Welcome Mr. Steve Quinn, Chief-Land Operations Division, Australia DOD
To Ground Vehicle Power and Mobility
12 May 2011
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Jarrod Hoose

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GVPM Overview
12 May 2011
Mr. Mike Blain, Deputy Associate Director
Ground Vehicle Power & Mobility (GVPM)
Vision: GVPM will be the DoD’s first choice for ground systems power and mobility solutions

Mission: Research, develop and deliver ground systems power and mobility technology solutions to the current and future force
Increasing demands, operational flexibility, and inter-relationships
Requires a Systems Engineering approach and investments in key technology areas

Organized to Deliver the Right Technologies
for Ground Vehicle Challenges

Powertrain
Thermal Management
Non-Prime Power
Energy Storage
Track & Suspension
Advanced Propulsion

Systems Level Analysis, Integration and Testing
Future Force Capabilities
Efficient Power & Mobility Technologies

- High temperature or oil cooled engine operation
- Novel heat exchange recovery methods
- Electrified Accessories
- Efficient Powertrain Technologies
- Engine Based APU
- Next Generation Combat Engine
- Power Generation Cooling
- Advanced Turbocharging, Supercharging, OPOC

- Infinitely Variable Transmission
- Energy Harvesting
- SiC Electronics
- 32-Speed Binary Logic Transmission
- High Performance Lightweight Track
- Semi-active Suspension

- Driver Assist Technologies
- Novel Track Material
- Electronic Stability Control
- Elastomer Improvement Program
- High Power Fuel Cell System
- EM Armor Power Brick

- Advanced Running Gear
- High Power Fuel Cell System
- Integrated Starter Generator
- JP-8 Reformation Improvements
- Lithium-Ion Battery Packs
- Fuel Cell APU System w/JP-8

- Advanced Chemistry Batteries
- Engine Based APU
- Electric Accessories
- Energy Harvesting
- High Power Fuel Cell System

- Near Term 2012
- Mid Term 2017
- Far Term 2027

Increase Prime Power
Reduce Fuel Consumption
Increase Vehicle Agility
Increase Electrical Power

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Enabling Warfighter Capability Through Technology Development & Integration

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TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.
It's all about...Supporting the Warfighter

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