

Performance Program Update



MAG Transportation Policy Committee
10-19-2016



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Performance Program Update

● FAST

- National Goals
- Rulemaking
- Measures and Targets
- Transparency and Accountability
- Requires State/MPO and Transit agency coordination
- Reporting Cycles

USDOT/FHWA Rulemaking

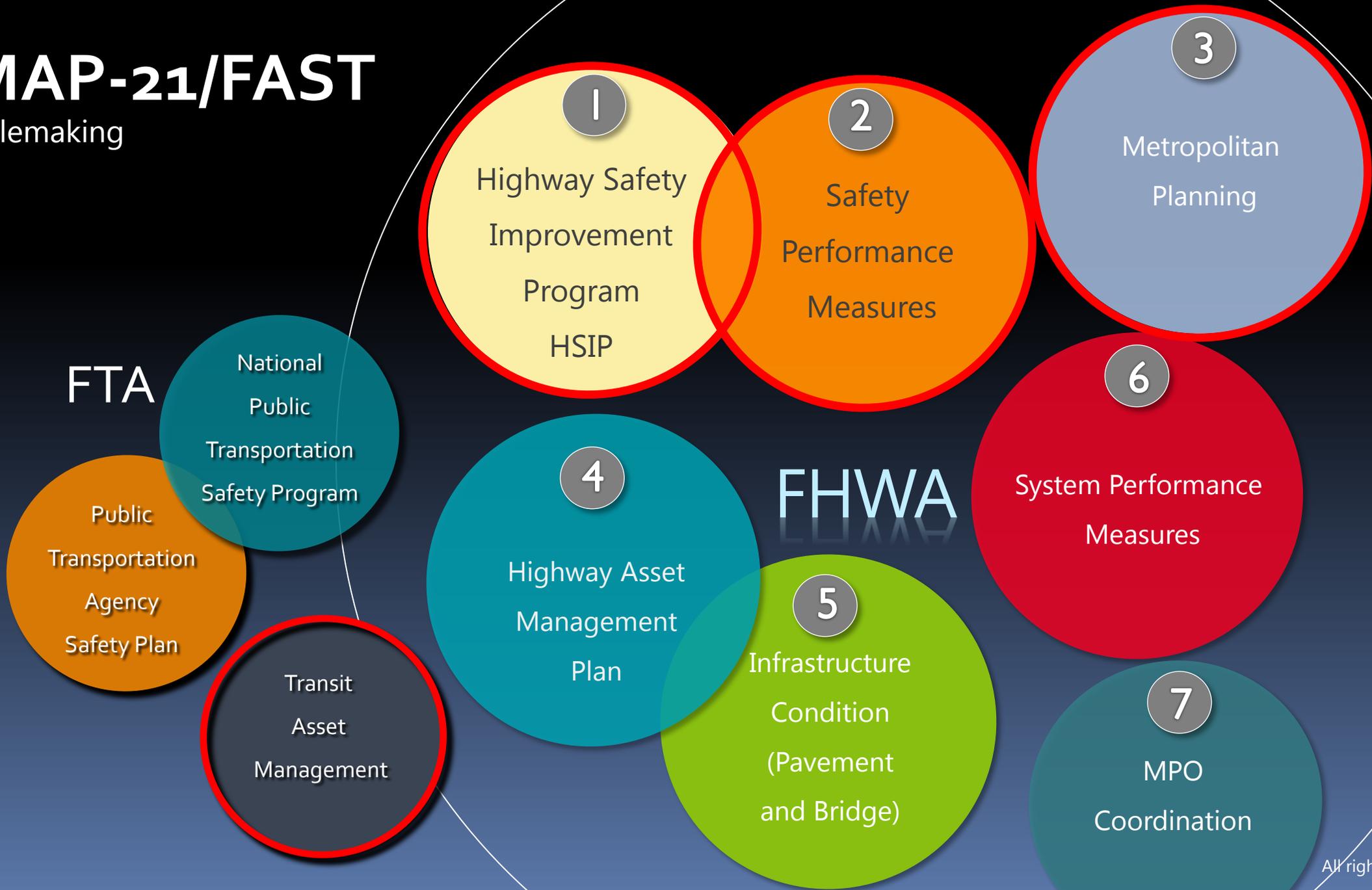
Performance Area	Final Rule
Safety Performance Measures	Published March 15, 2016
Highway Safety Improvement Program	Published March 15, 2016
Statewide and Metro Planning; Non-Metro Planning	Published May 27, 2016
Pavement and Bridge Performance Measures	Anticipated October 2016
Highway Asset Management Plan	Anticipated October 2016
Performance of the NHS, Freight, and CMAQ Measures	TBD

USDOT/FHWA Rulemaking



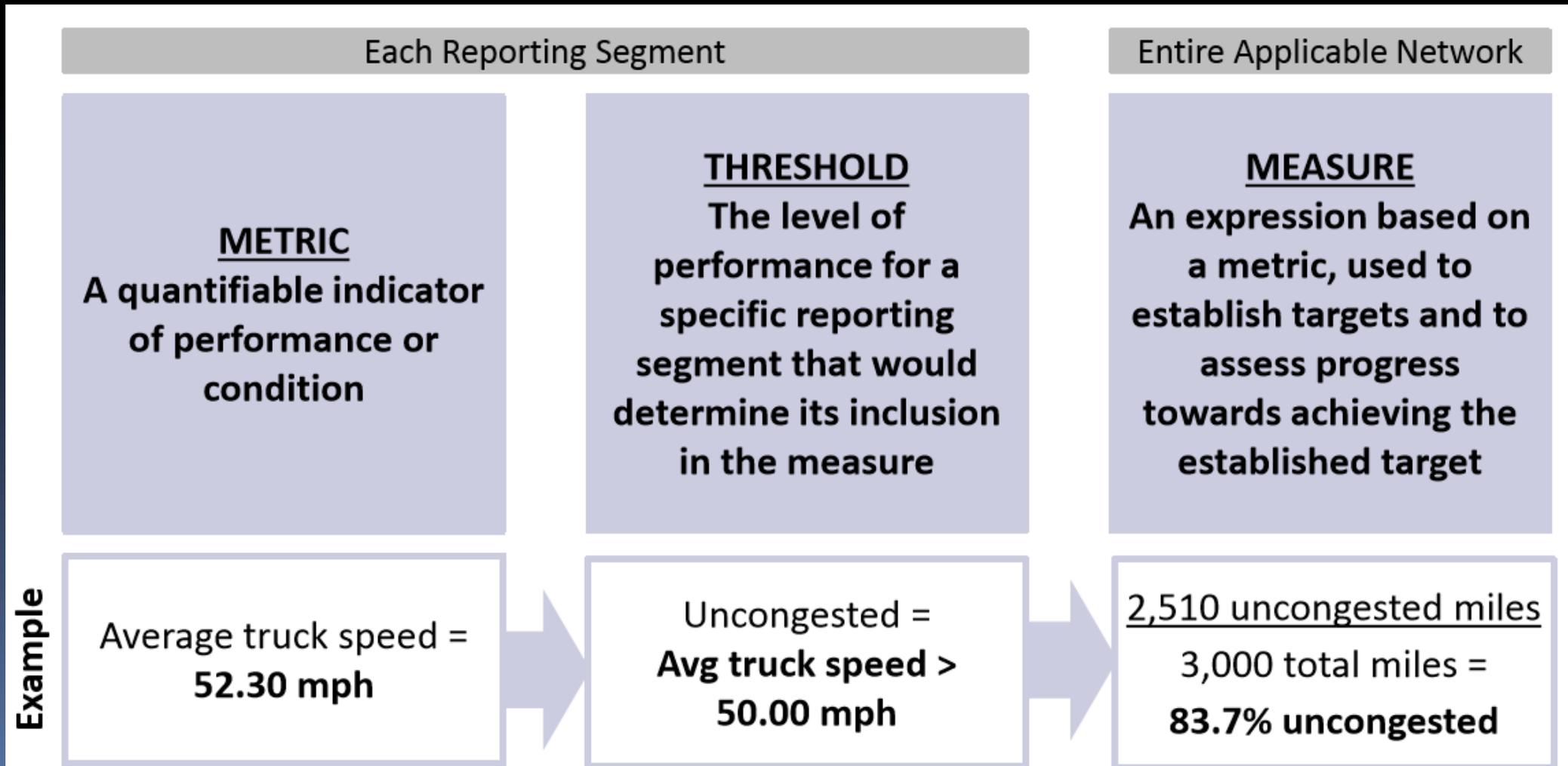
MAP-21/FAST

Rulemaking



Performance Program Update

Metrics, Thresholds and Measures



Performance Program Update

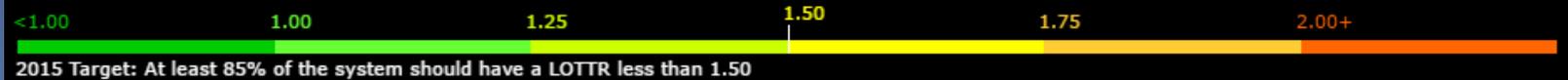
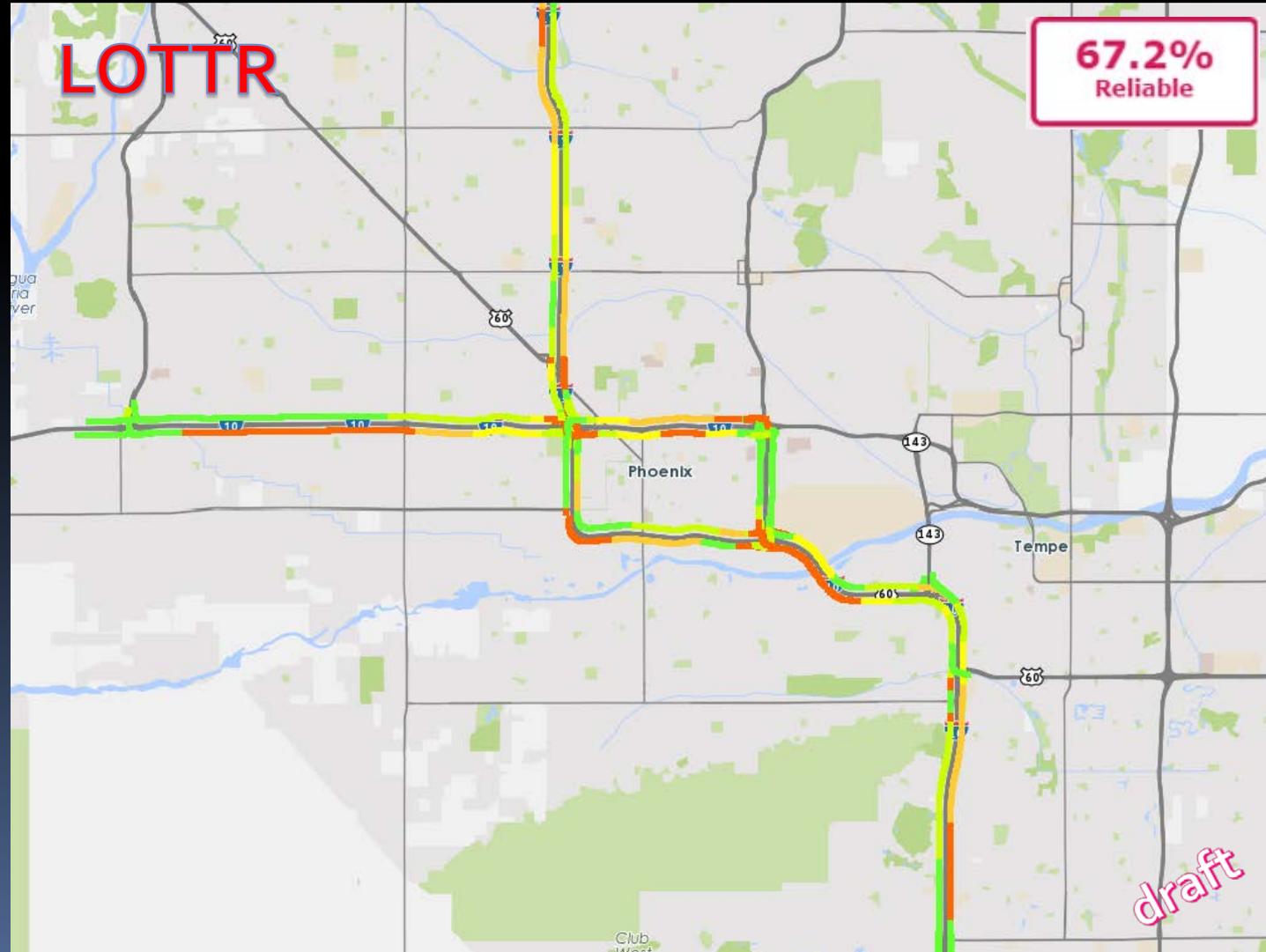
Measures and Targets

Entire Applicable Network	
<p><u>MEASURE</u> An expression based on a metric, used to establish targets and to assess progress towards achieving the established target</p>	<p><u>TARGET</u> A quantifiable level of performance or condition, as a value for a measure, to be achieved within a time period required by FHWA</p>
<p>83.7% total Interstate miles uncongested</p>	<p>Target: 80.0% Uncongested Actual: 83.7% Uncongested ✓ Target Achieved</p>

Phoenix/Mesa Interstate System Travel Time Reliability - LOTTR

2014 Target: At least 85% of the system should have a LOTTR less than 1.50

PMTAG

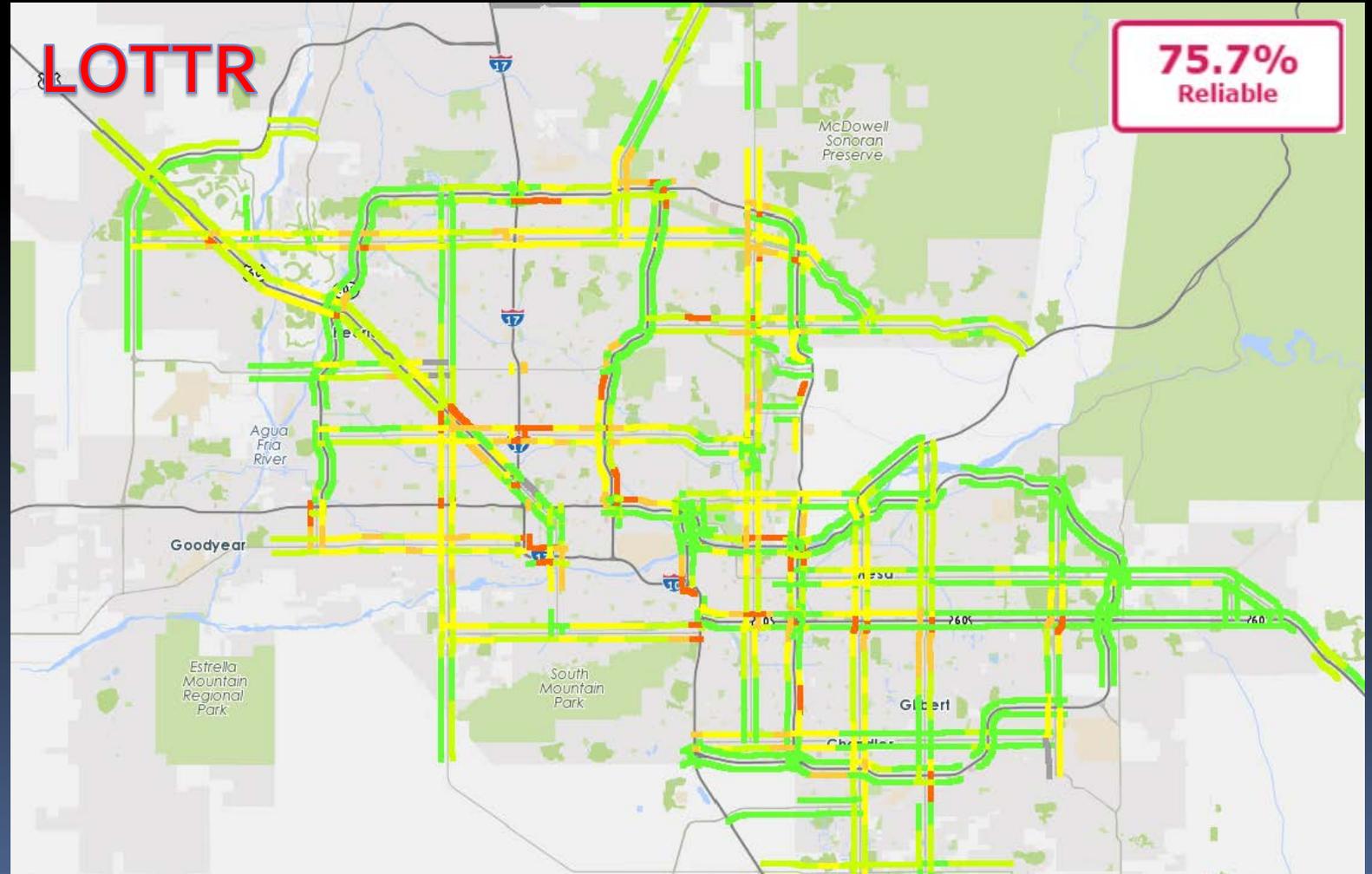


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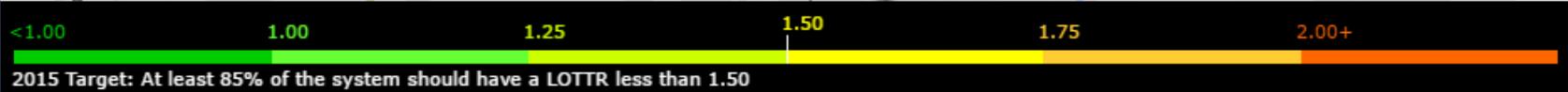


Phoenix/Mesa Non-Interstate System Travel Time Reliability - LOTTR

2014 Target: At least 85% of the system should have a LOTTR less than 1.50



75.7%
Reliable



<1.00

1.00

1.25

1.50

1.75

2.00+

2015 Target: At least 85% of the system should have a LOTTR less than 1.50

2016 RTP Performance Audit

- **State Mandated**
Arizona Revised Statutes (A.R.S.) §28-6313
- **Second Iteration (2010, 2016)**
Review past expenditures of the RTP during the time period of fiscal years 2011 through 2015 and examine the performance of the system in relieving congestion and improving mobility
- **On going –**
Data intensive. Estimated to be finalized before the end of 2016

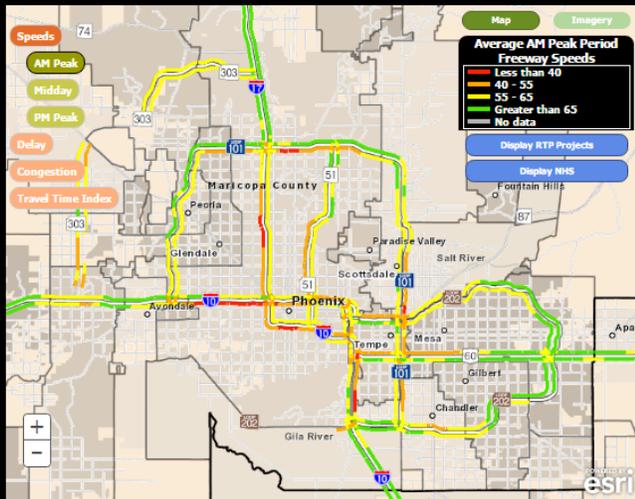


Freeways | Arterials | Transit | Non-Motorized

System | Corridor

ADOT FMS | Private Sector Data | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015

- Go to RTP Project Cards
- Go to Analytical Tools
- Go to Data Archive

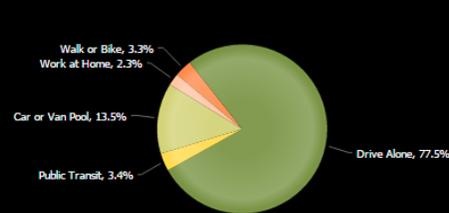


Average Trip Length per Mode of Travel (2013-2014)

	Average Trip Length (Miles)		Average Trip Length (Minutes)		Percent of Travel	
	2013	2014	2013	2014	2013	2014
Drive Alone	14.28	14.43	23.83	23.82	76.8%	77.5%
Bicycle	5.83	5.53	19.26	18.39	1.2%	1.2%
Bus	13.24	13.75	38.29	39.02	3.0%	2.9%
Carpool	13.15	13.44	22.75	22.7	13.7%	13.0%
Light Rail	14.04	13.76	34.49	33.65	0.5%	0.5%
Telecommute	NA	NA	NA	NA	2.1%	2.3%
Vanpool	33.39	34.58	43.41	44.66	0.5%	0.5%
Walk/run	3.41	3.28	15.97	15.09	2.2%	2.1%

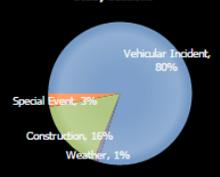
Source: Maricopa County Air Quality Department's Annual Trip Reduction Report
 The data used to generate this table is based on the Maricopa County Air Quality Department's Annual Trip Reduction Survey. The most recent survey was administered to over 500,000 people. Student surveys were included in this analysis.
 Due to rounding errors associated with the calculation of the percent of travel, the sum of the individual categories may not equal 100%.

Regional Commute Mode Shares (2014)



Source: Maricopa County Air Quality Department's Annual Trip Reduction Report
 Due to rounding errors associated with the calculation of the percent of travel, the sum of the individual categories does not equal 100%.

Non-Recurring Congestion on Freeway Study Sections*



*Weekday and Weekend - MAG 2011 Non-Recurring Congestion Study

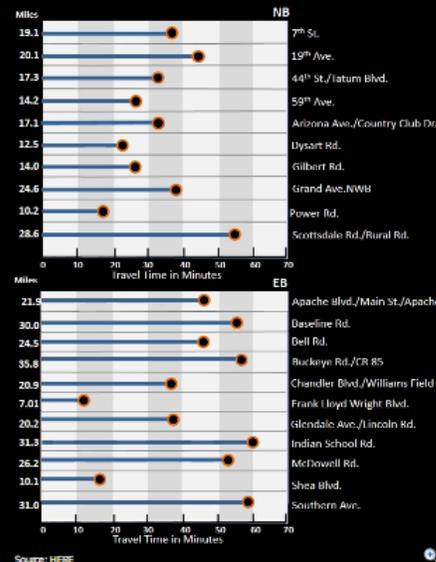
Annual Total Freeway Congestion (vehicle-hours)

Study sections	Vehicle Miles Travelled (VMT)	Weekday + Weekend Recurring	Weekday + Weekend Non-Recurring	Total
I-10 WB SB 35 to I-27	465,334	89,167	99,588	188,755
I-17 SB: I-10 Stack to I-20 Split	347,033	2,874	18,399	22,267
Loop 202 WB: 46th St to 22nd St	292,888	68,514	43,148	111,662
I-10 WB: Ray Rd to Southern Ave	455,935	140,080	39,398	179,478
US 60 EB: I-10 to Loop 101	265,434	23,299	100,184	123,483
Total	1,774,604	323,934	298,707	622,641
Systemwide	29,450,000	5,506,858	5,878,017	10,384,875

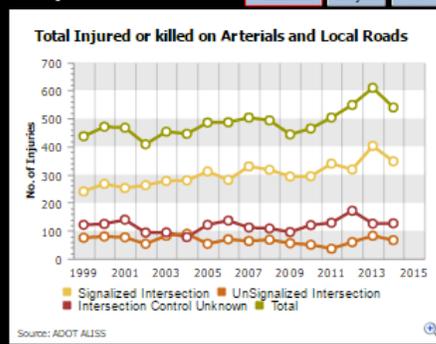
Note: Systemwide VMT based on 2017 HPMS data
 Source: 2009 MAG Non-Recurring Congestion Study

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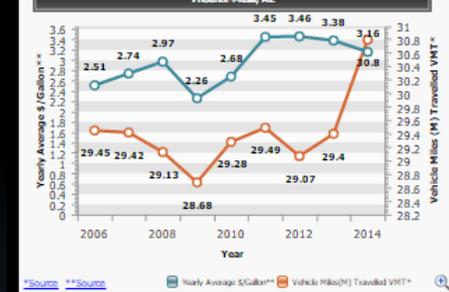
PM Peak Travel Time on key corridors SB/WB | NB/EB



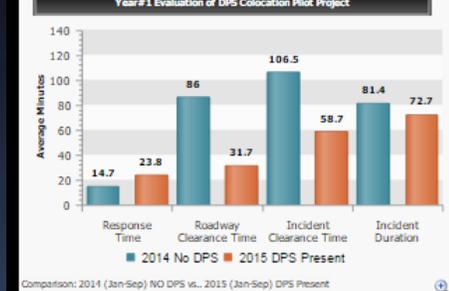
Safety



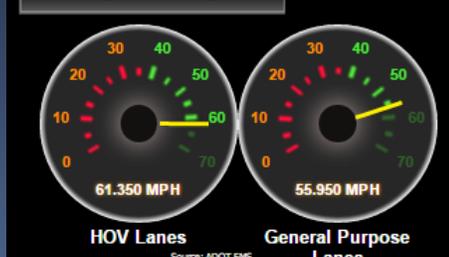
Annual Average Freeway VMT vs Cost of Gas/Gallon Phoenix, AZ

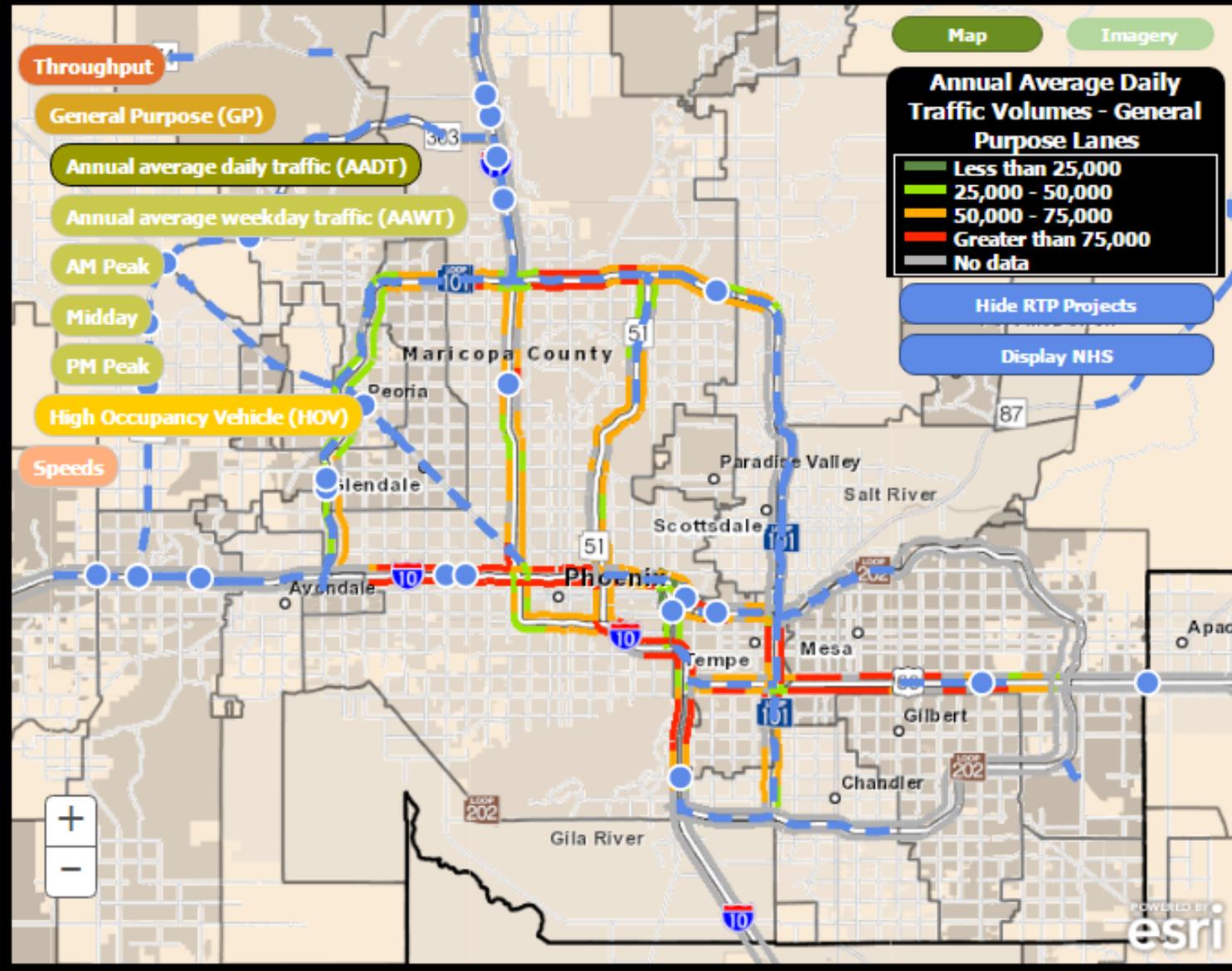


All Freeway Crashes & Roadway Clearance Year#1 Evaluation of DPS Colocation Pilot Project

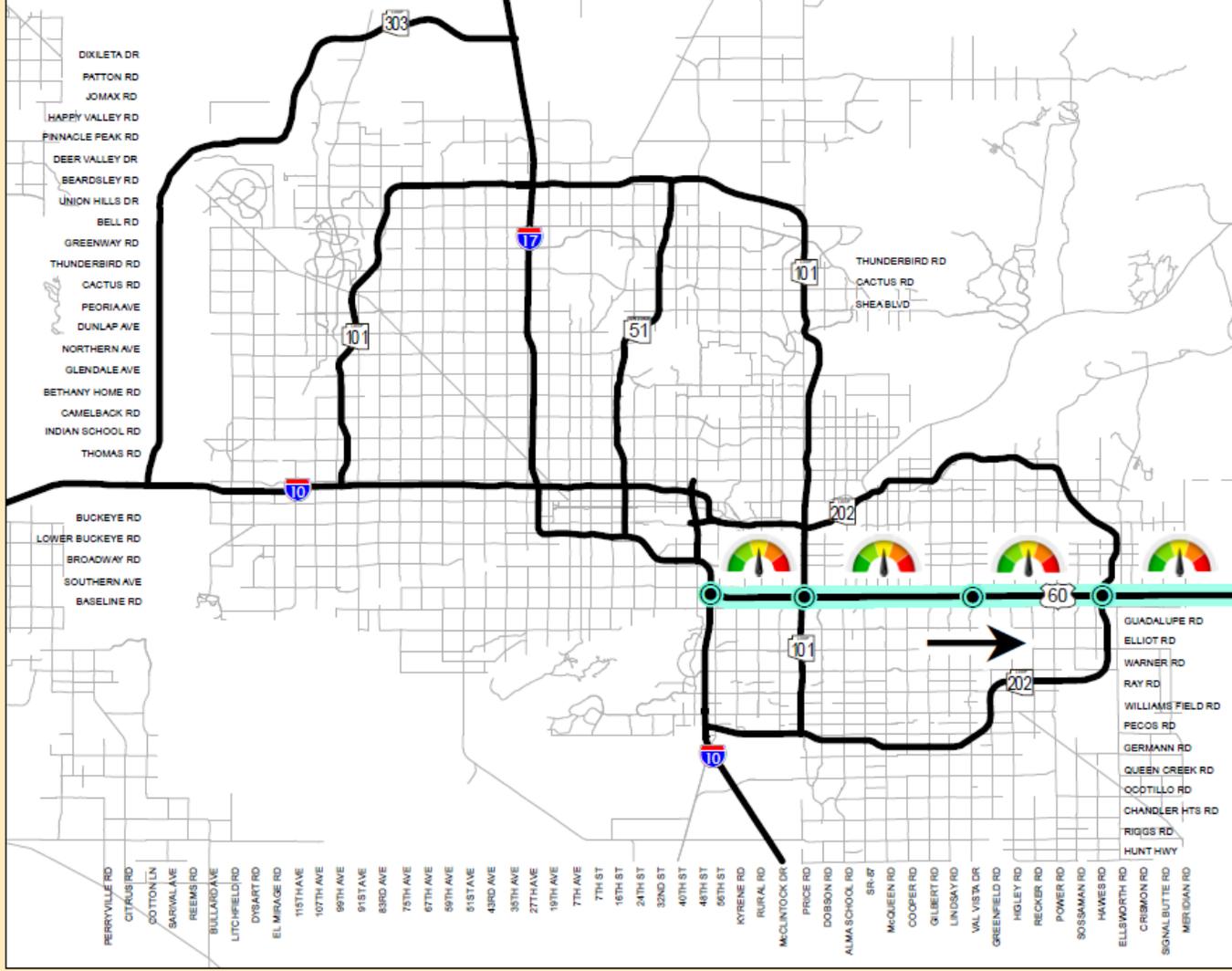


Freeway PM Peak Speeds





Travel Time Conditions

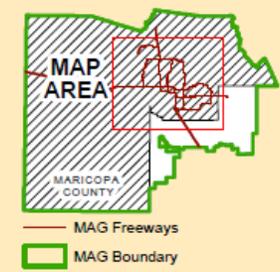


Eastbound US-60 AM Peak Period

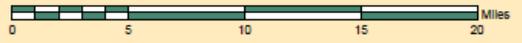
Freeway Segment Travel Time Index % Change (2011-2014)

Travel Time Conditions

- Improved 6% +
- Improved 3-6%
- Less than +/- 3% Change
- Decreased 3-6%
- Decreased 6% +
- Segment Endpoints



While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.



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Source: Maricopa Association of Governments

MAGni↑ude

Transportation Performance Dashboard



interactive visualization tool for regional multimodal transportation information and analysis

performance.azmag.gov

In collaboration with the Arizona Department of Transportation and Valley Metro



Regional Transportation Plan (RTP)
Project Cards



informational viewer tool for all completed and underway RTP Freeway projects and Light Rail transit projects

projectcards.azmag.gov

In collaboration with the Arizona Department of Transportation and Valley Metro

Link to FHWA Rulemaking:

<https://www.fhwa.dot.gov/tpm/rule.cfm>

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