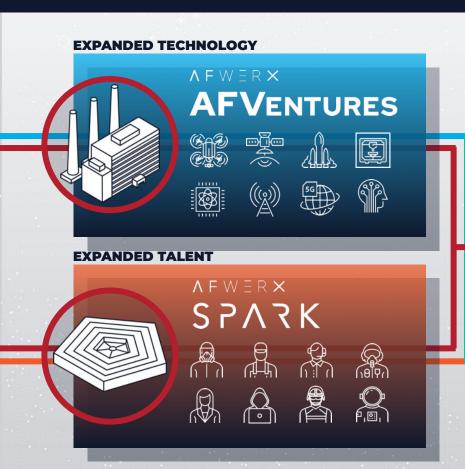


Capability Development with AFWERX







EXPANDED PORTFOLIO OF CAPABILITIES

























AFWERX Prime



PRIME





MISSION AND STRUCTURE

Mission: Expand technology transition paths to accelerate emerging technology markets by leveraging government resources for rapid and affordable fielding, attracting and optimizing external funding and talent

Strategy: Accelerated learning through collaborative risk reduction to rapidly field capability

- Attract the world's greatest talent to solve DAF challenges through collaborative problem curation and solution teaming
- Establish diverse partnerships to identify and accelerate emerging technology sectors

Structure: Diverse Partnerships

- Industry
- Investor
- Interagency
- State and Local
- International
- Laboratory
- Acquisition Community
- Warfighter



Prime key industry tech areas to advance US National Security and economic prosperity

Prime Programs



Current:



Agility



Orbital

Focus:

- Transformative vertical lift
- Hybrid and Electric Vertical Takeoff and Landing (eVTOL) aircraft
- Distributed electric or hybrid propulsion
- Increased autonomy
- Advanced manufacturing
- Agile Combat Employment support

Focus:

- On-Orbit Servicing, Assembly, and Manufacturing (OSAM)
- First use case: Active Debris Removal
- Technology Tracks:
 - Approach
 - Acquisition
 - Servicing

Upcoming Future Programs:



Focus:

- DevSecOps transition pipeline for autonomy capabilities into fielded capabilities
- AFWERX Proving Ground
- Leverage increased industry capes
- Bolster industrial base flight autonomy with commercial funding and interagency collaboration

Future Prime Programs focus efforts on critical tech aligned with bolstering industrial base for key DAF needs and Operational Imperatives including autonomy and integrating across capabilities

Agility Prime Overview

WHY: Global Leadership / Accelerate Fielding of eVTOL

Enable Transformative Logistics Capabilities

Strategic: Zero emission/runway independent aircraft

Process: New transition paths (contracts, certification, budget)

Product: Field operationally relevant logistics capabilities

HOW: Collaborative Risk Reduction

Tech Risk: Opportunities for collaborative test and eval

Regulatory Risk: Early military airworthiness review

Financial Risk: Contracts for testing and early use cases

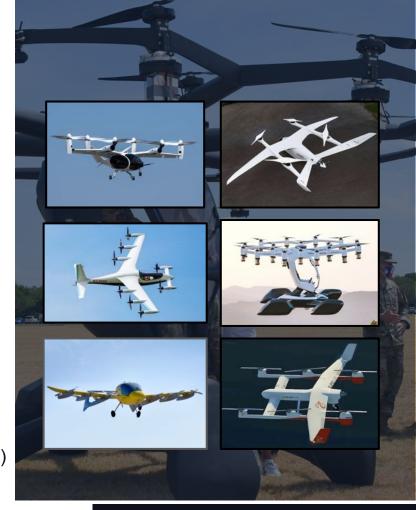
WHAT: "Third Revolution in Aerospace"

Hybrid/Electric Vertical Takeoff and Landing (eVTOL) Aircraft

Electric & Hybrid: Large electric power systems (auto industry)

Autonomy: Al/Autonomy/Simplified Vehicle Operations

Manufacturing: Advanced manufacturing/materials/scale



Agility Prime By The Numbers



















Engagement/Partnerships























Orbital Prime Overview



WHY: Accelerate Fielding of Commercial Dual-Use Space Technology

Strategic: Build OSAM industrial base, demo Active Debris Remediation (ADR)

Process: New transition paths (contracts, commercial space utilization)

Outcome: Inform Space Force buy or build decisions

HOW: Collaborative Risk Reduction

Tech Risk: Synergize existing lab/testing efforts across Gov and Industry

Regulatory Risk: Drive Interagency/Int'l space sustainability policy

Financial Risk: Partner with investors to ensure adequate Due

Diligence, appropriate resourcing, and timely scaling

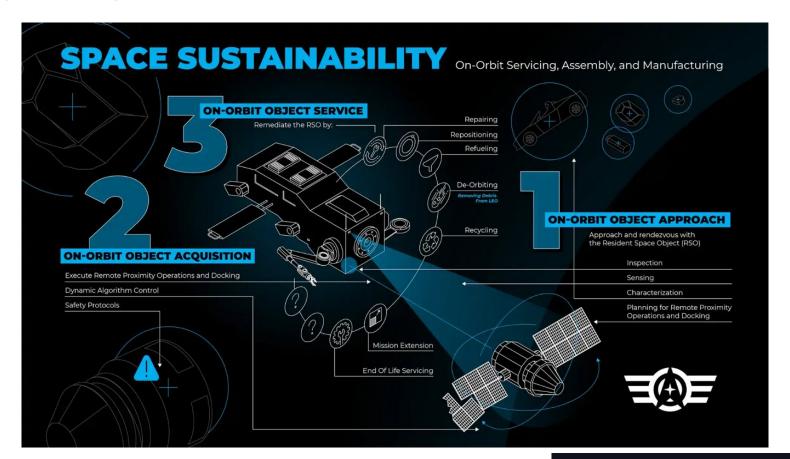
WHAT: On-Orbit Servicing, Assembly, and Manufacturing (OSAM)





Approach and Remote Proximity Operations: Characterization, Approach, Advanced power, Maneuver **Acquisition:** Robotics for capture, control, docking, and associated control algorithms **Service:** Provide end-of-life servicing, missions extension, orbit relocation/de-orbit

Orbital Prime



Get Involved

AFWERX: afwerx.com

Prime Programs: afwerx.com/prime-overview/

Orbital Prime: https://spacewerx.us/space-prime/