Battlespace Dominance Through Capability Overmatch

Presentation to Automotive Research Center Conference 2000

The Honorable Paul J. Hoeper
Assistant Secretary of the Army
(Acquisition, Logistics and Technology)

May 23, 2000
Responsive, Deployable, Agile, Versatile, Lethal, Survivable and Sustainable
21st Century Truck Initiative

Government Agencies and Industry collaborating to improve fuel efficiency, reduce emissions, increase safety, and reduce the cost of ownership for the nation’s commercial and military trucks.
An Efficient Future

Today

- The Path to Fuel Efficiency
  - Advanced Diesel Engine
    - Propulsion Technologies
      - Reduces demand for Fuel While Decreasing Emissions
  - Hybrid-Electric Engine
    - Mission Planning
      - Efficient use of fuel
  - Fuel Cell
    - 8 mpg

The Future

- 36 mpg
  - The Future
Simulation is Survival
SMART - Simulation at Engineering Level

3-Dimensional Models

Wargame Simulations

CAD/CAM

MANPRINT
Simulation Options: FCS

- **Choose Your Armament**
  - Kinetic Energy Missile
  - Common Missile
  - Gun, 105mm

- **Choose Your Power Plant**
  - Advanced Diesel
  - Gas-Electric Hybrid
  - Fuel Cell

- **Choose Your Traction Type**
  - Wheeled
  - Tracked
Simulation Options: FCS

- **Choose Your Armament**
  - Kinetic Energy Missile
  - Common Missile
  - Gun, 105mm

- **Choose Your Power Plant**
  - Advanced Diesel
  - Gas-Electric Hybrid
  - Fuel Cell

- **Choose Your Traction Type**
  - Wheeled
  - Tracked
Technology Before Simulation

These Technologies Needed A Strategy!
Opportunity for Practical Application of Indirect Fire “System”

Advanced Technologies Waiting for “Deliberate Process of Cooperation” to Achieve Synergism

Signal Towers

Observation Balloon

Telegraph Station Tent

Rifled Artillery
Increased Range
(Indirect Fire Capability)
A Look to the Future