
Welcome!
2019
MIDWEST GREEN TRANSPORTATION
FORUM & EXPO
CREATING YOUR BLUEPRINT FOR SUCCESS IN ADVANCED FUELS & TRANSPORTATION
2019 Midwest Green Transportation Forum & Expo • September 18 - 20, 2019 • Marriott Columbus University Area

Breakout 2: Fleet Track

Data Analytics & Connectivity

Ohio AB Room

Thursday, September 19th
3:45 – 5:00 PM

Moderator: George Survant

National Truck Equipment Association

Senior Director of Fleet Relations

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Lauren Lynch

National Renewable Energy Laboratory (NREL)

Mechanical Engineer, Vehicle Technology Integration

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NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Data Analytics & Connectivity: Technologies & Peer Fleet Experiences

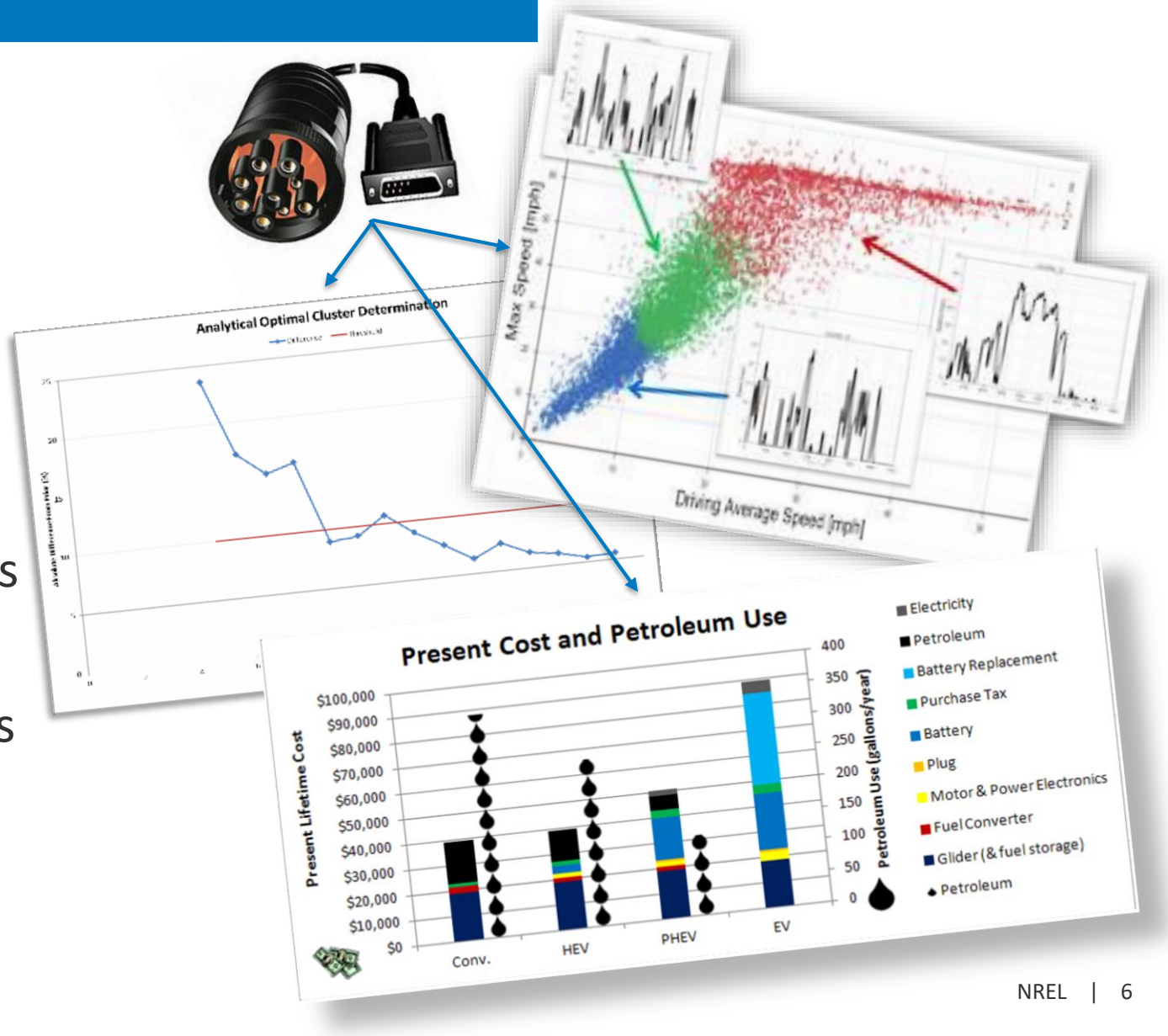
Lauren Lynch, Mechanical Engineer
Vehicle Technology Integration
National Renewable Energy Laboratory

Midwest Green Transportation

September 19th, 2019

Data Analytics & Connectivity

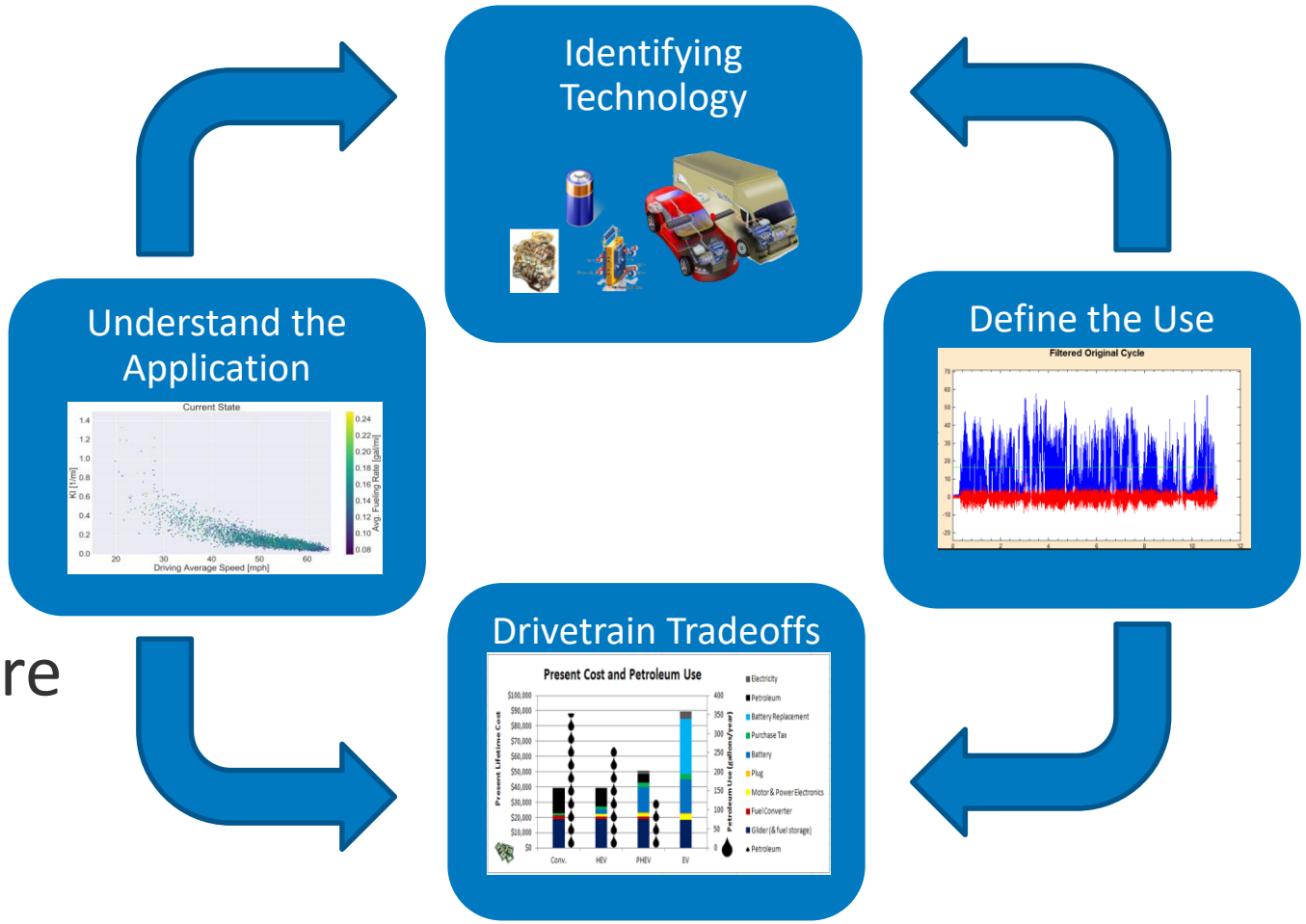
- Define the Fleet Objective
  - Improve Efficiency
    - Fuel
    - Route
    - Operator
  - Maximize ROI
    - Fuel Economy Improvements
    - Minimize Lifecycle Costs
    - Minimize Maintenance Costs
  - Meeting the Demand
    - Appropriate Technologies



IDENTIFY THE ANALYSIS

Data Capture:

- Return on Investment
  - Fuel
  - Maintenance
  - Productivity
- Productivity
  - Telematics data software
- Application Analysis
  - Contracting Services



NREL FLEET ANALYSIS

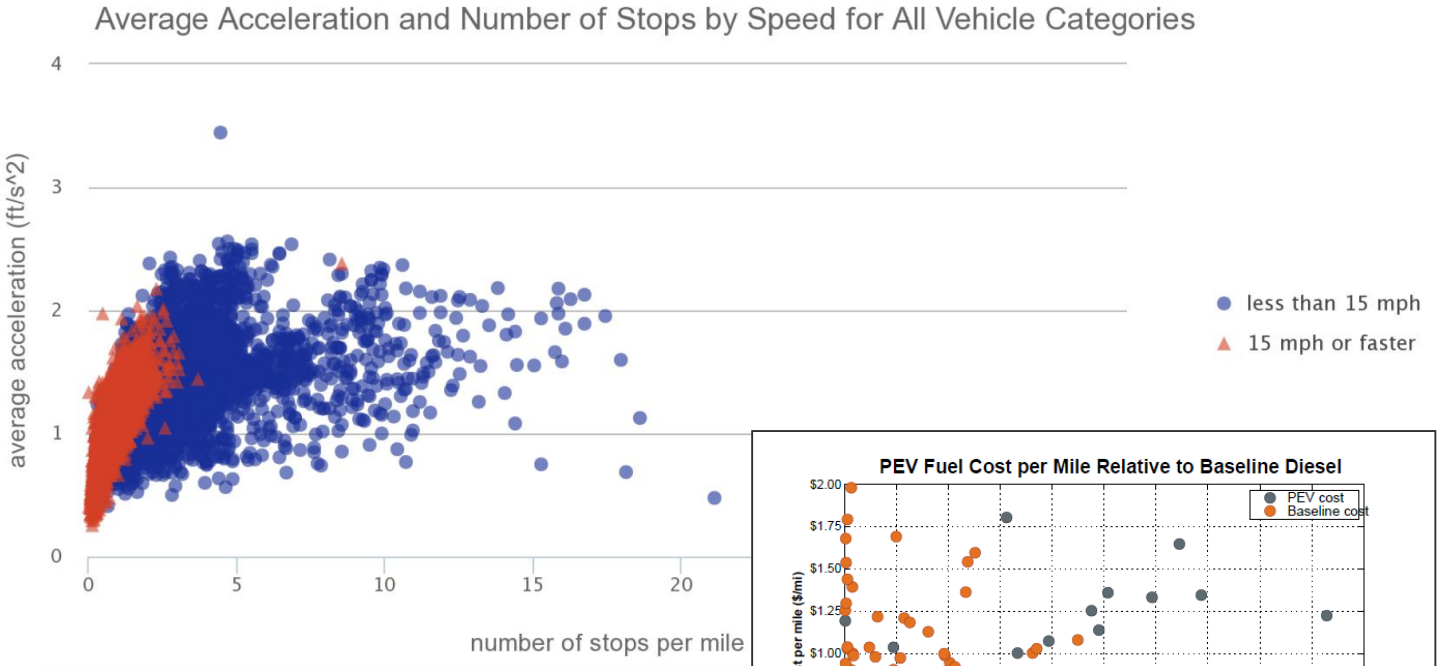
https://www.nrel.gov/transportation/data-tools.html

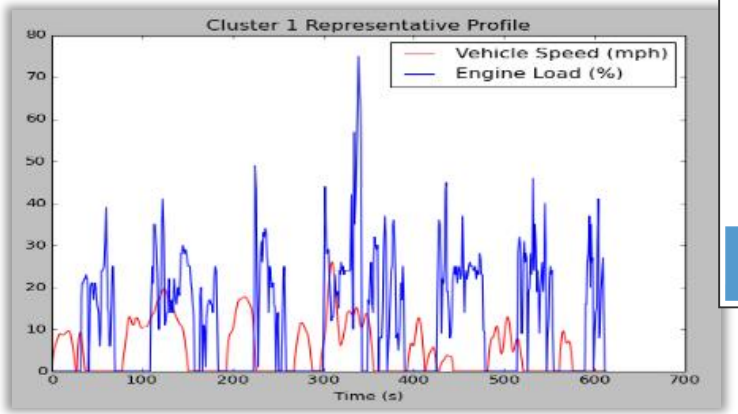
FLEET DNA — Provides data summaries and visualizations to helps users understand the broad operational range of commercial vehicles across vocations and weight classes

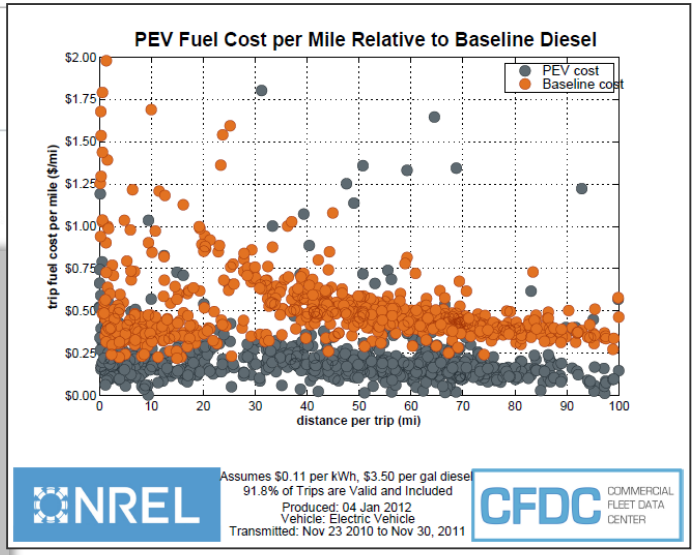
FASTSim — Simulate vehicle design and use scenarios with fuel economy, performance, battery life, and cost calculations.

DRIVE — Produce drive cycles from real-world vehicle data to cut evaluation and analysis time.

AFLEET — Calculate a fleet's petroleum use, cost of ownership, and air pollutant and greenhouse gas emissions







Kelly Reagan

City of Columbus

Fleet Administrator

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Richard Callis

Khalis IT & Fleet Consulting

Senior Consultant

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