

### **Overview**

- Study Background & Purpose
- Work-to-Date & Initial Findings
- Next Steps





# Study Background & Purpose

- What is the Safety Action Plan?
  - Proactive approach to road safety
  - Integrates crash data with roadway characteristic data
  - Identifies:
    - o Recurring crash patterns
    - Recurring roadway characteristics indicative of crash risk
    - o Potential treatments/countermeasures
    - Priority locations for treatments/countermeasures

- Project Steps
  - 1. Safety Performance & Priority Locations
  - 2. Safety Treatments/Countermeasures
  - 3. Concept Designs
  - 4. Grant Applications

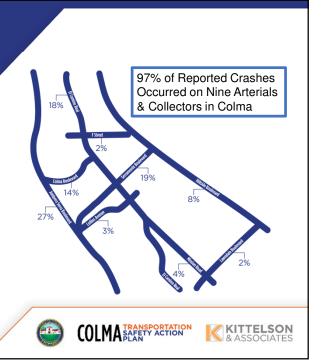


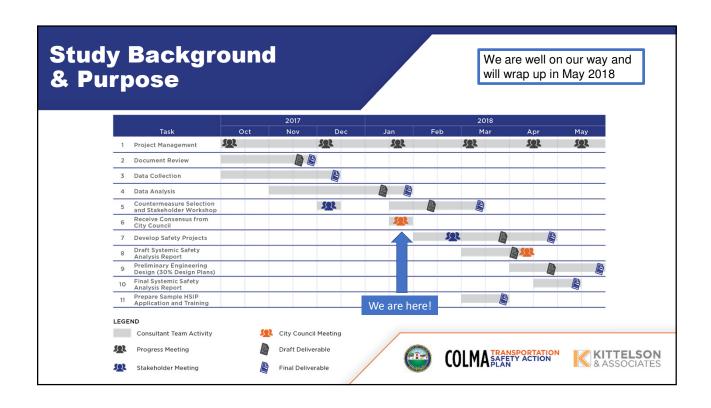
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# Study Background & Purpose

- Why are we conducting this safety analysis for the Town of Colma?
  - Determine near-term interventions & constructible projects
  - Develop grant-competitive projects for future implementation





### **Work-to-Date**

Active and productive engagement with Town Staff.

- Regular Coordination with Town Staff & Serramonte Blvd-Collins Ave Master Plan Project
- Completed Data Collection & Foundational Document Review
- · Developed GIS-Database of Crash & Roadway Data
- · Conducted Preliminary Analysis of Town Crash & Roadway Data
- · Identified Potential Treatments (i.e., Countermeasures) to Improve Safety
- Created Project Website: www.colmasafetyplan.com
- Conducted First Round of Community Engagement Activities





# Initial Findings: 2011-2016 Crash Data

Understanding the nature of crashes helps us target appropriate safety countermeasures.

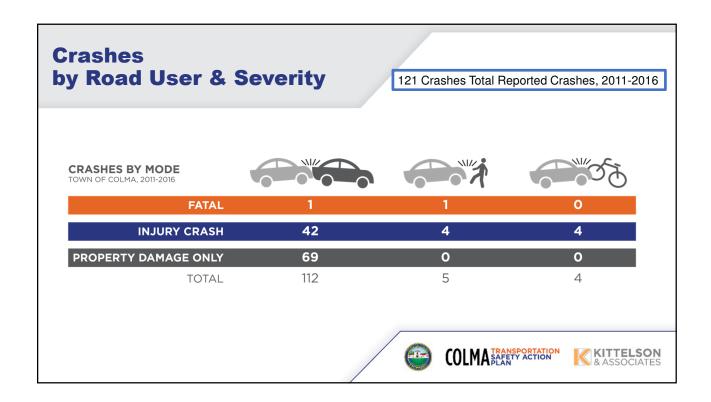
- Proportion of Crashes by Severity
- Proportion of Crashes by Type
- Recurring Contributing Factors to Crashes
- Unique Crash Considerations
  - Trends in Fatal and Severe Crashes
  - Average Crashes by Month

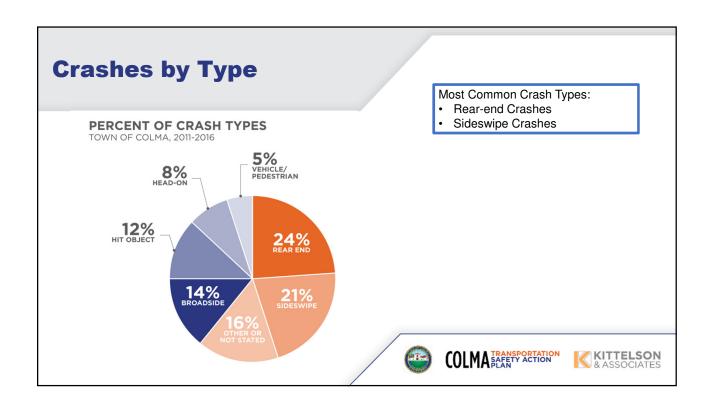


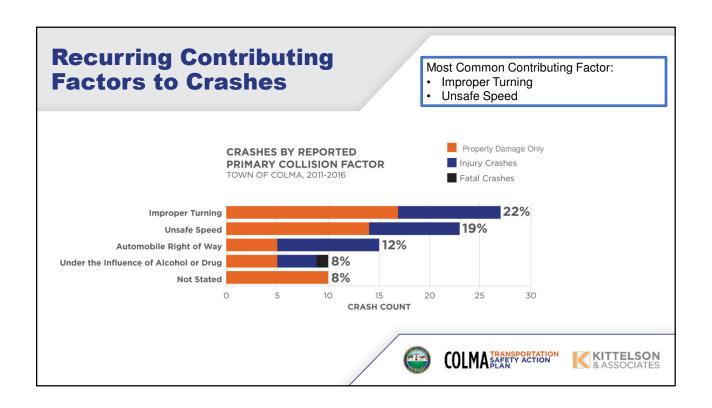


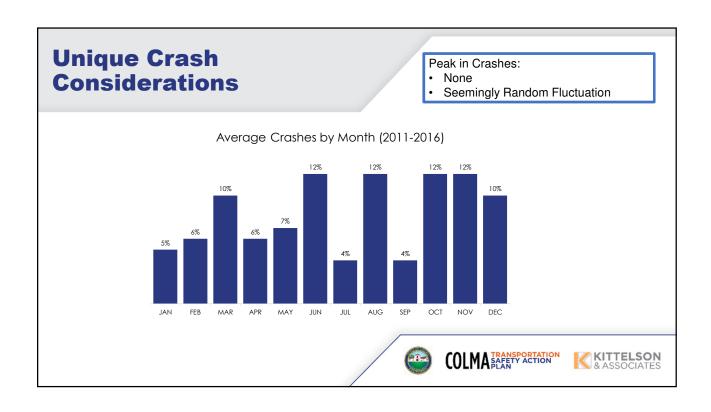


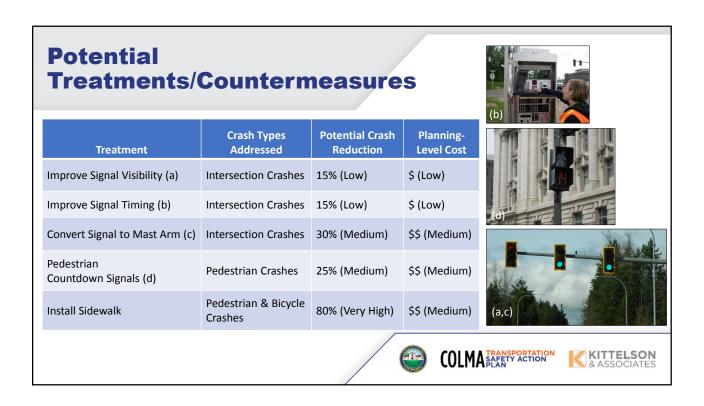












#### **Potential Treatments/Countermeasures Potential Crash Crash Types** Planning-**Addressed Level Cost Treatment** Reduction Advance Stop Bar Before Pedestrian & 15% (Low) \$ (Low) Crosswalk (Bike Box) (e) **Bicycle Crashes Upgrade Intersection** Intersection 25% (Medium) \$ (Low) Pavement Markings (f) Crashes Road Diet with Two-Way All Crashes 30% (Medium) \$\$\$ (High) Left-Turn and Bike Lanes Install Dynamic Speed All Crashes 30% (Medium) \$ (Low) Warning Signs (g) YOUR SPEED SPEED Pedestrian & Install Bike Lanes (h) 35% (Medium) \$ (Low) **Bicycle Crashes** Install High Visibility Crosswalk **Pedestrian Crashes** 30% (Medium) \$ (Low) Treatments COLMA TRANSPORTATION SAFETY ACTION



## First Round of Community Engagement

Community Outreach is a valued part of understanding the Town's needs:

- Residents and Visitors
- Business Owners and Operators

### Activities Targeting Residents & Visitors

- Emailed Informational Flyers to Residents
- Livewire Newsletter
- Interactive Map on Project Website and Linked to Town's Website
- Pop-Up Community Event at Target on Dec 16th

### Activities Targeting Businesses

- Online Survey for Business
  - Notified via email, project website and Town website
- Interactive Map on Project Website

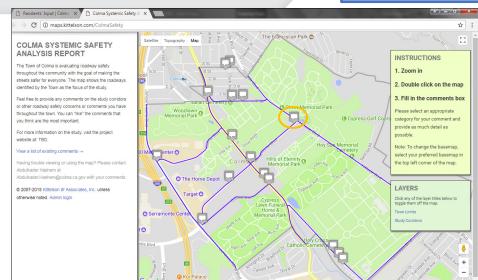




# **Comments on Interactive Map**

#### Comments:

- 16 Comments Provided
- For various locations
- Open for Comments Until End of Project





## **Sample of Comments** on Interactive Map

- Nature of the Comments Received Concerns Expressed About:
  - Visibility at El Camino Real/Collins Avenue Intersection
  - Traffic flow challenges at Lucky Chances Casino
  - Speeding on Mission Road near Holy Cross Cemetery, B Street, Clark Street, and F Street
  - Failure to yield to pedestrians at El Camino Real/Serramonte Boulevard and Colma Boulevard/Junipero Serra Boulevard Intersections
  - No sidewalks or bike paths west side of El Camino Real







### **Business Community Survey**

- Online survey for businesses with nine questions
- Questions addressed topics such as:
  - Name of business and location of business
  - Length of businesses current location
  - Extent roadway safety impacts your business
  - Extent roadway safety impacts your customers
  - How do your customers reach your business (car, bus, BART, walk, bike)?
  - How do your employees reach your business?
  - What are your roadway safety concerns?
  - What types of safety improvements are interested in seeing explored by the Town?





### **Business Community Survey**

- 18 responses provided to the survey
- Sample of responses:
  - Length of time at current location:
    - o 72% of the respondents had their business for more than 10 years
  - Perspective on roadway safety:
    - o 40% stated roadway safety somewhat impacts their business
  - Travel to the businesses:
    - o 89% of the responders answered their customers drive to their business
    - o 83% of the employees drive to their respective businesses everyday



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### **Business Community Survey**

- Additional Highlights from Responses
  - Concerns about safety:
    - o 72% of businesses concerned about cars and trucks driving at an appropriate speed
    - o 50% concerned about cars turning into and out of their businesses
  - Improvements interested in seeing the Town explore:
    - o 56% of businesses interested in treatments to manage motorists' speeds



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## **Next Steps**

- Finalize crash & roadway analysis
- · Conduct field reviews for priority locations
- Refine potential treatments/countermeasures
- · Hold a community workshop
- Prepare recommendations for Town staff and City Council review
- Finalize recommendations & documentation
- Provide Colma Transportation Safety Action Plan





### **Thank You**

• Any questions for us?



