



# Drive Electric PA Coalition Meeting

Friday, March 27  
via Webex



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL  
PROTECTION



**pennsylvania**

DEPARTMENT OF TRANSPORTATION

# WELCOME

COLTON BROWN, DEP



# HOUSEKEEPING

- Basics on Audio and Visual
  - Chat options
  - Q and A reviewed after meeting
  - Attendees can request permission to unmute
- Meeting is being recorded

# BY THE NUMBERS

## US Electric and Plug-In Hybrid Sales

	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>Total Sales</b>	17,763	53,171	97,102	118,882	114,023	159,616	195,581	361,315	326,644
<b>Number of models</b>	4	11	16	22	27	30	41	45	45
<b>Models with over 1,000 sales</b>	2	5	9	13	17	18	24	28	28

# BY THE NUMBERS

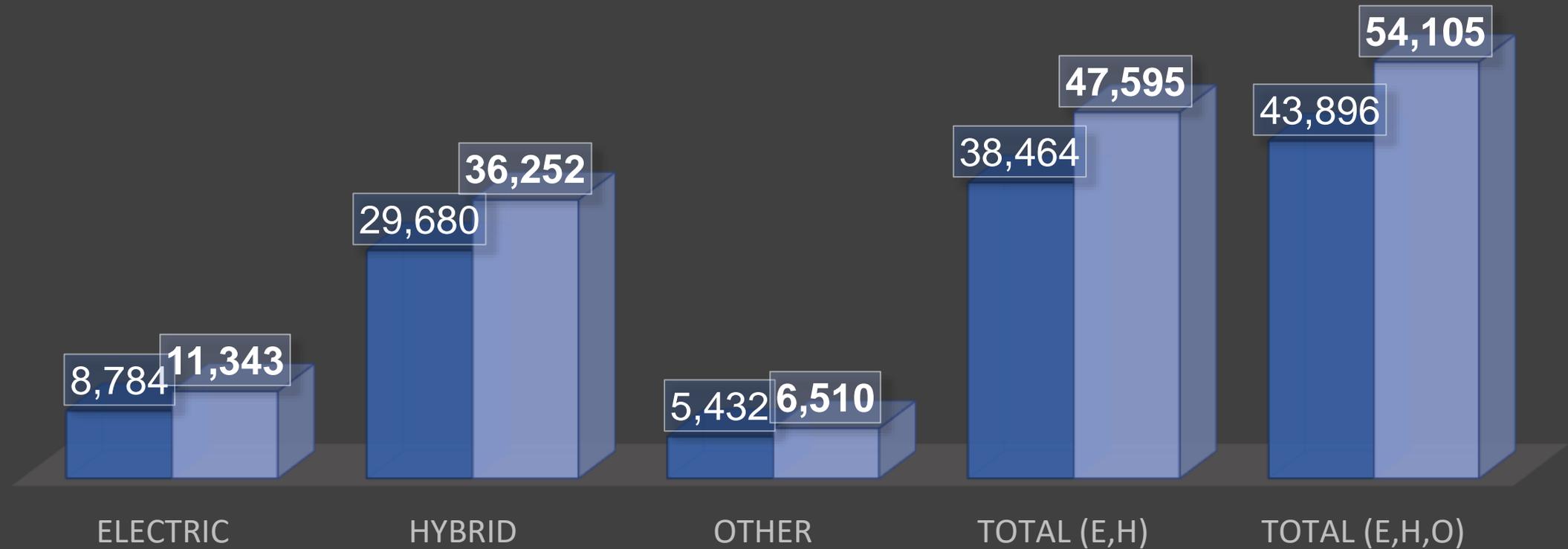
	March 2019	March 2020
<b>Electric</b>	9,784	11,343
<b>Hybrid</b>	29,680	36,252
<b>Other</b>	5,432	6,510

Source: PennDOT registration database

# BY THE NUMBERS

## ELECTRIC / HYBRID / OTHER (SOURCE: PENNDOT)

■ March 2019 ■ March 2020



# ALT FUELS CORRIDOR DEPLOYMENT PLAN

NGANI NDIMBIE, PENNDOT & DAN SZEKERES, MBI



# ALTERNATIVE FUELS CORRIDOR PROGRAM

## Alternative Fuel Corridors

With the designation of alternative fuel corridors, FHWA is establishing a national network of alternative fueling and charging infrastructure along national highway system corridors. FHWA intends to support the expansion of this national network through a process that:



- provides the opportunity for formal corridor designations on an annual basis;
- ensures that corridor designations are selected based on criteria that promote the "build out" of a national network;
- develops national signage and branding to help catalyze applicant and public interest;
- encourages multi-State and regional cooperation and collaboration; and,
- brings together a consortium of stakeholders including state agencies, utilities, alternative fuel providers, and car manufacturers to promote and advance alternative fuel corridor designations in conjunction with the Department of Energy.

# CORRIDOR EV CRITERIA

## FHWA Infrastructure Coverage Criteria

Fuel Technology	Corridor-Ready
EV Charging	Public DC Fast Charging <b>no greater than 50 miles between</b> one station/site and the next on corridor, and <b>no greater than 5 miles off the highway</b> . Additionally, each DC Fast Charging site <b>should have both J1772 combo (CCS) and CHAdeMO connectors</b> .

# FHWA DEPLOYMENT PLAN GOALS

Applied Research Funding Opportunity (State DOTs & MPOs)

Focus on Interstate Corridors

Focus on **Filling Gaps and Designation as “Ready” Corridor**

Focus on **Exploring Public-Private Partnerships**

# DEPLOYMENT PLAN TASKS

## BUILDS OFF ROADMAP STRATEGIES

Table 1: Timeline of recommended strategies to support EV adoption in Pennsylvania

Strategy	Near-term actions (0-2 years)	Mid-term actions (2-5 years)	Long-term actions (5+ years)
Establish utility transportation electrification directive			
Establish statewide EV sales goals			
Expand and improve AFIG rebate program			
✓ Strengthen statewide EVSE network planning, investment, and communications			
Establish fleet education, cooperative purchase, and technical assistance program			
Create EV marketing and education campaign targeted at consumers			
Establish dealer outreach and support program			
Encourage residential and commercial EV rate designs			
✓ Advance public and residential EVSE investment			
Develop municipal support, technical assistance, and grant program			
Establish workplace and multifamily EVSE education and outreach programs			
Adopt EV-ready building code amendments			
✓ Explore development of financing for EVs/EVSE			

## PLAN TASKS

Corridor Assessment

Outreach and Engagement

Site Feasibility Assessment

Action Plan

Share Lessons Learned  
(FHWA Pilot)

# SELECTED CORRIDOR



# BASELINE ASSESSMENT

Current  
Charging  
Infrastructure

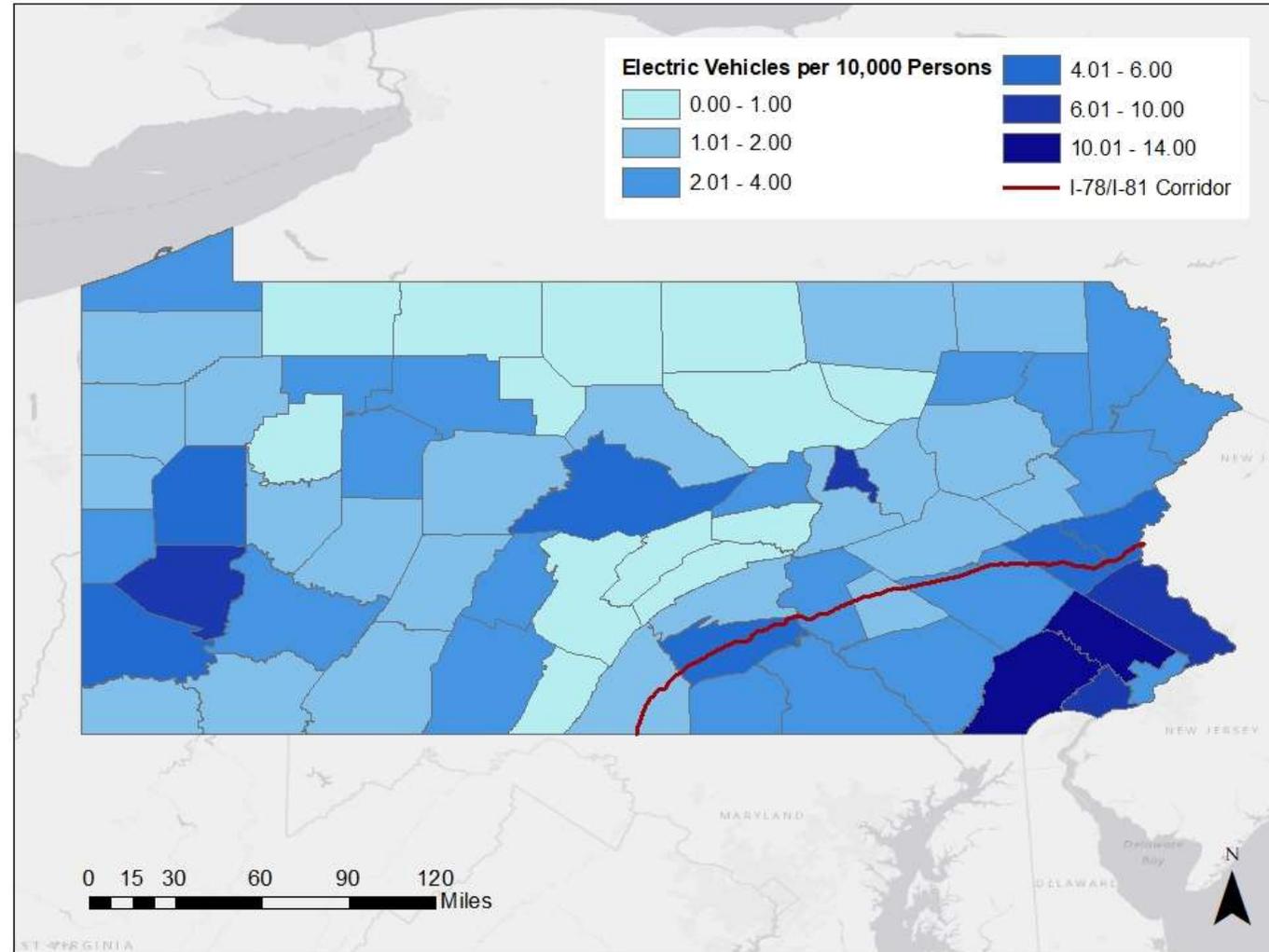
Travel  
Characteristics

Development  
Potential

Utility  
Infrastructure

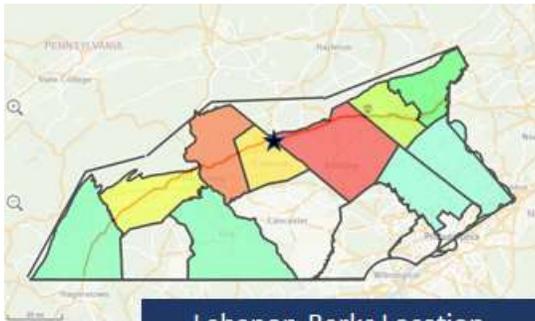
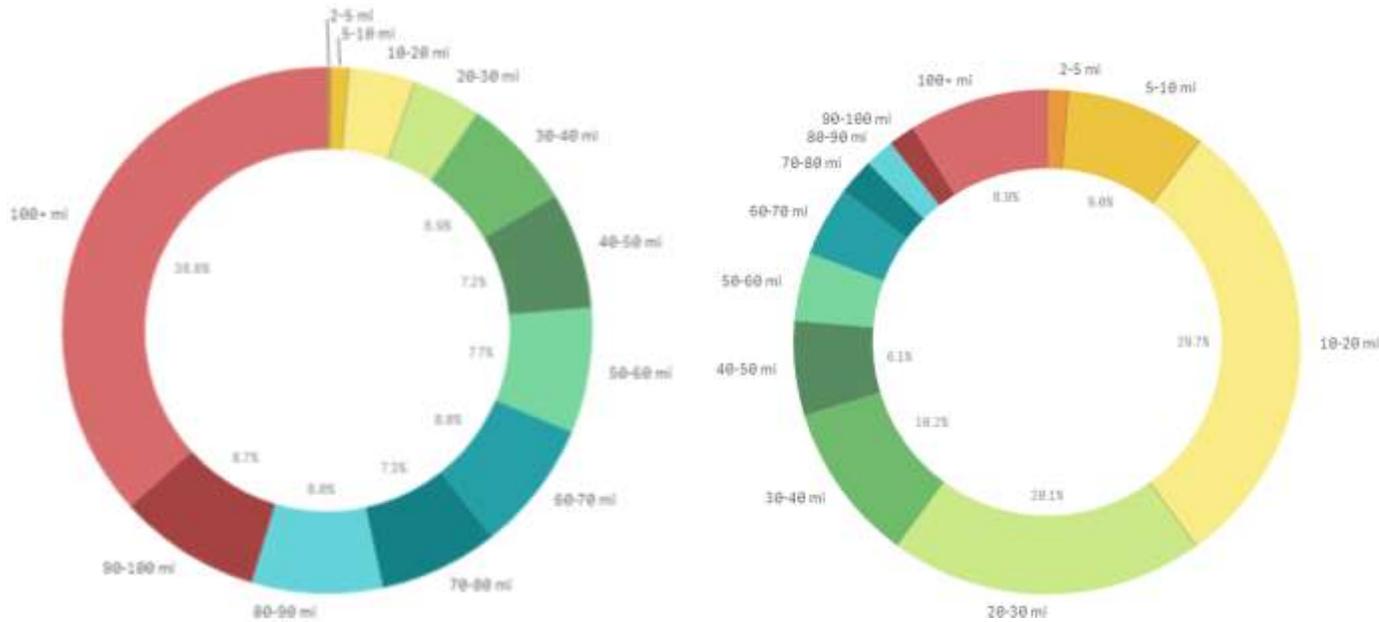
AFIG  
Applications

## EXISTING EV REGISTRATIONS PER CAPITA BY COUNTY

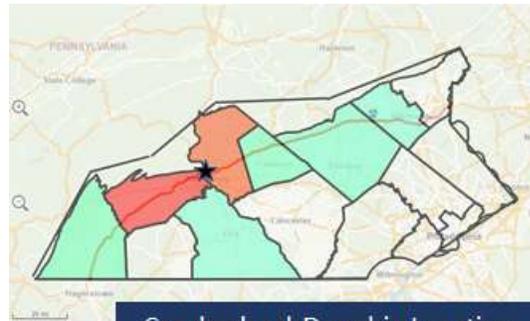


# EVALUATING CORRIDOR TRAVEL

## Average Travel Time

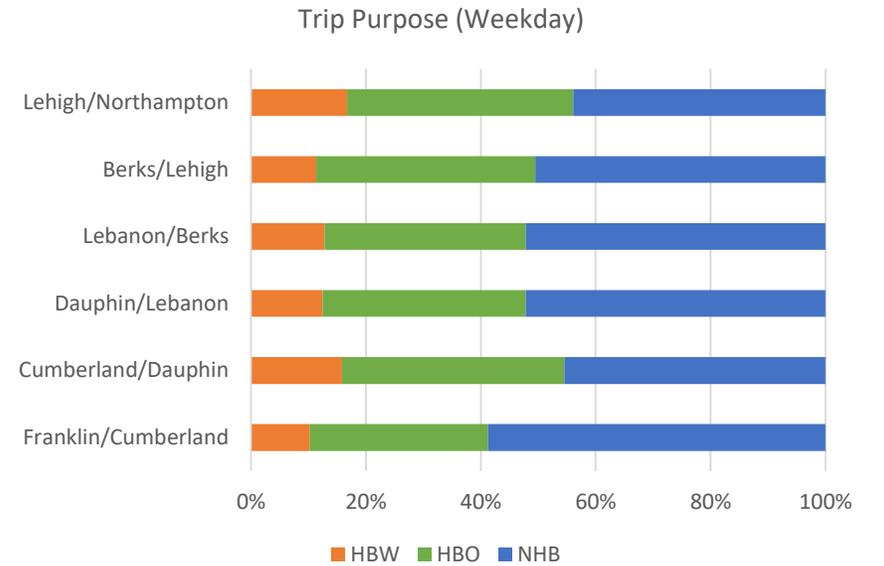


Lebanon-Berks Location



Cumberland-Dauphin Location

## Trip Purpose



# CORRIDOR GAP ANALYSIS

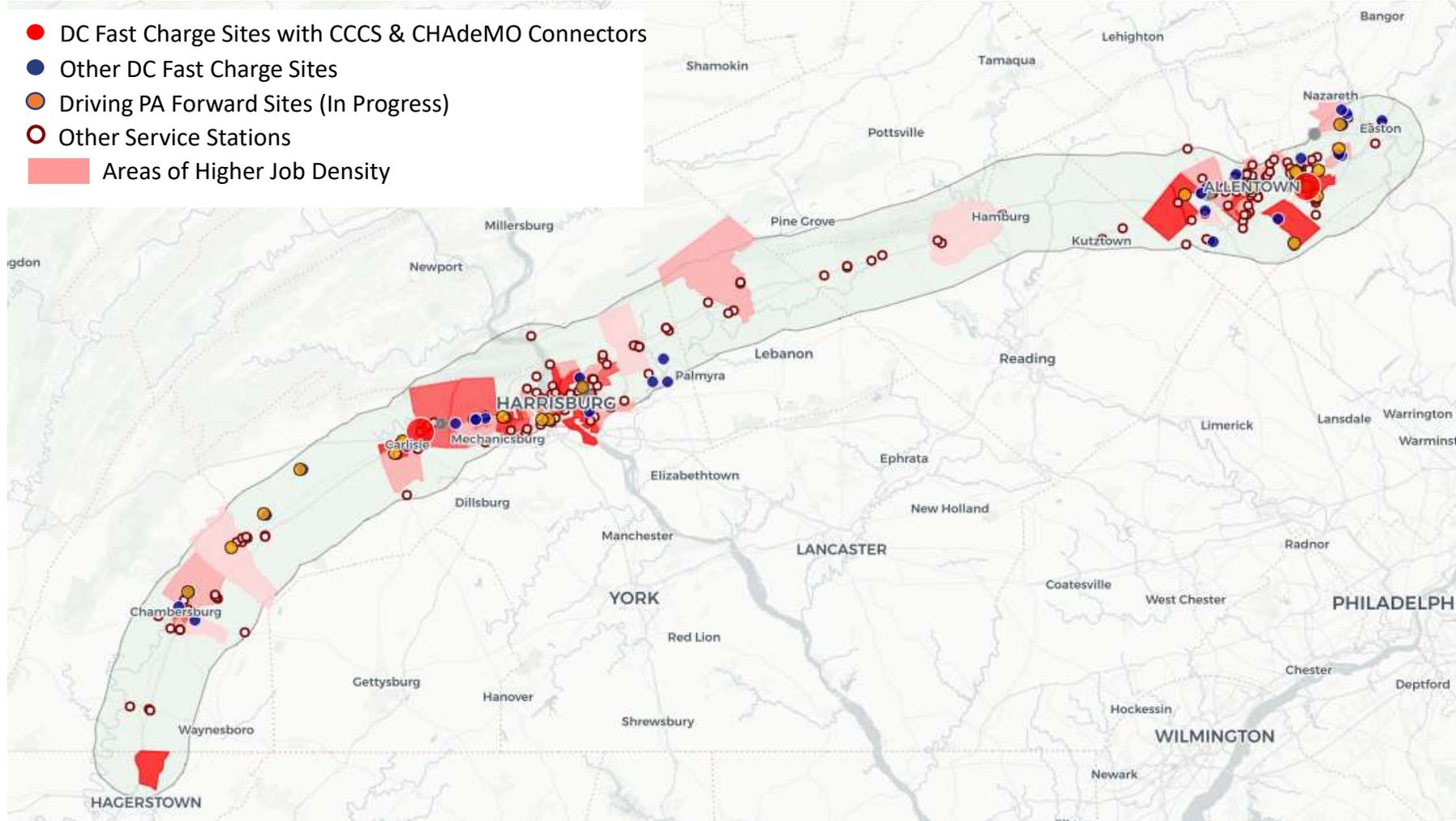
Only Two Locations Currently Qualify with Both Connector Types (CCS, CHAdeMO)



# CORRIDOR GAP ANALYSIS

## Other Potential Sites (March 2020) To Guide Outreach and Partnerships

- DC Fast Charge Sites with CCCS & CHAdeMO Connectors
- Other DC Fast Charge Sites
- Driving PA Forward Sites (In Progress)
- Other Service Stations
- Areas of Higher Job Density



Project Mapping: <https://tmp-map.s3.amazonaws.com/dot/alt-fuel/i81-i78-alt-fuel.html>

# ADDRESSING THE GAPS

## Outreach and Engagement

Identify the opportunities and barriers.

Identify commercial stakeholders and work to identify the potential for private partnerships within the corridor.

Conduct targeted outreach to specific commercial and municipal fleets to determine interest in alternative fuels, needs and issues.

Discuss public marketing strategies to increase awareness of alternative refueling locations and increase vehicle usage.

Discuss funding opportunities and grant programs to support infrastructure development.

# CAN DRIVE ELECTRIC PA HELP?

Identify Barriers  
Encountered

Examples of  
Commercial  
Partnerships

Technical  
Assistance for  
Installing Chargers

Role of Utility  
Companies

Funding  
Opportunities  
Like AFIG

Innovative Ideas  
(e.g. hubs for charging  
and EV carsharing)

Marketing  
Strategies

# EV NEWS & MEMBER UPDATES



# UPDATES

- Legislative Updates
  - HB 1392
  - SB 596
  - HB 1901
  - NJ EV Law
- Member Go-Around

Eleanor Lamb | Staff Reporter January 17, 2020 5:15 PM, EST

## New Jersey Gov. Phil Murphy Signs Electric Vehicle Law



# SEPTA'S ELECTRIFICATION

MEGHAN SCHULZ, SEPTA



# NEXT MEETING

- July 2020
  - Date & Location TBA
  - EV Truck Presentation

# THANK YOU!

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