

# Interstate 10/ Interstate 17 Corridor Master Plan Update

Transportation Review Committee  
January 29, 2015



# Interstate 10/Interstate 17 a.k.a. “The Spine”

- Total Regional Transportation Plan funding of **\$1.47 billion**.
- **35-mile corridor** from the North Stack (Interstate 17/Loop 101) to the Pecos Stack (Interstate 10/Loop 202).
- MAG member agencies of **ADOT, Chandler, Guadalupe, Phoenix, and Tempe**.
- About **40% of the daily freeway trips** in Metro Phoenix use some portion of the corridor.



# Path Forward Defined

OUTCOME OF JOINT MEETING – OCTOBER 31, 2012



- Immediate Needs addressing bottlenecks.
- Within ADOT Rights-of-Way (ROW).
- Near Term Construction.



- Joint Project Management.
- MAG Procurement.
- **Identify Corridor Operating Principles.**
- **Coordinate with Stakeholders.**
- Frame next environmental and design efforts.



- Joint Project Management.
- ADOT Procurement.
- **Multiple Studies and Efforts.**
- Consistent with Corridor Master Plan.



- Implementation.

# Corridor Master Plan Overview



## Initiate Project

- Project Management Plan
- Public Involvement Plan
- Controlling Design Criteria and Design Exception/Variance Procedures.

## Conduct Corridor Needs Assessment

- Existing Conditions
- PEL Checklist Part 1
- Future Conditions (No-Build)
- Agency and Public Outreach – Round 1
- Purpose and Need

## Develop Corridor Alternatives Screening

- Alternatives Workshop
- Categorize Alternatives
- Tier 1 Qualitative Screening
- Tier 2 Quantitative Screening
- System Bundles
- Tier 3 Quantitative Screening (Bundles)
- Agency and Public Outreach – Round 2
- Select Recommended Alternative

## Establish Corridor Master Plan

- Completed PEL
- Priority Resource Impacts Evaluation
- Mitigation Strategy
- Implementation Plan
- Design Exceptions
- Incorporate into MAG Policies
- Purpose and Need guidance for future projects

**DECEMBER  
2016**

# Project Organization



**CHARTER PARTNERS**



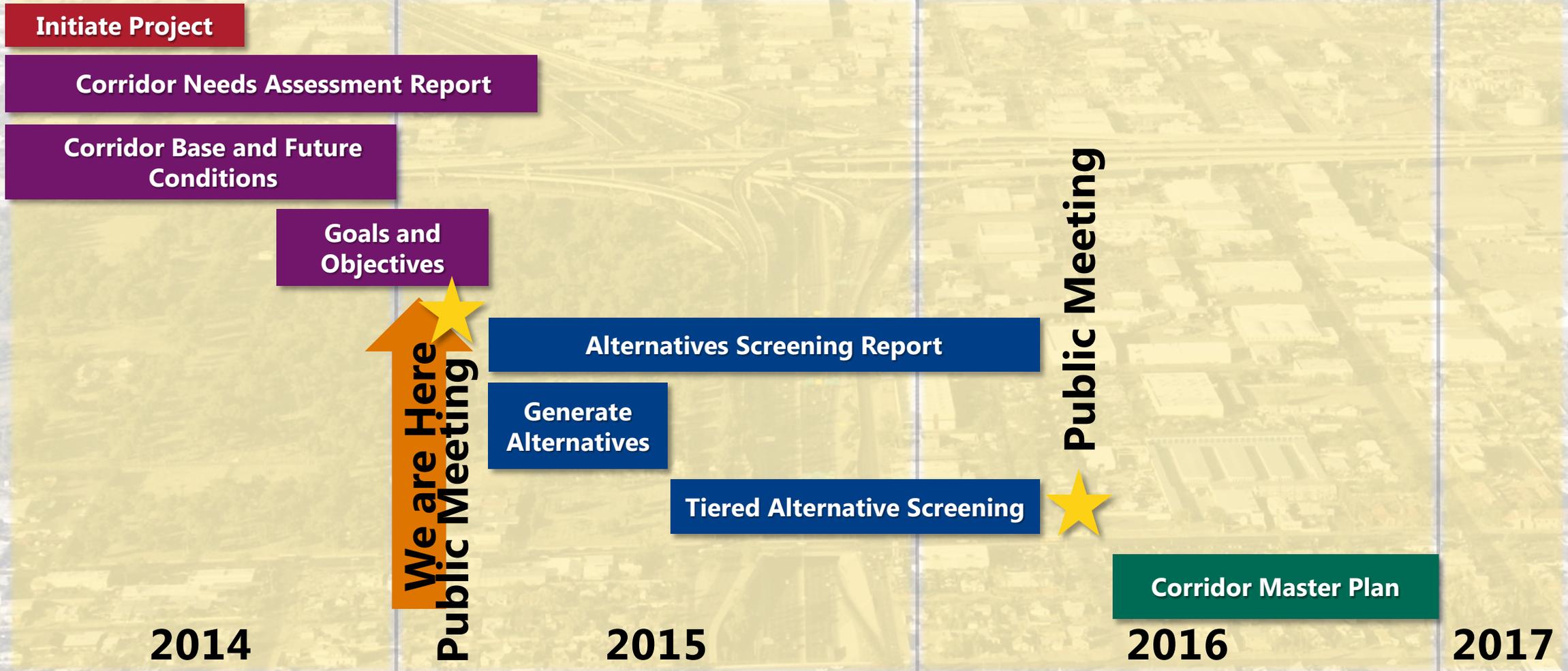
**MANAGEMENT PARTNERS**  
MAG  
ADOT  
FHWA Arizona



**PLANNING PARTNERS**  
FHWA, FAA, ADOT, MAG, Chandler,  
Guadalupe, Phoenix, Tempe, Valley Metro



# Study Schedule

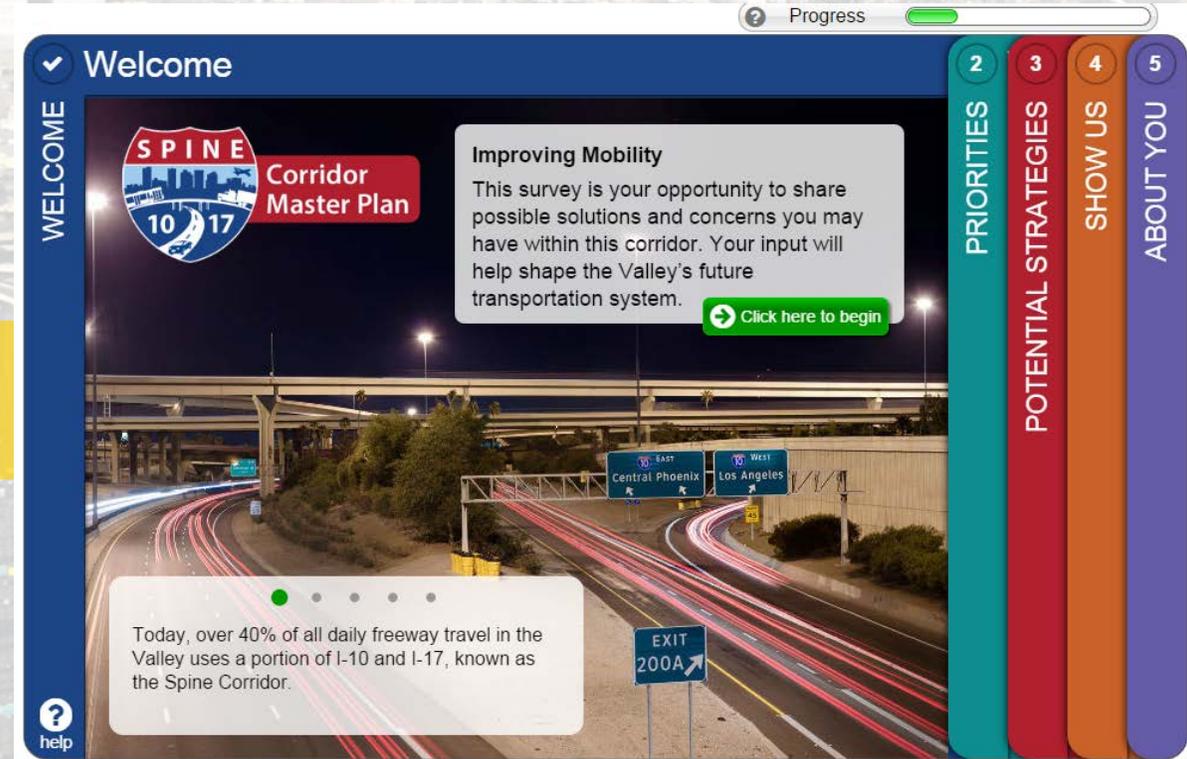


# Project Communications

## METROQUEST TOOL OVERVIEW



- Bilingual online engagement/survey tool used to obtain input regarding public's values/concerns, and feedback on potential scenarios and improvements.
- MetroQuest will be embedded into the study website: **spine.azmag.gov**.
- Website is organized into five "screens."
- Online survey would be available throughout the duration of the public comment period for Round #1.
- Mobile compatible.



# MetroQuest Communications Tool Demonstration

Interstate 10/Interstate 17 Corridor  
Master Plan



# Public Information Meeting Schedule

ALL MEETINGS 6:00 to 8:00 p.m.



## Wednesday, February 25

### CENTRAL

Academia Del Pueblo  
Elementary School Gym

Interstate 17 (Exit 195B)  
and 7th St

201 E Durango St, Phoenix

## Thursday, February 26

### NORTH

Deer Valley Community  
Center

Loop 101 (Exit 23  
Eastbound, Exit 24  
Westbound) and 19th Ave

2001 W Wahalla Ln,  
Phoenix

## Wednesday, March 4

### SOUTH

Sheraton Four Points Inn  
(formerly Grace Inn)

Interstate 10 (Exit 157) and  
Elliot Rd

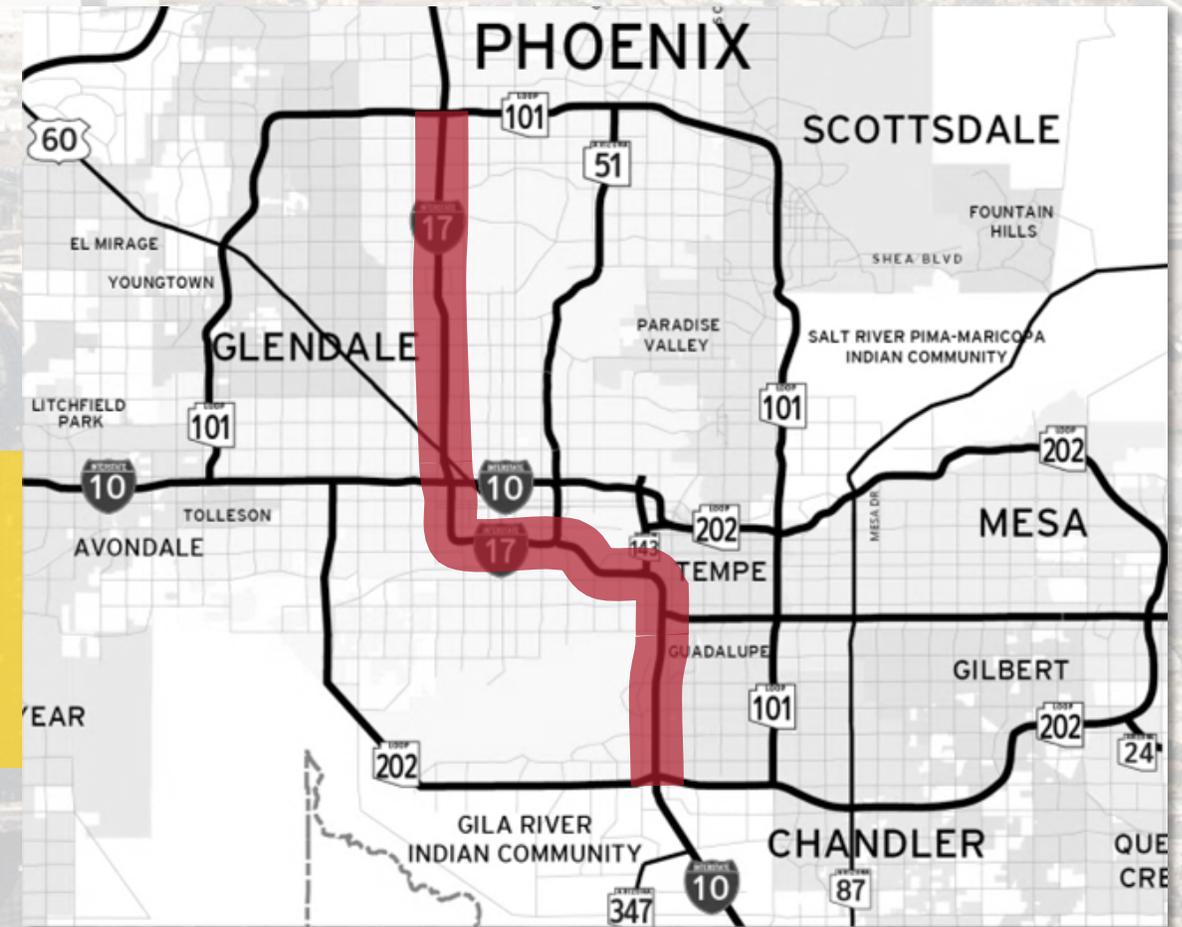
10831 S 51st St, Phoenix

**Same Materials at Each Location**

Exhibits ▪ Maps ▪ MetroQuest

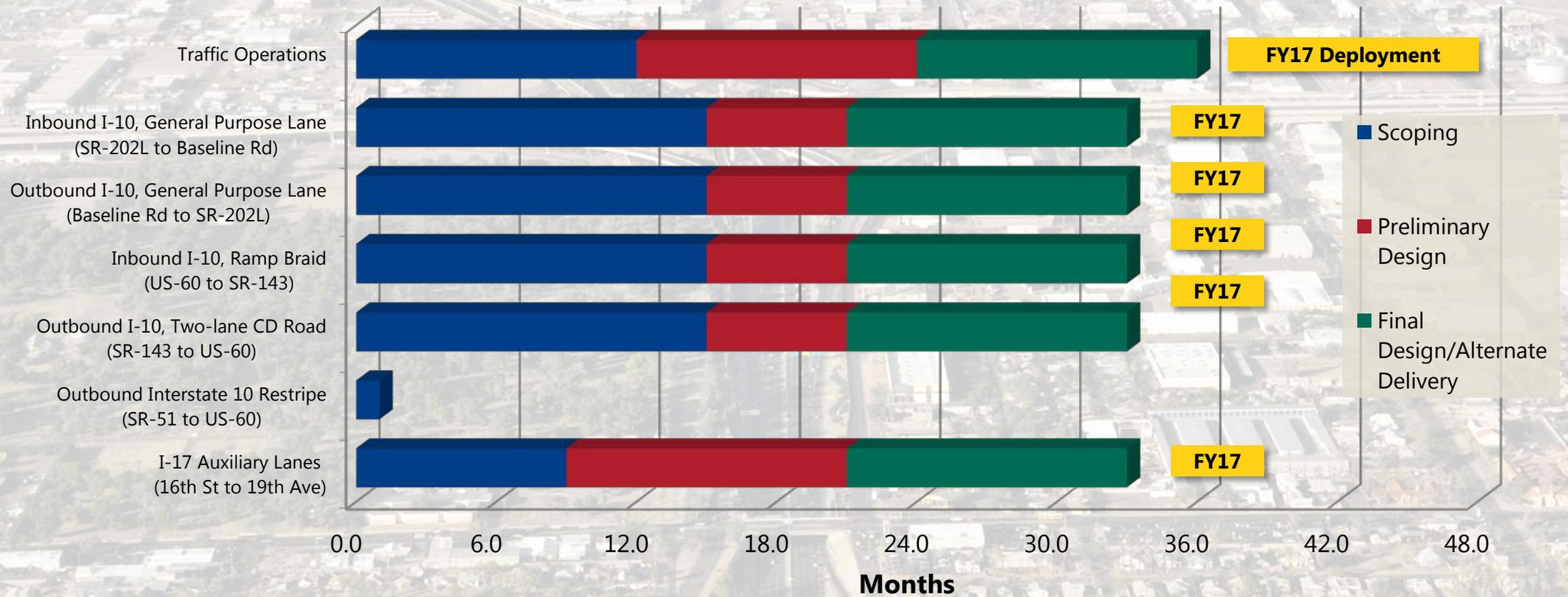
# Near-Term Improvement Strategy

- Under **development and study by ADOT.**
- Multiple options under consideration including those targeting bottlenecks and enhancing traffic operations.
- Candidate projects must rapidly **meet environmental requirements** and a **near-term construction time-frame.**



# Near-Term Improvement Strategy

## SCHEDULE RECOMMENDATION



# Traffic Operations and ITS Enhancements

- Focus on Interstate 17 between Interstate 10 Stack and Loop 101 North Stack traffic interchanges.
- **Active Traffic Management (ATM):**
  - Reducing potential for crashes when speed and conditions change.
  - Reducing congestion with variable speed limits, lane control, and adaptive ramp metering.
  - Improving reliability and enhancing information to motorists.
  - Providing meaningful traffic-flow benefits at a relatively low cost.
  - Coordinated with local communities.

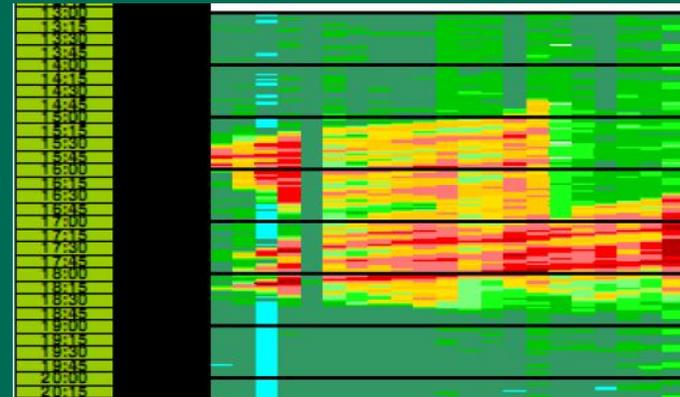


# Traffic Operations and ITS Enhancements

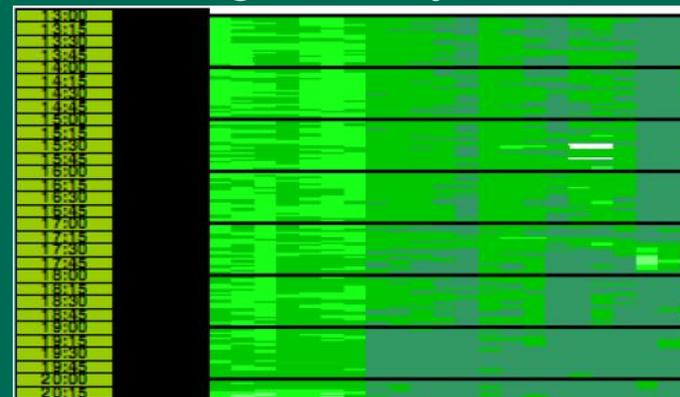
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## M1 Managed Motorway Speed Contour Plots (Evening Peak Period Monash Motorway Outbound)

### Before Managed Freeways (2007)



### After Managed Freeways (2010)



### Legend Speed Ranges (km/h)

BIN	Low	High	LEGEND	INDEX
1	1	10	001 - 010	17
2	11	20	011 - 020	18
3	21	30	021 - 030	19
4	31	40	031 - 040	20
5	41	50	041 - 050	21
6	51	60	051 - 060	22
7	61	70	061 - 070	23
8	71	80	071 - 080	24
9	81	90	081 - 090	25
10	91	100	091 - 100	26
11	101	110	101 - 110	27
12	111	999	111 - 999	28

Source: VicRoads

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