

Programming of Projects: MAG Federal Congestion Mitigation and Air Quality (CMAQ) Funding

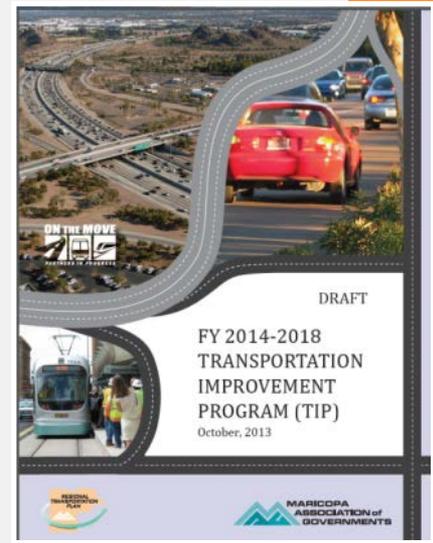
Paving of Un-Paved Dirt Road Projects,
Street Sweepers: FY 2014-18
Transportation Improvement Program

Transportation Review Committee
January 30, 2014- Agenda Item # 7

NEW FY 2014-18 TIP,

with the 2035 RTP, 2014 AQCA, has been submitted to ADOT, FHWA, FTA, and EPA for review and approval.

- The TIP, Plan and AQCA are expected to be approved by 3-3-2014.
- In the interim, we are requesting amendments and/or modifications to both the FY 2011-15 TIP and the FY 20014-18 TIP, in case the federal review is held up.



CMAQ FUNDING

- **Flexible funding** for transportation projects & programs to help meet the requirements of the Clean Air Act.
- **Reduce congestion** and **improve air quality** for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).
- **FHWA CMAQ Program - MAG Funds:** RTP-FP, ALCP & ITS, Transit, Bike/Ped, AQ (Paving, SS, Rideshare, etc.)



MAP-21 AUTHORIZES NEW ALLOCATION: PM-2.5

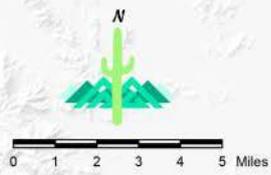
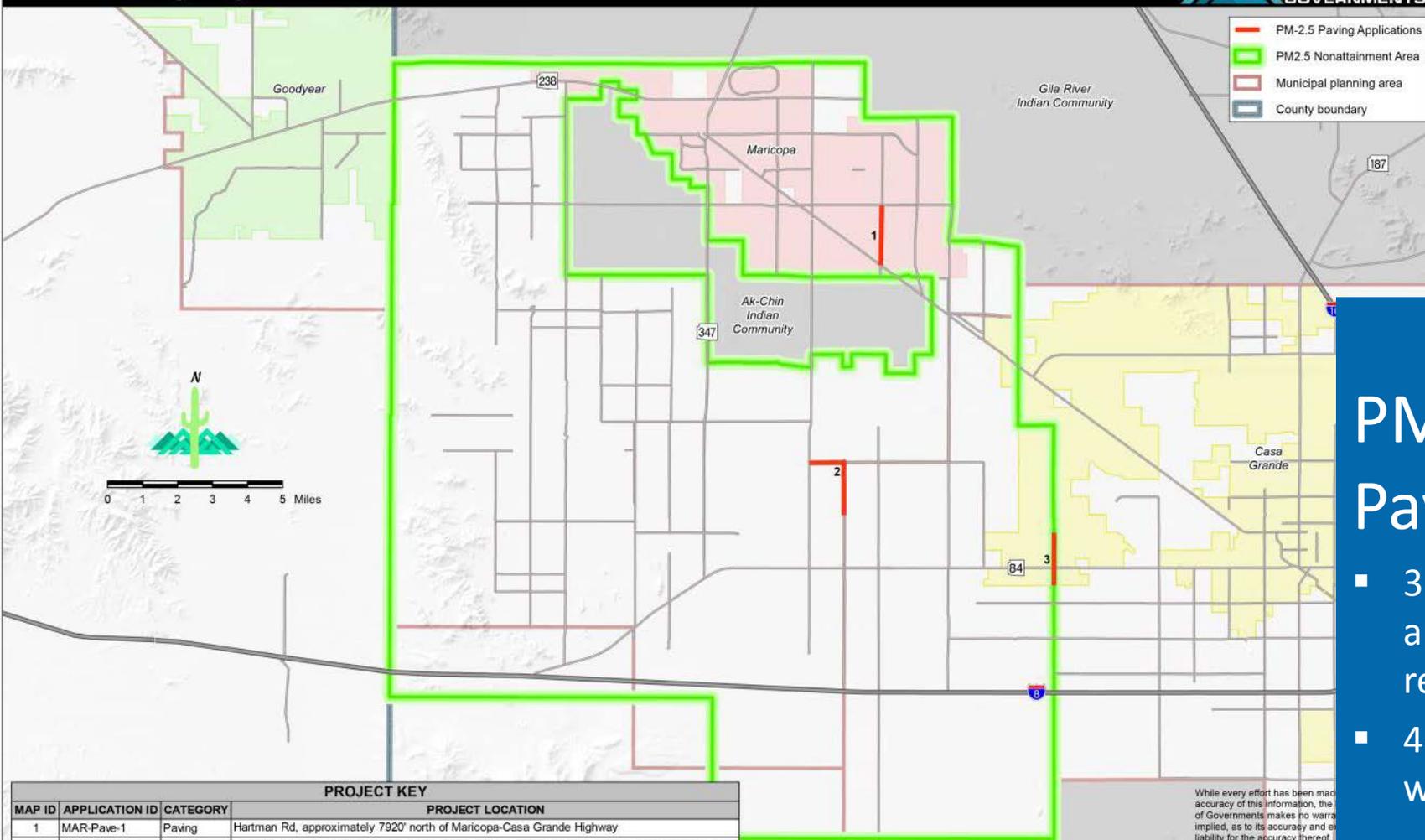
- Sets a priority to address
 - FHWA will have forthcoming performance measures
 - Requires (continues) reporting
 - Requires biennially updates on progress from previous plan
 - Cost Effectiveness
- ADOT receives ≈ \$ 1.2 million and the Sub Allocation to MAG region is estimated at \$ 672,136 annually.**

5 Years of Funding Used for Projects



PM-2.5 Pave UnPaved Dirt Roads

- \$ 3,360,860 total (FY 2013, 14, 15, 16, 17)
- FY 2013 and 2014 Not programmed previously by CAG or ADOT.
- Call for Projects Announced: October 23, 2013.
- Deadline: November 22, 2013
- Three Complete applications were received.
- Four CMAQ funded work phases were requested.



- PM-2.5 Paving Applications
- PM2.5 Nonattainment Area
- Municipal planning area
- County boundary

PM 2.5 Paving

- 3 applications received
- 4 workphases

PROJECT KEY

MAP ID	APPLICATION ID	CATEGORY	PROJECT LOCATION
1	MAR-Pave-1	Paving	Hartman Rd, approximately 7920' north of Maricopa-Casa Grande Highway
2	PNL-Pave-1	Paving	Barnes Rd from White & Parker Rd to Fuqua Rd and Fuqua Rd from Barnes Rd to Leeland Rd
3	PNL-Pave-2	Paving	Midway Rd from Clayton Rd to Casa Grande city limit

While every effort has been made to ensure the accuracy of this information, the Association of Governments makes no warranty, expressed or implied, as to its accuracy and assumes no liability for the accuracy thereof.
Date: December 2013

Estimated Programming Costs for PM 2.5 Area Paving Projects

CMAQ PM2.5 Paving COSTS					
Work Phases	2014	2015	2016	2017	Grand Total
11. Design	264,040	-			264,040
12. Right of way and Utilities		-			-
13. Construction	-	529,522	1,360,119	1,178,750	3,068,391
Grand Total	264,040	529,522	1,360,119	1,178,750	3,332,431

Scenario A: Recommended Programming for PM-2.5 Paving of Unpaved Dirt Roads

Estimates	2014*	2015	2016	2017		2018
Carry forward	672,136	1,080,232	1,222,846	534,863		28,249
Revenues/Appportionments	672,136	672,136	672,136	672,136		672,136
Costs	264,040	529,522	1,360,119	1,178,750		
Balance	1,080,232	1,222,846	534,863	28,249	-	700,385

* FY 2014 includes Carry Forward from FY 2013, All future years are estimated and subject to change.

Information Update:

List of Proposed PM-10 Certified Street Sweeper Projects for FY 2014 CMAQ Funding

\$1,230,599 in CMAQ Funding is Available for Sweeper Projects



										Supplemental Information			
Agency	Federal Cost	Local Cost	Total Cost*	Daily Emission Reduction (Kilograms/day)	Cost-Effectiveness (CMAQ dollar cost per annual metric ton reduced)	The requested certified street sweeper will:				Have local resources been committed for additional staff or equipment to support the sweeper project?		Please indicate in what geographical area(s) the requested certified street sweeper will operate	Number of certified street sweepers owned and operated by your agency. ++
						Replace non-certified sweeper	Expand	Increase Frequency	Replace older certified sweeper	Yes	No		
Tempe +	\$224,519	\$13,571	\$238,090	150	\$565				✓		✓	Ray Rd. to Continental Dr.; Evergreen Dr. to Priest Dr.	6
Phoenix #2 +	\$224,193	\$13,551	\$237,744	124	\$708				✓	✓		Area within city bounded by 111 th Ave. to 1 st Ave., W. Bethany Home Rd. to W. Pecos Rd.	34
El Mirage +	\$166,840	\$10,085	\$176,925	74	\$882				✓		✓	Northern Ave. north to Thompson Ranch Rd.; Dysart Rd. to the Agua Fria river bed	2
Queen Creek +	\$178,472	\$10,788	\$189,260	70	\$998				✓		✓	Major and minor arterial routes townwide from Power Rd. to Meridian Rd., and from Germann Rd. to Empire Rd.	4
Surprise #2 +	\$191,190	\$11,557	\$202,747	69	\$1,082				✓	✓		Citywide	8
Surprise #1 +	\$191,190	\$11,557	\$202,747	69	\$1,082				✓	✓		Citywide	8
Phoenix #1 +	\$224,193	\$13,551	\$237,744	62	\$1,407				✓		✓	Area within city bounded by 111 th Ave. to 1 st Ave., W. Bethany Home Rd. to W. Pecos Rd.	34
Subtotal	\$1,400,597												
Amount Available	\$1,230,599												
Balance	\$-169,998												
Goodyear	\$229,717	\$13,885	\$243,602	43	\$2,080				✓	✓		Dysart Rd. to Perryville Rd. from Camelback Rd. to Riggs Rd.	4
Pinal County +	\$225,784	\$13,648	\$239,432	20	\$4,381	✓					✓	Thompson Rd. to Quail Run Ln.; Bella Vista Rd. to Germann Rd.	3
Florence	\$177,496	\$10,729	\$188,225	7	\$10,270	✓	✓	✓			✓	Will operate in an area bounded by Arizona Farms Rd., East-West Hunt Hwy., Felix Rd., and North-South Hunt Hwy.	1
Mesa #1 +	\$241,720	\$14,611	\$256,331	9	\$10,967				✓		✓	Price Rd. to Signal Butte Rd. and Baseline Rd. to Thomas Rd.	7
Mesa #2 +	\$241,720	\$14,611	\$256,331	9	\$10,967				✓		✓	Price Rd. to Signal Butte Rd. and Baseline Rd. to Thomas Rd.	7
Litchfield Park	\$225,516	\$13,631	\$239,147	7	\$12,783		✓	✓		✓		Entire city	1
Total	\$2,742,550												

Total cost for the CMAQ eligible portion of the project, excludes ineligible equipment.

+ Proposed sweeper projects for Tempe, Phoenix #2, El Mirage, Queen Creek, Surprise #2, Surprise #1, Phoenix #1, Pinal County, Mesa #1, and Mesa #2 indicate sweeping within four miles of a PM-10 monitor.

++ The total number of certified street sweepers owned and operated by the agency, regardless of funding source.

Action Requested:

- Recommend approval of the list of FY 2014-17 PM-2.5 Congestion Mitigation and Air Quality funded projects to be added to the FY 2014-2018 MAG Transportation Improvement Program, 2035 RTP, and to add the FY 2011-2015 MAG Transportation Improvement Program as appropriate.

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