



US Army Aviation and Missile Research, Development, and Engineering Center

Joint Multi-Role Tech Demo (JMR TD)

Purpose: demonstrate transformational vertical lift capabilities to prepare the DoD for decisions regarding the replacement of the current vertical lift fleet.

- 6.3 S&T effort, FY11-20
- Army Capability Enabler (ACE)
- Significant investment by industry (i.e., cost share)
- Exit at TRL 5-6

Air Vehicle Demo (AVD)

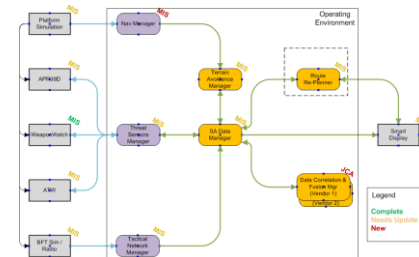
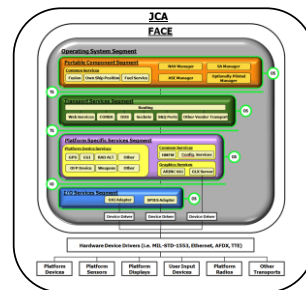
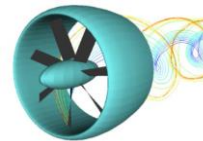
Advanced rotary-wing configurations and enabling technologies are needed to achieve the combination of performance (range, speed, payload, etc) survivability, reliability, and affordability for emerging Future Vertical Lift (FVL) requirements and missions.

- Flight demonstrations of two demonstrator aircraft
- Implementation of new component and manufacturing technologies
- Expanded/improved modeling and simulation capabilities for new rotorcraft configurations

Mission Systems Architecture Demo (MSAD)

Increasingly complex missions systems require advanced tools and techniques to develop and analyze requirements to minimize developmental costs.

- Development and maturation of Joint Common Architecture (JCA) and integration processes and tools
- Future Airborne Capability Environment (FACE™) conformant open system architecture (OSA) definition using JCA
- Architecture Centric Virtual Integration (ACVIP) Modeling/analysis of system architectures using modeling languages (e.g., UML, SysML and AADL) and associated tools



In Partnership with



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