



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

TARDEC RDT&E Overview

CW3 Jason A Greeger
TARDEC Military Advisor
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- **Volume of Reset/RECAP Programs**
- **Funding Challenges**
- **Corrosion Prevention**
- **Fluctuating fleet management Strategies**
- **ARFORGEN Timing/alignment**
- **Sustainment Challenges**
- **Workforce challenges = Mission versus Experience and Depth**



TARDEC develops, integrates, and sustains the right technology solutions for all manned and unmanned DOD ground systems and combat support systems to improve Current Force effectiveness and provide superior capabilities for the Future Force.

Accomplished by

- **Leading Systems Integration excellence across the Life Cycle**
- **Continuous pursuit of innovation in our technology focus areas**
- **Living our core and enterprise values**

TARDEC - Responsible for Research, Development and Engineering Support to **2,800** Army systems and many of the Army's and DOD's top joint warfighter development programs.



Ground Vehicle Power & Mobility

- Prime Power (Engines, Drive Train,)
- Track & Suspension
- Non Primary Power
 - Energy Storage
- Power & Thermal Mgmt.
- Alternative Energy



Ground Systems Survivability

- Active Defense
- Signature Management
- Laser Vision Protection
- Ballistic Protection
- Crew Survivability



Force Projection Technology

- Water Generation, Purification, Storage, Distribution & Quality Surveillance (QS)
- Petroleum Storage, Distribution & QS
 - Material Handling Equipment
- Petroleum, Oils & Lubricants Technology
 - Mechanical Countermine Equipment
 - Tactical Bridging



Intelligent Ground Systems

- Unmanned Systems Safe Operations Technologies
 - Indirect Vision Technologies
- Unmanned Systems Technology Development
- 360° Situational Awareness Technologies
 - Soldier Machine Interfaces

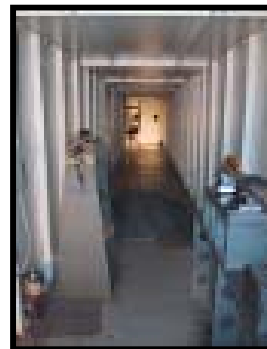


Vehicle Electronics & Architecture

- Electronics Integration
 - Data Architecture
- Condition-Based Maintenance (CBM+)
- Power Architecture/Management



- High Performance Computing
- Propulsion Laboratory (Air Flow, Battery Testing)
- Power & Energy Systems Integration Lab
- Future Combat Systems Structural Material Development and Testing
- Water Quality and Water Test Cell Laboratories
- Engine/Transmission Test Cell
- Stryker Systems Integration Lab
- Ballistics Range
- Drop Tower
- Motion Base Technologies



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

- **TARDEC's priority – Support the Fight!**
- **Our Mission is to be the full Life-Cycle engineering support & provider-of-first-choice for all DoD ground combat & ground combat support weapons & vehicle systems – today & tomorrow.**
- **Continue fostering relationships with the TACOM-LCMC, Industry & Academia.**

