



Robotics for Logistics



DESCRIPTION

ICW CASCOM and other stakeholders, conduct analysis and exploration with ground robotics capabilities to improve logistics speed, minimize exposure to dangerous operations, and support future unmanned capabilities per ACP requirement. Current focus is on material handling capabilities. Successfully demonstrated an initial unmanned robotic forklift that can operate in an unstructured military environment and interact with humans in a natural way using voice, gesture and other multimodal command capabilities. Currently working to mature MHE capabilities and support tactical wheeled vehicle JCTD proposal development.

Stakeholders (T): ARL, DDRE, CASCOM, RS JPO, TARDEC, ARDEC, JGRE, and PMs

MILESTONES

- ✓ Robotics Strategic Assessment White Paper Aug 06
- ✓ Robotics White Paper Experiment Oct 07
- ✓ TRADOC/TARDEC Robotics White Paper Mar 09
- ✓ Agile Robotics Year 1 Demo Jun 09
- ✓ Draft Unmanned Systems ICD May 10
- ✓ Agile Robotics Capability Year 2 Demo Jun 10
- ✓ Business Case Analysis for Robotic Forklifts Jul 10
- ✓ Agile Robotics Security CONOPS May 11
- ✓ AMAS JCTD Candidate Review Board Aug 11
- ❑ Joint Ground Robotics Integration Team Plan Sep 11
- ❑ Appliqué Kit Specification Oct 11
- ❑ Integration into Requirements Dec 11

PROJECT STATUS

- ❑ Efforts to Date:
 - Analysis, development and demonstration of advanced robotics capabilities for logistics
 - Development of plans, white papers, roadmaps and participation in robotics COI working groups
- ❑ Current Efforts:
 - Working with OSD and other Stakeholders to gain resources to allow for refinement of logistics robotics capabilities, demonstration and validation
 - Working robotics requirements and participating in ground robotics working groups and ground robotics campaign plan development
- ❑ Next Action / Date: Work follow-on funding actions