

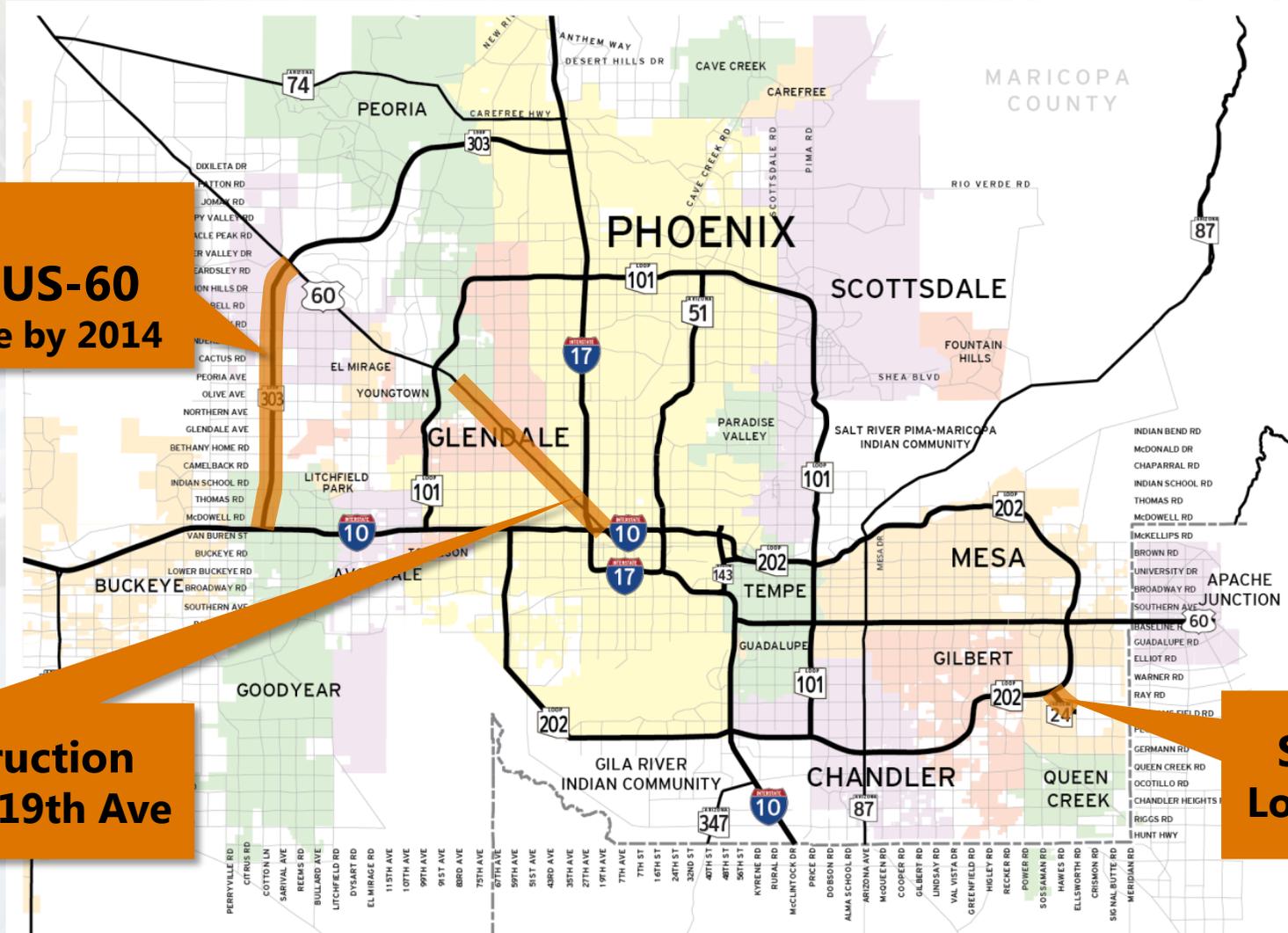
For information and discussion.

Update on Transportation Division Planning Projects

Transportation Policy Committee
April 17, 2013



Project Under Construction



**Loop 303
Interstate 10 to US-60
Construction Complete by 2014**

**US-60 Reconstruction
from 83rd Ave to 19th Ave**

**SR-24/Gateway Frwy
Loop 202 to Ellsworth Rd**



Construction

New Six Lane Freeway, Interstate 10 to US-60/Grand Avenue
18-miles, 15 new traffic interchanges, \$1.8 billion program



Construction Complete in 2014



  System Traffic Interchange, Goodyear



  System Traffic Interchange, Goodyear



LOOP
303

Northern Avenue Overcrossing



LOOP
303

Waddell Road Traffic Interchange



LOOP
303

Bell Road Traffic Interchange

Projects Still to Come

**US-60/Grand Ave
Loop 303 to Loop 101
Intersection Improvements**

**Loop 101, I-17 to Loop 202
Add Lanes**

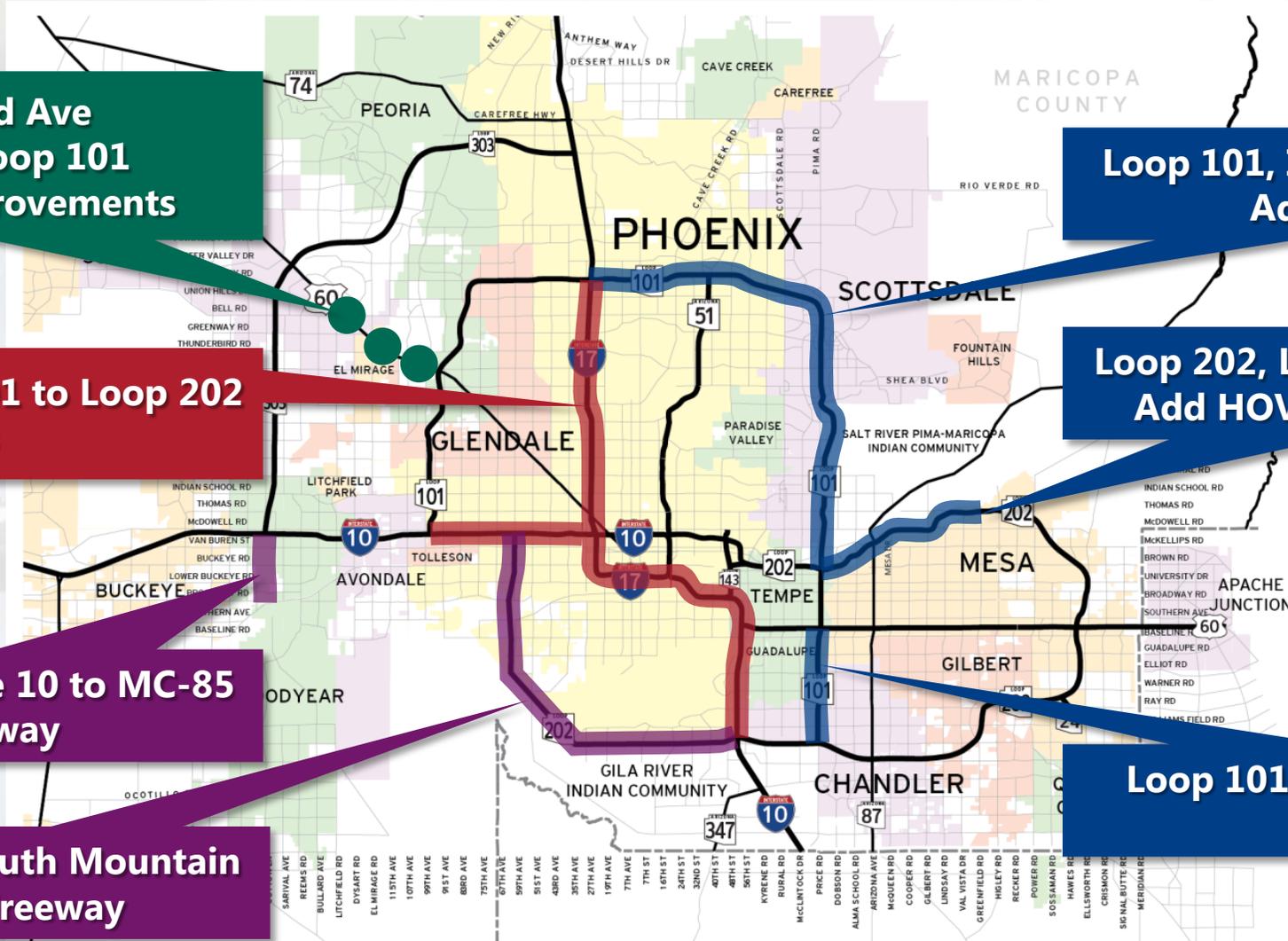
**I-10/I-17 Spine, Loop 101 to Loop 202
Add Lanes**

**Loop 202, Loop 101 to Higley Rd
Add HOV and General Lanes**

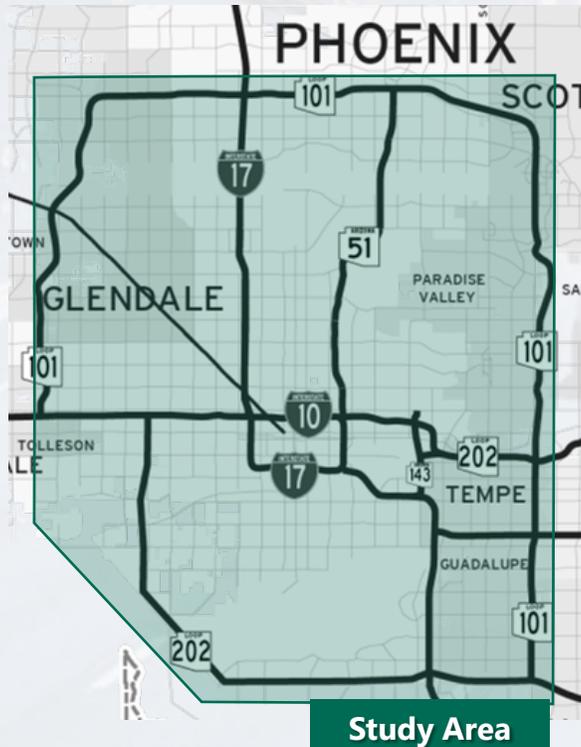
**Loop 303, Interstate 10 to MC-85
New Freeway**

**Loop 101, US-60 to Loop 202
Add Lanes**

**Loop 202/South Mountain
New Freeway**



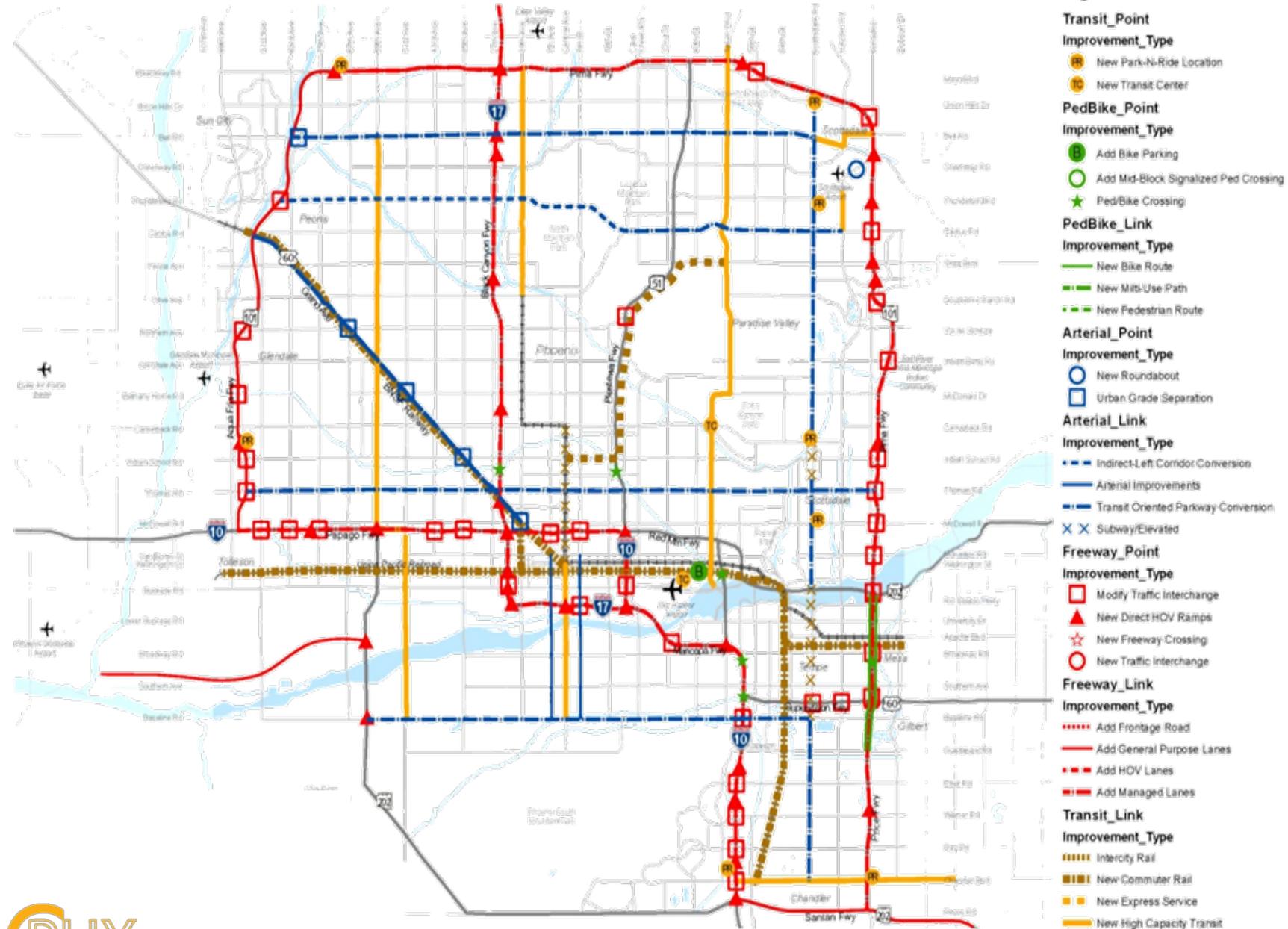
Central Phoenix Transportation Framework Study



Central Phoenix Transportation Framework Study

Complete - **June 2013**

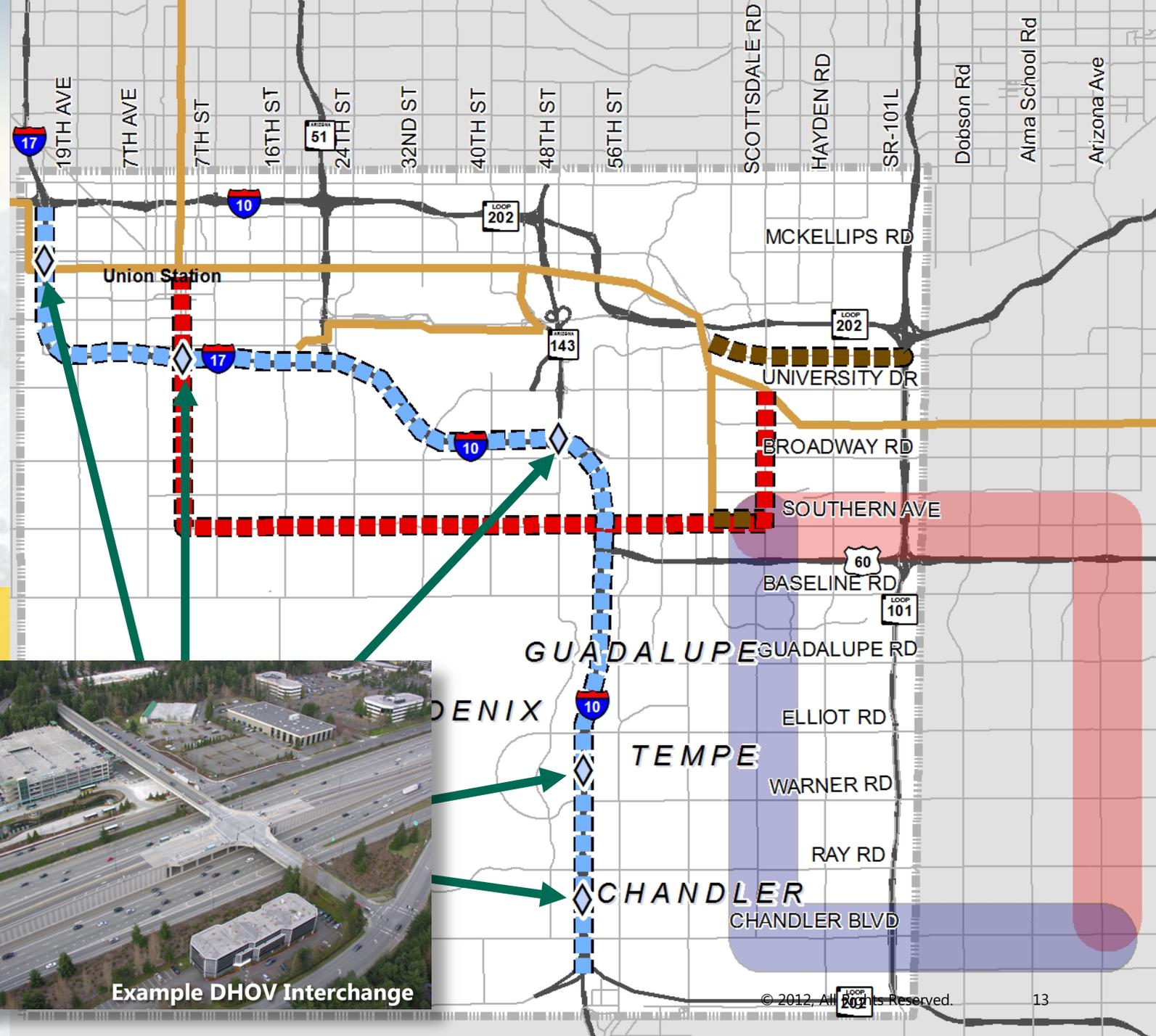
Technical Study with engineering recommendations for the surface transportation system within Loop 101.



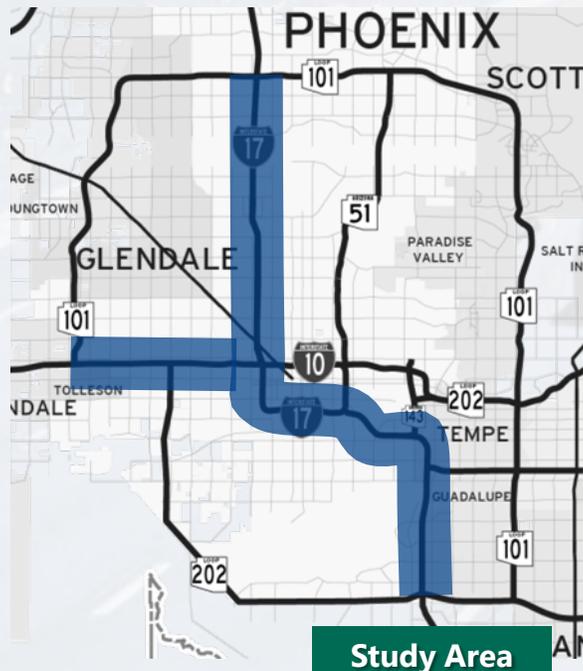
Southeast Corridor Major Investment Study

Completed –
September 2012.

- **Managed Lanes.**
- **New DHOV Ramps.**
- Exclusive Guideway Transit.
- Modern Streetcar Extensions.



Interstate 10/ Interstate 17 Corridor Program Study



- Interstate 10 – widen between 40th St and Pecos Stack . . . program amount of **\$648.5 million.**
- Interstate 17 – no project specified; awaiting EIS outcome . . . program amount of **\$821.6 million.**
- Total RTP Funding of **\$1.47 billion.**



Preliminary Program – Second Quarter 2014
Proposed Completion – Fourth Quarter 2015

US-60/Grand Avenue

COMPASS

Corridor Optimization, Access Management Plan, and Systems Study



Study Area

“Studied to death...!”

Stepped down in functional classification.

Change in focus.

“Fresh set of eyes.”

54 total projects and/or studies documented **since 1998.**

IS THIS THE TREND?

Freeway (auto focus)
1980s-1990s

Expressway/Grade Separations (auto focus)
1990s-2000s

Multi-modal Arterial (person trip focus)
After 2013 . . . ?

US-60/Grand Avenue COMPASS

Corridor Optimization, Access Management Plan, and Systems Study

Complete – **April 2014.**



1. Continue with planned improvements from **Regional Transportation Plan** (No Action).

2. Reconsider the US-60/**Grand Avenue Expressway** Option.

3. Plan for **Commuter Rail with operational improvements.**

4. Identify an **Economic Development-centric opportunity** with multi-modal enhancements.

There's No Place Like Grand.

Sustainable Transportation and Land Use Integration Study

Sustainable Transportation

DASHBOARD

Each Place Type characteristic is highlighted with an appropriate range for the given type, indicated on a low-medium-high scale.



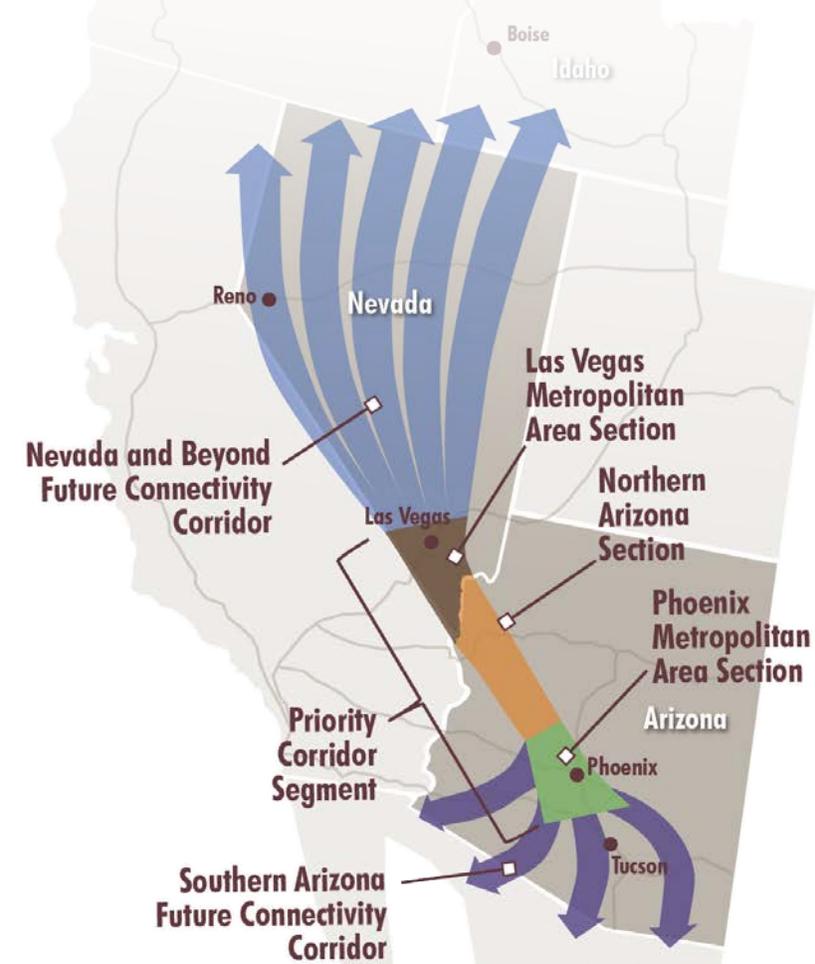
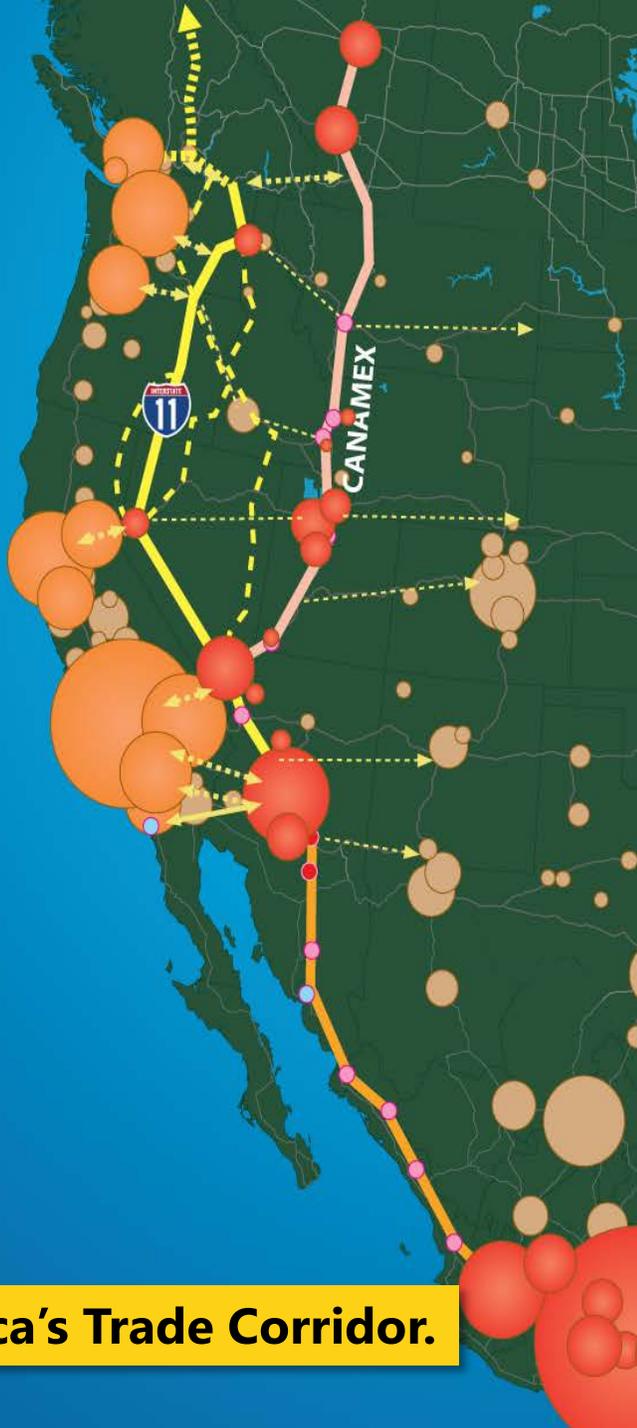
		SUBURBAN	COMPACT WALKABLE	TRANSIT SERVED	HCT ORIENTED
CONNECTIVITY	i				
+					
WALKABILITY	i				
+					
BIKEABILITY	i				
+					
TRANSIT	i				

Interstate 11/ Intermountain West Corridor Study

Complete – **August 2014.**



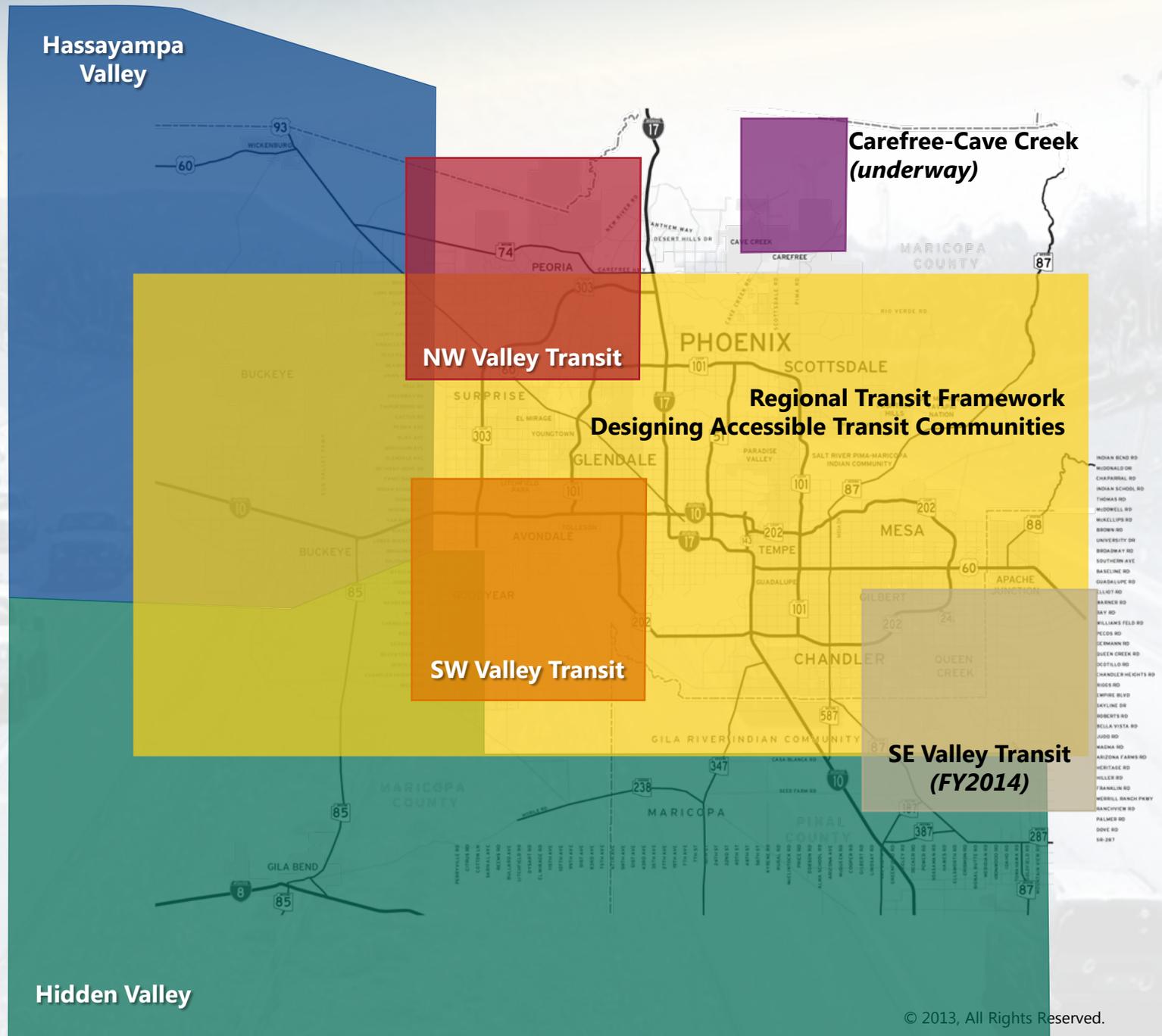
America's Trade Corridor.



Other Planning Efforts and Studies

Results accepted by Regional Council that have identified **illustrative corridors and projects** to accommodate future travel demand.

Study boundaries approximate.



What is Active Traffic Management?

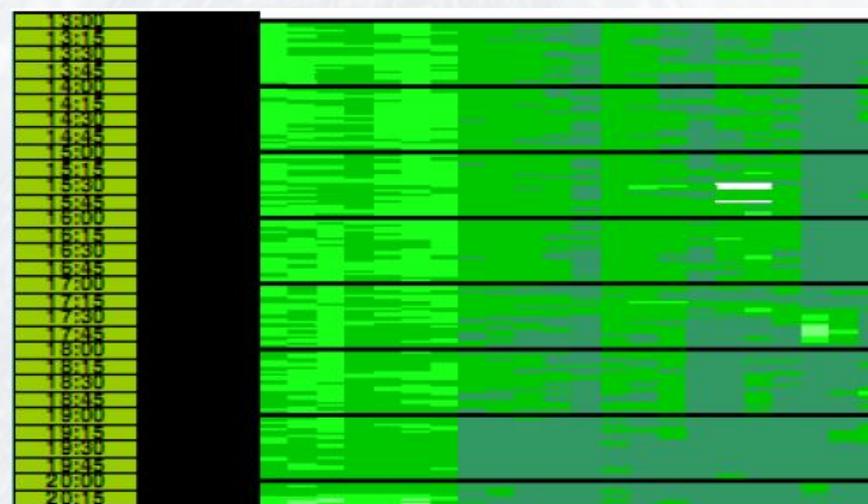
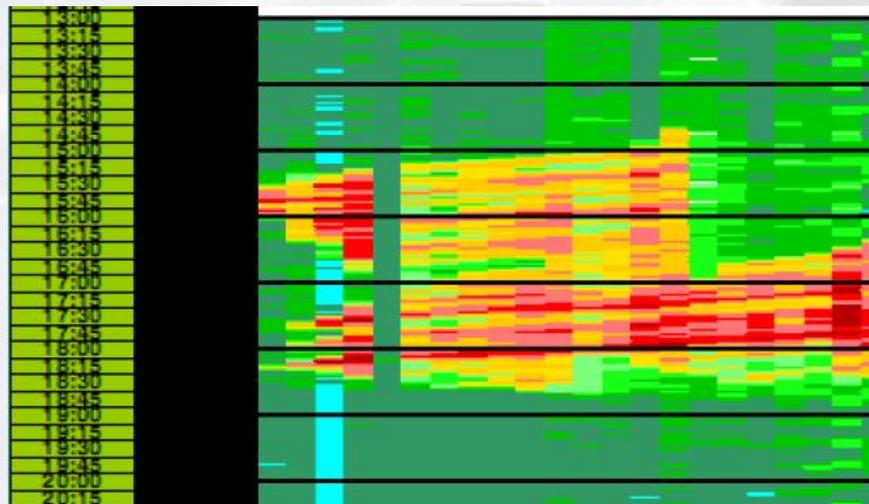
- Traffic management concepts intended to:
 - Enhance roadway safety.
 - Reduce congestion by **getting the most out of the pavement.**
 - Provide reliable trips.
 - Provide enhanced information to motorists.
 - Provide additional capacity during periods of congestion or incidents.



Managed Freeways

- Managed freeways aim to minimize turbulence in traffic flows.
- Integrated system ensures components work together to sustain traffic flows.
- Bottlenecks can be substantially eliminated.

M1 Managed Motorway Speed Contour Plot (PM 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

MAG Managed Lanes Network Development Strategy – Phase I

Phase I Completion – **May 2013.**

Phase II Completion – **December 2014.**

Reliability in terms of pavement expansion or congestion pricing?



Issues and Direction

- More than **16 significant planning projects** with outcomes **consistent with current regional** thinking.
- Funding uncertainties.
- New **economic direction** with focus on freight and goods movement.
- Transit successes.
- Pending **operations and maintenance** needs.

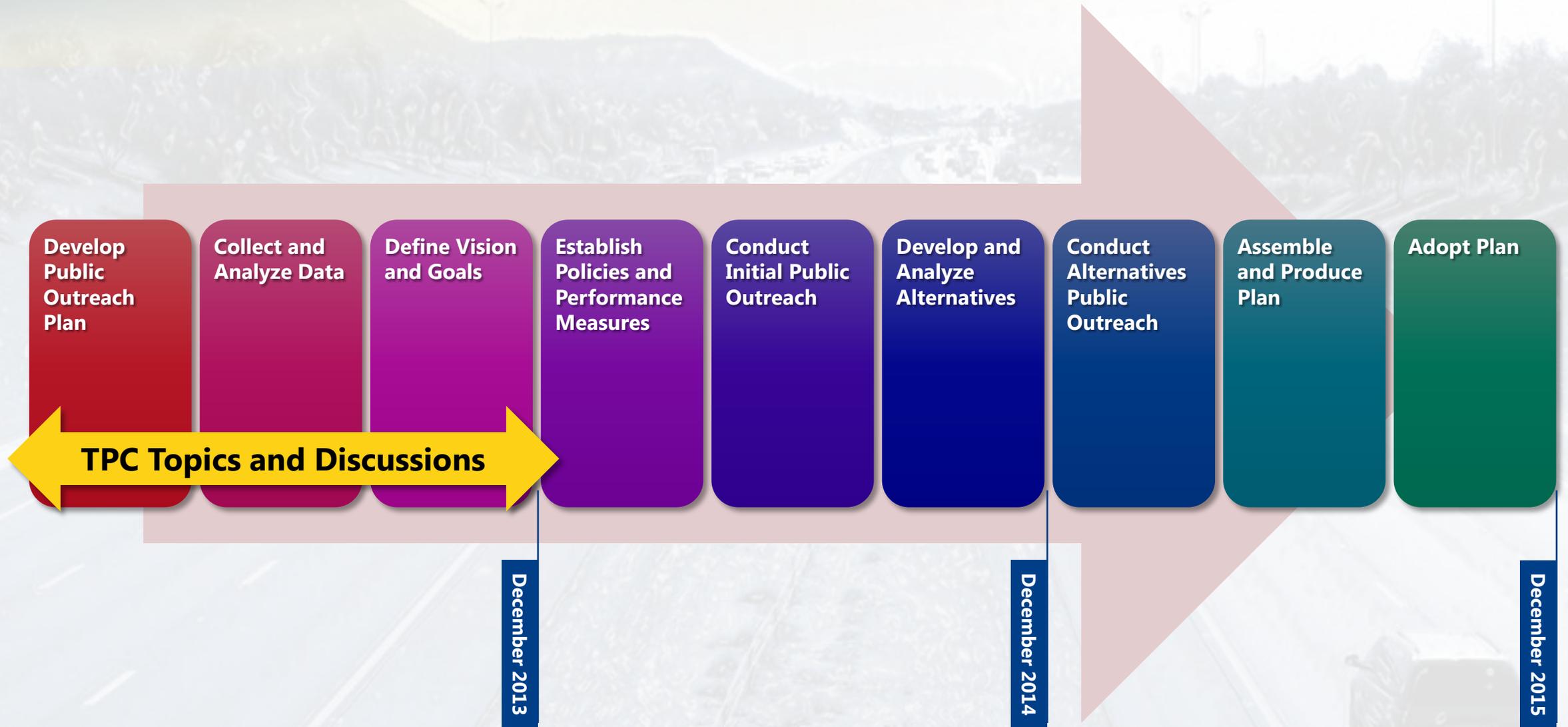


Operations and Maintenance “Bubble”

- ADOT Phoenix Maintenance District facts:
 - **5,366 lane miles of roadway**
 - **877 bridges**
 - 109 miles of drainage channels
 - 150 miles of sound walls
 - 70 pump stations/245 pumps
 - 174 miles of freeway management
 - 108 dynamic message signs
 - 193 cameras
 - 220 miles of freeway landscaping maintenance
 - 167 traffic signals/215 ramp meters
 - 13,231 luminaries for street lights



NexGen Regional Transportation Plan



For information and discussion.

Update on Transportation Division Planning Projects

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East Sky Harbor Blvd Traffic Interchange