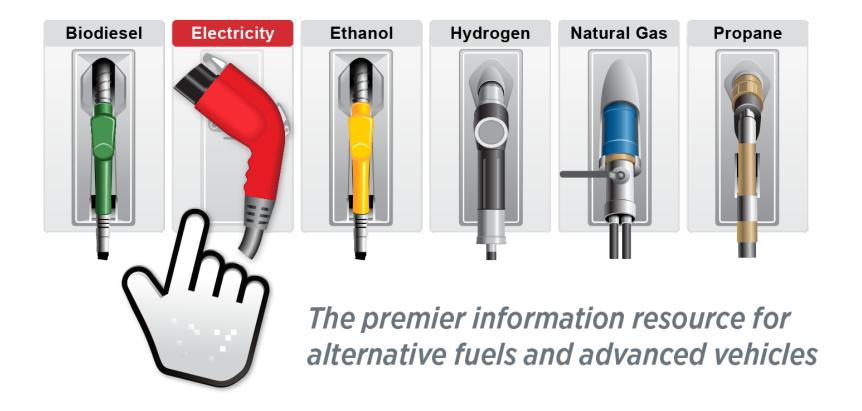


# Discussion Outline

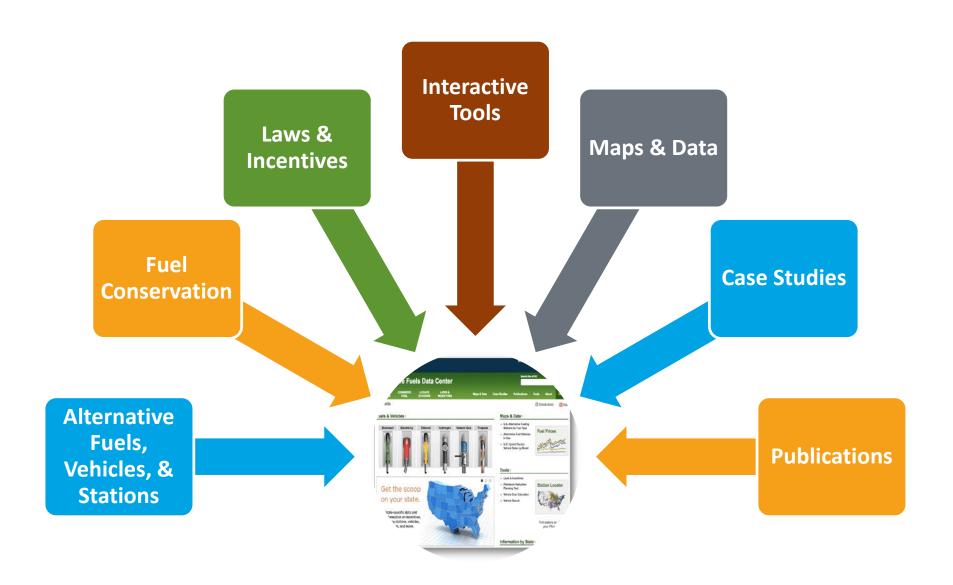
- 1 Station Locator Updates
- 2 Data Download for Corridors
- 3 Dynamic Maps for Corridors
- 4 Future Corridor Mapping Tool
- 5 Questions and Feedback

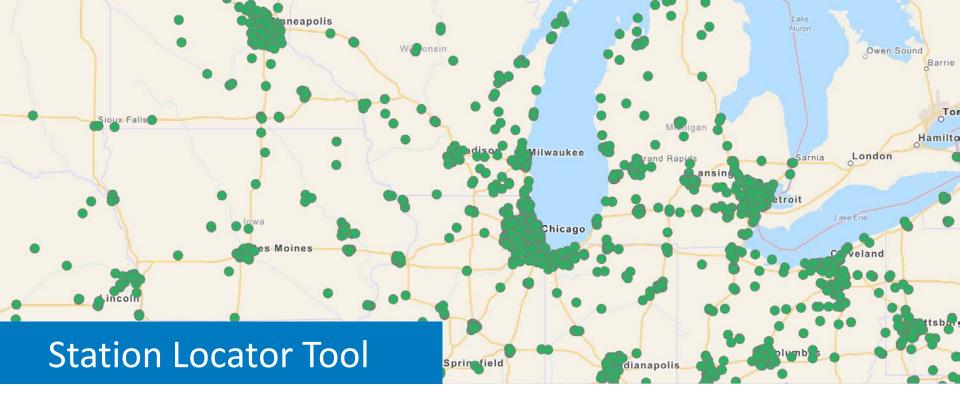
#### Alternative Fuels Data Center



afdc.energy.gov

# What does the AFDC provide?



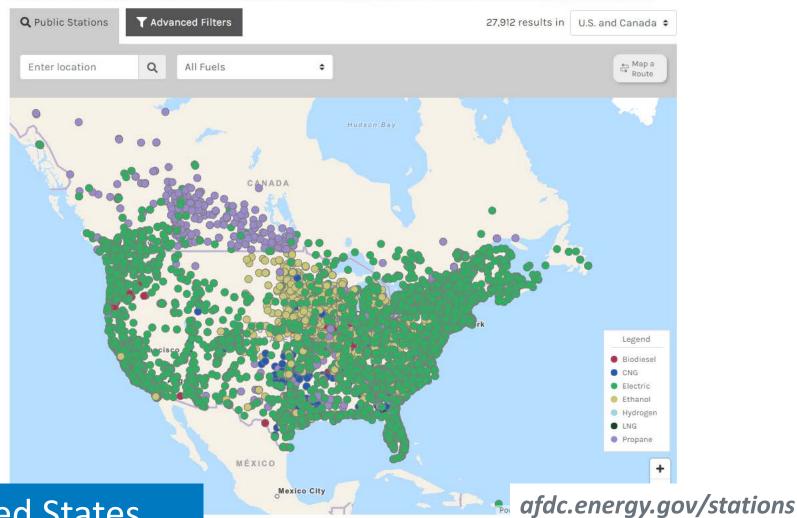


- Search for stations by city, state, or ZIP code
- Filter by fuel type and station details
- Map a driving route

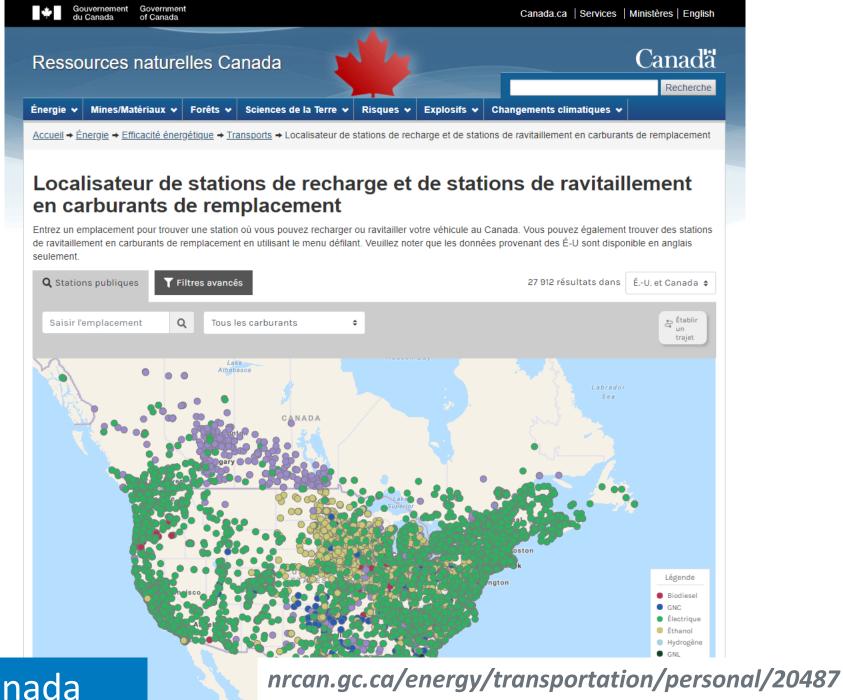


#### **Alternative Fueling Station Locator**

Find alternative fueling stations in the United States and Canada. For U.S. stations, see data by state. For Canadian stations in French, see Natural Resources Canada.



Developer APIs



Canada

Havana



#### Alternative Fuels Data Center

**FUELS & VEHICLES** 

EERE » AFDC » Tools

CONSERVE **FUEL** 

LOCATE **STATIONS** 

LAWS & INCENTIVES

Case Studies

Maps & Data

#### **Round 3 Data Access**

A simple click allows states to download station data in a variety of formats with FHWA criteria already applied.

https://www.afdc.energy.gov/corridors

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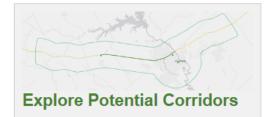
#### Station Data for Nominating Alternative Fuel Corridors

The table below provides station data and shapefiles by state and fuel type. These datasets include public stations with the following filters applied to meet the criteria for nominating alternative fuel corridors:

- EV charging only DC fast electric vehicle (EV) charging stations, excluding Tesla
- Hydrogen only retail stations (Non-retail stations may be used in corridor nominations if the stations are compliant with SAE J2601 standards and meet all of the criteria for a hydrogen corridor.)
- Propane only "primary" liquefied petroleum gas (LPG) stations, which have fuel for vehicles and vehicle-specific fueling services that are consistently offered during business hours
- CNG only fast-fill compressed natural gas (CNG) stations that offer a fill pressure of 3,600 psi
- LNG all liquefied natural gas (LNG) stations

The data downloads are CSVs with current station data pulled automatically from the Alternative Fueling Station Locator. The shapefiles are ZIP downloads with a static snapshot of the stations as of Sept. 5, 2018, including stations outside state borders within 25 miles.

Learn more about corridor designations from the Federal Highway Administration.



Tools

Use the prototype mapping tool to explore potential corridors by fuel:

- EV charging
- Hydrogen
- Propane
- CNG LNG
- Stations by State and Fuel Type **EV Charging** CNG LNG State Hydrogen **Propane** data | shapefile data | shapefile data | shapefile CNG data | shapefile LNG data | shapefile Alabama = data | shapefile Alaska data I shapefile data I shapefile data | shapefile data I shapefile data I shapefile Arizona

#### Goals for the Corridor Tool

With the corridor mapping tool, transportation planners can:

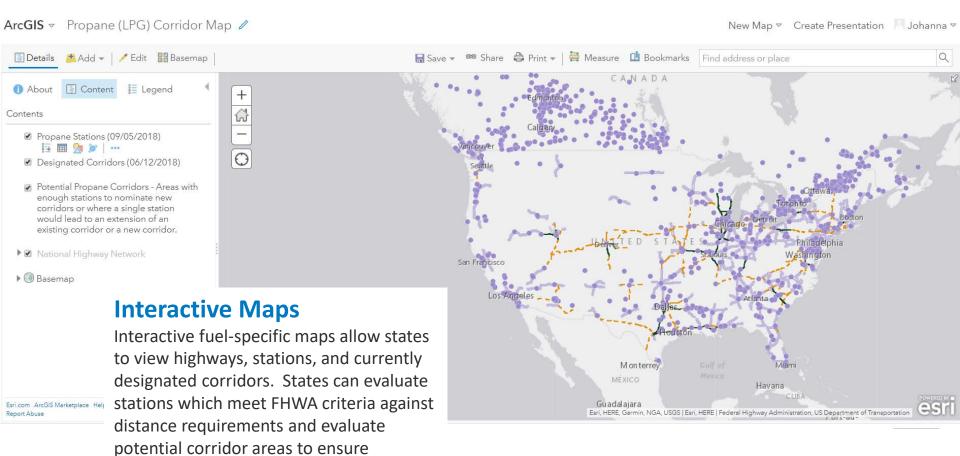
- Monitor the system and watch for gaps and corridor designation changes
- View fueling stations along corridors
- Determine where to invest in fueling infrastructure
- Assess roads and stations for new corridor nomination

# **Corridor Mapping Tool**

# Features for Phase Zero

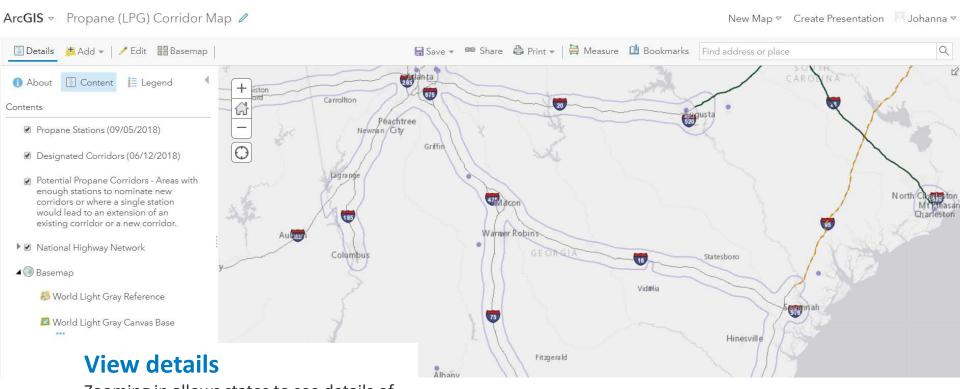


## **Explore Data**



successful corridor nominations.

#### **Examine Data**

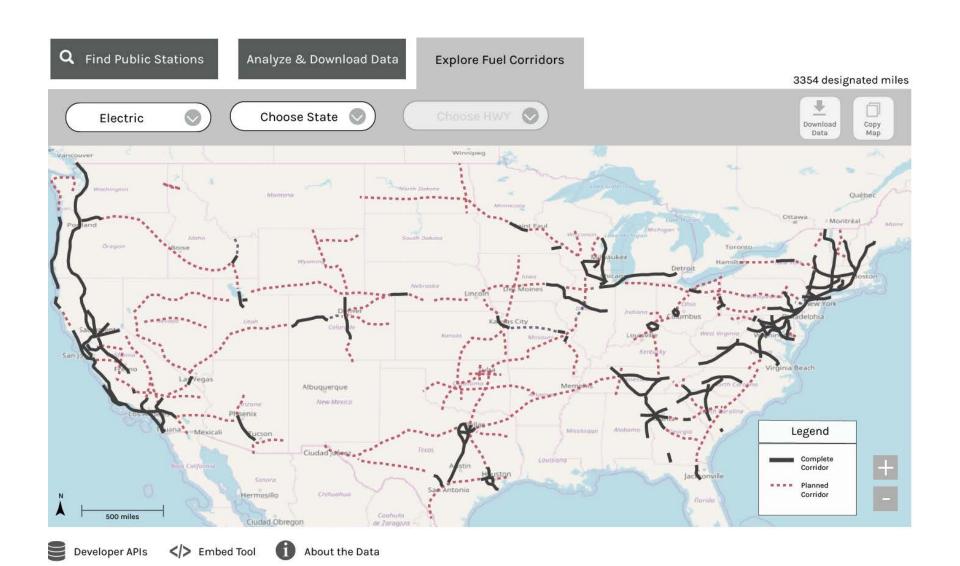


Zooming in allows states to see details of where potential corridors may exist either with enough stations already or where the addition of a single station would create a corridor. Areas shown are within five miles of an Interstate.

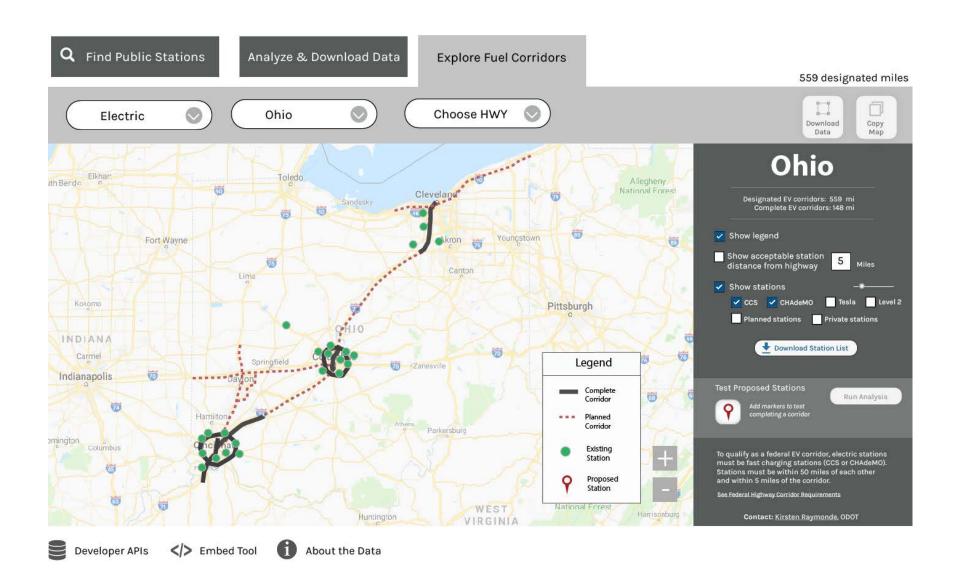
# Features for Phase One



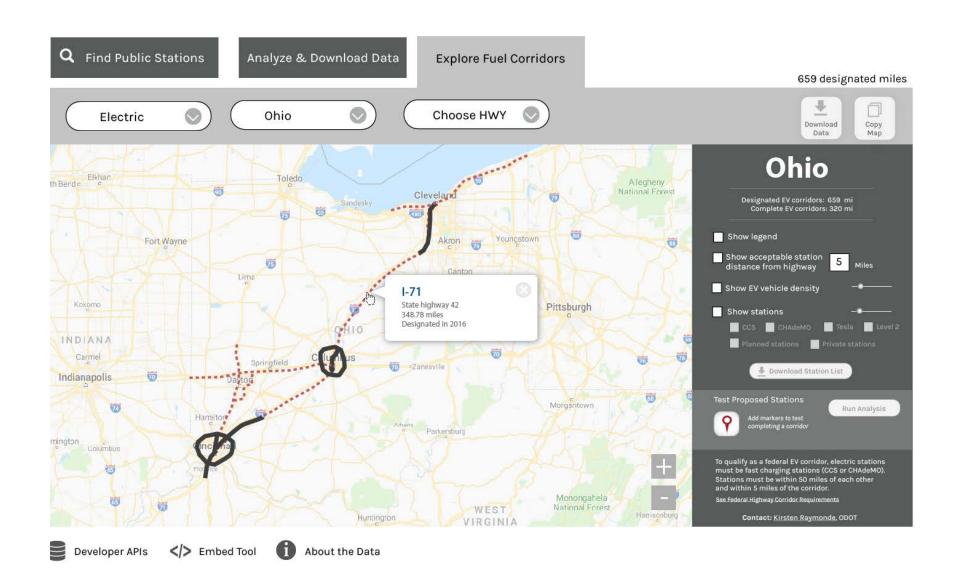
# National Map



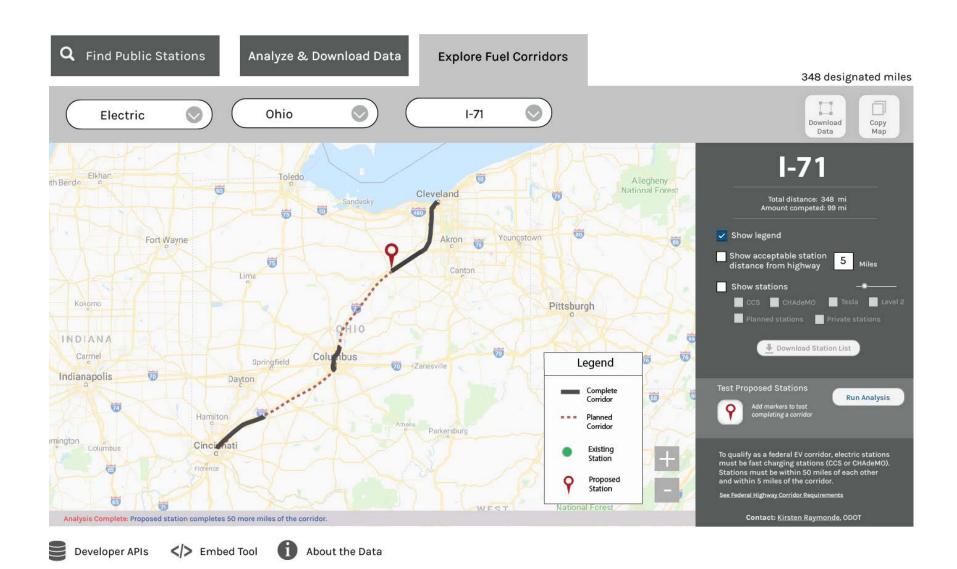
## State Map



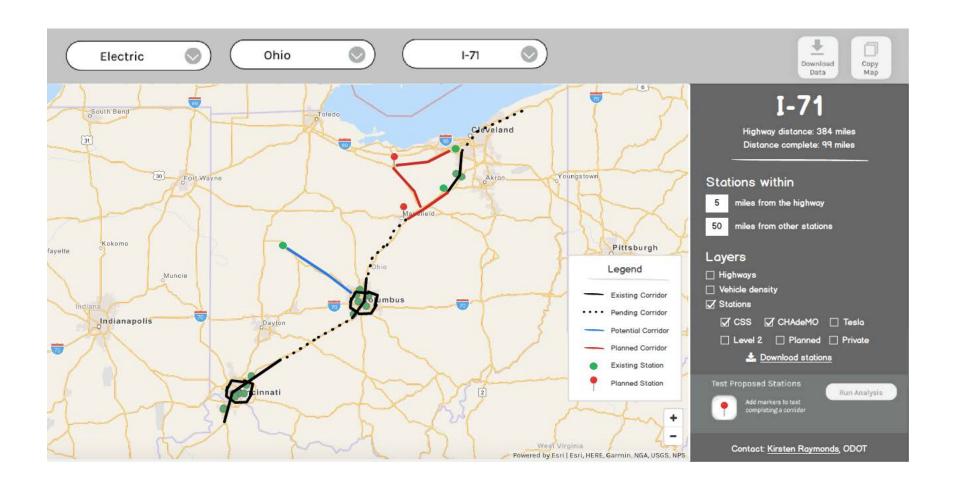
## **Corridor Summary**



## **Analyzing Proposed Stations**



## **Exploring Potential Corridors**





Questions and Feedback

# Thank You

johanna.levene@nrel.gov

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