

# Restructuring our Transportation Sector

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# Advanced vehicles achieve Administration priorities

## Reducing oil dependence

- Major reduction in dependence beyond 2020
- Diversify fleets
- Transform geopolitics
- Capital stock turnover limits change



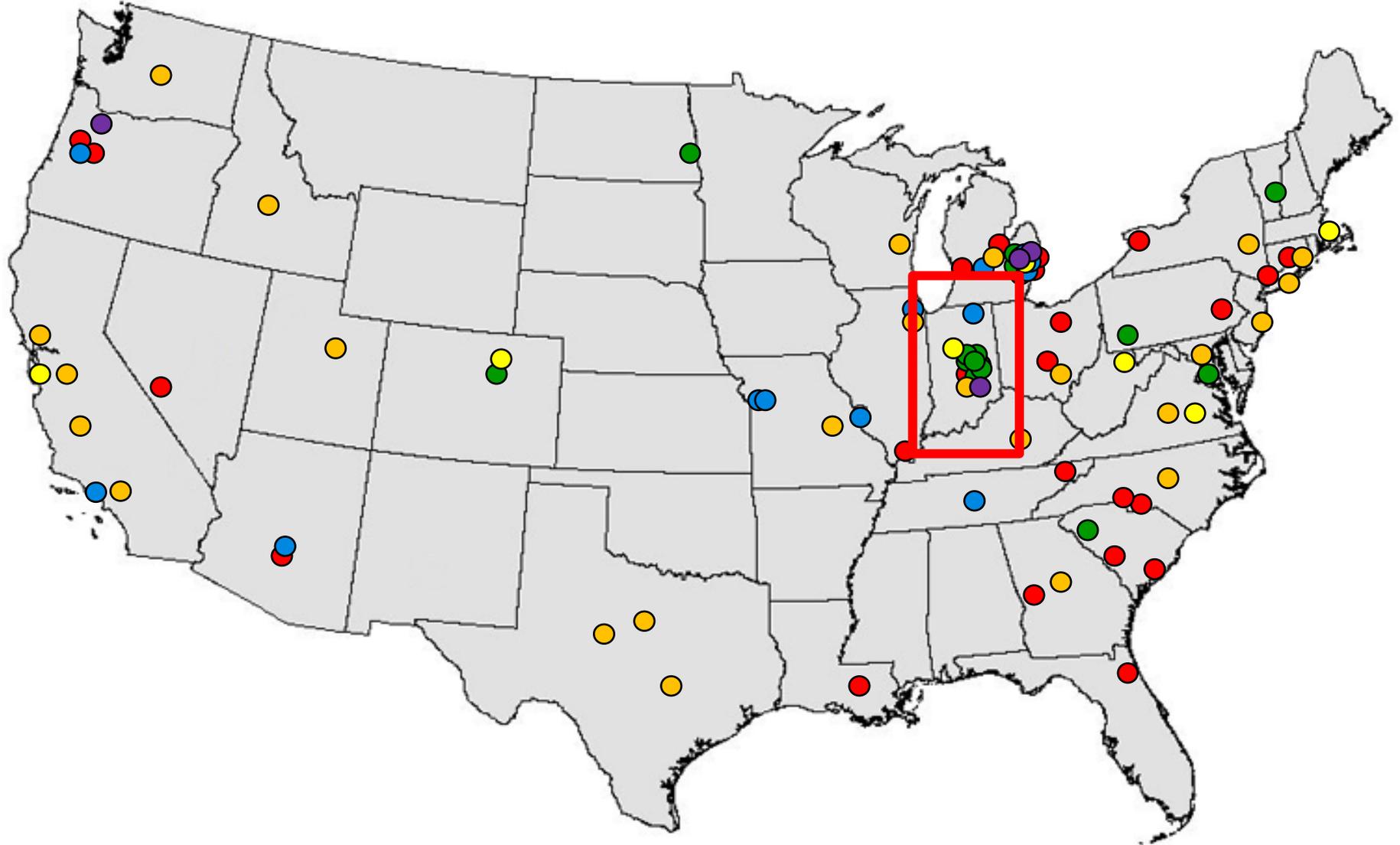
## Reduce greenhouse gas emissions

- Essential technologies for achieving 2050 GHG goals
- Limited impact on 2020 GHG goals
- EVs help support deployment of renewables

## Strengthen our global competitiveness

- Key opportunity to create green jobs
- EVs are seen by automakers globally as the next wave

This investment in innovation will drive job creation today and tomorrow...



- Transportation Electrification
- Electric Drive Components
- Battery & Component Manufacturing

- Electric Vehicle Education
- Clean Cities
- SuperTruck

# The transformation of the transportation sector has started



# We are investing \$12 billion in multiple technologies

## Advanced biofuels



## Natural gas



## Electrification



## Advanced combustion



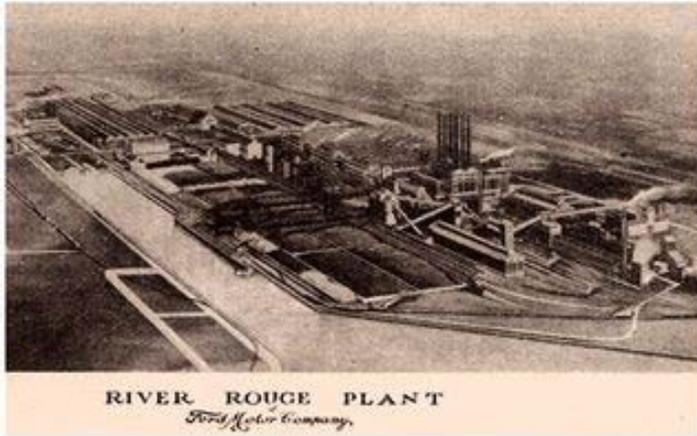
## Fuel cell



A Fuel Cell Car (GM)

Insert: the unit where hydrogen and oxygen are combined to generate electricity

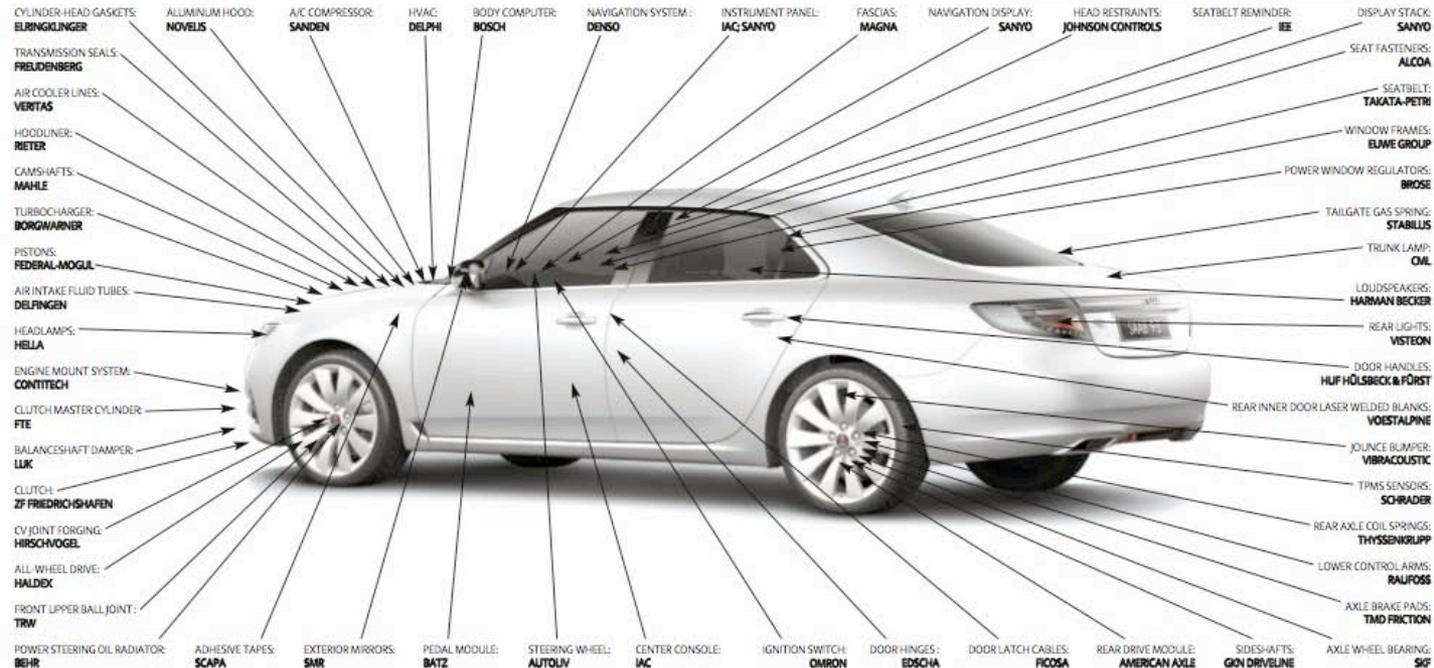
Our investment strategy: The market will decide which combination of technologies will win – because today's OEM is a system integrator



**Early Ford vertical integration:** raw materials arrived at the docks and materials manufactured into parts on site. Ford owned a railroad, coal mines, timberland, a sawmill, freighter ships, and a glassworks plant.



Today, a complex network of hundreds of suppliers produce the parts of the typical automobile



# Imagine a world



Technologies can take us far beyond CAFE

Batteries at \$100/kWh?

Engines get 60 miles per gallon?

Sustainable biofuels at \$2 per gallon?

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