



Research and Development ADDITIVE MANUFACTURING (AM)



Program Info

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DLA'S TRANSFORMATION IMPERATIVES



Build Organization Agility Through Our People and Culture

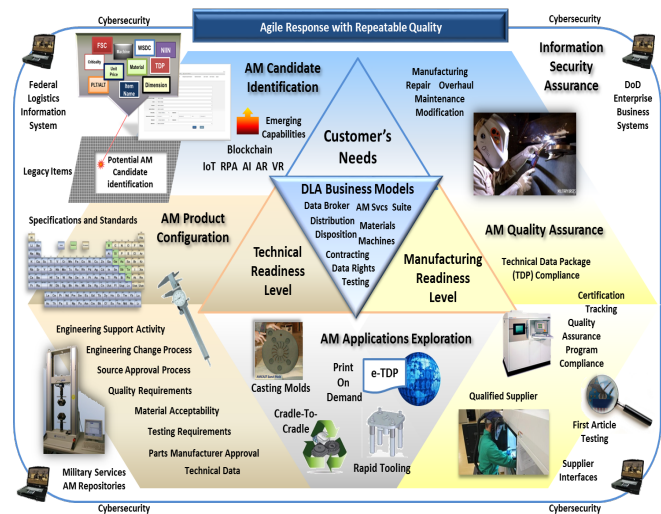
Calibrate Resilient And Responsive Logistics Solutions On Support Of Military Readiness

Enhance Support To Integration Deterrence Across The Continuum Of Conflict In Contested Logistics Environments

Lead Logistics Interoperability Across The Department, Allies, Whole Of Government, And Industrial Base

OBJECTIVE

Leverage our relationship with industry to ensure a robust and capable industrial base, generate innovative and efficient solutions, and maintain a secure and resilient supply chain. In addition, define DLA's strategic role in DoD's evolving Additive Manufacturing (AM) ecosystem and enabling the DLA Business Processes that allow integration of AM parts into DLA's supply chains.



INNOVATION & TECHNOLOGY

Using emerging digital automation tools, DLA can leverage DOD aggregate manufacturing data, known as the 5Ms – manpower, machine, material, methods, and metrics -- with business analytics to deliver the most efficient solution to the point of need.



STRATEGIC THRUSTS



Active support for a highly connected and collaborative defense manufacturing enterprise

Active support for a strong institutional focus on manufacturability and manufacturing process maturity



Research & Development AM



THE CHALLENGE

The challenge is parts obsolescence, legacy weapon systems, and long lead times that have a direct impact on warfighter readiness.



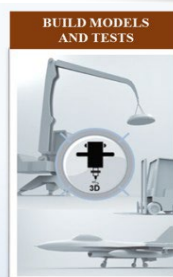
THE SOLUTION

Integrate AM into the supply chain, broker essential AM data for the appropriate DoD organizations and utilize innovative technology to accelerate AM efforts.



Automated Requirements

Automate Requirements Identification driven by the Military Services' mission or by DLA's enterprise data analysis



Iterative Qualifications

Normalize Technical Data Packages for AM 3D models and digital manufacturing data to enable procurement and competition



Authoritative Data

Establish a data sharing capability as prescribed by OSD and in joint fashion with the Military Services, for a secure exchange of data to enable AM procurement



Repeatable Process

Implement contracting procedures that address digital manufacturing requirements & drives AM competition, standardization & quality compliance

WARFIGHTER READINESS

THE BENEFITS

Better equipped, supported and prepared using Additive Manufacturing.

Potential reduction of supply chain vulnerabilities addressing obsolescence.

Potential savings from using digital technologies enhancing coordination and manufacturability of parts.

Use of innovation to improve reverse engineering, repairs, and resilience.

INDUSTRY AND WHOLE OF GOVERNMENT PARTNERSHIPS

- Office of the Secretary of Defense (OSD)
- U.S. Military Services
- DLA Major Subordinate Commands (Land and Maritime, Aviation and Troop Support)
- Government Inter-Agencies
- Industry
- Academia



<https://www.dla.mil/Information-Operations/Research-And-Development/>

ACCOMPLISHMENTS & ONGOING EFFORTS

- ✓ MILSVC, MILDEP, & OSD collaboration to develop JAMA IV IDIQ.
- ✓ DLA L&M Tooling for Testing Prototype Lab development.
- ✓ HYBRID AM vibration suppression technology development using additive manufacturing.
- ✓ Industry's demonstration AM recovery/reuse metal powders 7 cycles reduction of waste & cost.
- ✓ Army C5ISR Universal Spare Parts (Wave-Guide) Reverse engineering capability enhancement.
- ✓ AM FeedStock Sustainability Study developing a Circular Economy.