



Electrify America ZEV Investment Plans

January 29, 2018

Our transformational opportunity: the largest single investment ever made in infrastructure to drive EV adoption

Our Mission

Electrify America will be a catalyst for promoting ZEV adoption by offering transformative, customer-centric infrastructure and energy management solutions.

Our Company

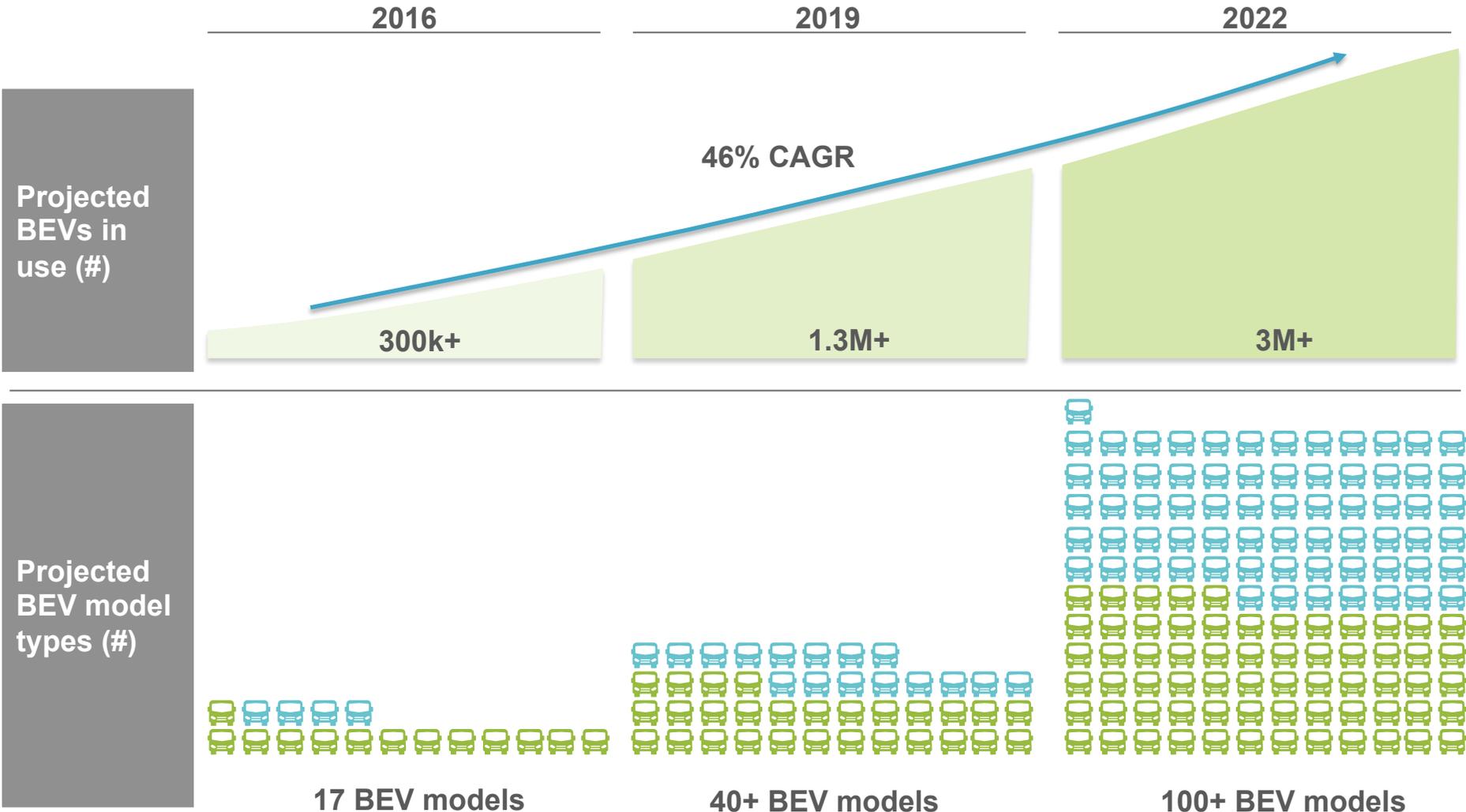
Electrify America is a subsidiary of Volkswagen Group of America created to implement a \$2 billion ZEV Investment Commitment. We have recruited talent from across diverse industries.

Our Approach

Electrify America is a data-driven company committed to increasing the use of ZEV technology.



EV adoption will increase rapidly over the next 5 years



Source: Navigant, public statements from OEMs on global product releases

 = Premium Model
 = Economy Model



Planned EV models will come in a variety of types, styles and price points, with many offering 200+ mile range by 2025



Chevy Bolt (2017)



Audi E-Tron Quattro (2018)



Volvo XC40 (2019)



Tesla Model 3 (2017)



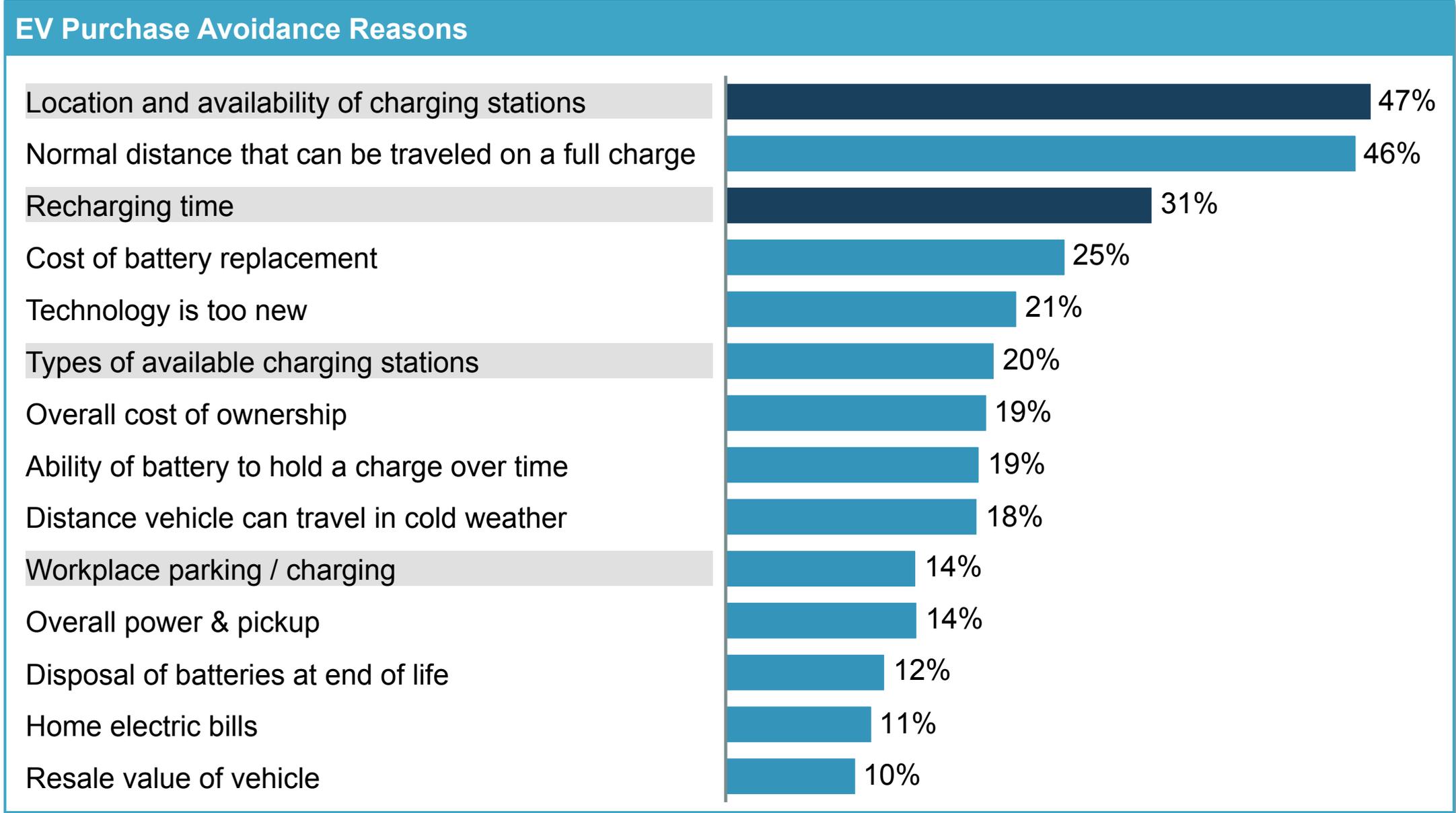
Nissan Leaf 2.0 (2018)



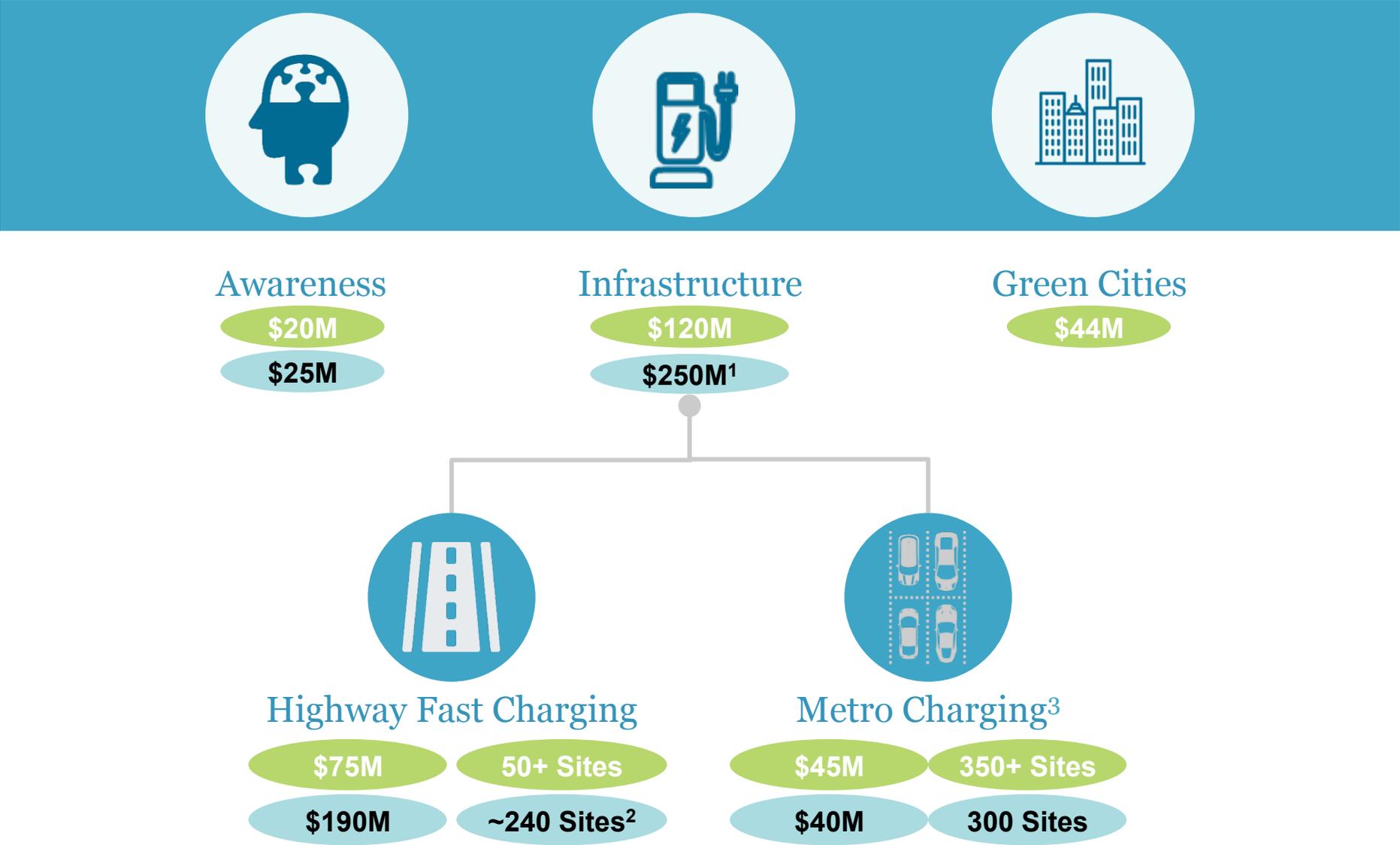
Porsche Mission E (2019)



Charging infrastructure availability and charging speed are top reasons consumers currently avoid EVs



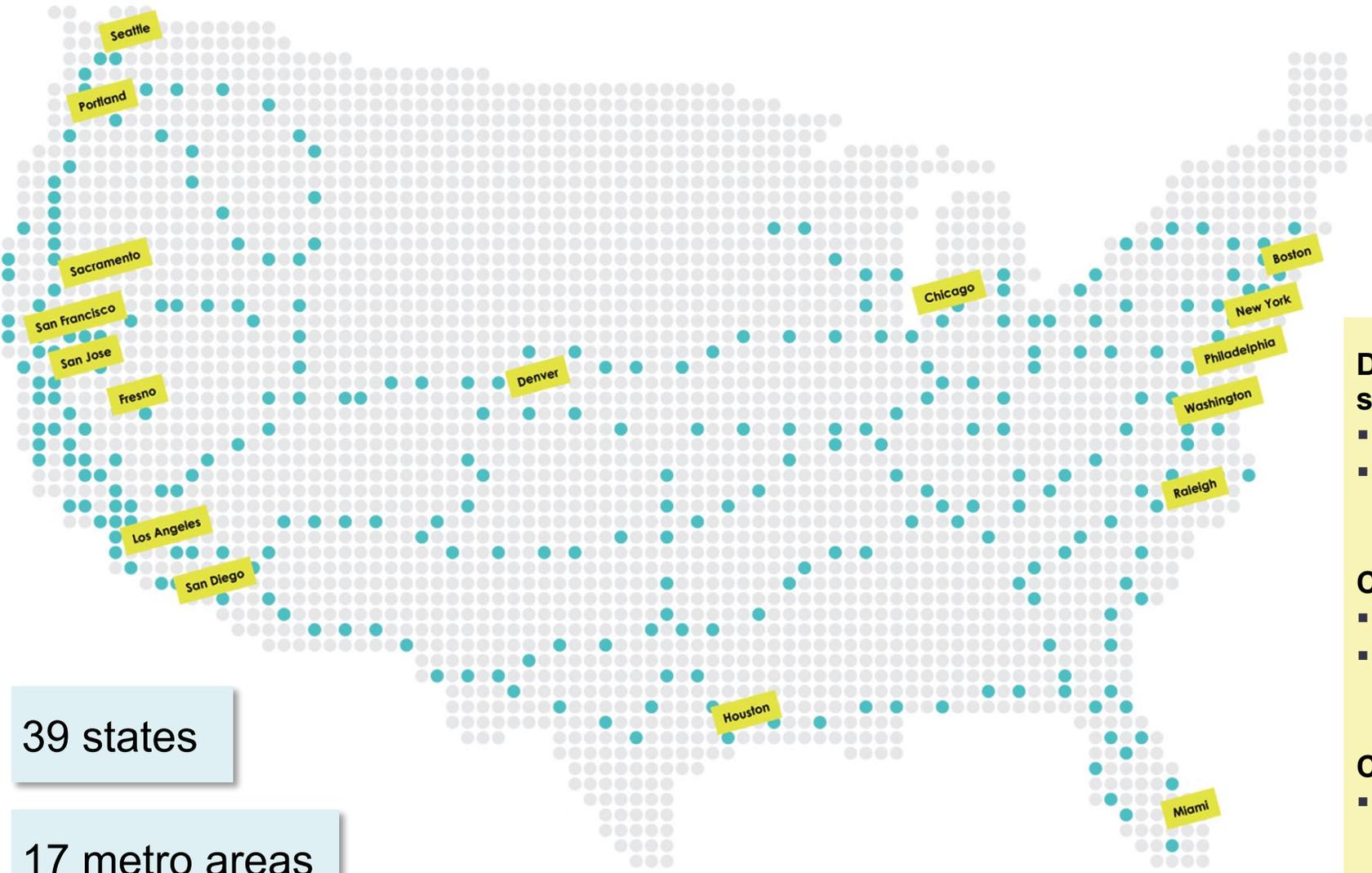
In Cycle 1 Electrify America will invest \$500 million between January 2017 and June 2019, with the vast majority focused on ZEV infrastructure



1. Includes \$20M in creditable operating costs
 2. In operation or under construction
 3. Includes all community charging sites such as community depot, commercial retail, garage, MUD and workplace sites

Note: remaining balance of Electrify America overhead: \$41M

Electrify America's Cycle 1 investment alone will create a robust charging network linking US highways and major metropolitan areas



39 states

17 metro areas

Distance between stations

- Average: 70 miles
- Maximum: 120 miles

Chargers per site:

- Average: 5
- Minimum: 4
- Maximum: 10

Charging speed

- Up to 20 miles per minute



Metro charging will provide service at numerous use cases



Community Depots
Iconic charger hubs in metro areas will include 150kW chargers



Public retail
Chargers at shopping centers, hospitality, and public parking will include 50kW and L2



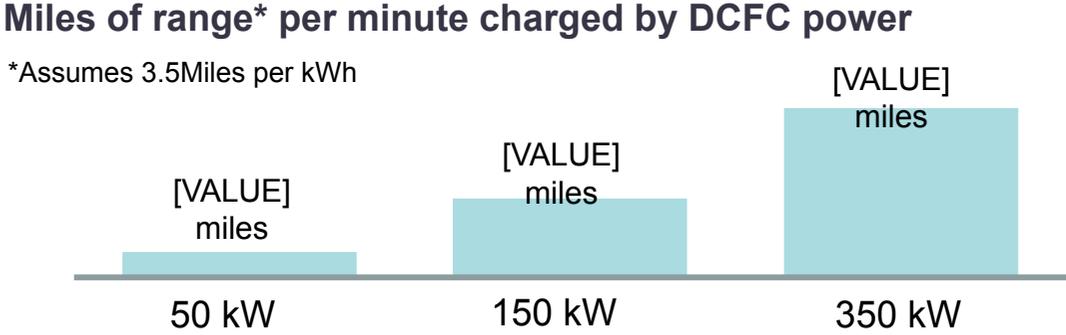
Workplaces
L2 chargers at places of employment



Multi-unit dwellings
L2 chargers at homes with more than 10 units

Electrify America will own and operate DC fast chargers with very high charging speeds and customer-focused features and design

Speed



Connections

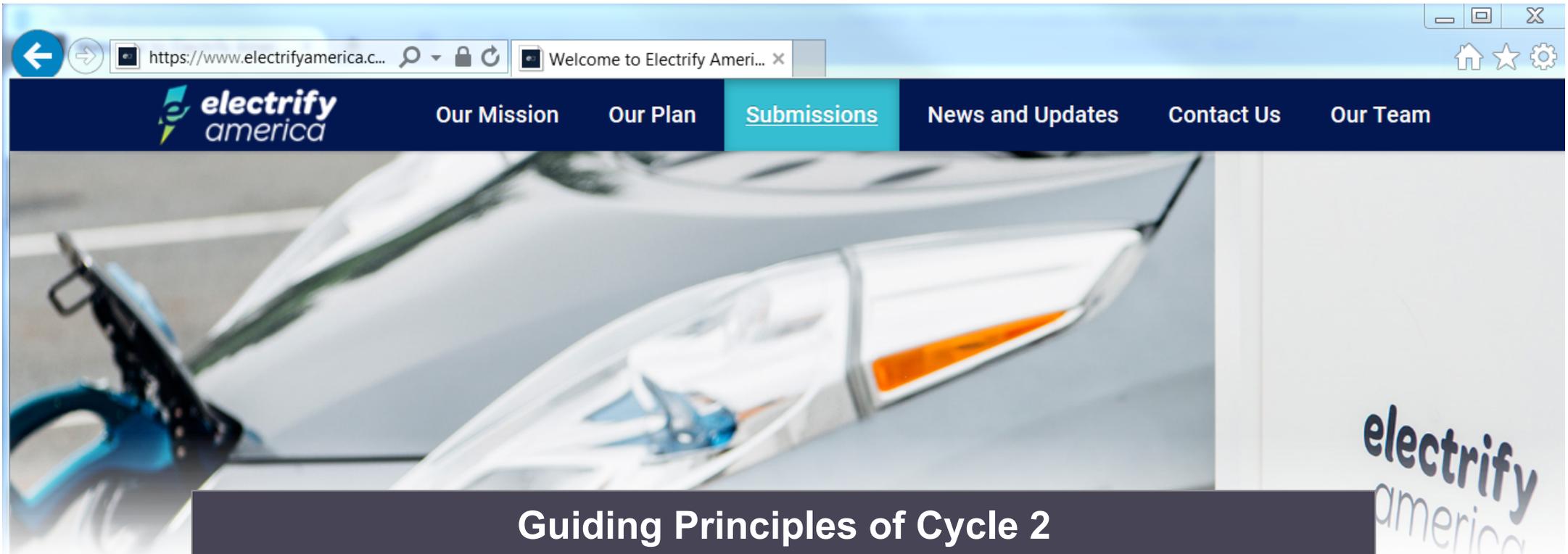
Non-proprietary chargers at all stations:
CCS and CHAdeMO

Payment

- Credit card access
- RFID, Mobile Pay & app access
- Plug and Charge (CCS ISO15118)



Cycle 2, our future investments, and future collaboration



Guiding Principles of Cycle 2

1. Start from the basics

- *Analyze both business fundamentals (e.g., highway and metro) and new business opportunities*

2. Actively engage external stakeholders

- *Collaborate with stakeholders throughout planning process to strengthen thinking*

3. Emphasize real world inputs

- *Leverage operational data and customer-backed research to make data-driven decisions*



Thank you

Questions?

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