## **Asilomar**

August-September 2011

Vehicle Electrification and Infrastructure



Director, Global Energy Systems and Infrastructure Commercialization



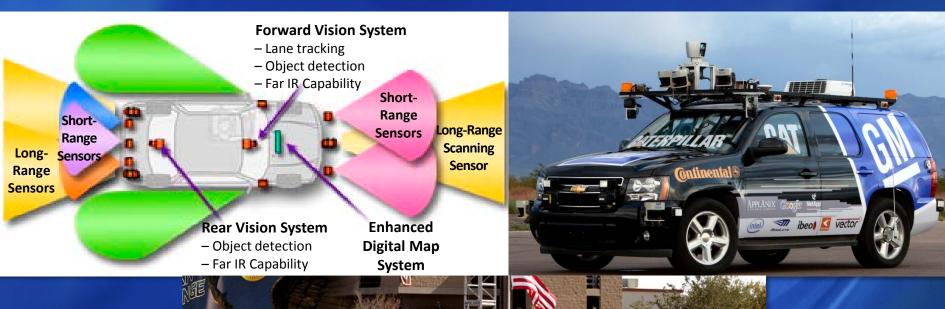
## REINVENTING PERSONAL URBAN MOBILITY: EN-V (ELECTRIC, NETWORKED VEHICLE)



http://www.youtube.com/user/generalmotorsenv

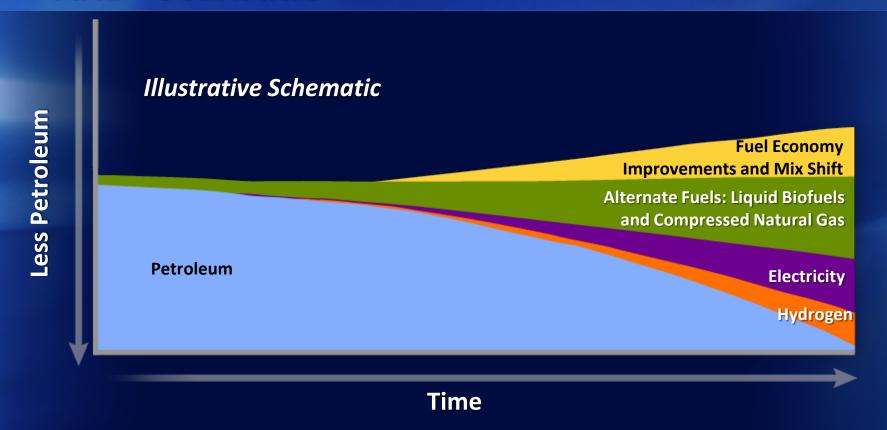
### "BOSS" WINS DARPA URBAN CHALLENGE (Nov 2007)!

A self-driving Chevrolet Tahoe wins the 6 hour, 60 mile race



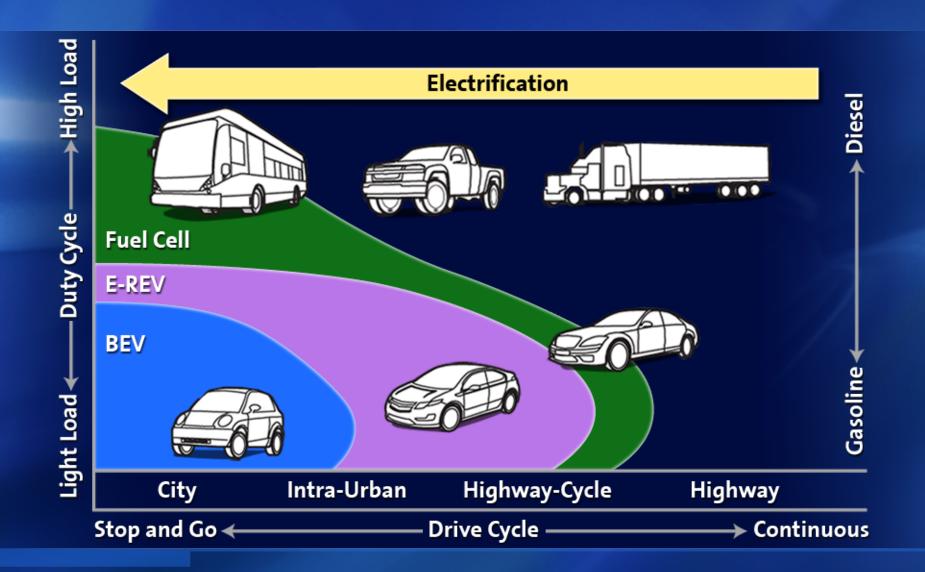


# PETROLEUM DISPLACEMENT "AND" SCENARIO



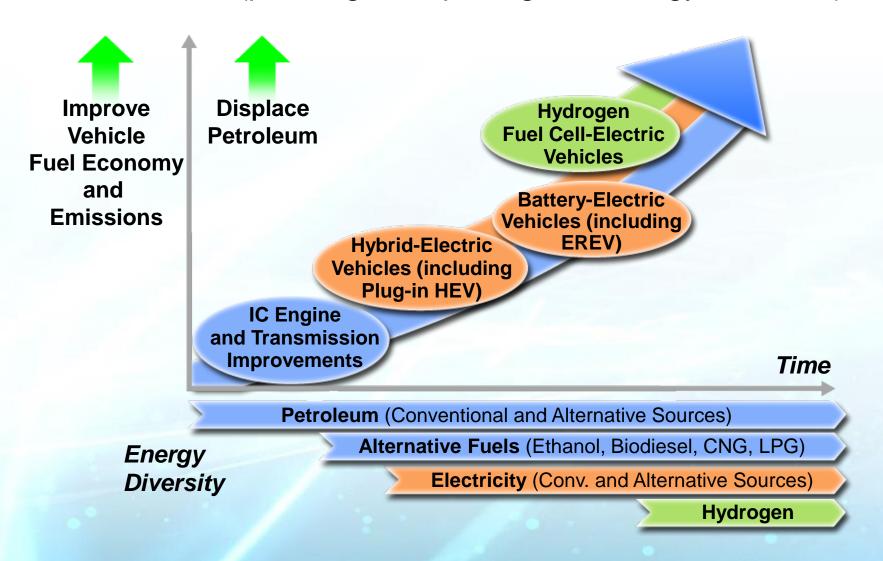
Start soon with early options; finish with strongest long-term portfolio

### **VEHICLE APPLICATION MAP**



#### **GM Advanced Propulsion Technology Strategy**

No silver bullets (pending a surprising technology "miracle")





### **Chevrolet Volt**

An Electric Vehicle (with an extended range capability)



Designed for 40 miles

**BATTERY** 

**Electric Drive** 

(typically 25-50 mile EV range)

Designed for over 300 miles

**EXTENDED RANGE** 

Driving on Gasoline

New EPA label: EV @ 93mpg (35 miles) + Gas @ 37mpg comb (344 miles) = Overall 60mpg (379 miles)

# Chevrolet Volt EREV Consumer Results

~80% of Volt customers are participating in OnStar's vehicle data collection program . . .

- Median Volt driver is achieving 66% electric miles
- Median Volt driver is getting almost 1,000 miles per tank of gasoline (9 gallon tank)

### Cars are parked at Home. Or at Work.

