

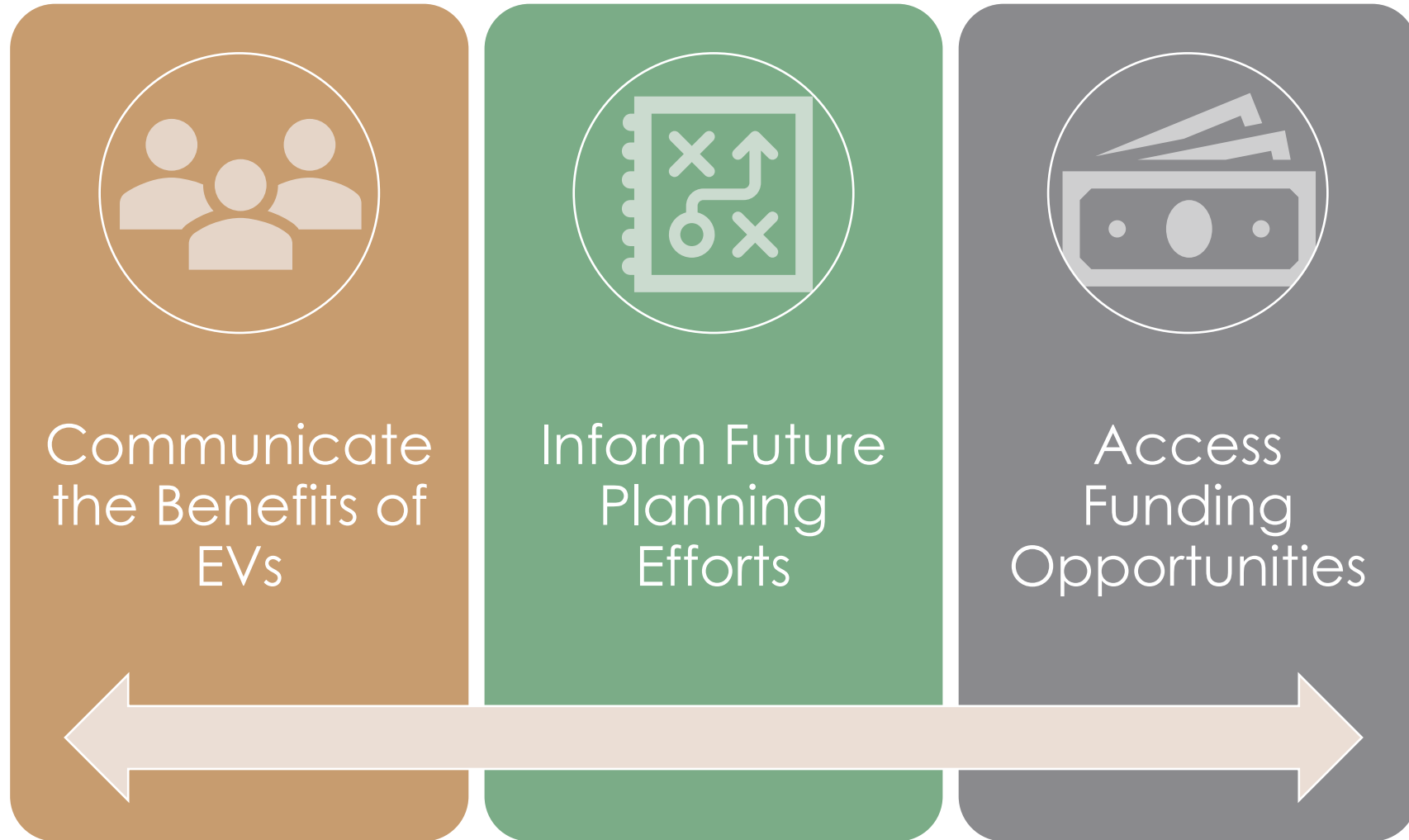
ELECTRIC VEHICLE INFRASTRUCTURE PLAN

TPO Board

October 11, 2023



Why Develop an EV Plan?



What We Heard



80% do most of their charging at home.



15% drive their EV on a trip that exceeds its range weekly or more often.



63% use public chargers for long weekend trips.



Bathroom facilities and **convenience store** options are important amenities.

Key **incentives**:

- **Fast public charging** on highways
- Lower purchase **price**
- **Discounts** for installing home charging.

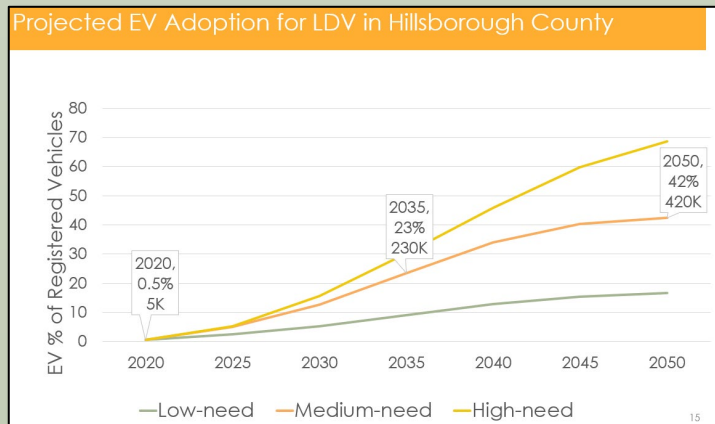
Key **barriers**:

- Purchase **cost**
- Driving **range**
- Dependability of EVs in **emergencies**

What is Included in the EV Plan?

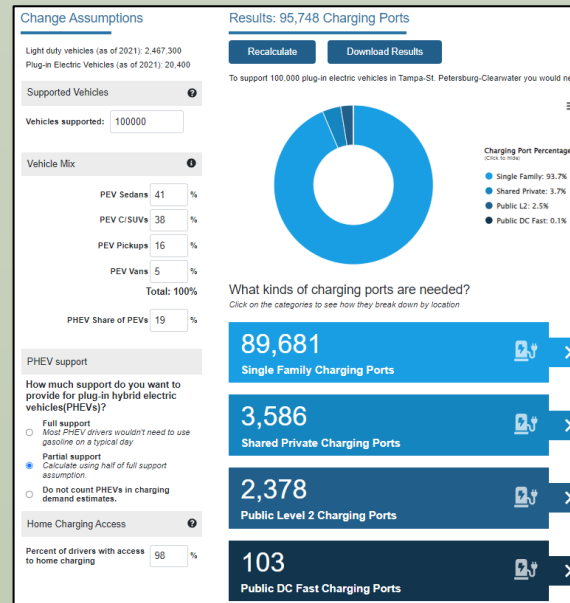
Forecast EV Adoption

- Focused on personal vehicles
- 2020 to 2050



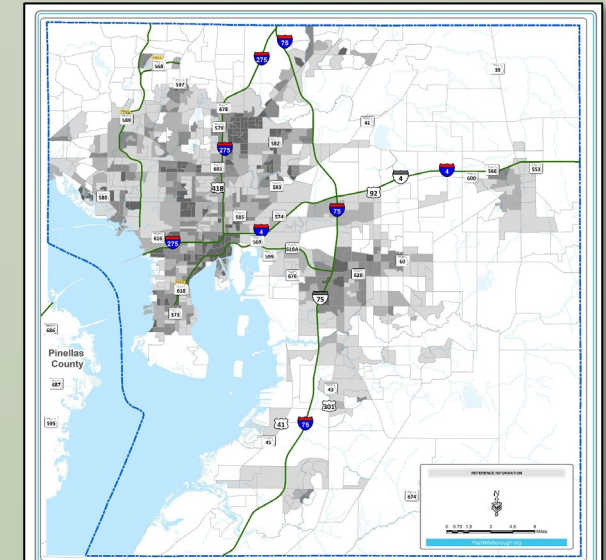
Estimate Needed Chargers

- Used a model from Department of Energy



Prioritize Areas for Charging

- Identified characteristics of locations that are best for charging



What is Included in the EV Plan?

Disadvantaged Communities

- Feedback: *EVs are not top of mind*
- Feedback: *Demonstrate benefits for the community*
- Feedback: *Mitigate future potential gap in charging **AND** impacts of gentrification*

Commercial Delivery / TNC

- In general, just charge at public stations
- Feedback: *Consider design to accommodate large vehicles*



Credit: Cubic Telecom, Mo Kadry

Transit

- Feedback: *HART is working on ZEV transition*



Credit: Pinellas Suncoast Transit Authority

Policy Recommendations

Accessibility

- **2** EV charging spaces with accessible mobility features
- Install 'Use Last' signage.



EV Installed Requirements

- **5-15%** of parking spaces in new multi-family and commercial developments should have EV charging infrastructure installed



Credit: Hillsborough TPO

Fleets

- Consider transitioning public fleets to EVs



Credit: US Department of Energy

How Can the Plan be Used?



Inform the LRTP



Pursue grants for
community charging



Adopt policies



Review
development
proposals

Discussion

