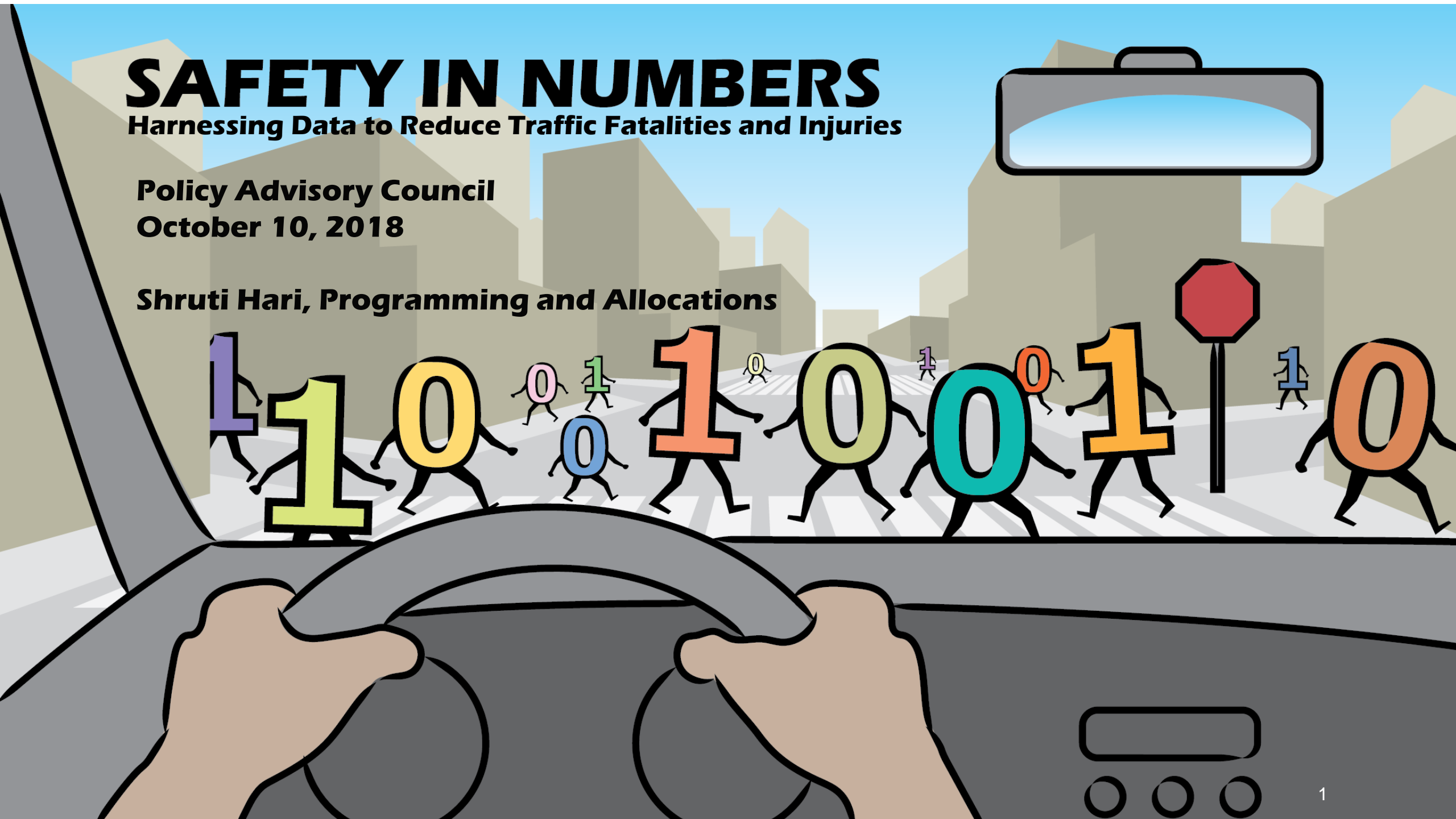
# SAFETY IN NUMBERS

Harnessing Data to Reduce Traffic Fatalities and Injuries

Policy Advisory Council

October 10, 2018

Shruti Hari, Programming and Allocations



# Safety in Planning

## TEA-21 (1998)

- MPOs to address Safety in Transportation Planning

## SAFETEA-LU (2005)

- Greater emphasis on addressing Safety
- Established the Highway Safety Improvement Program (HSIP) as a core Federal-aid program

## MAP-21 & FAST (2012 & 2015)

- Requires States and MPOs to adopt Safety performance measures and targets
- Increases size of HSIP



Plan Bay Area 2040

# **Regional Safety Program – Vision & Goals**

*Establish a Regional Safety Program to reduce fatalities and serious injuries across the region*

- Manage safety performance targets
- Assess regional safety needs for local streets and roads
- Coordinate safety implementation with local jurisdictions
- Gauge effectiveness of HSIP projects from a regional perspective
- Seek regional funding from HSIP, SB1, etc.

# Regional Safety Program

- Regional Safety Data System
  - Answer basic questions like:
    - Where are we now?
    - Where do we want to go?
    - How do we get there?
    - How are we doing?
  - Identify data gaps and resource needs
  - Integrate various data sets
  - Develop or procure safety software for effectiveness evaluations
- Data Informed Policy Initiatives
- Targeted Safety Campaigns
- Align with Caltrans' Strategic Highway Safety Plan

# Regional Safety Data System

## Environmental Data

- Roadway Infrastructure
- Traffic Volumes
- Community
- Demographics
- Land Use
- Health
- Education



## Crash/Injury Data

- Time
- Severity
- Collision Factors
- Sobriety
- Age & Gender
- Type of Vehicle
- Movement



**Policy Toolbox**  
(Targeted Implementation)



**Regional Safety  
Data System**

# Benefits of Safety Data Integration



- Improved safety analysis
- Accessibility
- Accuracy & Consistency
- Completeness
- Reduce duplicative efforts
- Lower data acquisition and storage costs
- Informed and defensible decisions
- Enhanced program development

# **Regional Safety Report**

## **MTC received \$500,000 in Caltrans funds for:**

- Regional Safety Data System
  - Data Collection and Integration plan – FHWA pilot
  - Perform Data Integration
  - Conduct Safety Analyses & Effectiveness Evaluations
- State of Safety in the Region Report

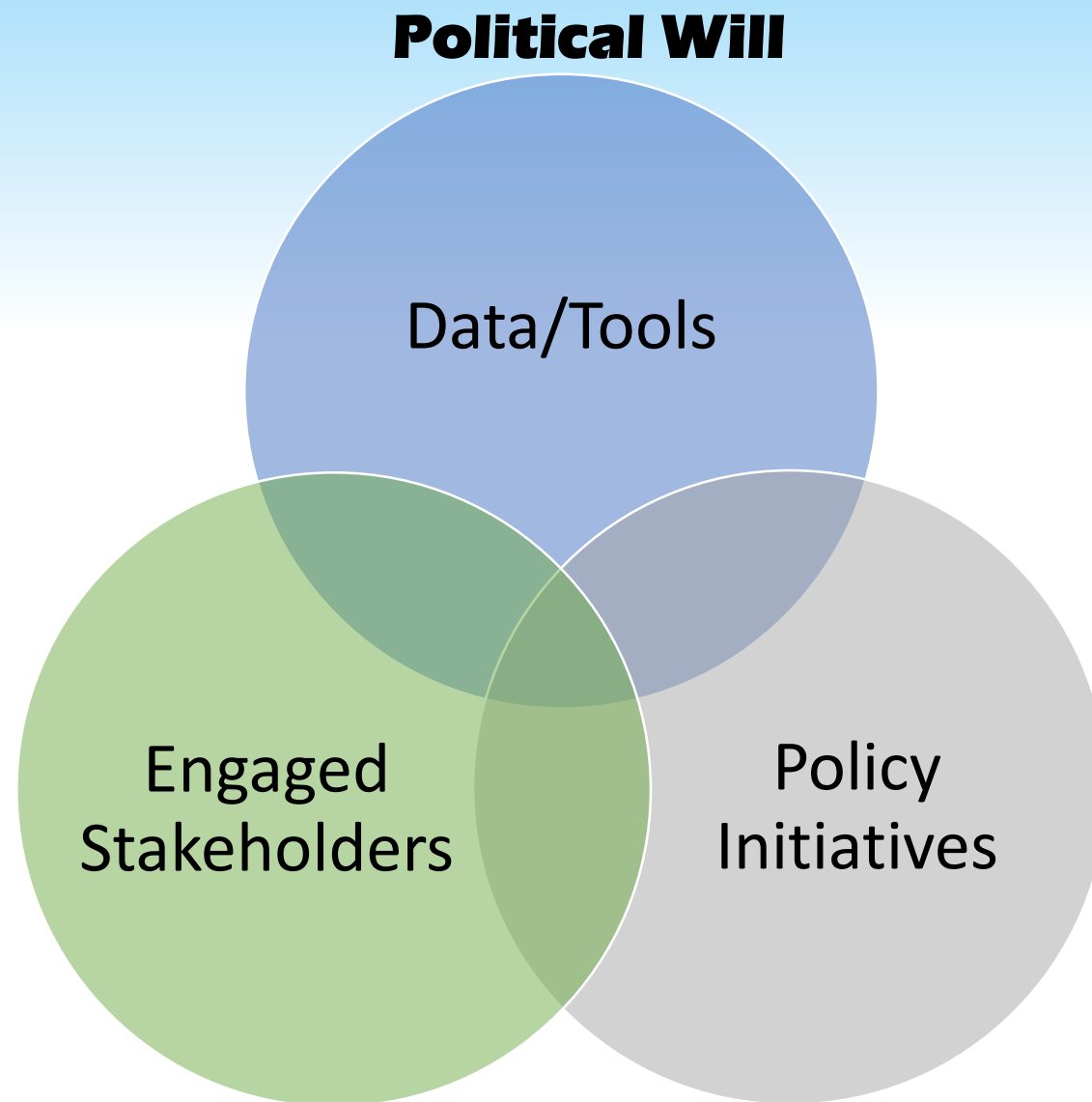
# Potential Vision Zero Regional Approach/Policy

## Potential Policy Initiatives

- Align funding policies with Vision Zero goals
- Leverage technology solutions, in collaboration with Cities
- Support safety legislation —  
e.g. Cities' power to set speed limits
- Education/technical assistance for Cities
- Continuous improvements in data systems

## Stakeholders

- Cities & CMAs
- CHP/local PDs
- Universities
- Health Agencies
- Insurance Companies



# **Next Steps**

- **Adopt Regional Safety Targets**
- **Develop Regional Safety Data System**
- **Regional Safety Plan**
- **Potential Vision Zero Regional Policy**