

# **Data Driven Fleet Electrification Process**

Step 2



**Vehicle Inventory and** Step 1 Fleet Coordination

In-use **Vehicle** Data Collection



**Duty Cycle Analysis** 

Step 4

**ZEV Technology** and **Efficient Operations** 





Fleet DNA



Step 3

**DRIVE** 



DriveCAT



**FASTSim** 



**RouteE** 

Step 5

Infrastructure Requirements and Charging **Strategies** 

Step 6

Cost of **Ownership** 



Step 7

**Detailed** Charging Infrastructure Requirements



Step 8

Results / Reporting



# **Active, Recent, and Upcoming EV Port & Airport Studies**

## Ports of Long Beach / Los Angeles

- Zero Emissions Cargo Transport (ZECT 1 and ZECT 2)
- ZEV Blueprint
- Zero and Near Zero Emissions Freight Facilities (ZANZEFF)
  - 10 Kenworth/Toyota Fuel Cell Class 8 Drayage

# Port Authority of New York / New Jersey

- Yard Tractor Electrification Study (complete)
- Drayage Electrification Study (complete)

#### WestSmartEV@Scale - Utah Inland Port

- Data Collection and Analysis Mountain West & RSD
- Electrification Analysis

### **Airport Studies**

- Dallas Fort-Worth Airport DFW
  - Athena
  - EV Blueprint
- Metro Washington Airports
  - EV people mover & Ground Support Equipment











