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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The original document contains color images.
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

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

Systems Level Analysis, Integration and Testing
Capability Based Technology Strategy

Future Force Capabilities
Efficient Power & Mobility Technologies

- High temperature or oil cooled engine operation
- Infinitely Variable Transmission
- Driver Assist Technologies
- High Power Fuel Cell System
- Advanced Chemistry Batteries
- Electrified Accessories
- Energy Harvesting
- Novel Track Material
- EM Armor Power Brick
- High-power Engine Based APU
- Fuel Cell APU System w/JP-8
- JP-8 Reformation Improvements
- Integrated Starter Generator
- Lithium-Ion Battery Packs
- Next Generation Combat Engine
- 32-Speed Binary Logic Transmission
- Advanced Turbocharging, Supercharging, OPOC
- High Performance Lightweight Track
- Semi-active Suspension
- Advanced Running Gear
- Elastomer Improvement Program
- Electronic Stability Control
- Engine Based APU
- Efficient Powertrain Technologies
- SiC Electronics
- Power Generation Cooling
- Advanced Radiator Development
- Militarization of COTS Engines
- Next Term 2027
- Near Term 2012
- Mid Term 2017
- 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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It's all about...Supporting the Warfighter