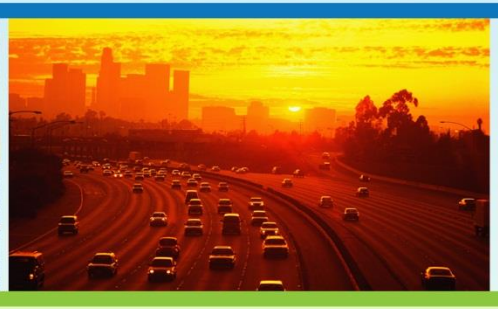
SCAG Plug-in Electric Vehicle (PEV) Readiness Program

Wednesday, June, 10 2014

Marco Anderson
Sr. Regional Planner



SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS

SCAG Clean Cities Coalition

The SCAG (Southern California) Clean Cities Coalition includes parts of Los Angeles County, Orange, San Bernardino, Ventura and Imperial

The Coalition was originally formed (designated) in 1996

Coalition Structure:

- Clean Cities is SCAG program component (since 2010)
- The Coalition reports to SCAG's Energy & Environment Policy Committee & RTTAC
- 200 + stakeholders/ members

- Coalition funded through US Dept of Energy (DOE) program contract and available California Energy Commission (CEC) Grant Funding

Plug-in Electric Vehicle (PEV) Plan 2010-2012

SCAG Grant Funding
- U.S. Department of Energy
- California Energy Commission

So Cal PEV Coordinating Council
- SCE and public utilities
- Local Governments & Partners
- Private Sector Interests

Plug-in Electric Readiness Plan & Atlas
- Local policy guidance for EV Ecosystem
- Prime location for charging installation site

Prius PEV

SMART EV

AeroVironment Charger

Plug-in Electric Vehicle (PEV) Plan

Battery Electric

Tesla S

Nissan Leaf

Plug-in Hybrid (battery + gas)

Chevy Volt– 40 mi batt.

Ford Fusion Energi – 40 mi batt.

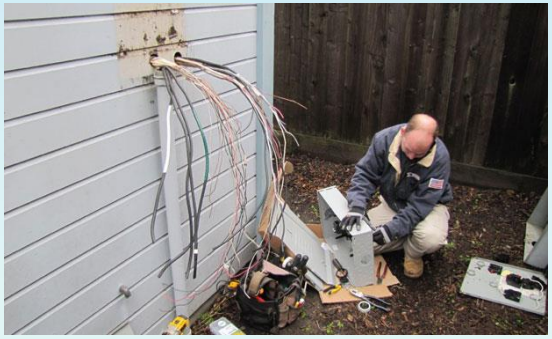
Plug-in Electric Vehicle (PEV) Plan Regional Recommendations

Local Agency Focus

- Workplace Charging
  - Employer Outreach
  - Pre-Connection Commitments
- Multi-Family Buildings
  - Demonstration Projects
- Retail Fast Charging
  - Parking Issues

Plug-in Electric Vehicle (PEV) Plan
Local Agency Recommendations

- General Outreach and Awareness
  - PEV Events, Ride-&-Drives,
- Consumer Friendly Installation Permits
  - Model Ordinances, Zoning Changes,
    Streamlined On-line Permits
- Targeted Outreach to Audiences
  - Employers, Building Owners, PEV Owners
- Direct Participation in Pilot Projects
  - Multi-Family Dwelling Unit Installation to understand policy issues



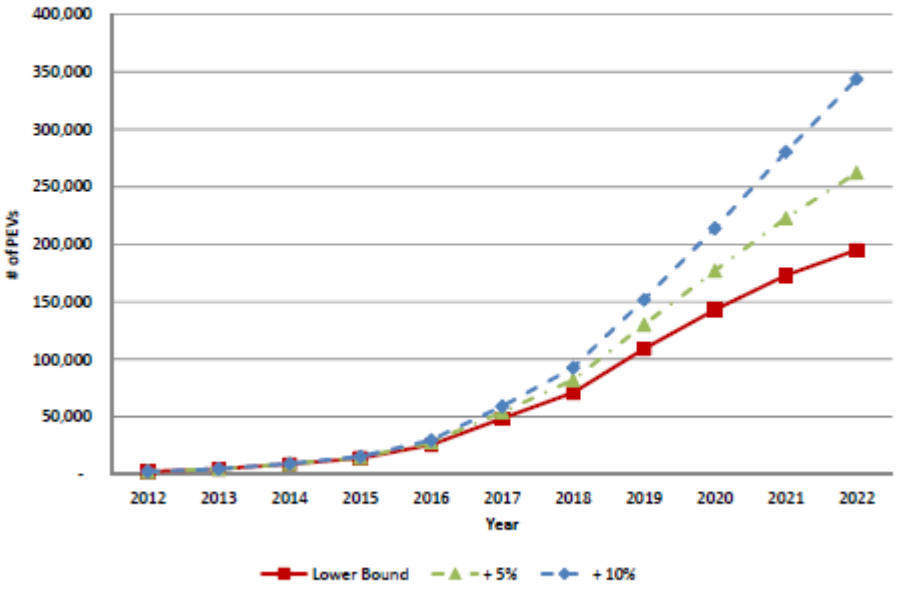
Growth in Plug-in EV Registrations, OCCOG region

ORANGE COUNTY COUNCIL OF GOVERNMENTS

UCLA Luskin School of Public Affairs
Luskin Center
FOR INNOVATION

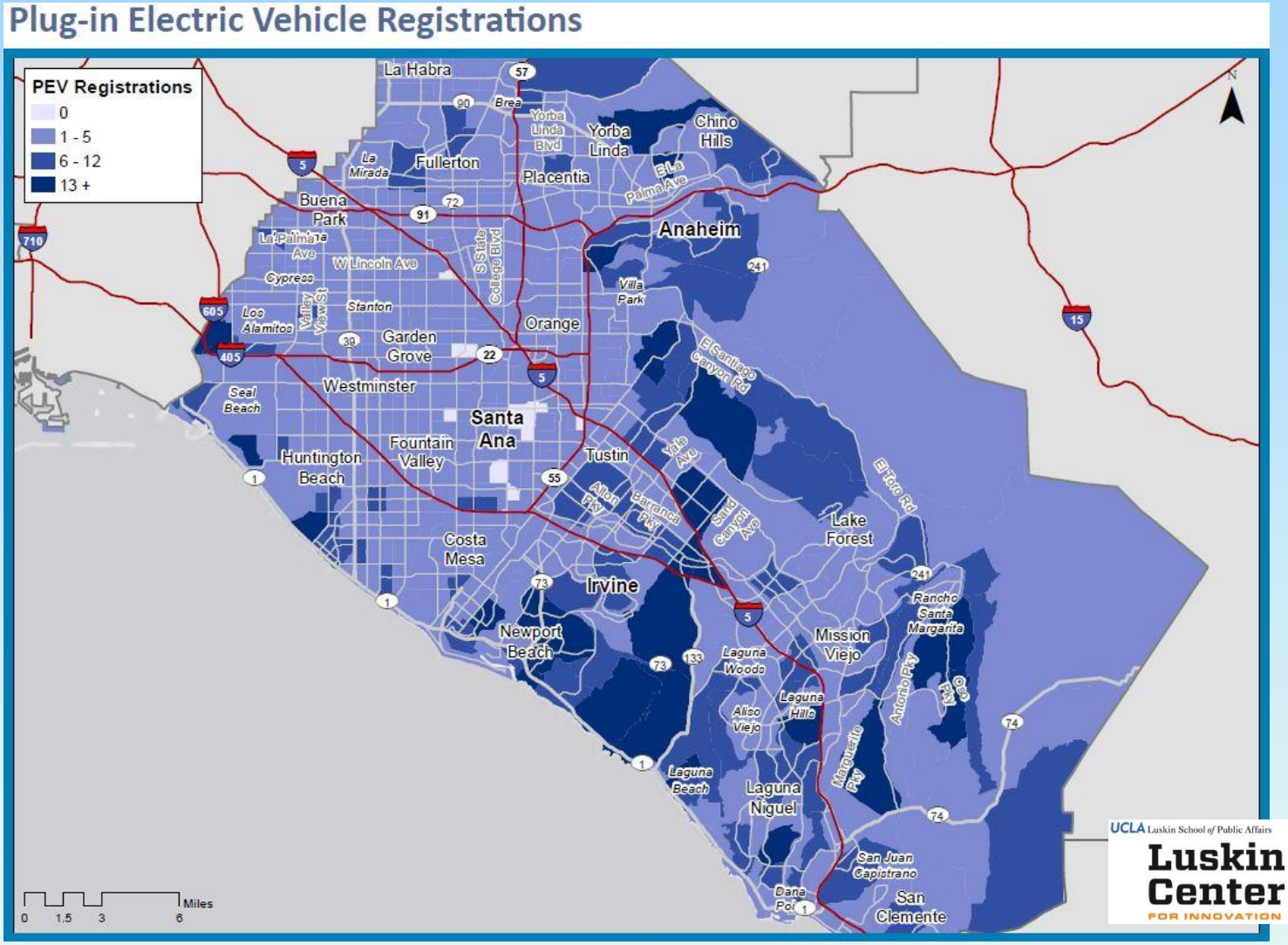
PEV Growth

Year	Cumulative PEV registrations*		
	Lower Bound	+ 5%	+ 10%
2012	2,263	2,263	2,263
2013	4,526	4,526	4,526
2014	8,741	8,967	9,052
2015	13,910	14,719	15,311
2016	25,516	27,735	29,616
2017	48,333	53,923	59,062
2018	70,963	81,866	92,622
2019	109,122	129,982	151,690
2020	143,026	176,866	213,988
2021	172,985	222,756	280,210
2022	194,971	262,206	343,846



** The +5% and +10% projections begin in 2014, when uncertainty becomes greater.*

PEV Registrations by TAZ
(Polk Registration Data)



PEV Registrations by TAZ
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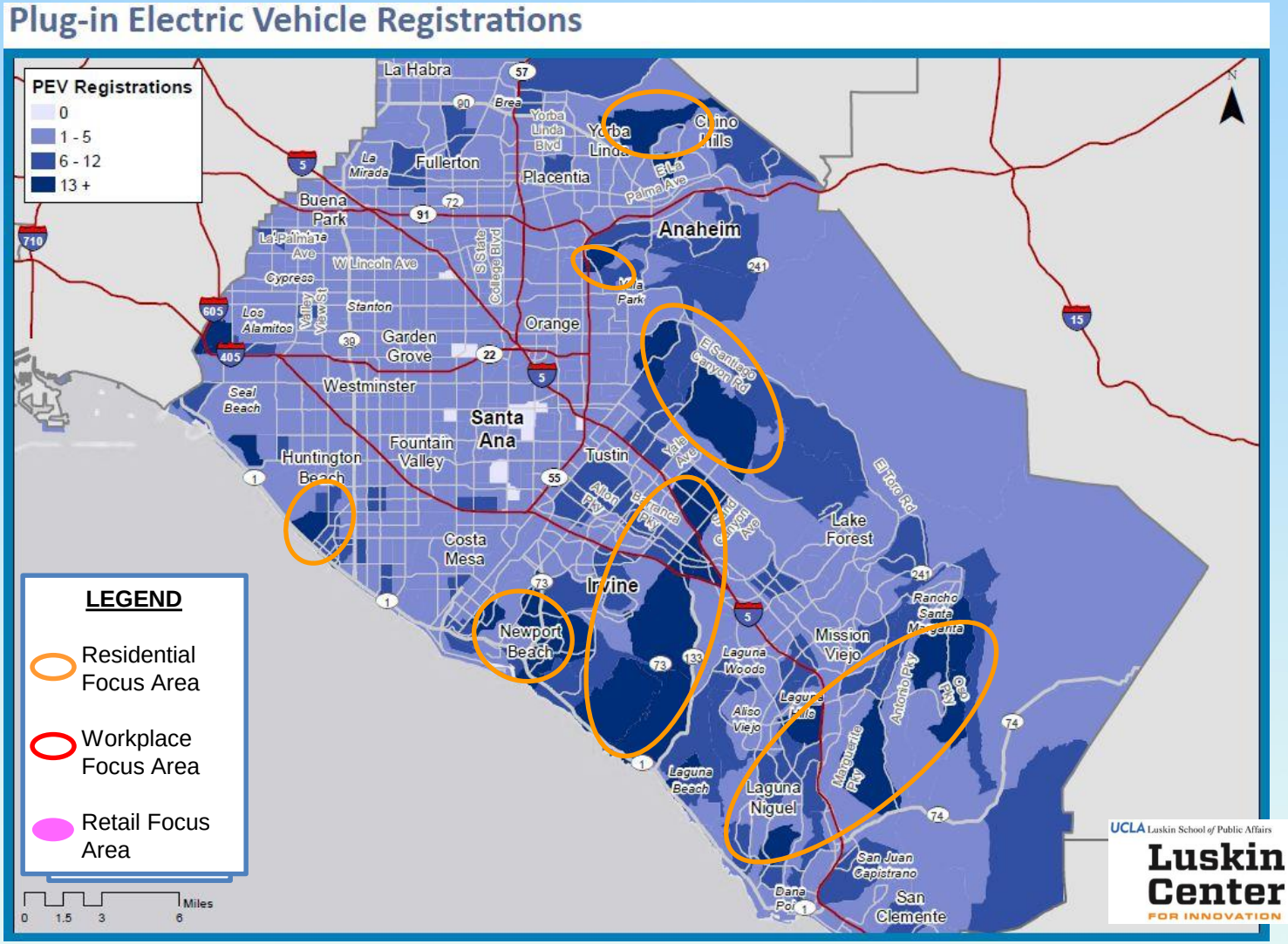
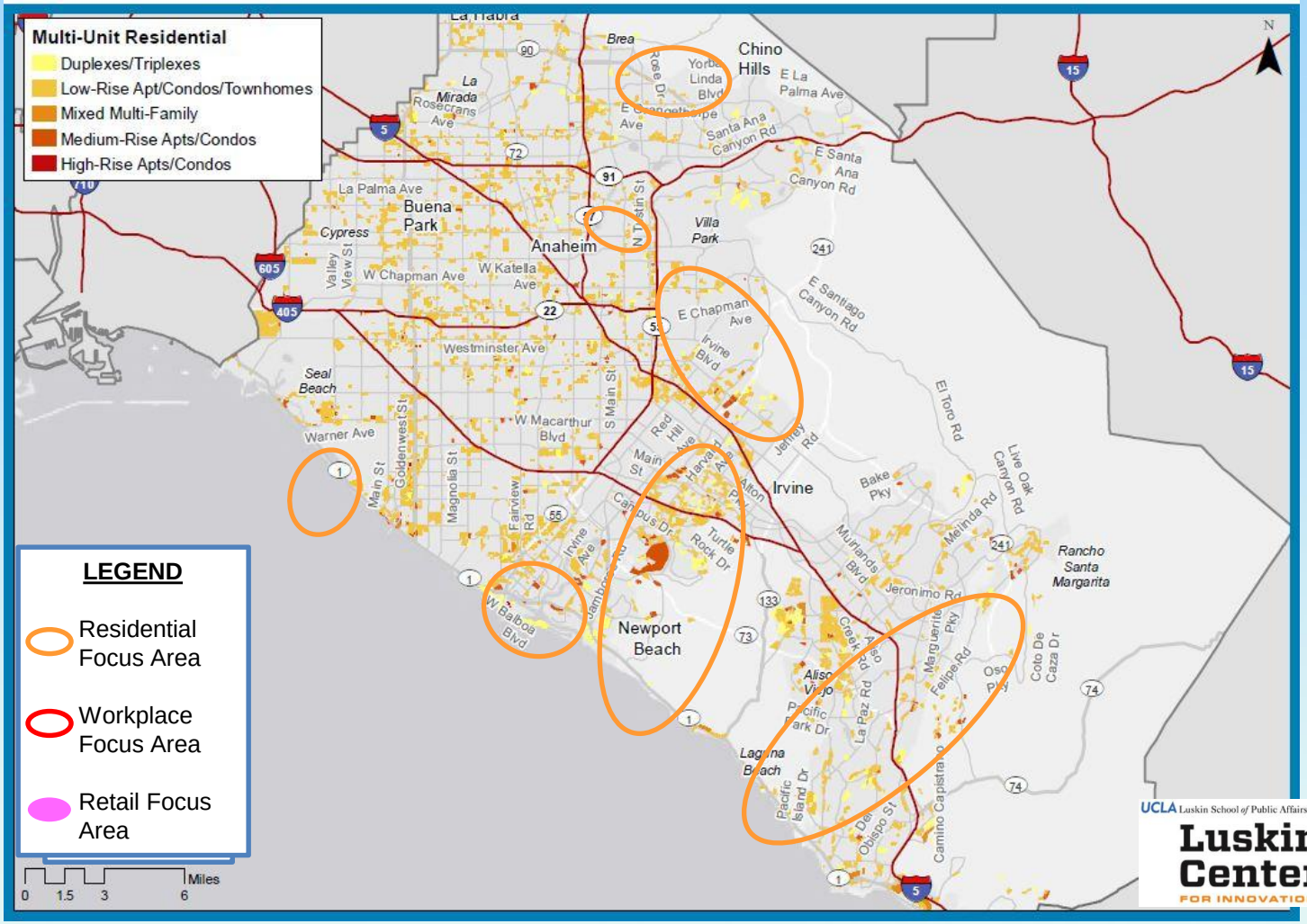
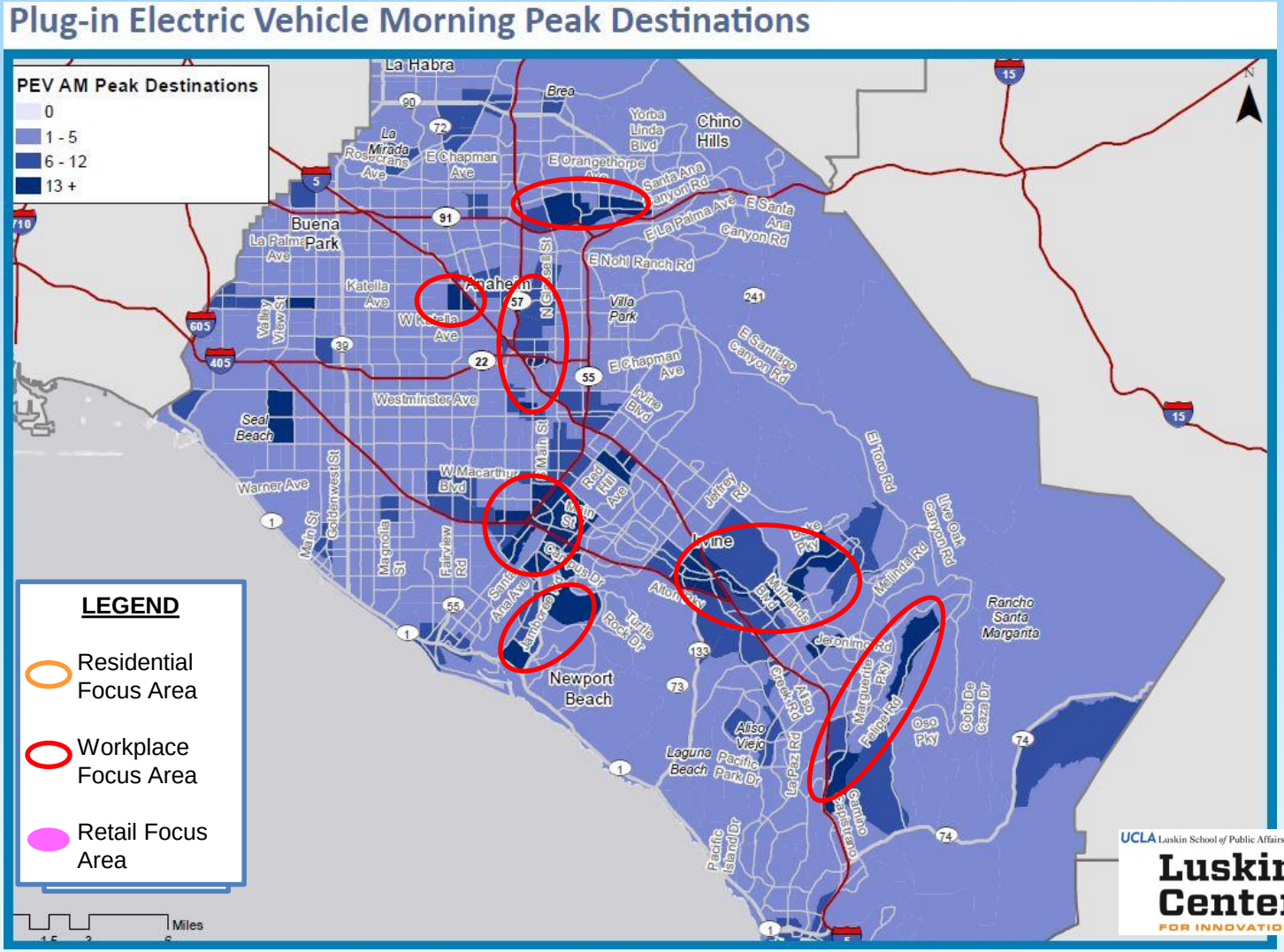


PEV Morning Peak Destinations
(SCAG Transportation Model)

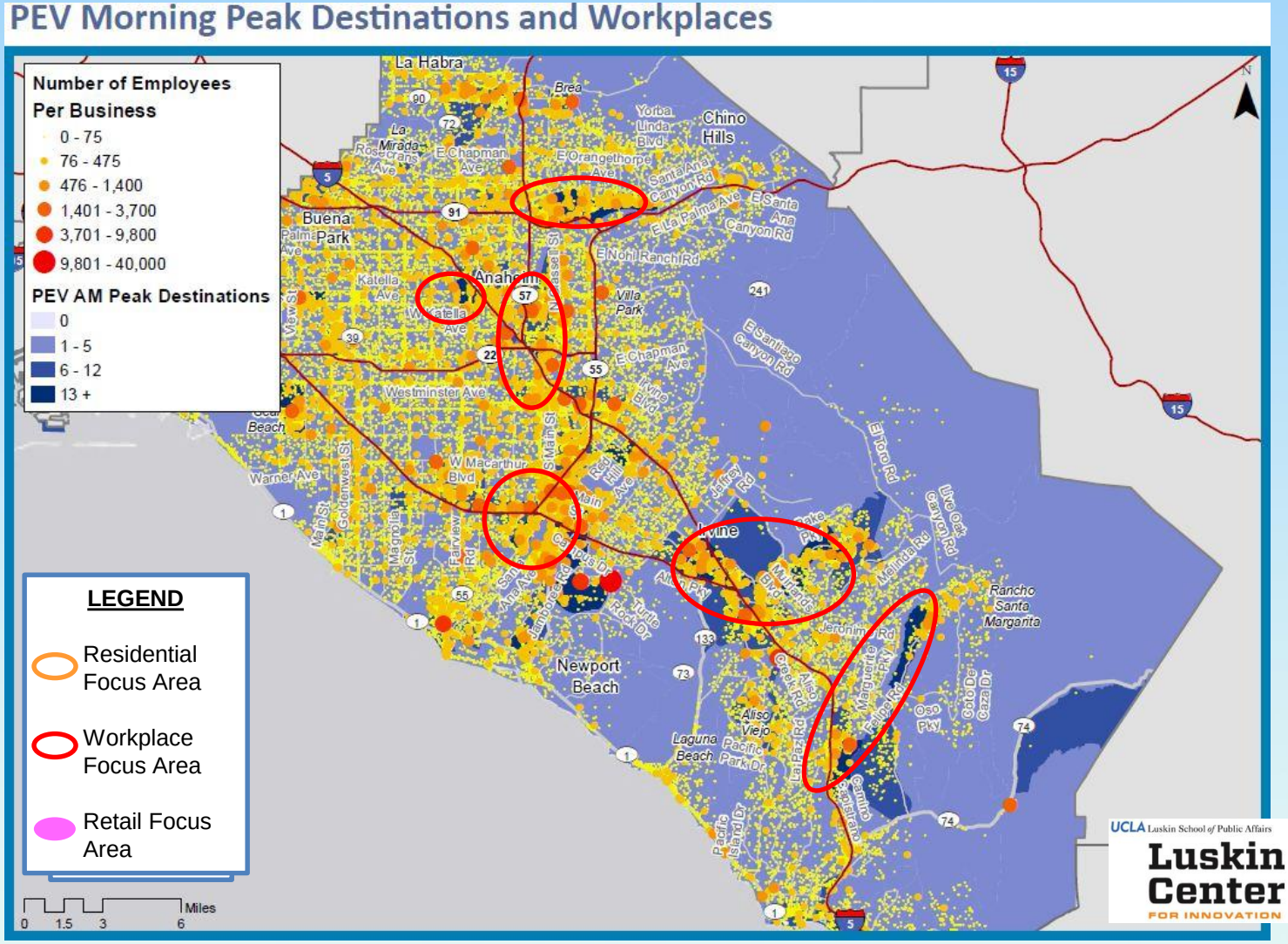
Multi-Unit Residential



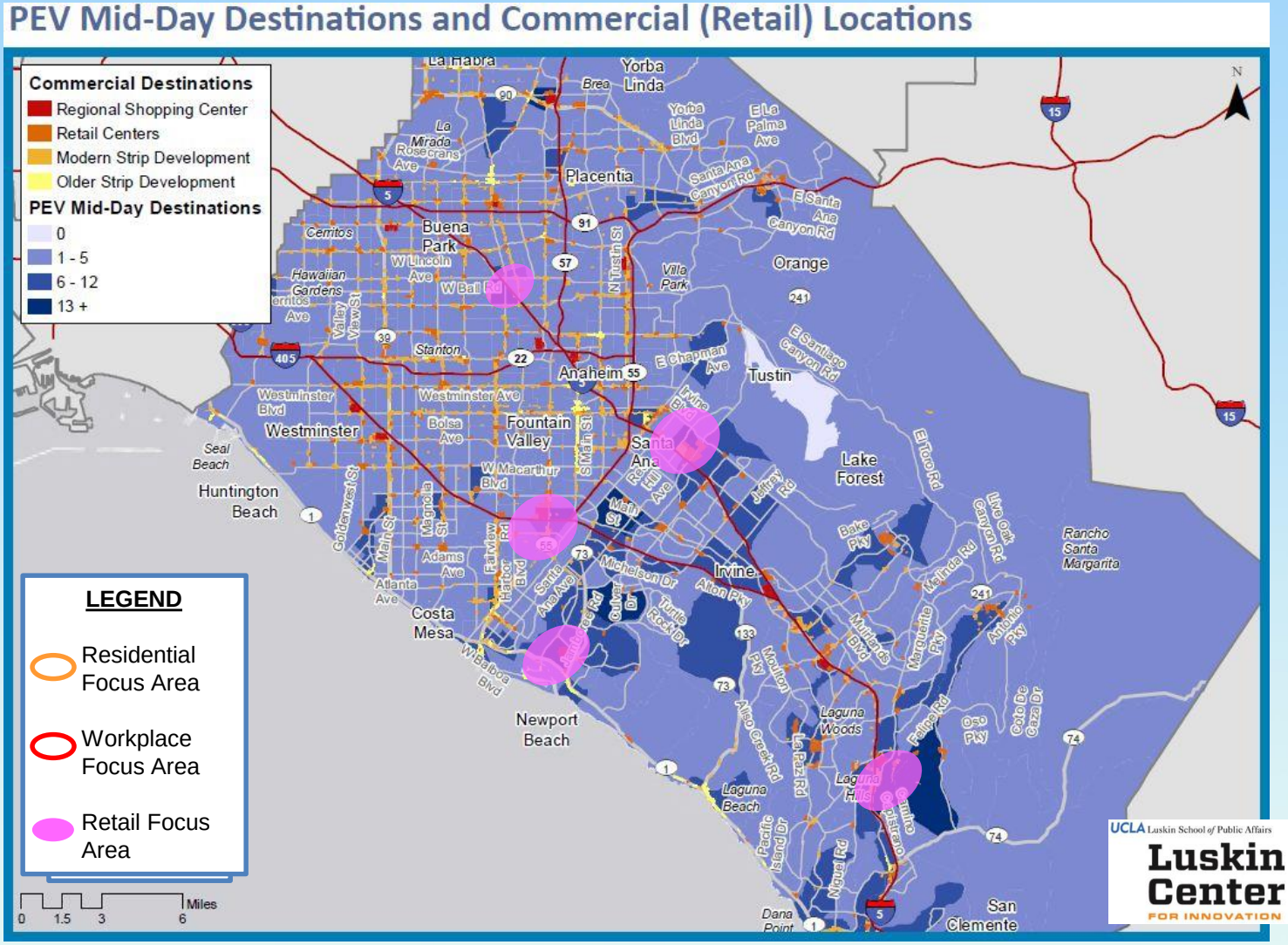
PEV Morning Peak Destinations by TAZ
(SCAG Transportation Model)



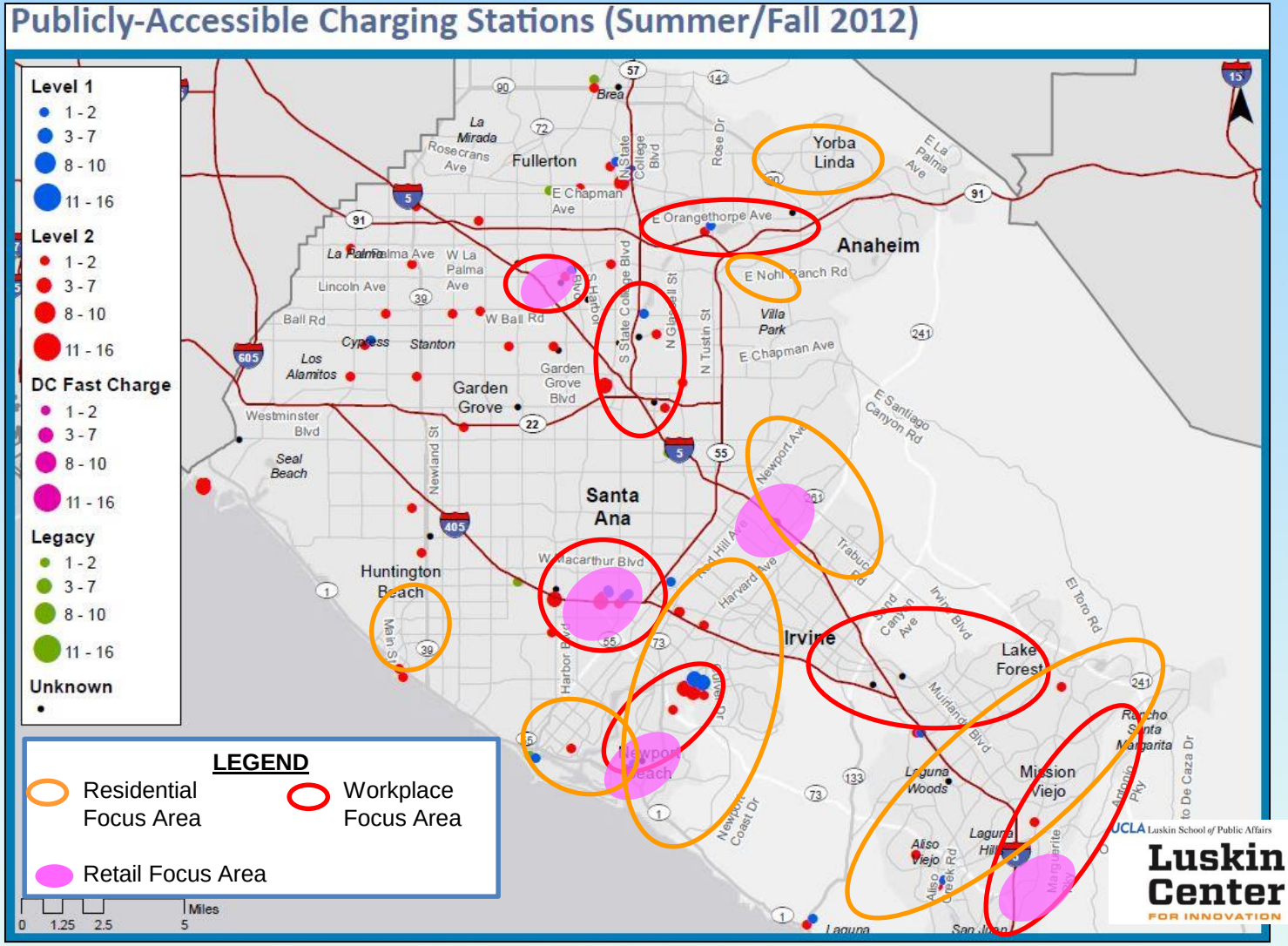
PEV Morning Peak Destinations, Employment, and Workplace Focus Areas



PEV Mid-Day Destinations, Retail Locations, and Retail Focus Areas



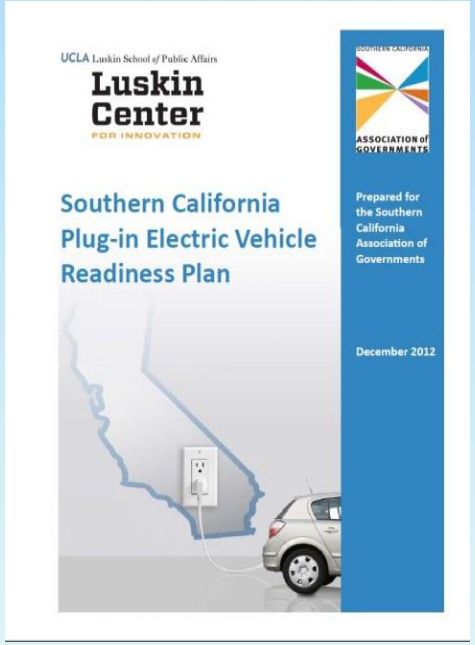
Publicly Accessible Charging Stations (Summer/Fall 2012)



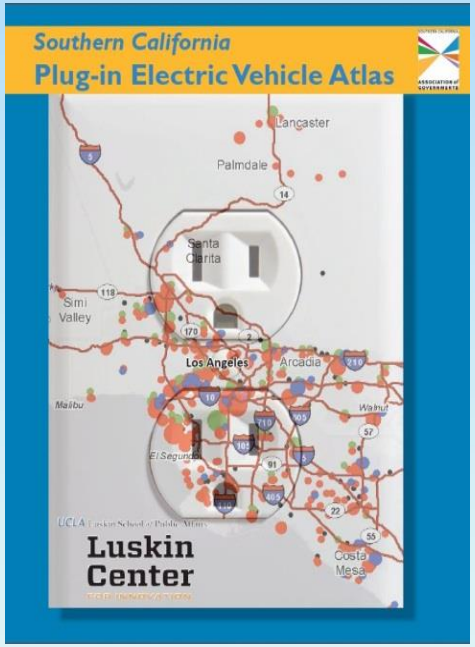
Plug-in Electric Vehicle (PEV) Plan Resources

SCAG Funded Products and Resources available:

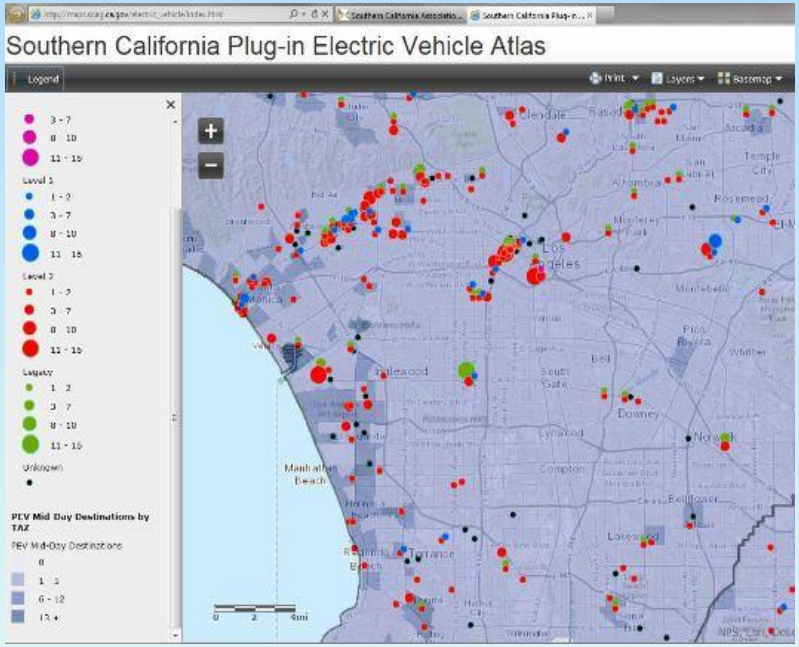
www.scag.ca.gov/programs/Pages/RegionalElectric.aspx



SCAG PEV Readiness Plan



SCAG PEV Readiness Atlas

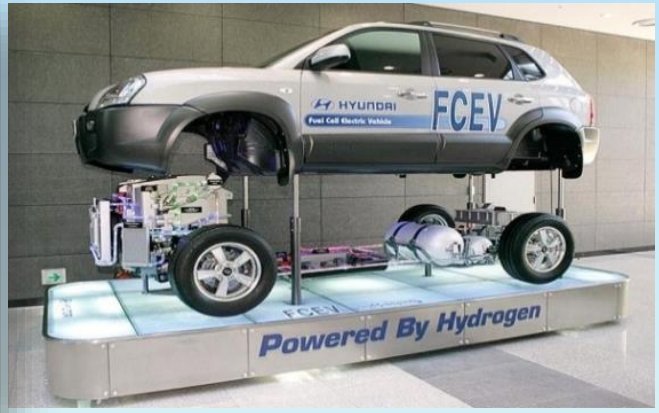


SCAG Interactive PEV Readiness Atlas

2016 RTP/SCS: Zero Emmissions Vehicles & Charging Infrastructure

Goals

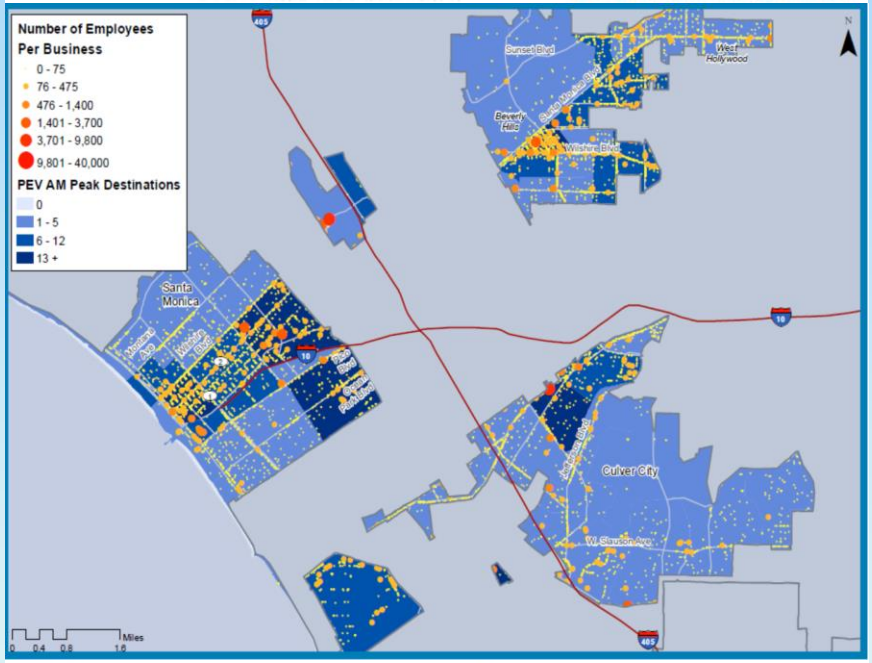
- Incentivize a substantial increase in Level 1 & 2 Charging stations by 2040
- Increase Electric Range of Hybrids
  Increase access to charging in Urban & Compact Areas



Next Steps

CEC PON 14-607 Implementing Readiness Plan in Multi-Family Housing

- Update 2012 PEV Atlas
- Conduct analysis and outreach in Westside Cities Council of Government (WCCOG) area:
  - Santa Monica, Culver City, Beverly Hills, West Hollywood, and West LA
  - 68% Multi-Family
  - Over 200,000 units



For more information:

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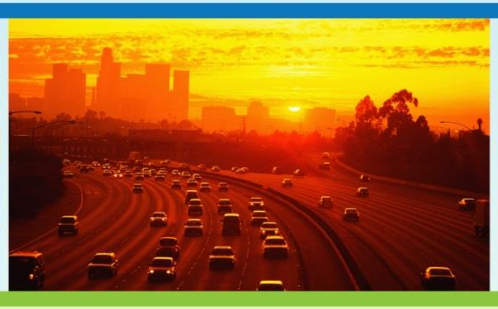

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