TARDEC Ground Vehicle Power and Mobility
Strategic Planning FY08

Task N.0491

NDCEE Program Review
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**Report Documentation Page**

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P&E Strategy Objectives

- Develop an integrated strategy to meet the power and energy requirements of current and future modular force.
- Allows science and technology investments to be prioritized and focused on products that can transition.
- Allows program managers to plan and resource for technology insertion.
- Allows the development of the required people, tools, and facilities.
Project Background

- Provide a framework and formalized process for strategic planning.
  - Conduct initially at the Directorate level and transition to the broader TARDEC level.
  - Create a management tool to provide an actionable plan with focused P&E technology development efforts.
  - Assess and adjust the organization’s direction in response to a changing environment.
Successes and Benefits

- TARDEC is the Army’s developer for advanced military ground vehicles and automotive technology. TARDEC advances state-of-the-art technology—making sure the Warfighter receives the best mobile and survivable equipment.

- This task helps to:
  - Provide alignment with the overall Army plan for transformation
  - Enable TARDEC staff to link their work with PEO/PM needs in an effective manner and provide benefit to the Warfighter while meeting the constraints of budget and schedule.
Technical Approach

- Baseline: TARDEC-Derived Capability Needs / Current Technology Development
- Establish WGs: Stakeholder Input - Traceability
- TARDEC Functional Decomposition
- TARDEC P&E Strategy
- Review TARDEC Baseline Documents
- Compile Capability Needs / Metric Milestones
- Validate Capability Needs / Metric Milestones
- Prioritize Capability Needs / Metric Milestones
- Identify Potential Technology Solutions
- Collect Stakeholder Input
- Establish WG(s)
- Build Technology Roadmaps
- Integrated Continuous Process
- Establish Technology Insertion Points
- Integrate Acquisition Cycle
- Focused R&D Efforts, TTPs, TTPs
- PM Staff
- User (TRADOC)
- Sustainer (future)
- OEM (future)
- Process
- Technology
- Capability
- Acquisition
Accomplishments and Results

- Established working level relationships with PEO/PMs in the form of Working Groups.
- Developed Roadmap Architecture that will provide a holistic approach in planning and developing the technical goals necessary to meet the customer (PEO/PM) needs.
Roadmap Architecture

Technology Road Mapping Example
Three sections to the road map...
Roadmap Architecture

Three sections to the road map...

1. Capability
Roadmap Architecture

Three sections to the road map...

1. Capability
2. Acquisition
Roadmap Architecture

Three sections to the road map...

1. Capability
2. Acquisition
3. Technology
Technology projects are catalogued per the WBS of the P&E Decomposition.
Roadmap Architecture

Program Performance Goals
Technology projects are linked to the requirements (ORDs, CDDs)
Roadmap Architecture

Requirements

Goal Alignment & Technology Transition

Deliverables
Path Forward

n The data collection process will continue to be refined between TARDEC and TACOM and eventually formalized.

n The roadmap architecture developed in Vision Strategist will continue to be updated to meet the needs of TARDEC and TACOM.

n The overall goal will be to transition the relational database to a TARDEC server to be maintained on-site.
Project Stakeholders

- The U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC)
- TACOM LCMC
- PM Heavy Brigade Combat Team (HBCT)
  - Abrams Modernization Program
  - Bradley Modernization Program
  - Stryker Brigade Combat Team (SBCT)
- PM Future Combat System Manned Ground Vehicles (FCS MGV)
- PM Ground Combat Systems
- PM Joint Light Tactical Vehicles (JLTV)
Contact Information

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