

MAG Strategic Transportation Safety Plan

MAG Transit Committee

May 8, 2014



MAG Strategic Transportation Safety Plan (STSP)

- ▶ Roadmap for improving road safety performance in the MAG Planning Area – Oversight by Transportation Safety Committee
- ▶ Incorporate in the Regional Transportation Plan
 - ▶ Recognize need for safety of all modes with increase in focus on Multimodal Facilities in future RTP
 - ▶ FUNDING: Implementation of the STSP will be funded with a combination of federal, state, regional and local funds
- ▶ Aligned with the state's Strategic Highway Safety Plan
- ▶ 20 month project: Lee Engineering LLC & Texas Transportation Institute(TTI) - Consultant Team

MAG 2005 STSP - Accomplishments

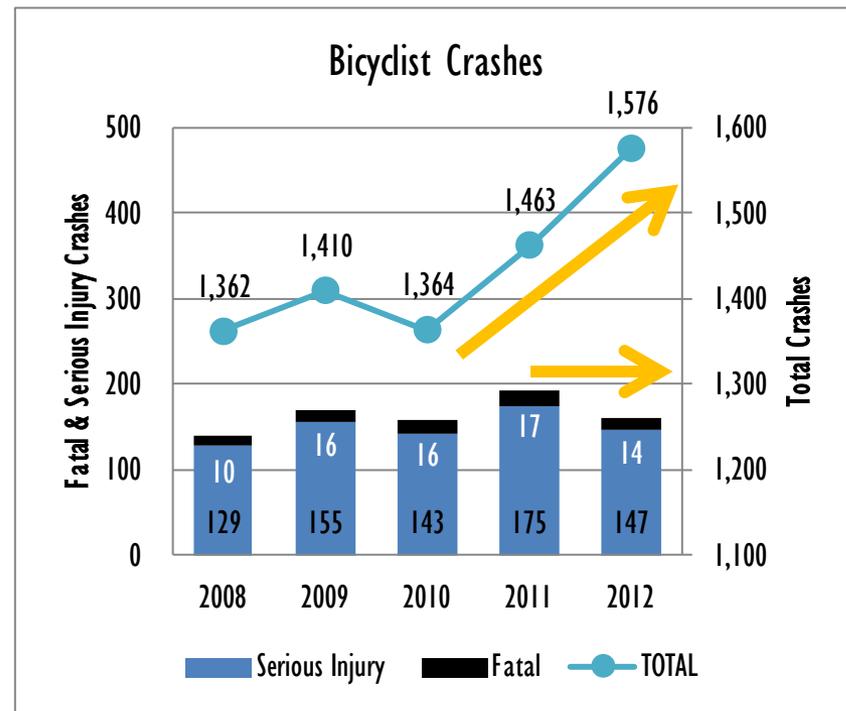
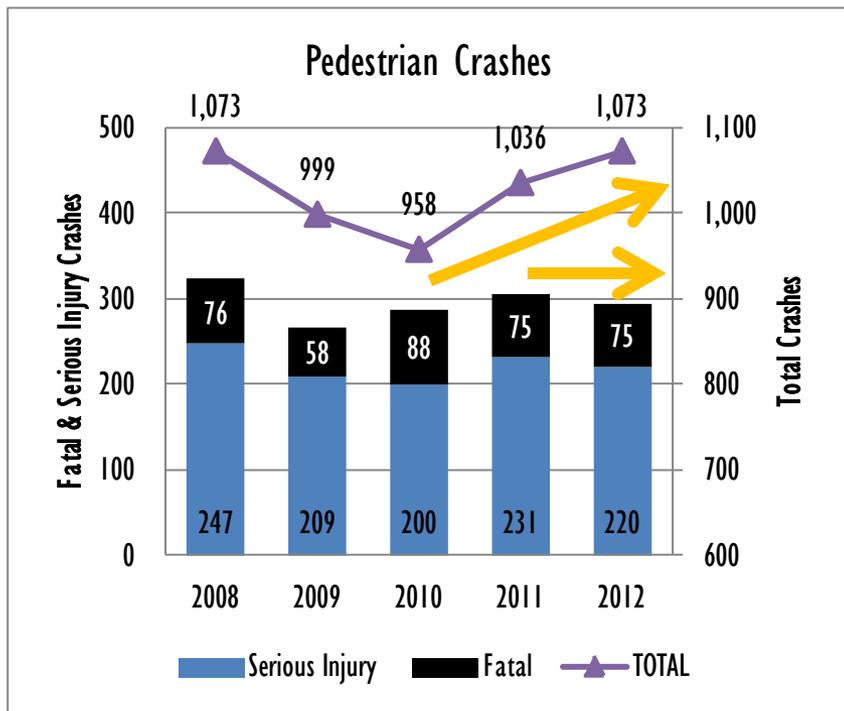
- ▶ Development of the Regional Transportation Safety Information Management System (RTSIMS) – supports crash data analysis
- ▶ The MAG Road Safety Assessment (RSA) Program
- ▶ MAG Elderly Mobility Sign Project
- ▶ Safe Route to School Program



STSP Development Schedule

TASKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	2013					2014															2015	
	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		
1 - TRANSPORTATION SYSTEM PERFORMANCE	█	█	█																			
2 - REGIONAL VISION AND GOALS		█	█	█	█																	
3 - ACTION AREAS AND PERFORMANCE MEASURES			█	█	█	█	█	█	█	█												
4 - NETWORK SCREENING METHODOLOGIES																						
5 - INCORPORATING SAFETY IN RTP									█	█	█	█	█	█	█							
6 - SAFETY ENHANCEMENTS IN INFRASTRUCTURE PROJECTS										█	█	█	█	█	█	█						
7 - IMPROVE SAFETY VIA TRAFFIC OPERATIONS AND TECH												█	█	█	█							
8 - MONITORING AND REPORTING														█	█	█	█					
9 - IMPLEMENTATION PLAN															█	█	█	█				
10 - FINAL REPORT, EXECUTIVE SUMMARY & PRESENTATIONS																		█	█	█		

Pedestrians & Bicyclists Crashes



Inters Related
575 (40.7%)

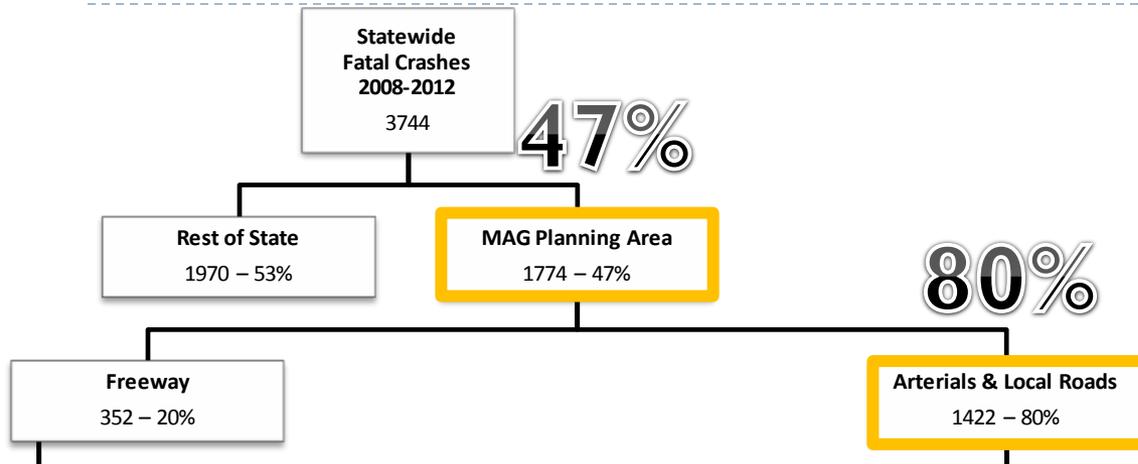
Non-Inters Related
838 (59.3%)

Inters Related
442 (55.3%)

Non-Inters Related
358 (44.7%)

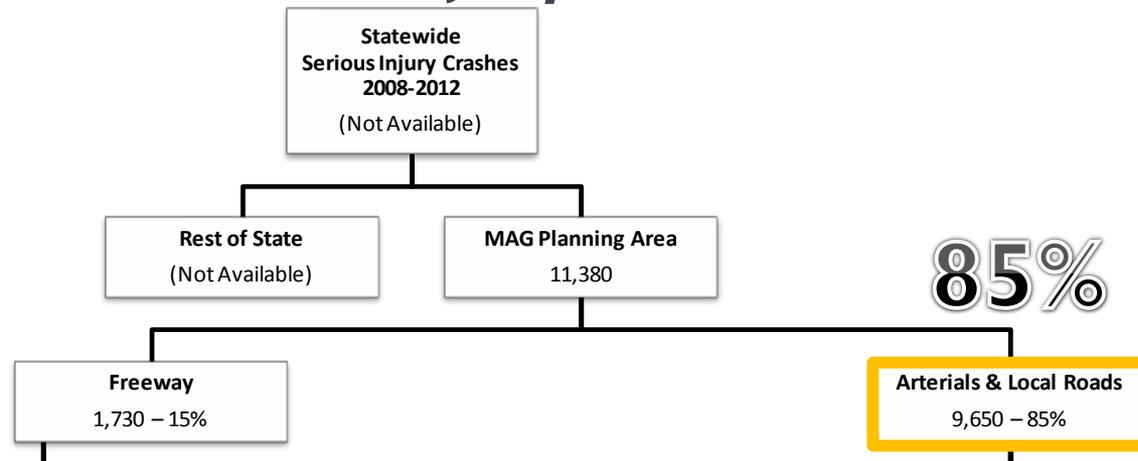


Fatal Crashes

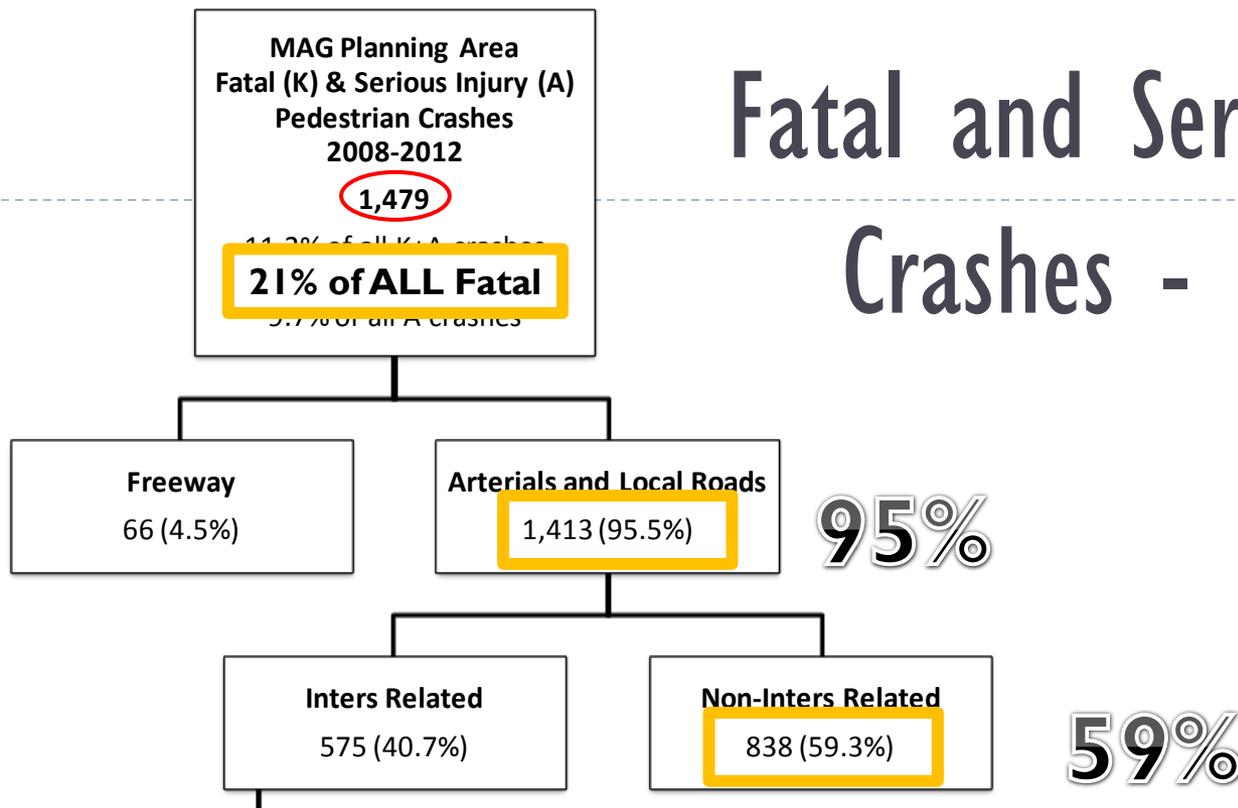


- **26 % of Arterials include Transit Routes**
- **80% of Fatal Crashes** occur on Arterials and Local Roads
- **85% of Serious Injury Crashes** occur on Arterial and Local Roads

Serious Injury Crashes



Fatal and Serious Injury Crashes - Pedestrians



- **21%** of all Fatal Crashes involve **pedestrians**
- **95%** of Fatal and Serious Injury Crashes involving **pedestrians** occur on Arterials and Local Roads
- **59%** of Fatal and Serious Injury Crashes involving **pedestrians** occur **mid-block**

Potential Risk of Death or Serious Injury

“All transit customers are pedestrians for some part of their journey to the bus or train”

- Pedestrian Safety Guide for Transit Agencies, FHWA, (2008)

- ▶ For your riders at or near bus/rail stops/stations across the region?
- ▶ For your riders at or near bus/rail stops/stations in your jurisdiction?
- ▶ How should we plan as a region to minimize this risk in the future?

The Future of Funding: Emphasis on Transportation Safety

- ▶ MAP-21 #1 Goal: **Significant reduction in traffic fatalities and serious injuries on all public roads regardless of street classification or ownership**
- ▶ Measures: Serious injuries and fatalities per vehicle mile traveled, number of serious injuries and fatalities, and transit safety (49 USC 5329).
- ▶ Evaluation of effectiveness of performance-based planning for each State and MPO
- ▶ The emphasis will be reflected in the RTP

Task 5 — Incorporate Safety in RTP

- ▶ Future RTP to include multimodal transportation system infrastructure
- ▶ Increase in interaction between all modes
- ▶ Potential practices to improve overall road safety performance
- ▶ Collaborative Effort between TSC and TC
- ▶ Working Group

Resources:

- ▶ *Pedestrian Safety Guide for Transit Agencies - FHWA, 2008*
 - ▶ Tools for identifying pedestrian safety and access issues
 - ▶ Approaches to enhancing pedestrian safety and access
 - ▶ Actions to increase the safety of pedestrians accessing transit
 - ▶ http://safety.fhwa.dot.gov/ped_bike/ped_transit/ped_transguide/
- ▶ *Designing Transit Accessible Communities – MAG, 2012*
 - ▶ Identifies challenges
 - ▶ Recommends guidelines to enhance transit accessibility
 - ▶ Toolkit of measures and strategies

Example Practices

- ▶ Develop partnership between transit agencies and agency transportation/public works departments
- ▶ Transit Road Safety Assessment program
- ▶ Pedestrian/Bicycle safety awareness for transit operators

Next Steps

- ▶ Form a working group
 - ▶ Transit Operators, Transit Committee, Transportation Safety
- ▶ Working Group Meetings
 - ▶ One or two meetings in June-July
- ▶ GOAL: Explore and define safety practice(s)
- ▶ Recommend practice(s) in support of Transit and Transportation Safety → August Transit meeting
- ▶ Include practice in STSP → RTP

Questions

Margaret Boone, ITS & Safety Engineer

mboone@azmag.gov

Sarath Joshua, ITS & Safety Program Manager

sjoshua@azmag.gov

Project Website:

stsp.azmag.gov

