



# NORTH PEORIA Traffic Study

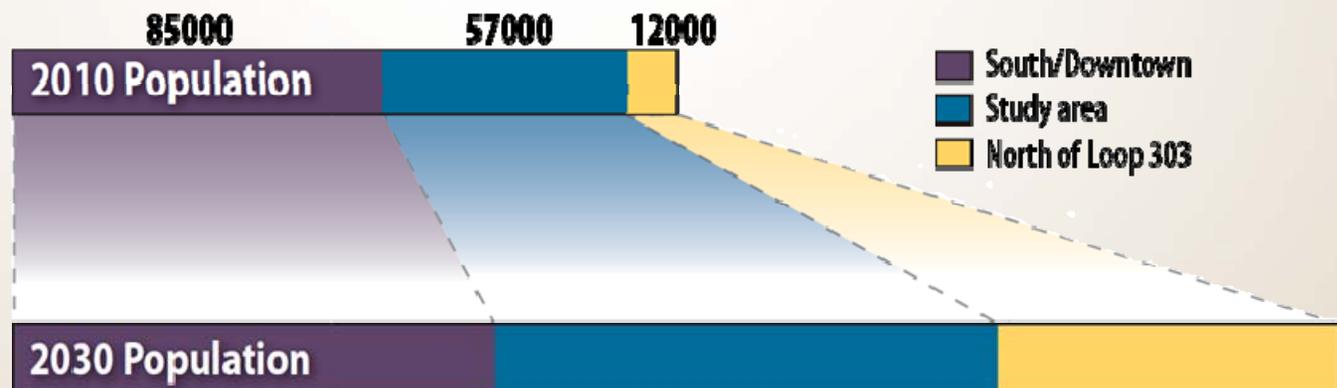
## Public Open House

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# Study purpose

- Identify multimodal transportation needs
- Assess the current system performance
- Identify transportation needs and solutions
- Recommend short- and long-term multimodal improvements



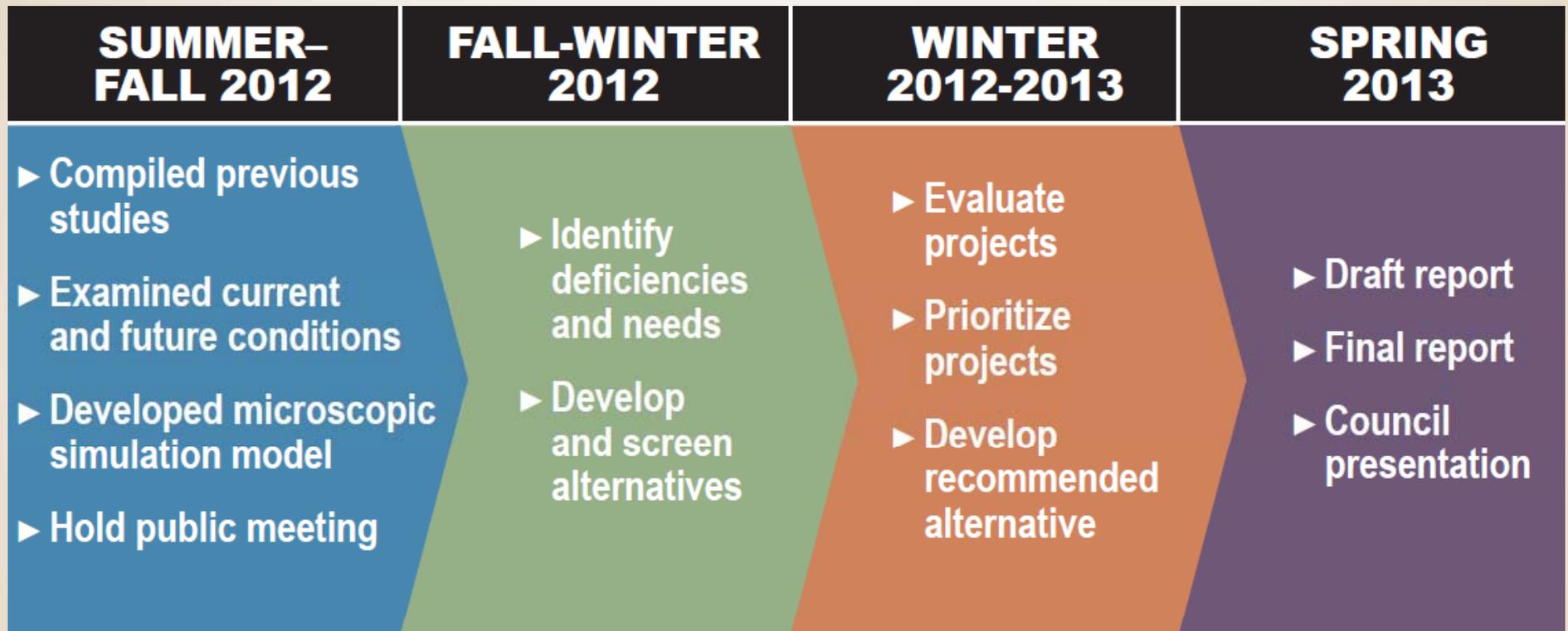
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# Study schedule



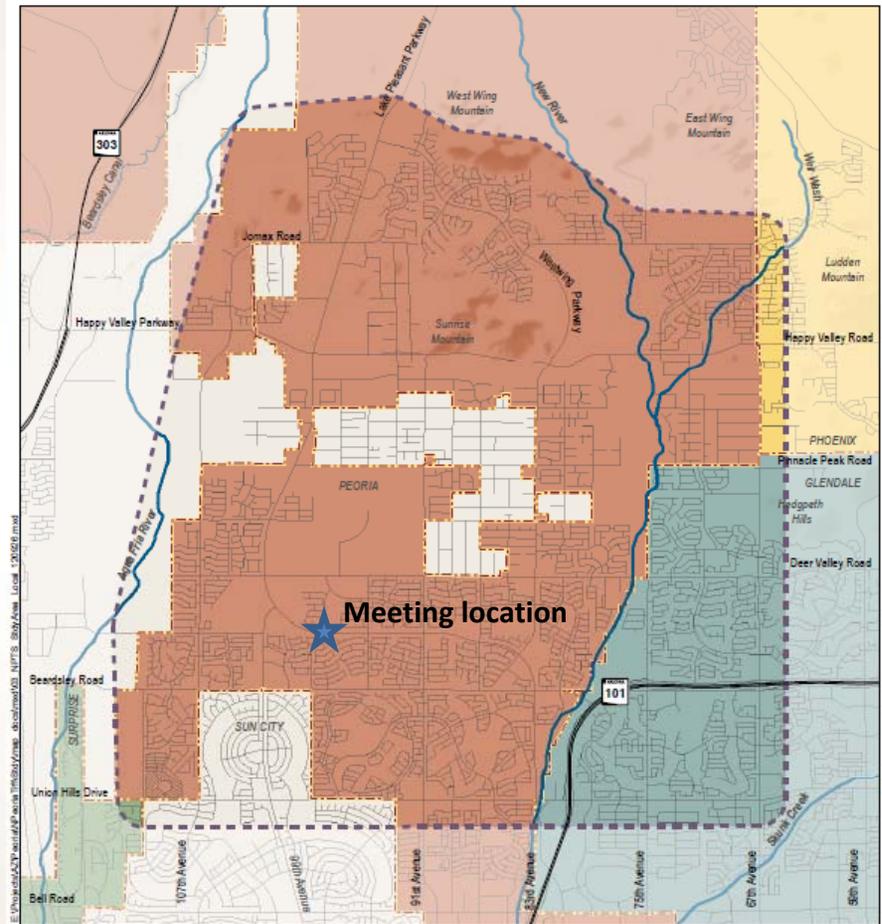
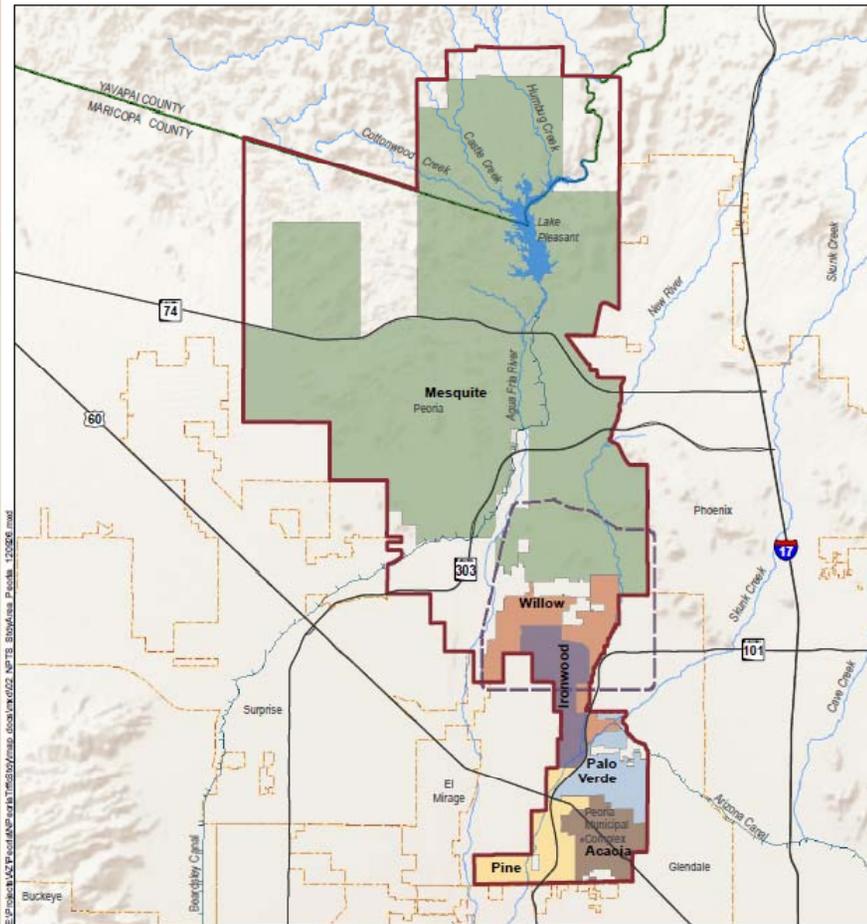
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# Study area



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# Existing and future conditions

- Previous projects, studies, and plans
- Study area characteristics
- Crash history
- Traffic counts and operational analysis
- Intelligent transportation systems (ITS)
- Transit services
- Nonmotorized services



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# Major recent transportation projects

- Loop 101, Beardsley Road connector
- Happy Valley Road
- Lake Pleasant Parkway
- Loop 303
- Local widening of 83rd Avenue, Deer Valley Road, and 67th Avenue



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# Major current or upcoming projects

- Lake Pleasant Parkway widening to Loop 303
- Agua Fria River truck bypass route
- Williams Road/Deer Valley Road bridge across the Agua Fria River
- Local road widening, ITS expansion, signal installations



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# Study planning resources

- 2005 Transportation Needs Study
- 2007 Bicycle Development Plan
- 2010 ITS Strategic Plan
- 2011 Multi-modal Transportation Plan
- Current City General Plan and Capital Improvement Plan



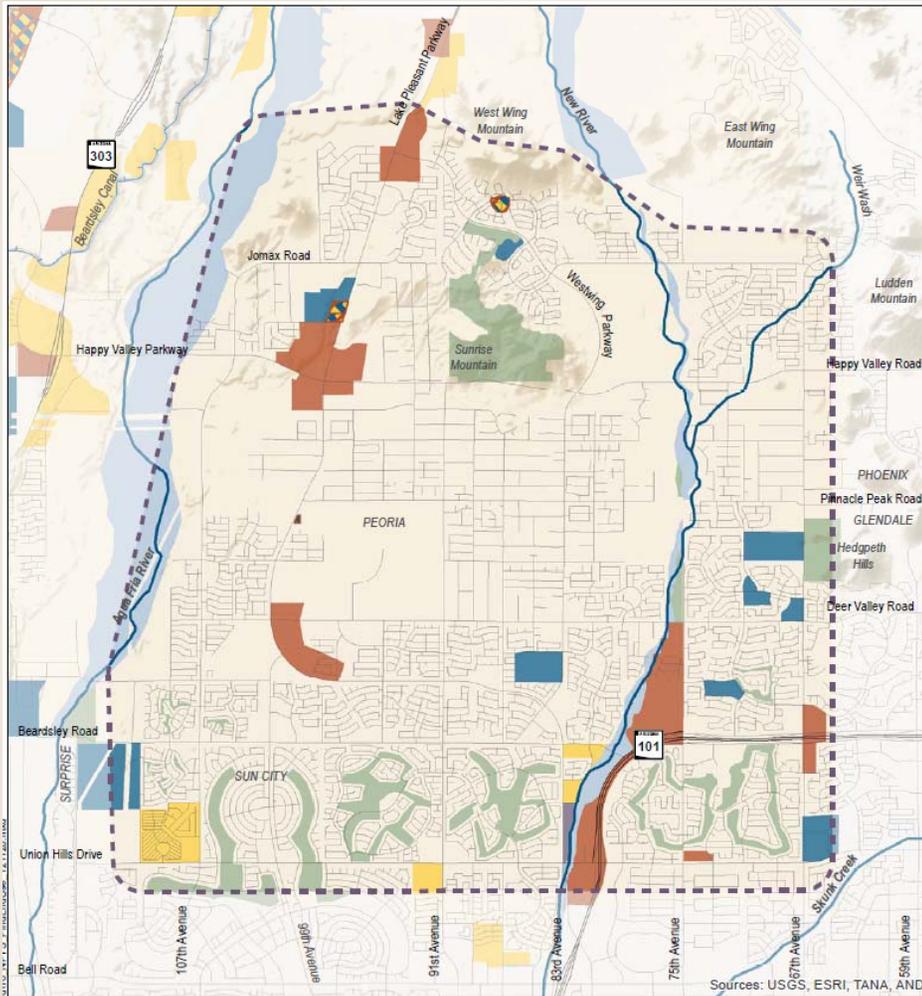
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# Land Use



- Business park/Industrial
- Community commercial
- Park/open space
- Mixed use
- Public/quasi-public
- Residential - multi-family
- Residential - single-family
- Water

Owner	Area (acres)
Private land	20,576
Arizona State Land Department	1,215
Bureau of Land Management	62
Parks and recreation	76
<b>Total in study area</b>	<b>21,929</b>



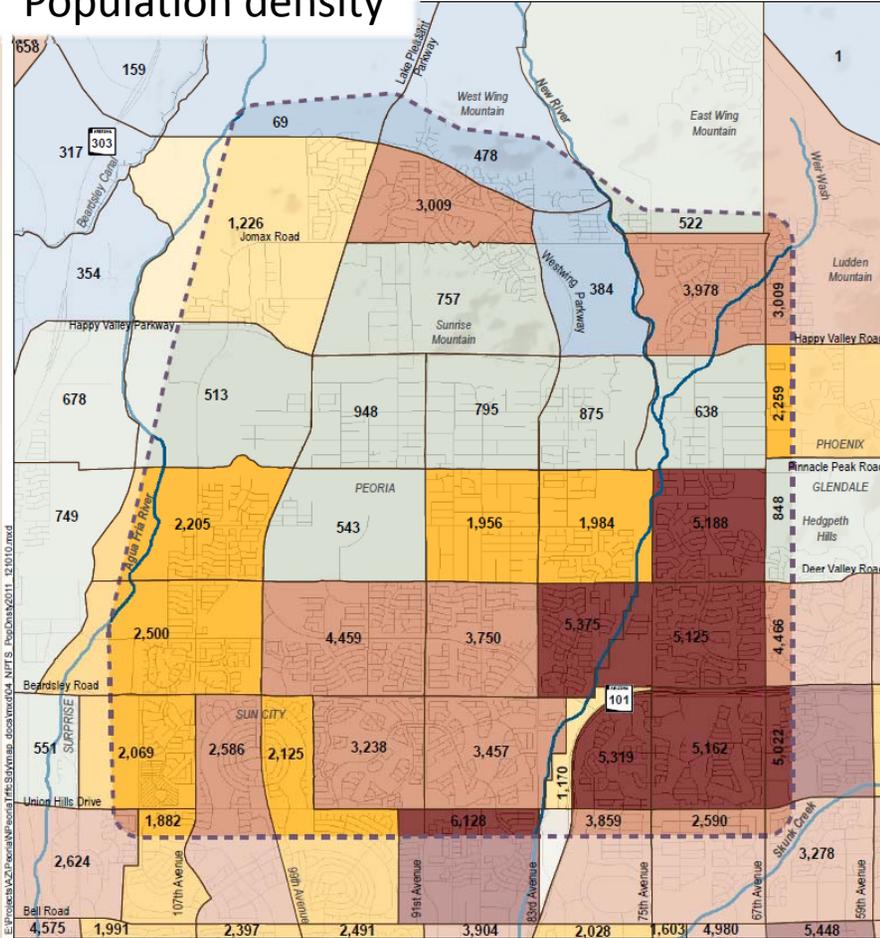
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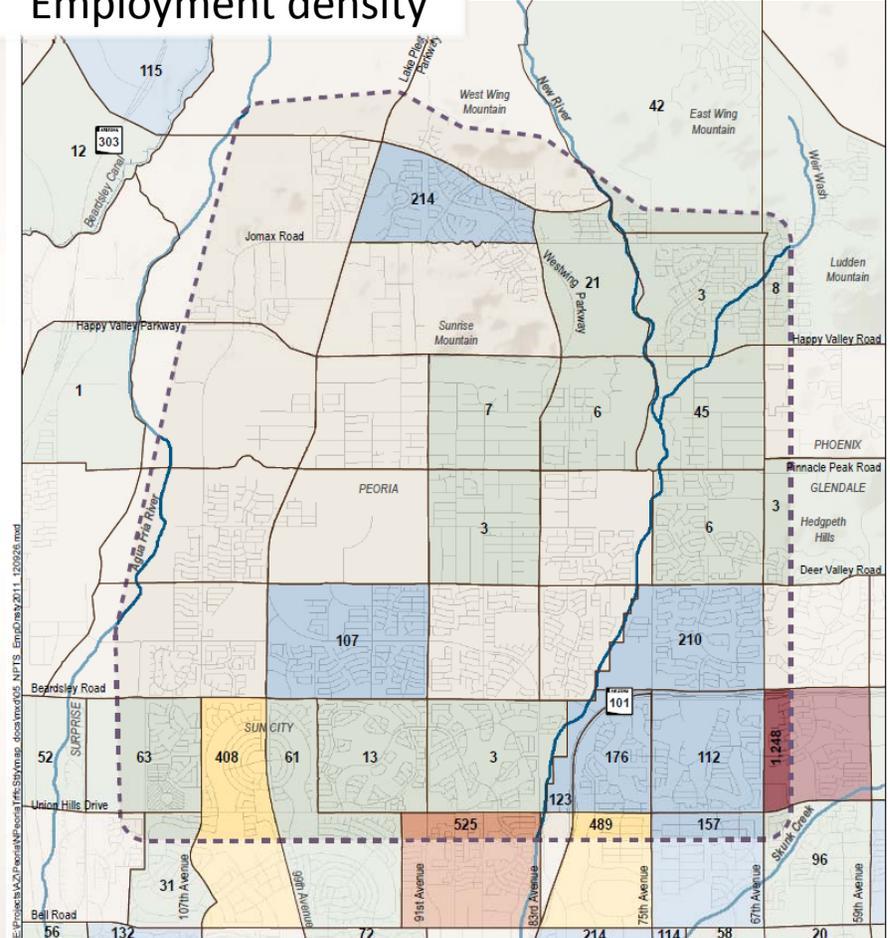
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# Socioeconomic data

Population density



Employment density

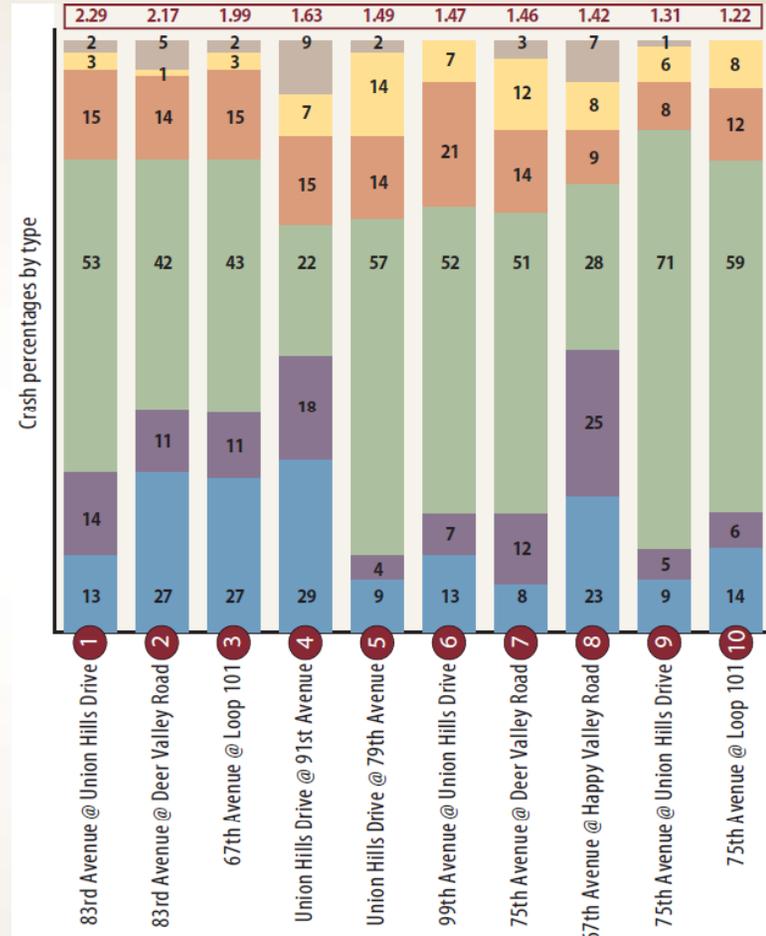
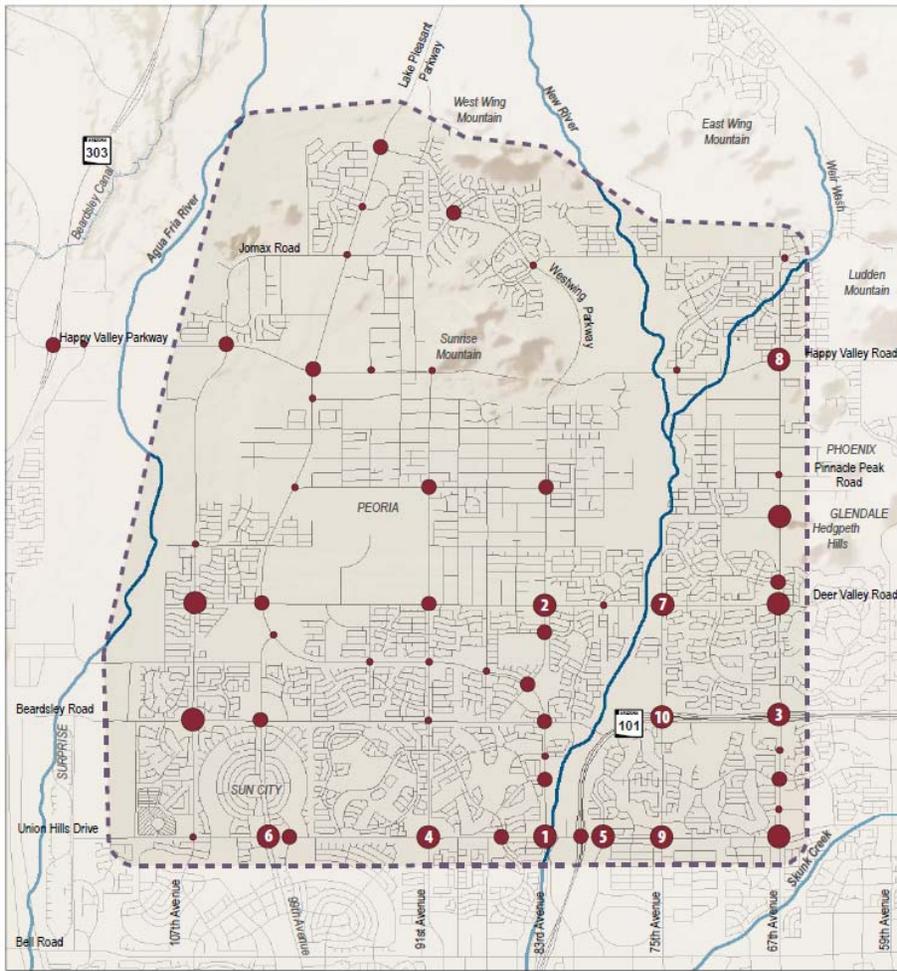


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# Intersection crashes



**Crash type**

- Angle
- Rear end
- Single vehicle
- Left turn
- Side swipe
- Unknown/other



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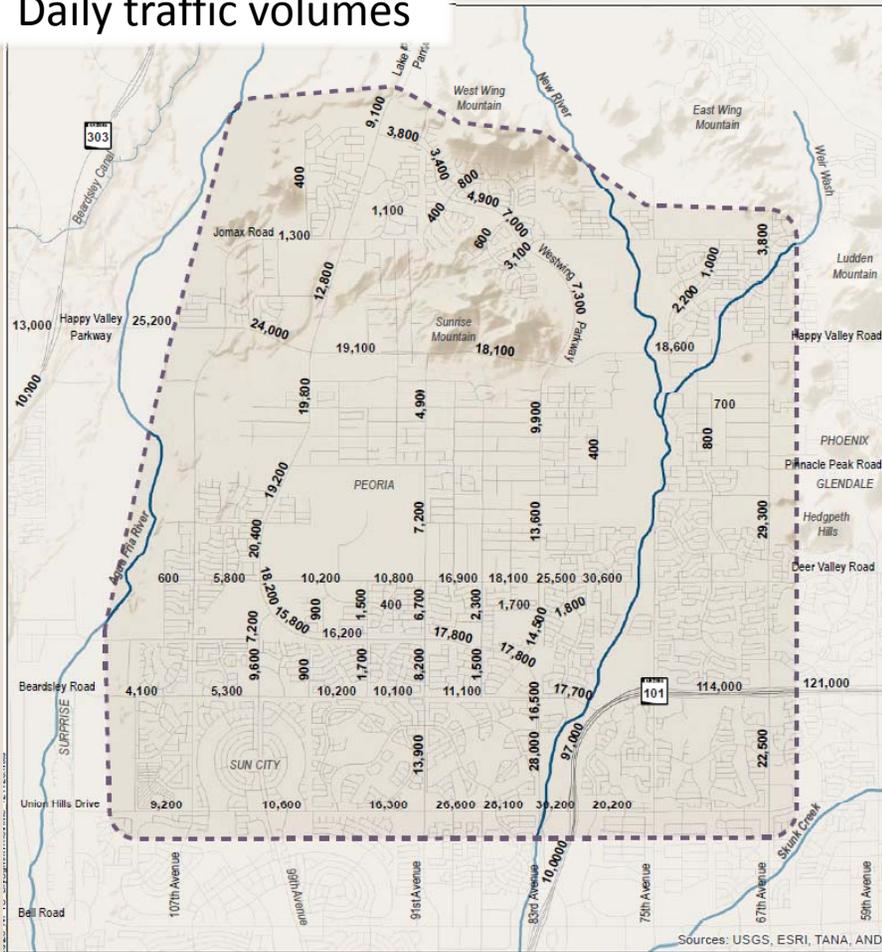


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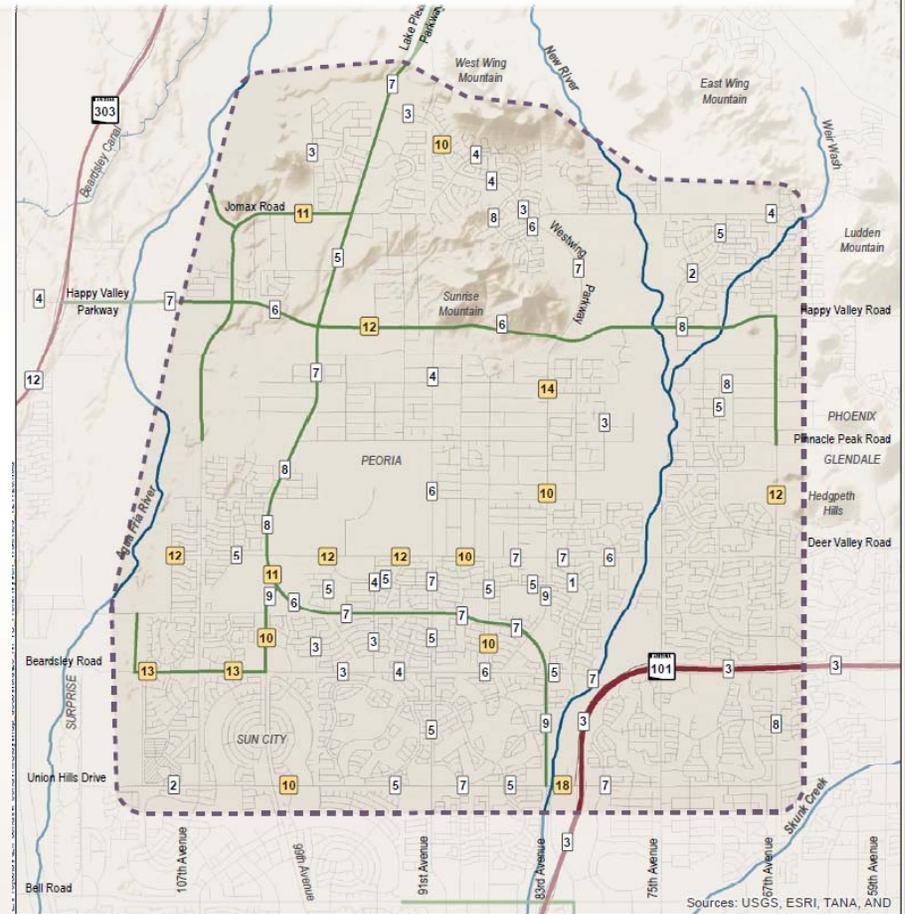


# Existing traffic conditions

Daily traffic volumes



Heavy vehicle percentage and truck routes



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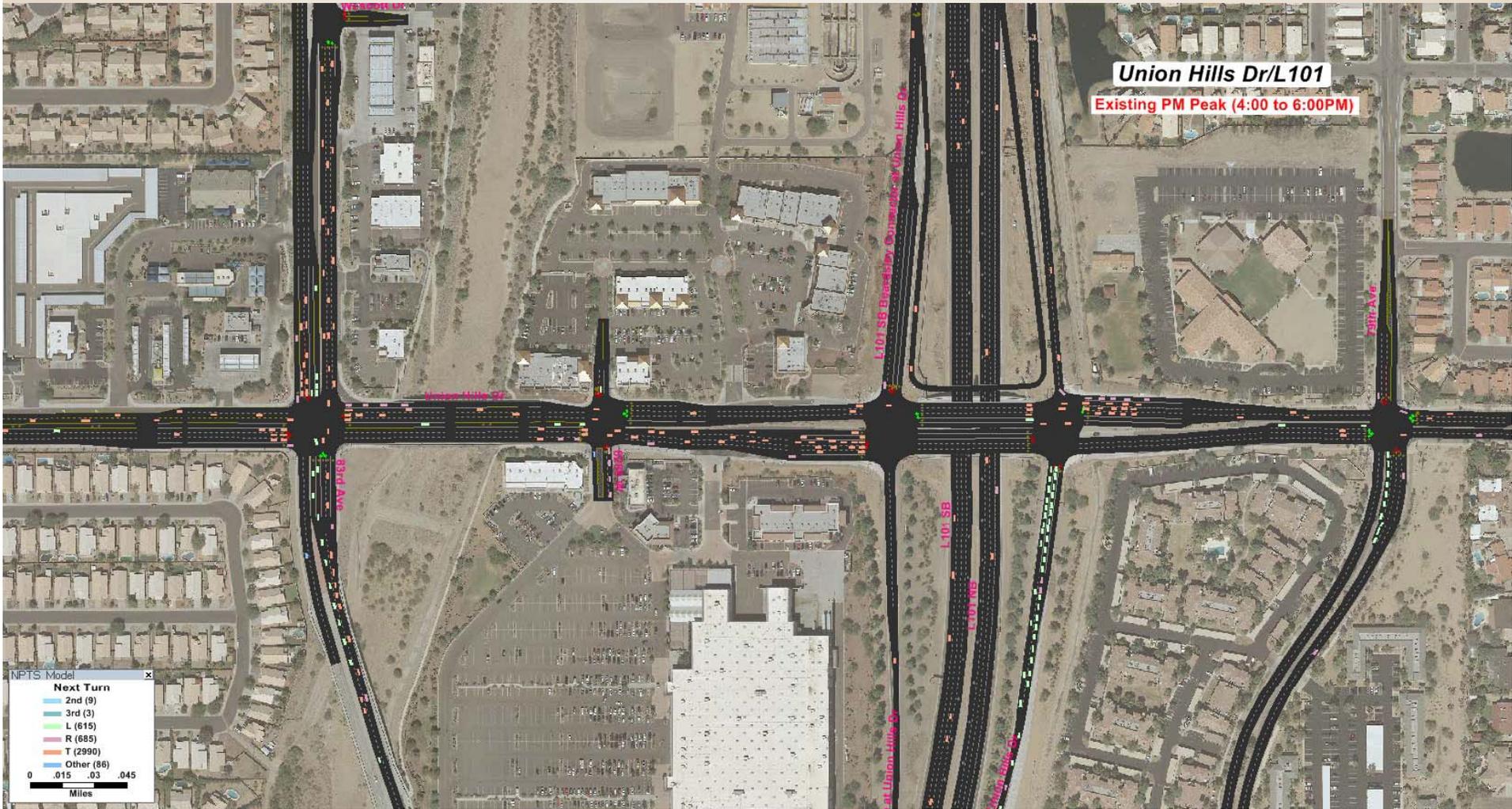


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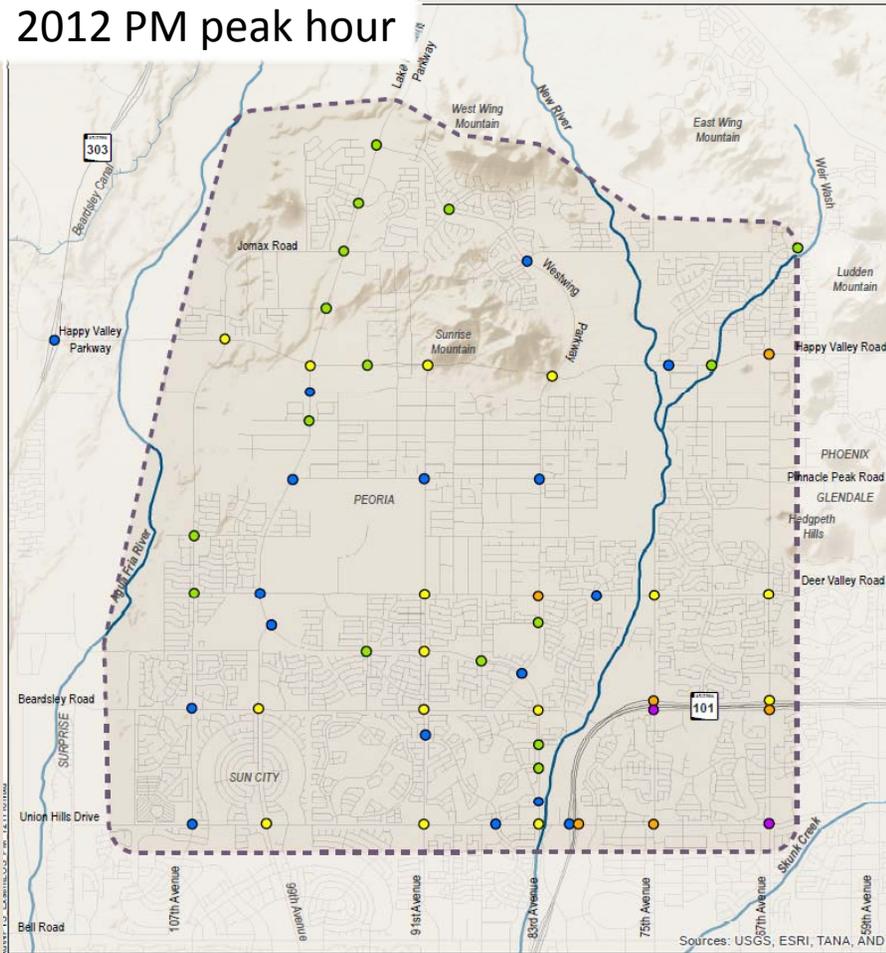


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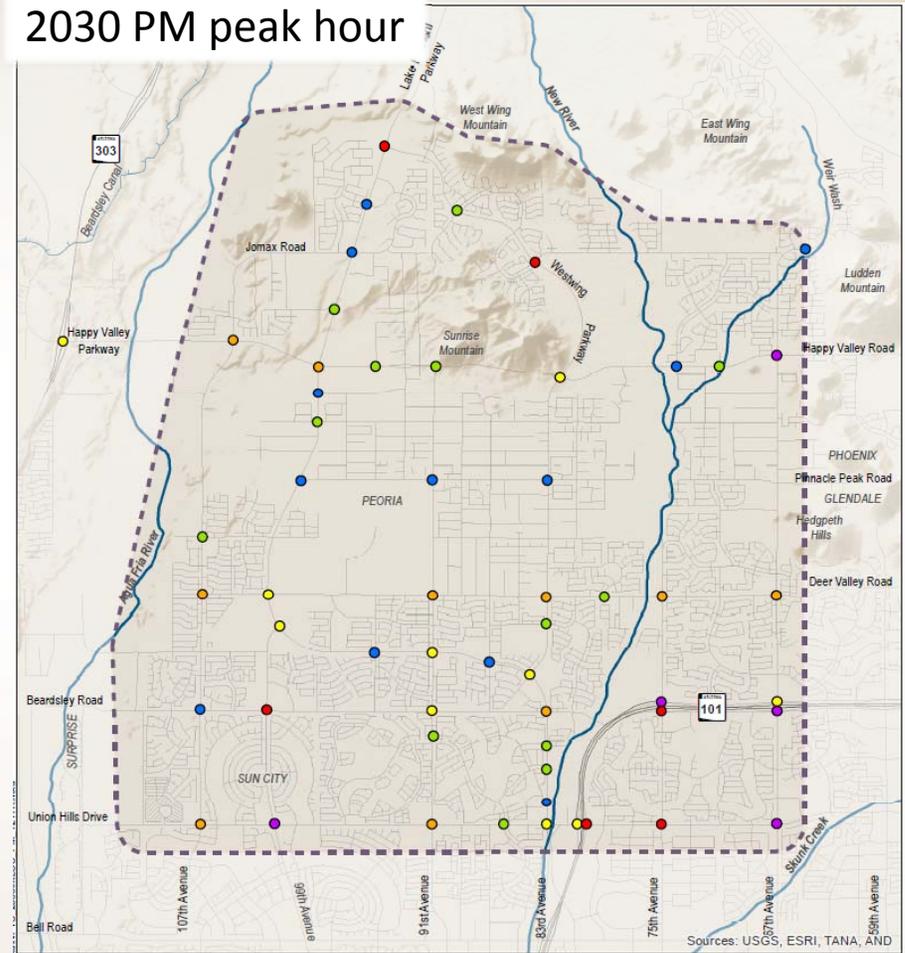


# Operational performance

2012 PM peak hour



2030 PM peak hour



Level of Service



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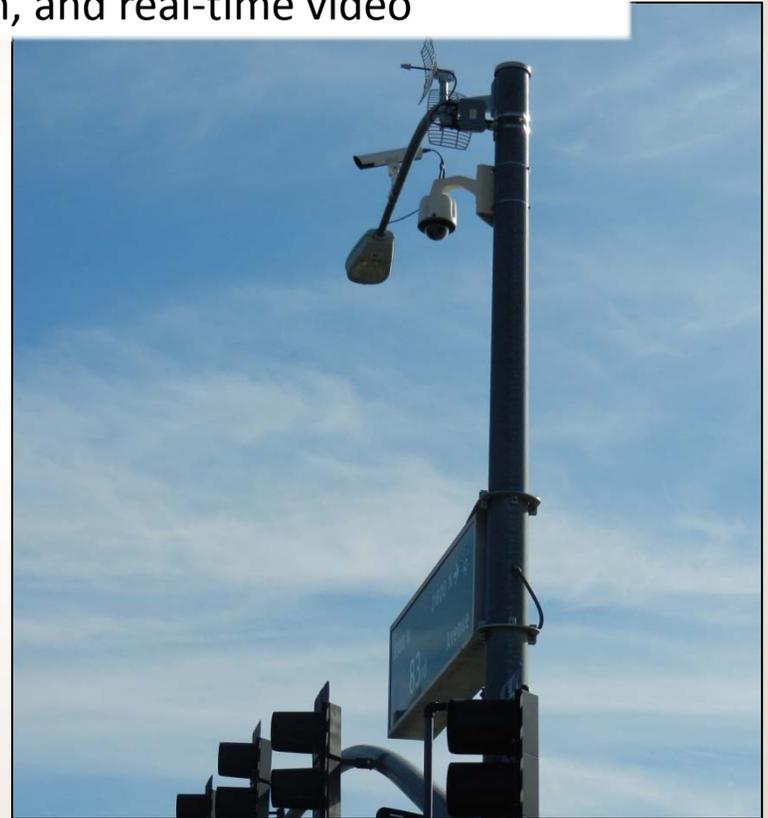


# Intelligent transportation systems

Traffic Management Center



Intersections: signal preemption, vehicle detection, and real-time video



Dynamic message sign



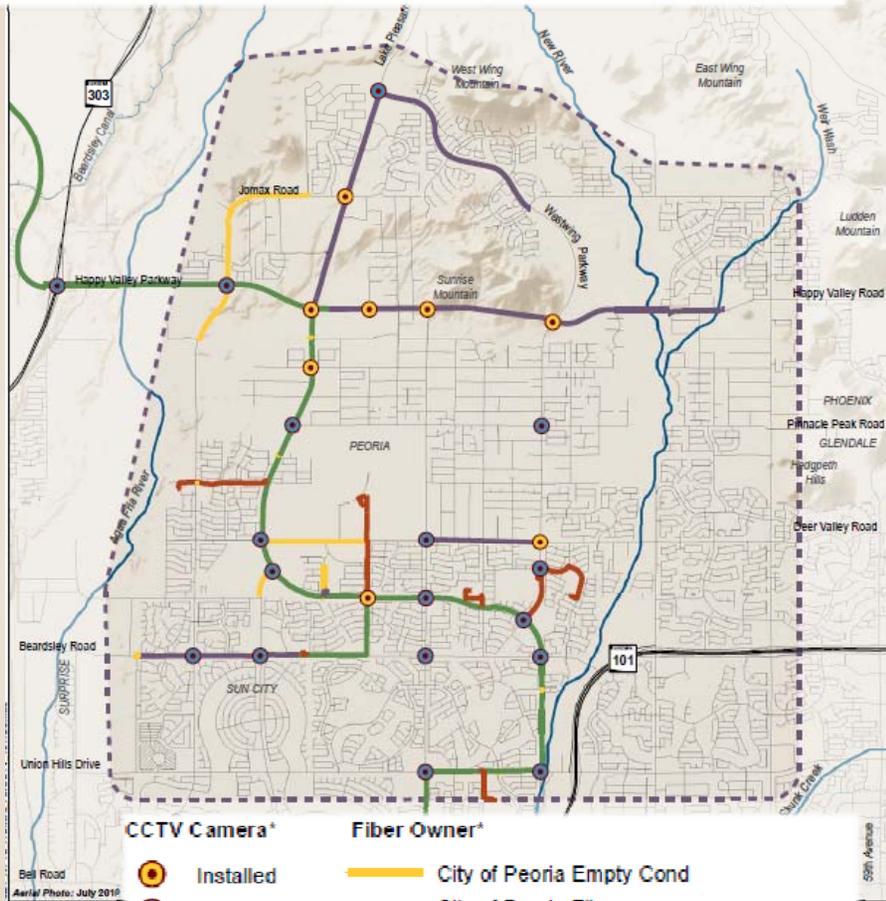
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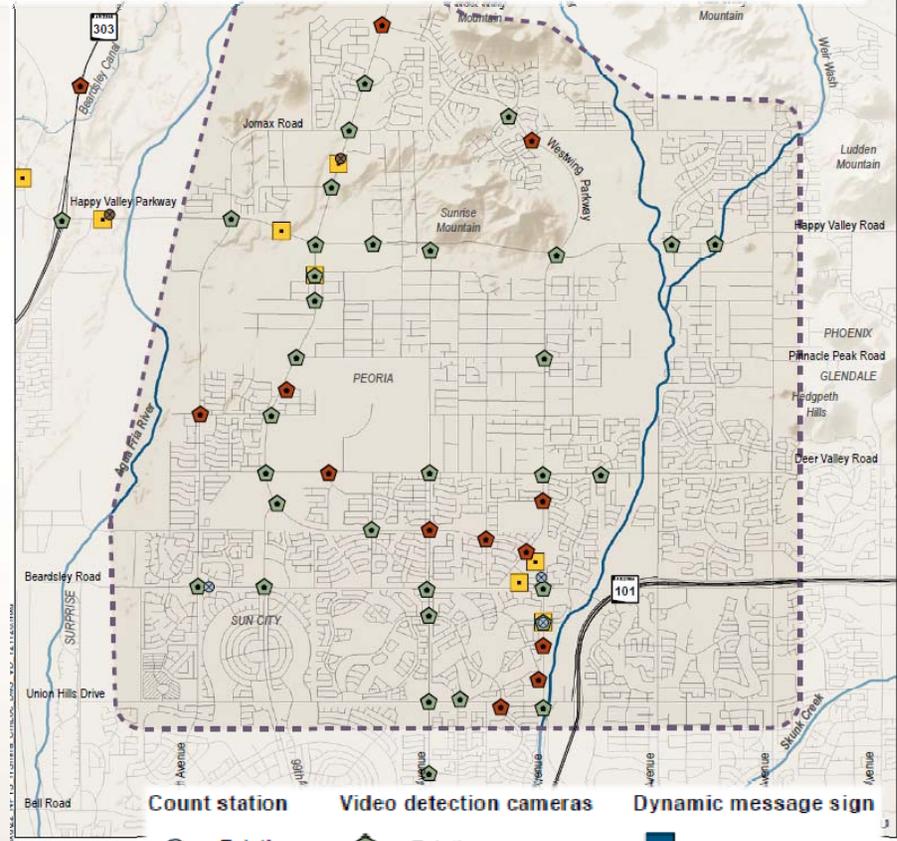
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# ITS infrastructure

## Fiber and Closed-circuit TV cameras



## Count stations, video detection, and dynamic message signs

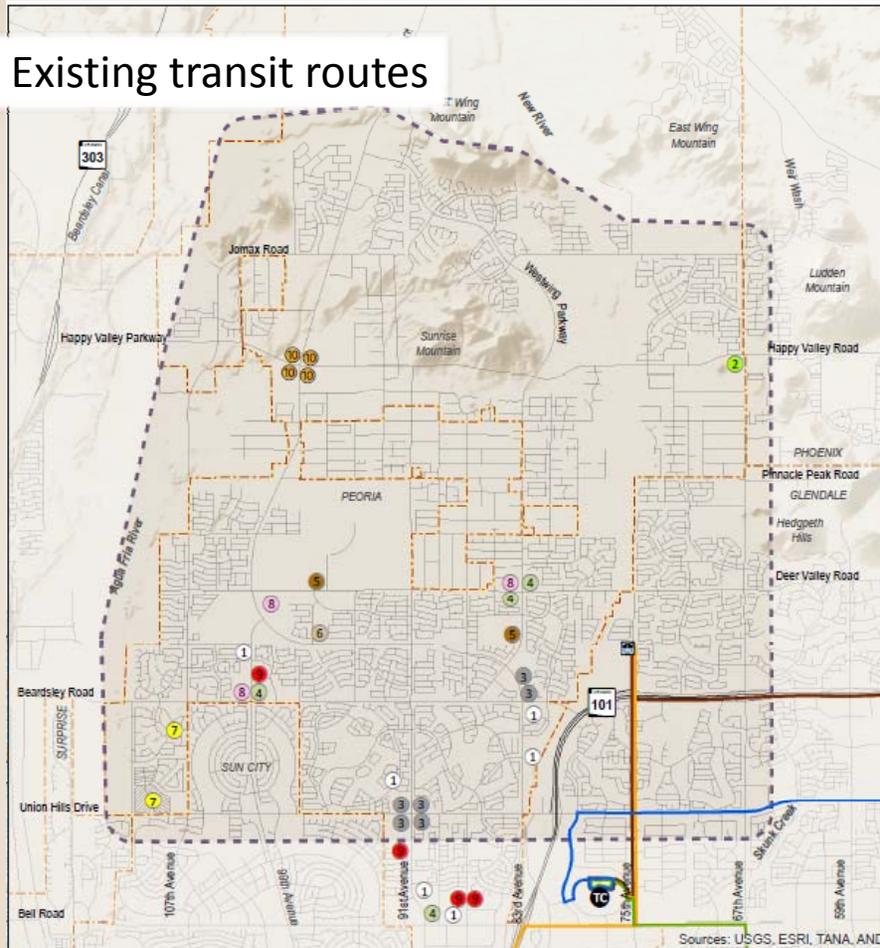


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# Transit services

Existing transit routes



- Extend Valley Metro's grid system into the study area
- New express routes from northern areas based on future growth patterns
- New park-and-ride lots at locations to be determined based on growth

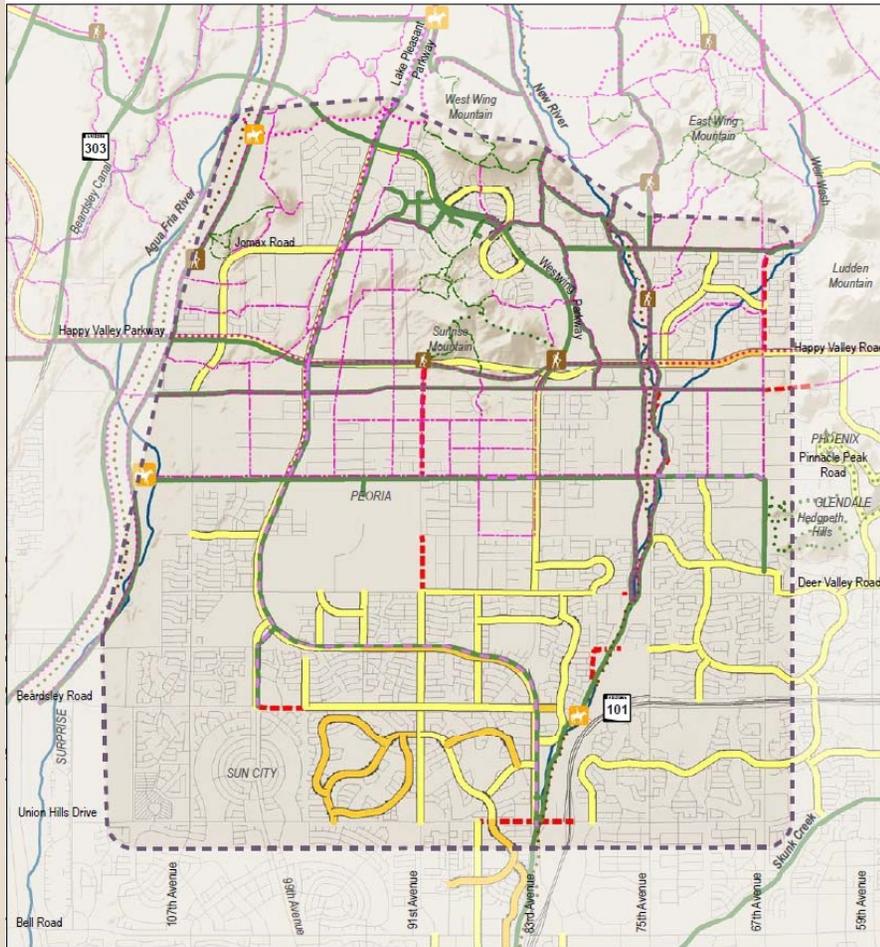


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# Nonmotorized system



Bicycle lanes



Sidewalks



Paths and trails



Gaps in system

**Peoria trailheads**

- Equestrian trailhead, 1
- Equestrian trailhead, 2
- Equestrian trailhead, 3
- Trailhead, 1
- Trailhead, 2
- Trailhead, 3

**Paths and Trails**

- Primary trail
- Secondary trail
- Primary backcountry trail
- Secondary backcountry trail
- Equestrian trail
- 4' unpaved shoulder
- Path

Nonmotorized desire lines

- Bike lane
- Bike Route



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# Transportation issues

- Locations with unacceptable levels of service
- Hot-spots with safety concerns
- Queuing problems on the major roads
- Traffic flow bottlenecks on the major roads
- Potential transit demand currently not served
- Demand for commuter parking
- Locations with high pedestrian volume
- Gaps in existing bicycle or pedestrian facilities



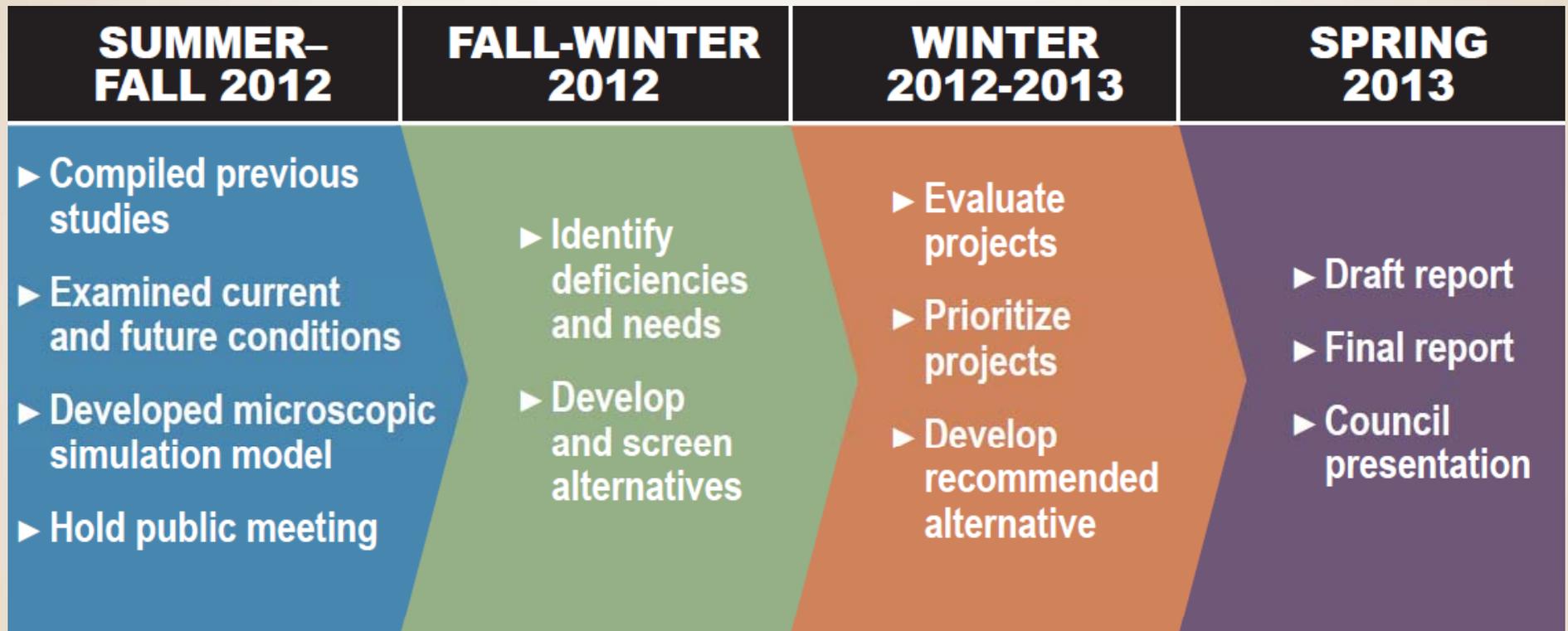
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# Next steps



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# How to comment



Submit a comment form



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*Comments should be submitted by December 19, 2012*



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