



**MARICOPA  
ASSOCIATION of  
GOVERNMENTS**

# STRATEGIC TRANSPORTATION SAFETY PLAN



# *Task 1A* Kick-Off Meeting



**LEE ENGINEERING**  
*25 years of excellence*

**Texas A&M  
Transportation  
Institute**

# Kick-Off Meeting

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- ▶ Key Team Member Introductions
  - ▶ MAG
  - ▶ Consultant Team
  - ▶ Transportation Safety Committee (TSC)
  - ▶ Transportation Safety Stakeholders Group (TSSG)
- ▶ Study Objectives
- ▶ Work Plan Tasks
- ▶ Schedule
- ▶ Meetings
- ▶ Feedback/Questions

# Key Team Members

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## MAG

- ▶ Sarath Joshua
- ▶ **Margaret Boone – PM**
- ▶ Kiran Guntupalli

## Lee Engineering

- ▶ **Jim Lee – PM**
- ▶ Mike Cynecki
- ▶ Tom Larwin
- ▶ Yung Koprowski

## Texas Transportation Institute (TTI)

- ▶ Robert Wunderlich
- ▶ Karen Dixon
- ▶ Chris Poe

## POINT Engineers

- ▶ Paul Waung

## 4M Consulting Group, LLC

- ▶ Mike Kuzel

# Transportation Safety Committee (TSC)

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- ▶ **Renate Ehm, Mesa – Chair**
- ▶ **Chris Lemka, Glendale – Vice Chair**
- ▶ Linda Gorman, AAA Arizona
- ▶ Tom Burch, AARP
- ▶ Kohinoor Kar, ADOT
- ▶ Shane Kiesow, Apache Junction
- ▶ Chris Hamilton, Avondale
- ▶ Thomas Chlebanowski, Buckeye
- ▶ Martin Johnson, Chandler
- ▶ Jorge Gastelum, El Mirage
- ▶ Kelly LaRosa, FHWA
- ▶ Mike Gillespie, Gilbert
- ▶ Alberto Gutier, GOHS
- ▶ Hugh Bigalk, Goodyear
- ▶ Nicolaas Swart, Maricopa County
- ▶ Jeremy Knapp, Paradise Valley
- ▶ Jamal Rahimi, Peoria
- ▶ Kerry Wilcoxon, Phoenix
- ▶ George Williams, Scottsdale
- ▶ Jason Mahkovtz, Surprise
- ▶ Julian Dresang, Tempe
- ▶ Gardner Tabon, RPTA

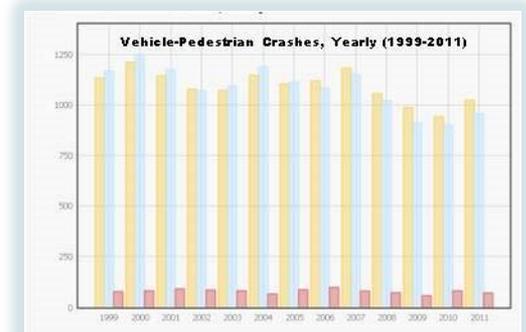
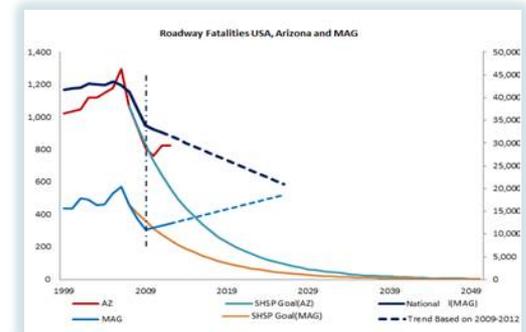
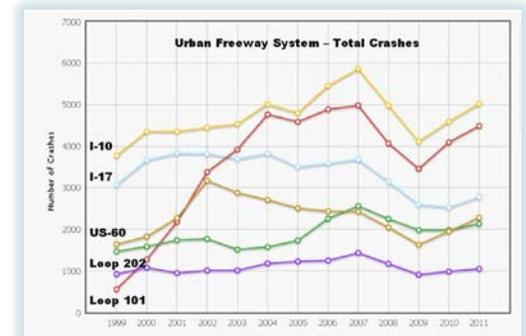
# Transportation Safety Stakeholders Group

## (TSSG)

- ▶ DPS
- ▶ Local Traffic Enforcement
- ▶ ADOT MVD
- ▶ Traffic Safety Educator
- ▶ Chair, ITS Committee
- ▶ Chair, Transit Committee
- ▶ Chair, Bike-Ped Committee
- ▶ Chair, Elderly & Persons with Disabilities Transportation Committee
- ▶ GRIC
- ▶ Inter-Tribal Council of Arizona
- ▶ Rep for Paramedic/EMS
- ▶ Arizona Department of Health Services – ADHS
- ▶ Dave Paul, Driving Arizona
- ▶ Monique de los Rios Urban, MAG
- ▶ Alice Chen, MAG
- ▶ Amy St. Peter, MAG
- ▶ Eileen Yazzi, MAG
- ▶ Sarath Joshua, MAG
- ▶ Margaret Boone, MAG
- ▶ Kiran Guntupalli, MAG
- ▶ Leo Luo, MAG

# Study Objectives

- ▶ Develop a comprehensive Strategic Transportation Safety Plan (STSP)
- ▶ Update previous STSP adopted by MAG in 2005
- ▶ Establish regional vision, goals, objectives, strategies, countermeasures and performance measures for transportation safety
- ▶ Coordinate with the Arizona Strategic Highway Safety Plan
- ▶ Provide input to MAG NextGen Regional Transportation Plan



# Work Plan Tasks

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1. Transportation System Performance and Available Resources from a Transportation Safety Perspective
2. Establish Regional Vision and Goals for Transportation Safety
3. Emphasis Areas, Potential Strategies, and Performance Measures
4. Network Screening Methodologies for Prioritization of Road Safety Needs
5. Incorporating Safety in the Regional Transportation Plan
6. Develop a Strategy to Incorporate Safety Enhancements in Road Infrastructure Projects
7. Improving Safety via Traffic Operations and Technology Solutions
8. Monitoring and Reporting on System Performance and Program Effectiveness
9. Implementation Plan 2015 – 2025
10. Draft Final Report, Executive Summary and Presentations

# Task 1 – Transportation System Performance and Available Resources

- ▶ *1A – Project Kick-Off Meeting*
- ▶ *1B – Review Current State of Road Safety in the MAG Region*
  - ▶ Safety performance of the freeway and arterial street systems
  - ▶ Regional trends in crashes that involve fatalities and injuries
  - ▶ Fatal and injury crashes involving pedestrians and bicyclists; younger drivers; older drivers
  - ▶ Safety and railroad at LRT crossings
  - ▶ Availability of Trauma Centers, EMS response to serious crashes
  - ▶ A comparison of MAG region to similar sized, urban regions
- ▶ *1C – Current Programs and Funding Resources for Road Safety Planning and Implementation*
  - ▶ Review/Compare safety \$ allocated/spent vs. crash statistics for State, Region, Local, Other states
  - ▶ Review road safety improvement projects
  - ▶ Identify current/future funding sources

Deliverable:  
Technical Memorandum No. 1

# Task 2 – Establish Regional Vision and Goals for Transportation Safety

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- ▶ **SEPTEMBER 24, 2013** - Four hour workshop with the TSSG to establish vision statement and goals
  - ▶ Overview of Safety Planning at national, state, and regional levels
  - ▶ Overview of project and related activities at MAG
  - ▶ Present Task I Findings
  - ▶ Develop Vision & Goals
  - ▶ Develop approach for obtaining stakeholder feedback via project webpage : <http://stsp.azmag.gov>

Deliverables:  
Workshop Materials  
Technical Memorandum No. 2  
MAG Website Materials

# *Task 3 – Emphasis Areas, Potential Strategies, and Performance Measures*

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- ▶ Further reviews of crash data trends (2007 – 2011) to identify candidate emphasis areas that are supported by crash history
- ▶ Validate 2005 emphasis areas and consolidate or expand for improved effectiveness
  - ▶ (1) Roadway Safety
  - ▶ (2) Enforcement/Education/EMS
  - ▶ (3) Pedestrian/Bicyclist/Transit Users
  - ▶ Coordinate with emphasis areas in the State SHSP
- ▶ For each emphasis area, identify existing state, regional, and local programs and activities.
- ▶ Identify programs/projects/activities needed to address goals.

Deliverable:  
Technical Memorandum No. 3

# *Task 4 – Network Screening Methodologies for Prioritization of Road Safety Needs*

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- ▶ Will recommend methodologies for:
  - ▶ Road segments with high crash risk
  - ▶ Road segments with high crash risk for pedestrians/bicyclists
  - ▶ Using spatial analysis to identify crash risk
  - ▶ Incorporating land use and socioeconomic variables
  - ▶ Applying Safety Performance Functions for Intersections
- ▶ **January 28, 2014** – Four hour workshop on Predictive Road Safety Analysis and application of Safety Performance Functions for screening of arterial street networks

Deliverables:  
Workshop Materials  
Technical Memorandum No. 4

# *Task 5 – Incorporating Safety in the Regional Transportation Plan*

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- ▶ **Next Generation Regional Transportation Plan (RTP)** (planned to begin in 2013) is likely to define the development of regional transportation infrastructure for the next 40 years.
  - ▶ Identify resources for improving road safety performance towards achieving Vision and Goals
  - ▶ Identify potential regional transportation policies and practices to promote or adopt
  - ▶ Identify suitable methodologies for assessing future RTP scenarios for road safety performance – considering all transportation modes

Deliverable:  
Technical Memorandum No. 5

# *Task 6 – Develop a Strategy to Incorporate Safety Enhancements in Road Projects*

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- ▶ Develop strategy to encourage road safety enhancements within the MAG TIP project review process
- ▶ Identify strategies to introduce Road Safety Assessments during project design review

Deliverable:  
Technical Memorandum No. 6

# *Task 7 – Improving Safety via Traffic Operations and Technology Solutions*

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- ▶ Identify proven infrastructure-based technology applications
  - ▶ Safer mid-block crossings, improved signage, illumination
  - ▶ Safer road sharing with bicyclists and pedestrians
  - ▶ Safer work zones
- ▶ Identify risks with emerging technology applications due to driver distraction

Deliverable:  
Technical Memorandum No. 7

# *Task 8 – Monitoring & Reporting on System Performance & Program Effectiveness*

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- ▶ Identify enhancements to current MAG practices in documenting and reporting via the MAG website
- ▶ Recommend approaches for monitoring effectiveness of regional road safety programs and initiatives

Deliverable:  
Technical Memorandum No. 8

# Task 9 – Implementation Plan 2015-2025

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- ▶ Develop an implementation plan that identifies:
  - ▶ Emphasis Areas
    - ▶ Identified in Task 3 based on crash history
  - ▶ Regional Initiatives
    - ▶ RSAs, Safety Training Workshops, New Regional Initiatives
  - ▶ Anticipated Resources
    - ▶ HSIP, RTP, MAG Work Program, Grants (NHTSA/GOHS)
  - ▶ Roles and Responsibilities
    - ▶ FHWA, ADOT, MAG, Valley Metro, Local Agencies

Deliverable:  
Technical Memorandum No. 9

# *Task 10 – Draft Final Report, Executive Summary and Presentations*

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- ▶ Not to exceed 60 pages
- ▶ 4 page Executive Summary
- ▶ 20 slide project presentation
- ▶ 5 slide project presentation

Deliverable:  
Technical Memorandum No. 10  
– Final Report

# Schedule

Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	2013						2014												2015	
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
<b>MAG Transportation Safety Committee Meeting</b>	23		24		19		28		25		27		22		23		25		27	
1 Road System Performance & Available Resources from a Road Safety Perspective	■																			
1(b) Review Current State of Road Safety in the MAG Region	■																			
1(c) Current Programs & Funding Resources for Road Safety Planning & Implementation		■																		
2 Establish Regional Vision and Goals for Transportation Safety		■			◆	■														
3 Emphasis Areas, Potential Strategies, & Performance Measures			■				■													
4 Network Screening Methodologies for Prioritization of Road Safety Needs						■		◆	■											
5 Incorporating Safety in the Regional Transportation Plan								■												
6 Develop a Strategy to Incorporate Safety Enhancements in Road Infrastructure Projects										■										
7 Improving Safety via Traffic Operations & Technology Solutions											■									
8 Monitoring & Reporting on System Performance & Program Effectiveness												■								
9 Implementation Plan 2015 - 2025																	■			
10 Final Report, Executive Summary & Presentations																		■		

◆ 4-hour Workshop

# Meetings

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## Transportation Safety Committee (TSC)

- ▶ July 23, 2013
- ▶ **September 24, 2013**
- ▶ November 19, 2013
- ▶ **January 28, 2014**
- ▶ March 25, 2014
- ▶ May 27, 2014
- ▶ July 22, 2014
- ▶ September 23, 2014
- ▶ November 18, 2014
- ▶ January 27, 2015

## Transportation Safety Stakeholders Group (TSSG)

- ▶ July 23, 2013
- ▶ **September 24, 2013**
- ▶ November 19, 2013
- ▶ March 25, 2014
- ▶ January 27, 2015

# FEEDBACK / QUESTIONS?

Margaret Boone, PE – MAG Project Manager

(602) 254-6300

[MBoone@azmag.gov](mailto:MBoone@azmag.gov)

Jim Lee, Ph.D., PE, PTOE – Lee Engineering Project Manager

(602) 443-8474

[jlee@lee-eng.com](mailto:jlee@lee-eng.com)

Mike Cynecki, PE – Lee Engineering

(602) 443-8476

[mcynecki@lee-eng.com](mailto:mcynecki@lee-eng.com)

Project Website: <http://stsp.azmag.gov>

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