

#### The Nation's Combat Logistics Support Agency



# **Research & Development** ADDITIVE MANUFACTURING (AM)



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## **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.

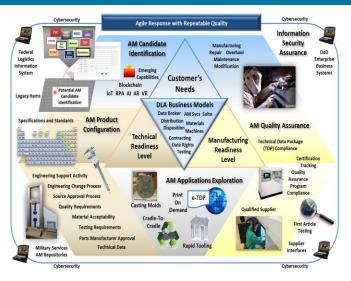
#### **INNOVATION & TECHNOLOGY**

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

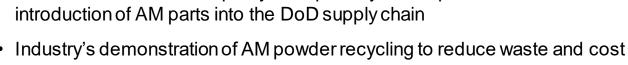






Active support for a strong institutional focus on manufacturability and manufacturing process maturity

## DLA RESEARCH & DEVELOPMENT AM PROGRAM



that support DLA procurement of AM parts

## 🐹 THE CHALLENGE

The challenge is parts obsolescence and long lead times have a direct impact on warfighter readiness.

## X THE SOLUTION

Integrate AM into the supply chain and broker essential AM data for the appropriate DoD organizations.



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

**IDENTIFY AM** 



Iterative Qualifications

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

TECHNICAL DATA

Authoritative Data

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

Repeatable Process

INTEGRATE

w/ SUPPLY CHAIN

## WARFIGHTER READINESS THE BENEFITS

- Potential reduction of wait times, backorders and part obsolesce to improve readiness
- Potential savings from digital technologies enhancing coordination and manufacturability

### INDUSTRY AND WHOLE OF GOVERNMENT PARTNERSHIPS

Office of the Secretary of Defense (OSD)

**ACCOMPLISHMENTS & ONGOING EFFORTS** 

- U.S. Military Services
- DLA Major Subordinate Commands (Land and Maritime, Aviation and Troop Support)
- Industry
- Academia



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



Military Services' common framework for 3D Model Technical Data Packages

Evaluation of innovative quality acceptability techniques to accelerate the