Committed to Excellence
Dual-Needs Focus

Military Needs

Industry Needs

Cooperative Agreements

Common Specifications

Collaborative Environment

Dual-Use

Committed to Excellence
Committed to Excellence

Trucks are Vital to the Army and to the Country

Trucks Provide the Logistical Backbone to the Army

Trucks Account for Over 75% of the Nation’s Freight Business

Fuel constitutes 70% of bulk tonnage needed to sustain a military force on the battlefield. This equates to about 600,000 gallons per day. -Fuel Efficient AAN Task Force

Light, Medium, and Heavy Trucks burn more fuel than cars

Army After Next Goal:

“...75% Reduction in Fuel Requirements for a Deployed Force...”

23 May, 2000

Committed to Excellence
Technology Areas

Alternate Fuels
- Bio Diesels
- Near Zero Sulfur Fuels
- Synthetic Diesels
- Fischer Tropsch

Advanced Propulsion
- Hybrid Electric Drives
- Fuel Cells
- Diesel Fuel Reformers
- CVT

Reduced Parasitic Losses
- Reduced Rolling Resistance
- Aerodynamic Add-On Devices
- Reduced Parasitic Drag

Vehicle Intelligence
- Collision Avoidance
- Adaptive Cruise Control
- Heads-Up Display
- Global Positioning
- ITS

Advanced Materials
- Ultralight Steel
- Aluminum
- Metal Matrix Composites
The National Automotive Center
Presents……

The announcement of the
21st Century Truck Initiative
Hybrid Technology

Why We Should Hybridize

- Fuel economy and emission
- More Mobile
  - Safety: Electronic traction control, anti-skid, anti-yaw
  - Maneuverability: Pivot and differential steering
  - More starting torque and acceleration
- Mobile power: The truck is a generator
- Stealthy all-electric operation
- Better vehicle design
  - Eliminate axles and driveshafts for lower profile, lower weight and greater cargo volume.
  - Improved reliability and reduced brake wear
  - Lighter engines -- generators reduce torque needs