



PM Force Projection



Mr. Kyle Bruner
Project Manager

PM Force Projection Leadership Team



- MILITARY
- CIVILIAN
- ARRIVAL
- PROJECTED DEPARTURE



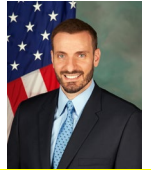
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FY22 FY25



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PM Force Projection Portfolio



BRIDGING



Assault Bridging



Tactical Bridging



ENGINEER, MAINTENANCE AND SUPPORT EQUIPMENT



Blade



Bucket



Diving, Boat, and Motors



Ordnance



Lift



PETROLEUM AND WATER SYSTEMS



Fuel Systems



Water Systems



TEST, MEASUREMENT & DIAGNOSTIC EQUIPMENT



At Platform Automatic Test Systems



Test Equipment Modernization



Calibration Sets



Off Platform Automatic Test Systems



ROBOTIC AND AUTONOMOUS SYSTEMS



Small – Multipurpose Equipment Transport



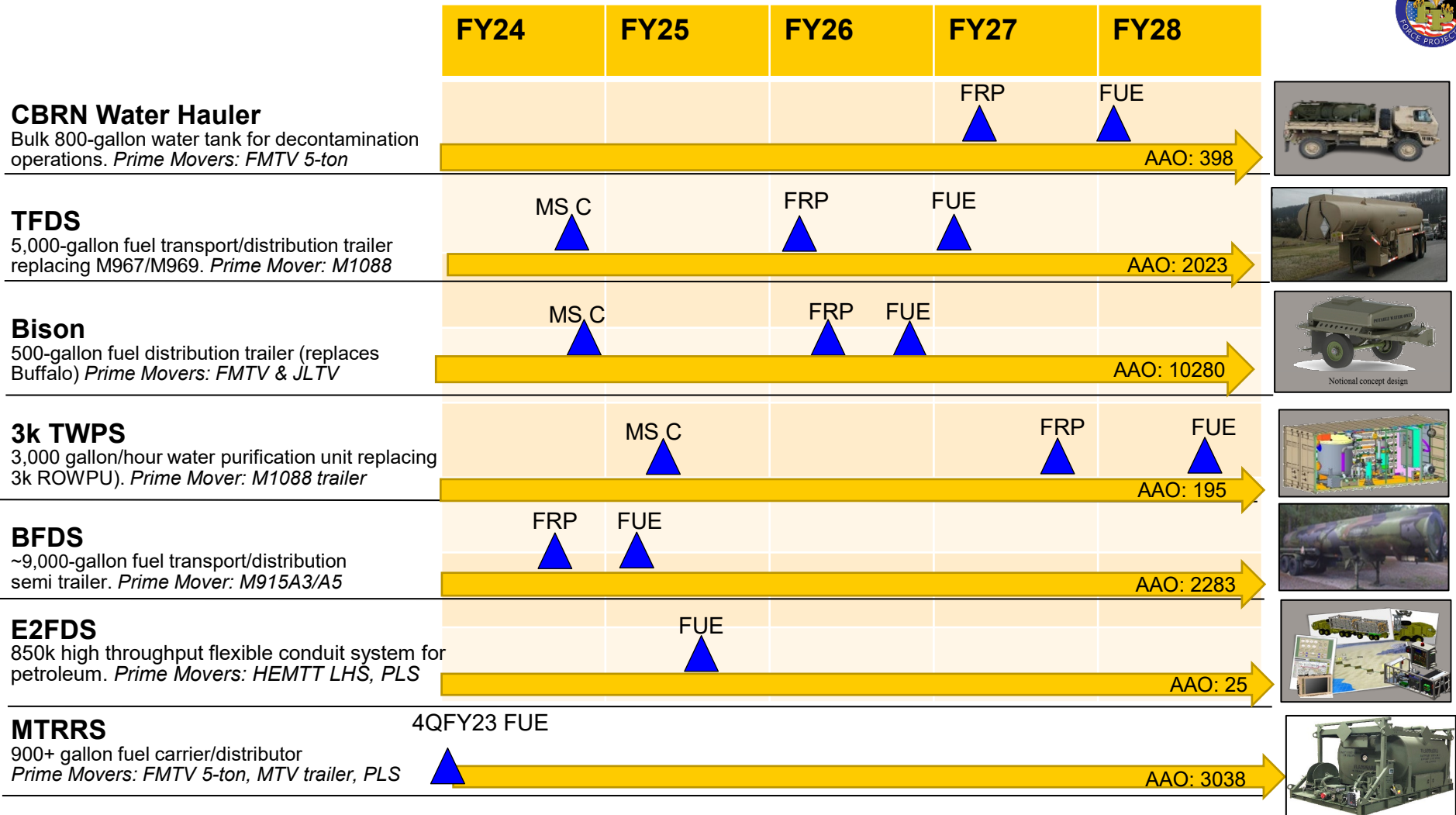
Autonomous Transport Vehicle



Unmanned Ground Vehicle Systems



PM FP Petroleum and Water Systems Programs of Interest



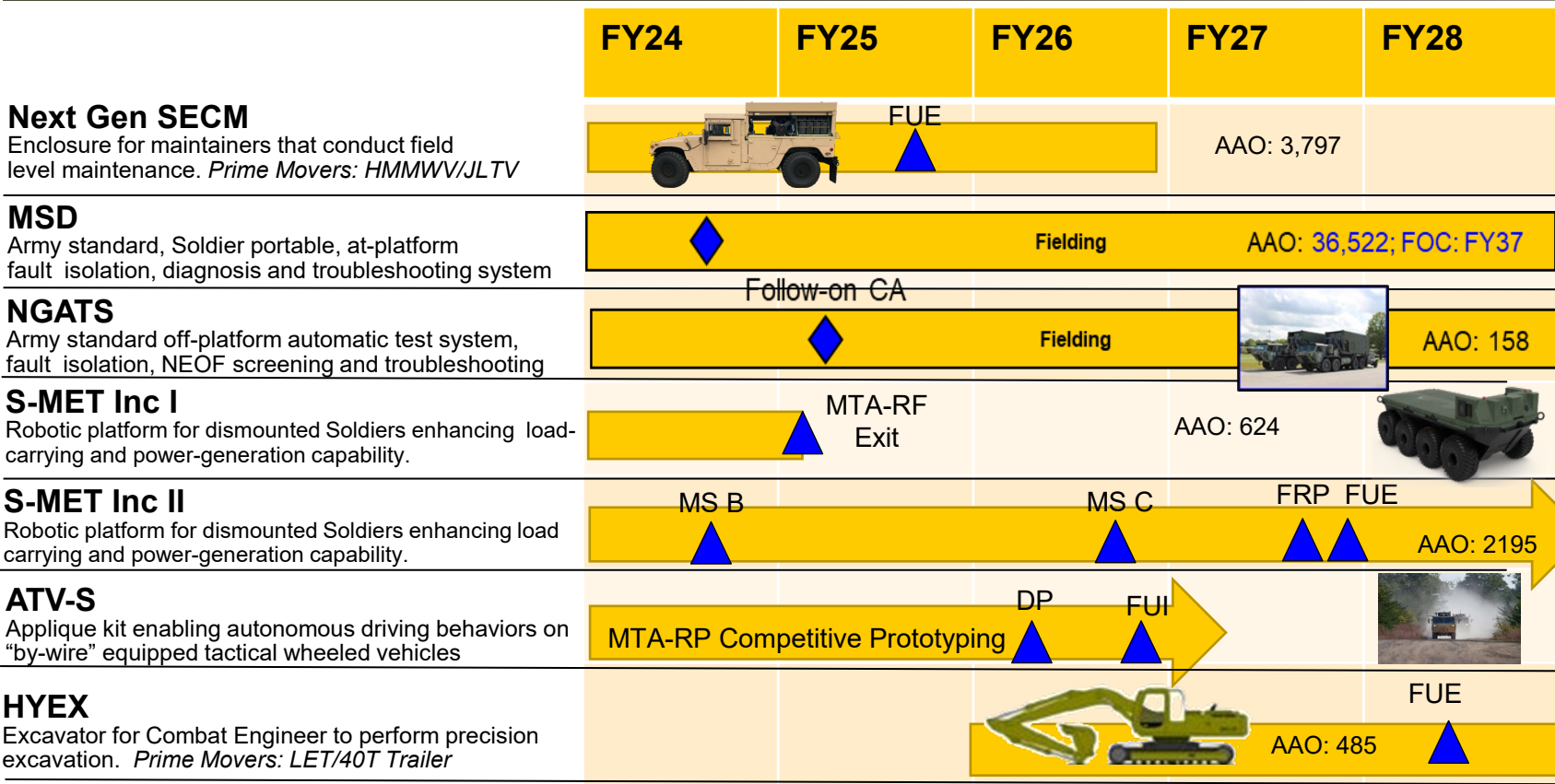
ACRONYMS

- AAO:** Army Acquisition Objective
- BFDS:** Bulk Fuel Distribution System
- MTRRS:** Mobile Tactical Retail Refueling System
- TWPS:** Tactical Water Purification System


- CBRN Water Hauler:** Chemical Biological Radiological Nuclear Water Hauler
- E2FDS:** Early Entry Fluid Distribution System
- TFDS:** Tactical Fuel Distribution System



PM FP Other Programs of Interest



Potential New Requirements

- 
Medium Assault Bridge (MAB) – Assault launcher vehicle and bridge supporting Infantry and Stryker Brigade Combat Teams
- Dismounted Unit Soldier Transport (DUST)** - Robotic wheel-barrow/trailer with 500lb capacity. Lightweight system that allows leaders at platoon-level to reduce Soldier load.
- Hydraulic Excavator (HYEX)** – Excavator for Combat Engineers to perform precision excavation

ACRONYMS
 AAO: Army Acquisition Objective
 ATV-S: Autonomous Transport Vehicle - System
 DP: Decision Point
 FUI: First Unit Issued
 MTA-RP: Middle Tier of Acquisition- Rapid Prototyping
 SECM: Shop Equipment Contact Maintenance
 S-MET: Small Multipurpose Equipment Transport





Autonomous Transport Vehicle System (ATV-S)- Initiated Competitive Rapid Prototyping –Target Fielding FY26

- The ATV-S capability is a suite of robotic applique sensors, controllers and autonomy software that provide manned and unmanned teaming capability for convoy operations.
- ATV-S provides increased force protection and increased logistics throughput for convoy missions. ATV-S equipped Palletized Load System (PLS) Tactical Wheeled Vehicles (TWVs) will allow a single Soldier to lead a convoy of four wirelessly linked unmanned PLS TWVs reducing Soldier exposure to hostile threats while increasing transportation throughput.

Small Multipurpose Equipment Transport Increment I, (S-MET Inc I) – Fielding ongoing into FY25

- The S-MET is a robotic platform that provides a capability which reduces physical burdens to carry payload in anticipated terrains and environments while simultaneously providing power generation needed for extended mission durations.
- S-MET Inc I provides small units with a remote-controlled cargo/equipment transport and limited tactical resupply capability, reducing the Soldiers individually carried load.



S-MET Inc II – Initiated Solicitation for Prototypes

- The S-MET Inc II will meet enhanced capability over S-MET Inc I requirements for kinetic, cyber and electromagnetic survivability, and new requirements for open payload architecture, Modular Mission Payloads, and increased reliability.



Questions



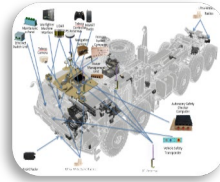
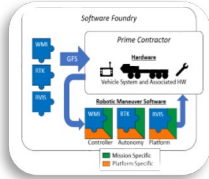
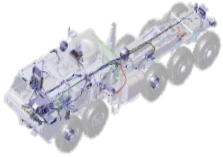


Back-up



ATV-S Program Update

Overview



Software

Hardware

By-Wire Active Safety Kit (BWAS)

Autonomous Transport Vehicle-System (ATV-S) provides autonomous driving capability to “by wire” equipped Tactical Wheel Vehicles. ATV-S reduces the number of operators required to perform convoy missions reducing Soldier exposure to hostile threats while allowing greater throughput by breaking the operator rest cycle constraint.

KEY EVENTS

Recent Events

Dec 23 – Other Transaction Authority Agreements awarded to three contractors:

- Carnegie Robotics
- Neya Systems
- RRAI

Upcoming Events

1QFY25 – Complete Phase 1 – Prototype demonstration and evaluation, and transition to Phase 2 – Performance Testing and Operational Demonstration

Program Strategy & Considerations

- Initial target platform: Palletized Load System trucks equipped with By Wire controls
- Incremental approach toward long term full autonomy



Rapid Prototyping Effort

Phase 1: Demo and Eval

Build and integrate demonstration assets for Government evaluation

Phase 2: Test and OpsDemo

Select two vendors to continue into performance test and Operational Demonstration to support Government evaluation

Phase 3: First Unit Issued

Select one contractor to build Transportation Company quantity of prototypes

Maintenance Support Device (MSD)

- MSD is a commercial computer that comes in a "ruggedized" laptop configuration for field use and a tablet for use in shelters.
- MSD is used with the Wireless At-Platform Test Set (WATS), MIL-STD-1553 Data bus & and other peripheral devices for:
 - At-Platform Troubleshooting and diagnostics across the Army aviation and 250,000 ground vehicles
 - Updating software for selected platforms including the Abrams Tank and Bradley Fighting Vehicle
 - Hosting maintainers' digital technical manuals

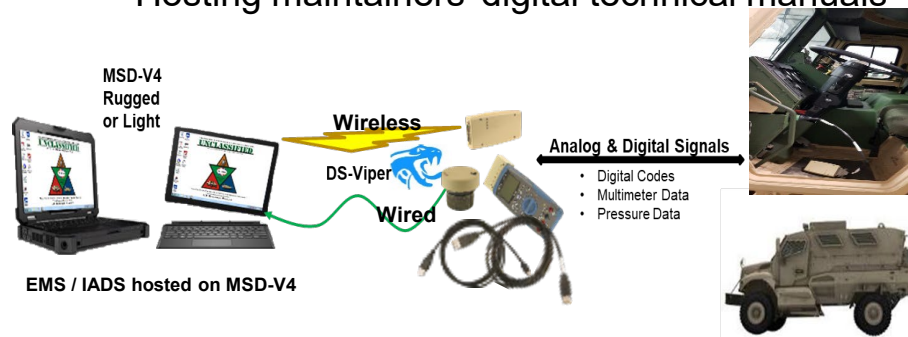


Performs quick diagnoses and fault isolation on the Army's fleet of Electronic, Tactical Wheeled, Armored Fighting, and Aviation weapon systems

Used by maintenance sections/teams with the following MOS:
 94D, 94E, 94F, 94R, 94Y, 15B, 15D, 15E, 15F, 15G, 15N, 15R, 15T, 15U, 15Y, 88L, 91A, 91B, 91C, 91D, 91F, 91H, 91J, 91L, 91M, 91P, 91S, 94A, 94M, 94P, 94S, 94T

Supports more than 50 Weapon Systems & 30 Maintainer MOSs

- MSD & DS Viper will play key role in realizing Army Predictive Logistics in Contested Environments
- Vehicle Data Source Collector (DSC) based on WATS design under Army evaluation



EMS / IADS hosted on MSD-V4

MSD & WATS collect data from TWVs for use in data analytics & fleet management