

Smart Columbus | May 21, 2018

PUBLIC ACCESS CHARGING IN COLUMBUS

(DEVELOPED WITH NREL STUDY)





SMART CITY PROJECT GOALS FOR PUBLIC CHARGERS 5,300

PEVs on the road by 2020

NEW PUBLIC CHARGERS

City of Columbus

30>60

Level 2 Chargers

AEP

25>75

DC Fast Chargers

120>90

Level 2 Chargers

15>18

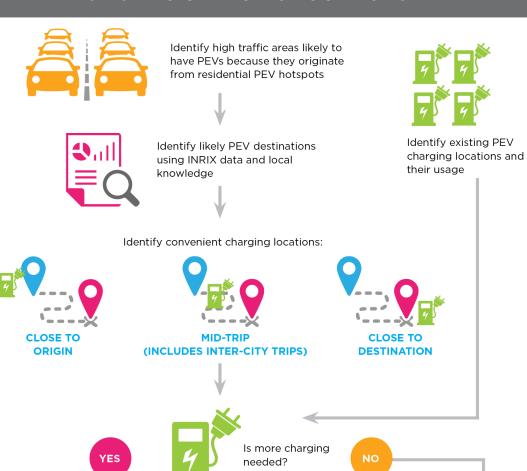
Site Hosts

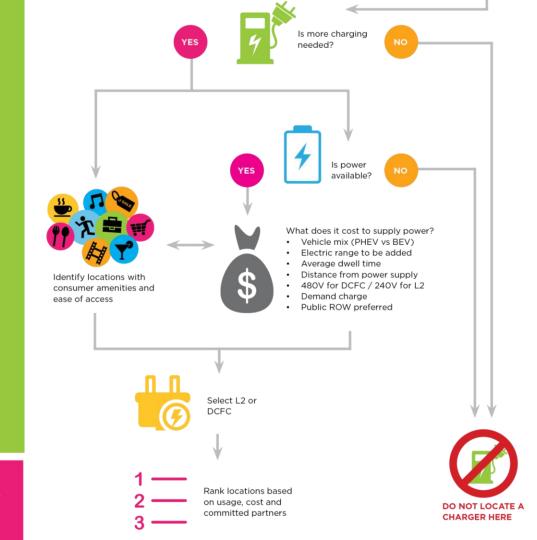
PROCESS FOR IDENTIFYING PUBLIC CHARGING LOCATIONS

TRIP ORIGIN (RESIDENCE)

TRIP DESTINATION

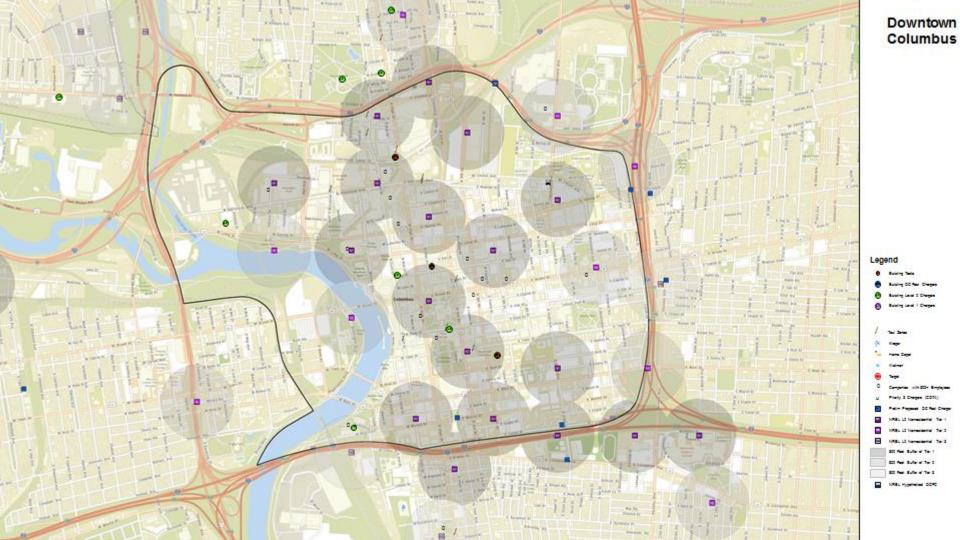
WHAT'S THE BEST LOCATION FOR CHARGING?

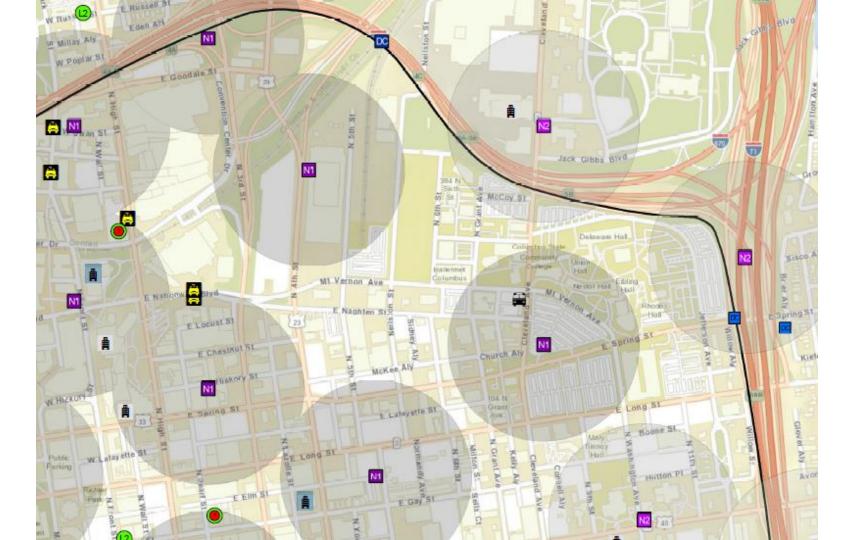




PRIORITIZE CHARGING LOCATIONS

WHAT TYPE OF





DATA CONSIDERATIONS



- PEV home charging locations
 - BMV derived data anomalies (largest concentration of plug-in vehicles located in South end of Hilliard near I-70 in lowincome small manufacturing area – not residences)
 - Home charging and registration discrepancies—Is registered location actual overnight charging location?
- Workplace charging
 - Personal or employer vehicles? Taxi services?
- PEV destinations
 - INRIX and MPO destination data
 - Day-to-day differences
- o PEV state of charge
 - Charging habits
- Consumer charging behavior
- Expect an iterative process Collect data and improve charger location selection as charger usage database grows.
- Continue implementing local knowledge to improve location selection





THANK YOU

Credit: Smart Columbus Charging Working Group

