



Clean Fuels Program Advisory Group Meeting



February 6, 2013



PEV Readiness Planning

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Technology Advancement Office

Cleaning the Air That We Breathe...



Governor's Executive Order



- Achieve by 2020
 - Infrastructure to support 1 million ZEVs
 - ZEVs to be cost-competitive, accessible to mainstream and used for public transport *and freight*
- Achieve by 2025, more than 1.5 million ZEVs on the road
- CA state LDV fleet purchases will be 10% ZEVs by 2015 and 25% by 2020

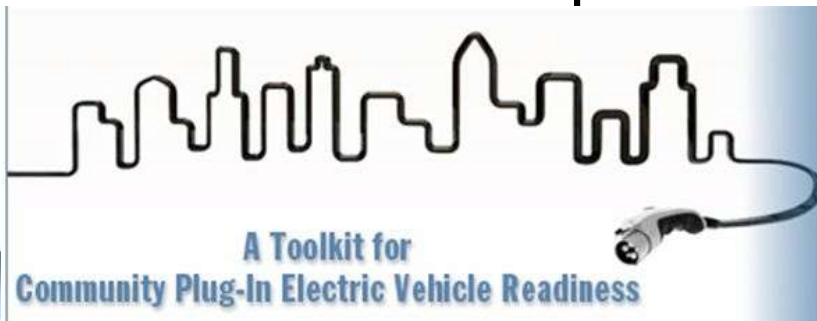
AQMD PEV Readiness Planning

- Planning
 - DOE Clean Cities award
\$1M statewide for six regions
 - CEC award
\$200,000 for nine regions



DOE PEV Planning Grant

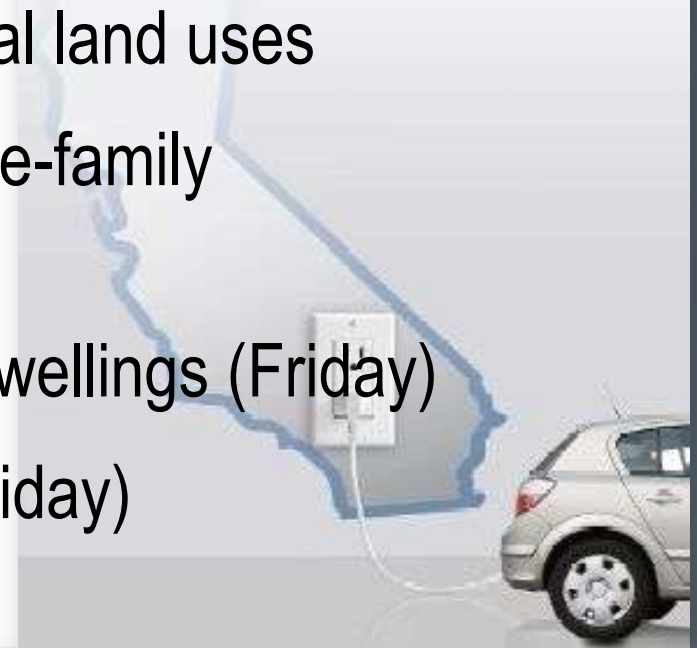
- \$1M grant from DOE Clean Cities Program, AQMD as lead agency
- Completed six regional plans (Bay Area, Central Coast, Sacramento, San Diego, San Joaquin, South Coast)
- Statewide guidelines document and toolkit
- Conducted PEV readiness workshops in six regions



PEV Readiness Overview

1. Introduction: the PEV value proposition
2. The PEV ecosystem
3. PEVs and infrastructure basics
4. PEV readiness opportunities for local land uses
5. Demand-driven PEV planning, single-family residential charging
6. Planning for charging in multi-unit dwellings (Friday)
7. Planning for workplace charging (Friday)

**Southern California
Plug-in Electric Vehicle
Readiness Plan**



PEV Readiness Overview

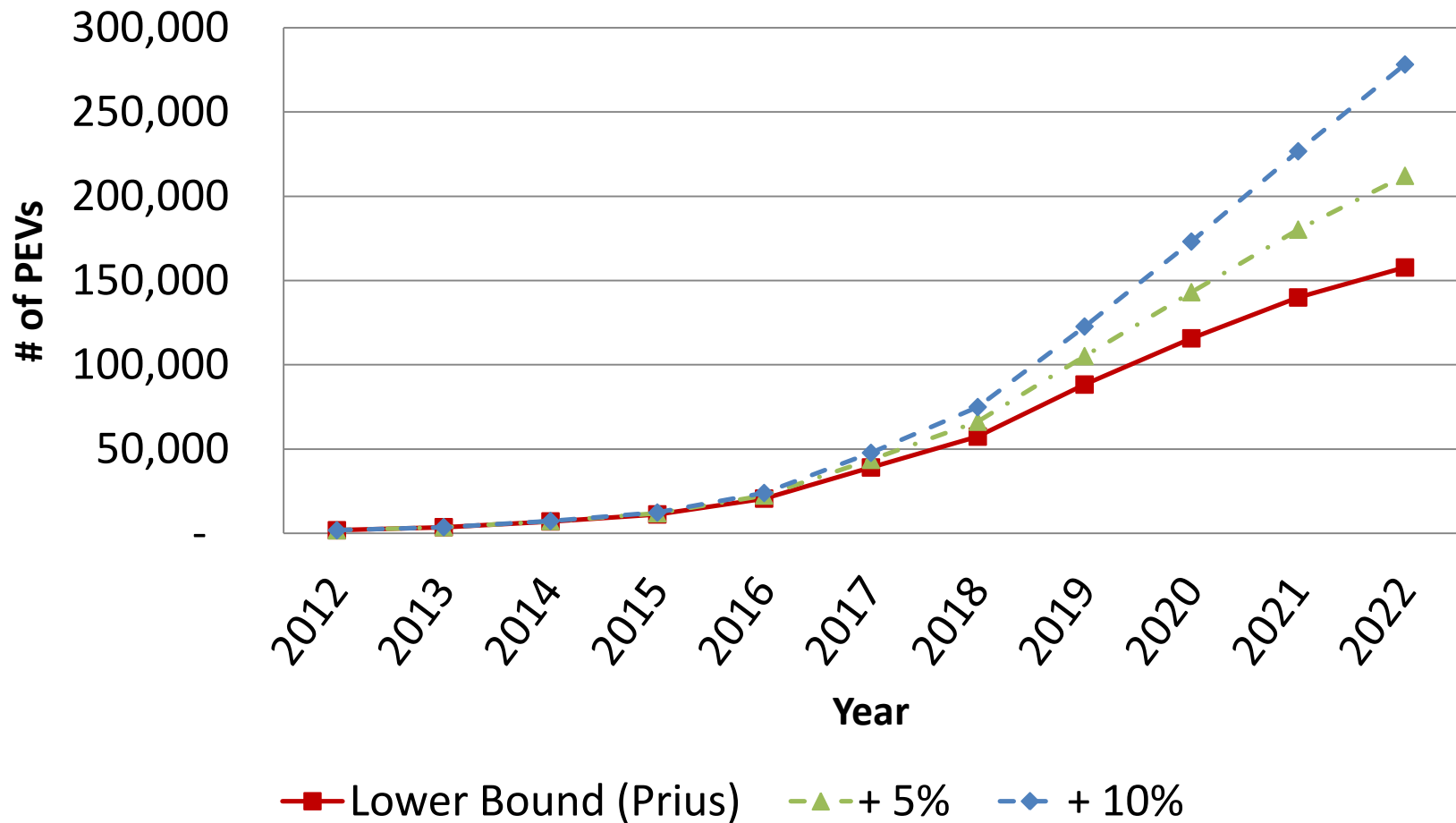
8. Planning for commercial retail charging
9. Pricing infrastructure
10. Zoning
11. Building codes
12. Permitting and inspections
13. Parking policies
14. Utility policies
15. Outreach

PEV Growth in Subregions

Council of Governments	Number of PEVs						
	2012*	2017 (5 year estimate)			2022 (10 year estimate)		
		Lower Bound (Prius)	+ 5%	+ 10%	Lower Bound (Prius)	+ 5%	+ 10%
Orange County Council of Governments	2263	48,333	53,923	59,062	194,971	262,206	343,846
San Bernardino Associated Governments	390	8,330	9,293	10,179	33,601	45,188	59,258
San Gabriel Valley Council of Governments	753	16,082	17,942	19,652	64,875	87,248	114,413
San Fernando Valley Council of Governments	1002	21,401	23,876	26,151	86,328	116,098	152,246
South Bay Cities Council of Governments	747	15,954	17,799	19,496	64,359	86,552	113,501
Ventura Council of Governments	405	8,650	9,650	10,570	34,893	46,926	61,537
Western Riverside Council of Governments	398	8,500	9,484	10,387	34,290	46,115	60,473
Westside Cities Council of Governments	327	6,984	7,792	8,534	28,173	37,888	49,685

*Source: R.L. Polk & Co.

City of Los Angeles: Predicted PEV Sales



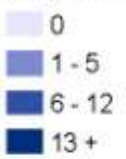
COG Level Maps for Westside Cities COG

PEV Registrations

- 0
- 1 - 5
- 6 - 12
- 13 +

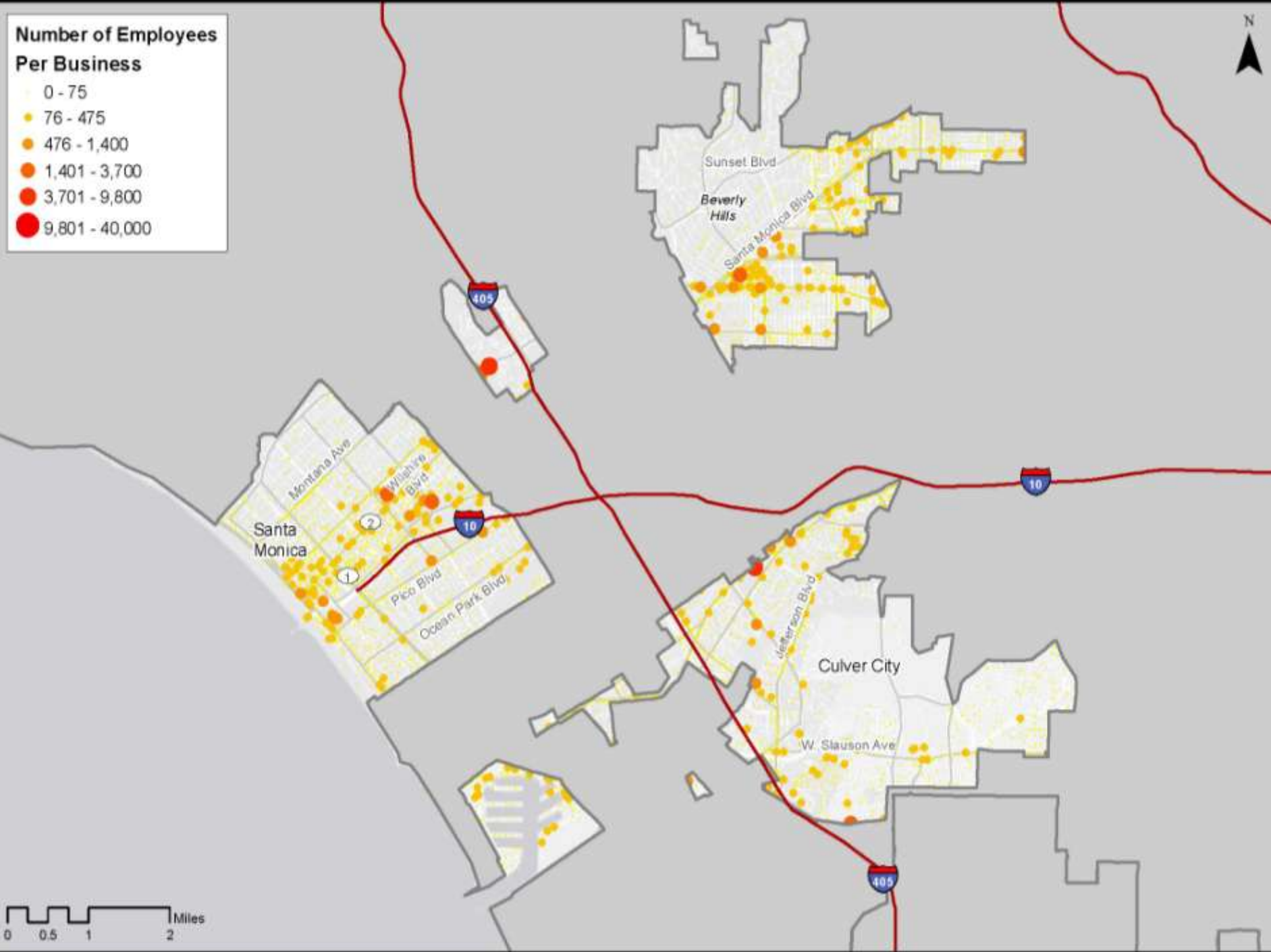


PEV AM Peak Destinations



**Number of Employees
Per Business**

- 0 - 75
- 76 - 475
- 476 - 1,400
- 1,401 - 3,700
- 3,701 - 9,800
- 9,801 - 40,000



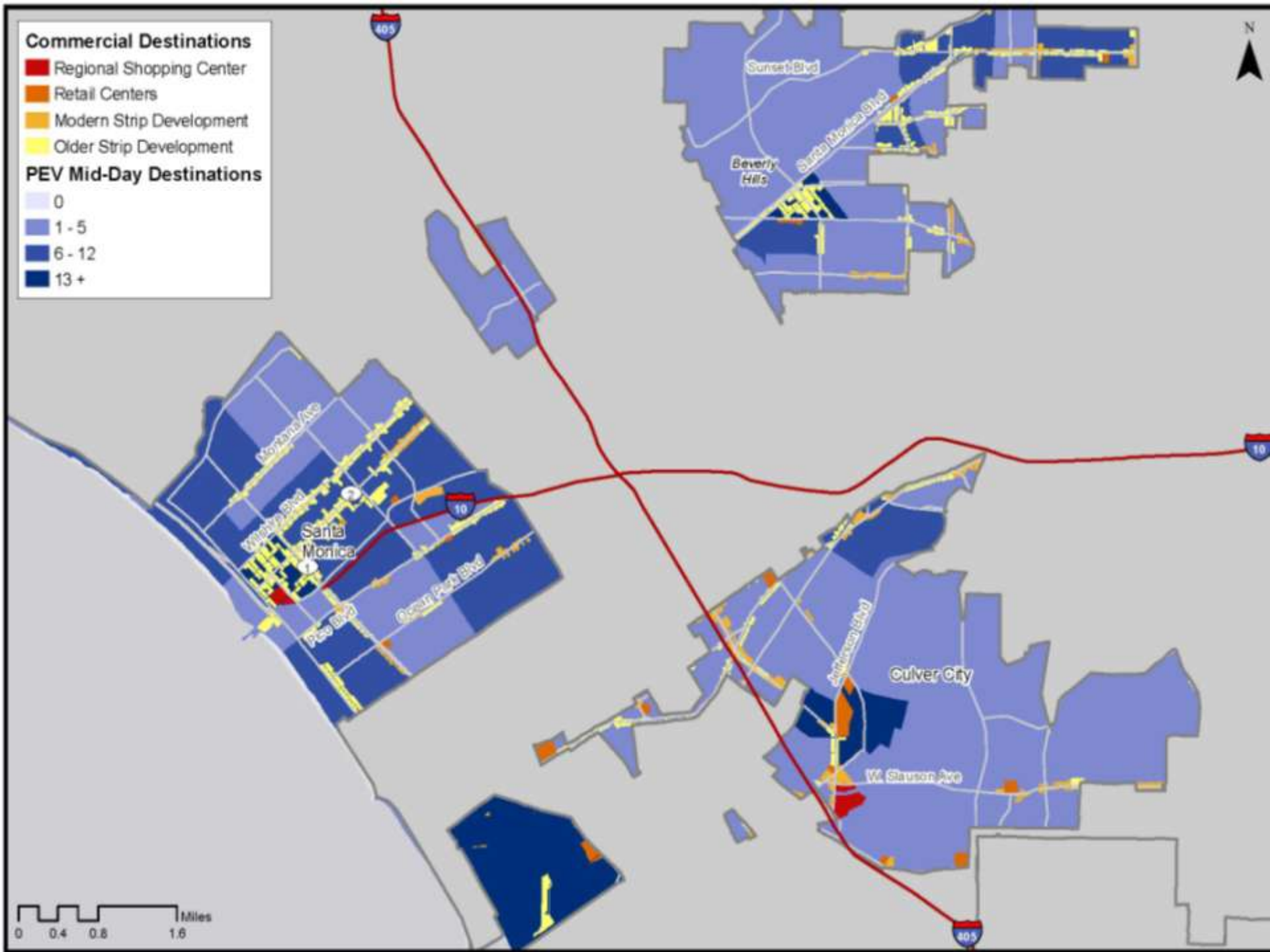
0 0.5 1 2 Miles

Commercial Destinations

- Regional Shopping Center
- Retail Centers
- Modern Strip Development
- Older Strip Development

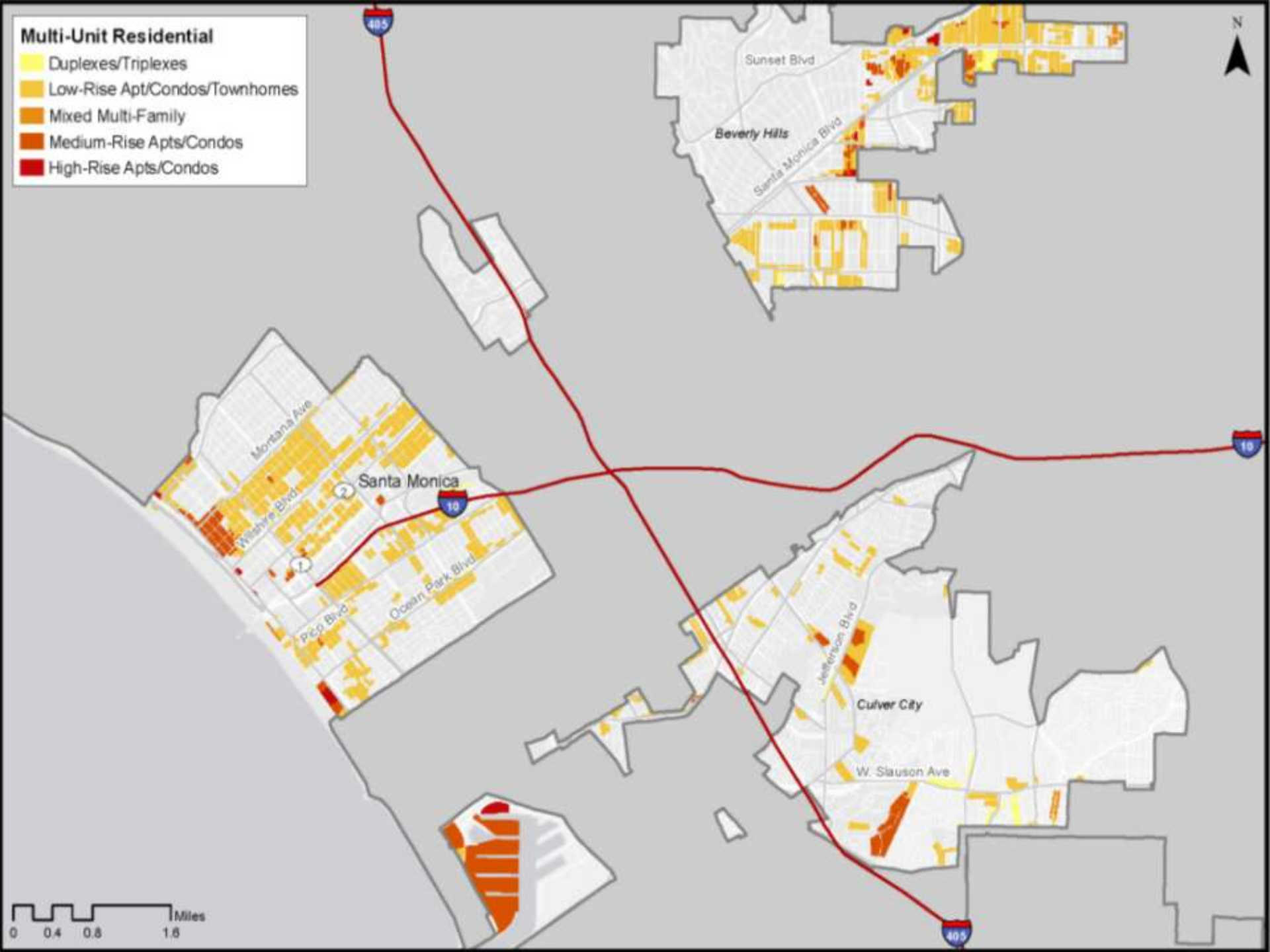
PEV Mid-Day Destinations

- 0
- 1 - 5
- 6 - 12
- 13 +



Multi-Unit Residential

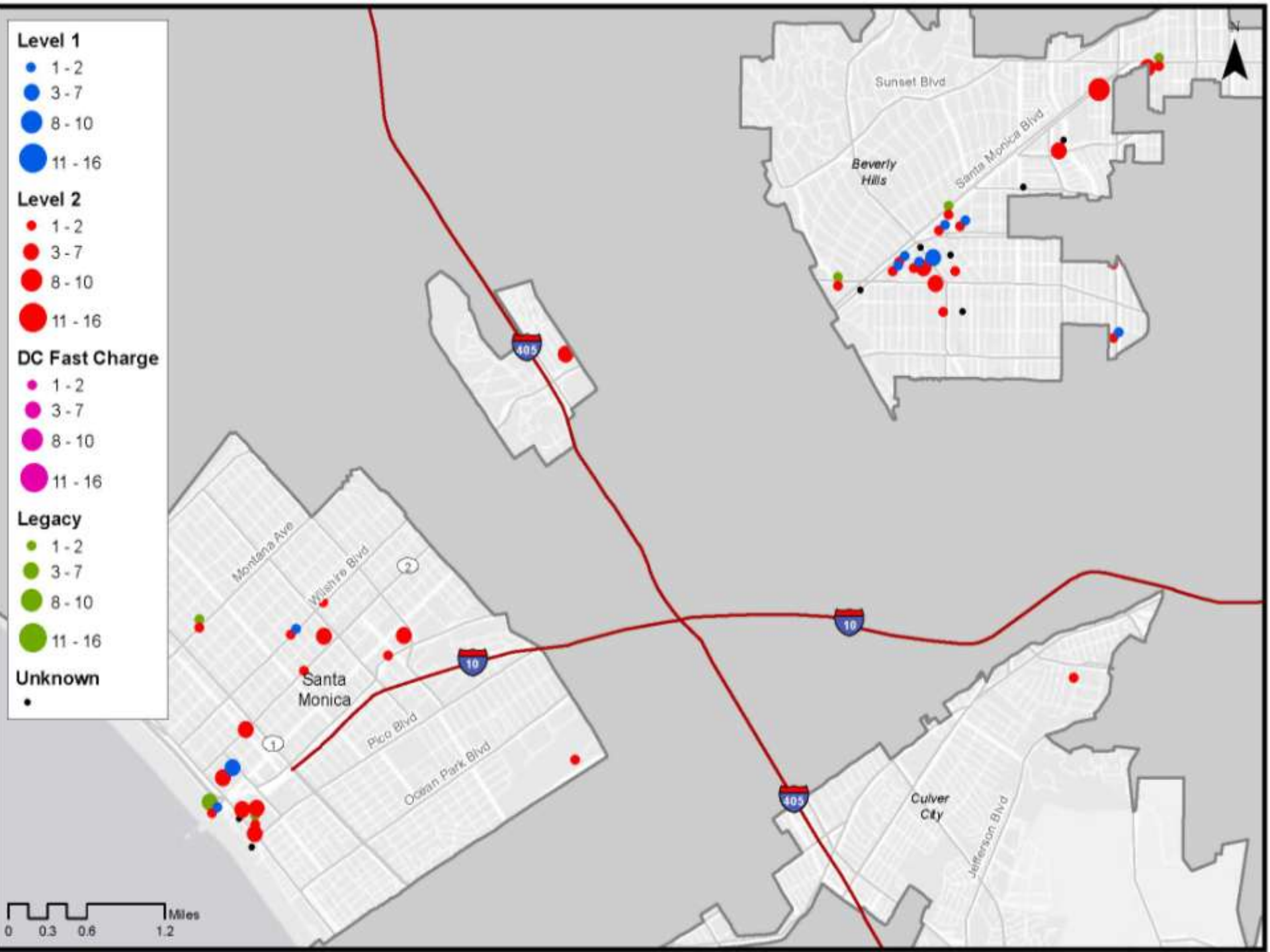
- Duplexes/Triplexes
- Low-Rise Apt/Condos/Townhomes
- Mixed Multi-Family
- Medium-Rise Apts/Condos
- High-Rise Apts/Condos



Parking

- Attended Pay Public Parking
- Non-Attended Public Parking
- Park and Ride





CEC PEV Planning Grant

- Nine agencies received regional funding from CEC for PEV infrastructure planning, SCAG and AQMD co-lead agencies
- Fund specialized studies
 - Sub-regional studies from SBCCOG, WRCOG
 - CEC grants completed Oct 2013 – June 2014



Future Planning Efforts

- CEC has engaged NREL to draft statewide plan by Sept 2013



- CEC held statewide planning meeting to solicit input from stakeholders



- DOE will hold best practices session at DOE merit review or EDTA 2013



- California received DOE Clean Cities alt fuels grant for \$1M; BAAQMD is lead agency



Thank You



South Coast
Air Quality Management District

Cleaning the air that we breathe...

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