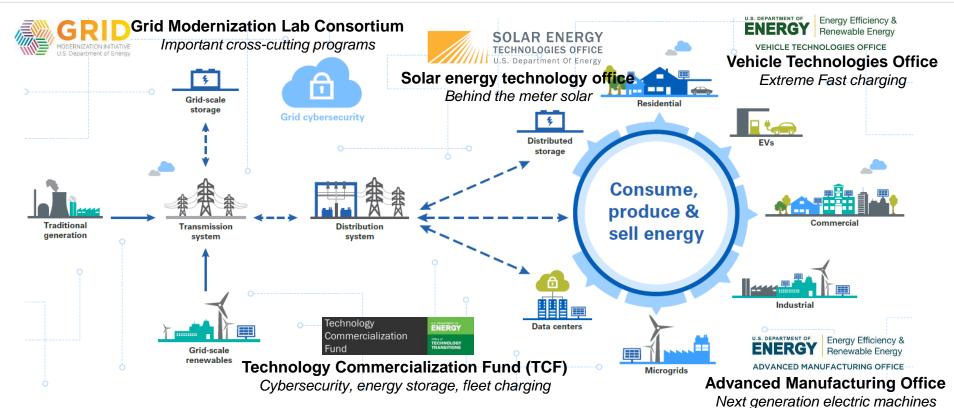


## Eaton is investing to drive innovation

- Intelligent, connected and autonomous
- Electrification and blended power
- Resilient, safe and efficient power distribution
- Additive manufacturing



# EERE is making important investments that broadly create energy efficiency and jobs

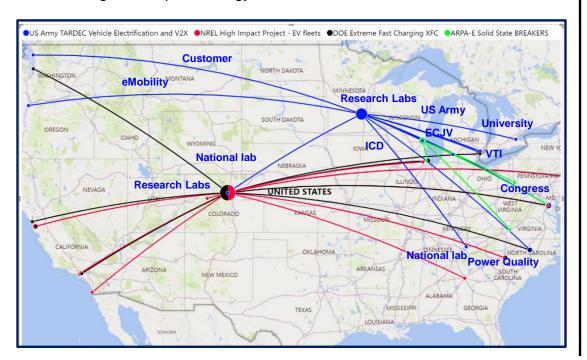




# Dept of Energy EERE enables unique partnerships This collaboration only occurs on government programs

### Partnership flow map for four different government programs

Partnering with Dept of Energy, customers, universities and national labs.



### **Partnering on DOE Solar program**

Maximizing use of behind the meter solar energy











### Partnering on joint DOD/ DOD program

Solving challenges in vehicle electrification for commercial and military applications



Energy Efficiency & Renewable Energy

VEHICLE TECHNOLOGIES OFFICE













## **EERE** and Eaton Vehicle Group impact

Simultaneous efficiency and low emissions for commercial vehicles





### **EV** transmissions for MD/HD

50% EV powertrain weight reduction 70% electric motor reduction 20% increased EV range

**High Voltage Flexible Power Distribution** 



### **SUPERTRUCK**

**NREL High Impact Project: Schoolbus Charging** Services



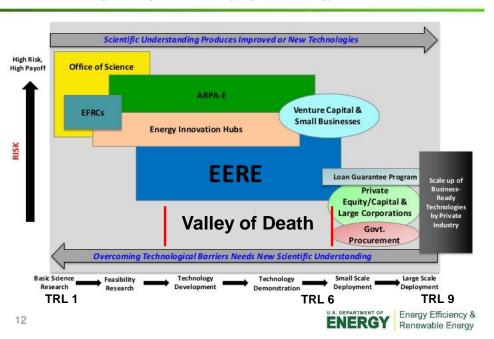


3% fuel reduction 10% lower NOx



### Corporations rely on DOE to help mitigate risks Fill knowledge and funding gaps through TRL6 demonstration

#### EERE Guiding Principles: Leveraging Technology Investments



- Asset-heavy energy technology companies focus RDT&E investment on commercialization TRL 7-9.
- EERE and OE currently address the "valley of death" in TRL 4-6 and "pull" technology into mature industries.
- Customers in energy technologies (grid, vehicles) require real-world demonstration before making investments & commitments.
- Commercial firms create partnerships through DOE that would otherwise not occur to explore high risk areas and demo new technologies.
- EERE/OE and ARPA-E are fundamental to research and commercialization of technology.

From DOE 2013 EERE Congressional Budget Request, Henry Kelly, Feb 14, 2012

