



## Novaindef: *Goal and Mission*

Transform the defense landscape through technological innovation and Providing the armed forces with tools and training to meet the challenges of the 21st century.

## Use Case

**1** Reconstruction of the defective component using reverse engineering. **2** Preform manufacturing with Meltio M600 (DED-L/W). **3** Machining for dimensional tolerances. **4** Inspection, thermal, and surface treatments. **5** Assembly in the corresponding system.

## Network of Advanced Manufacturing Centers



### CEDAEC

Special Application Development and Process Certification Centers for the Military & Defense Sectors

### CESFARE

Centres for Manufacturing and Repairs



**Centro Linares**

Global services



**Maestranza Aérea Albacete**

Air & Space Force



**Base Naval Rota**

Navy



**Base Operativa Córdoba**

Army

## Defence & Space Engineering

3D printing: more than 30 available systems for DED, PBF, Hybrid manufacturing in metal, and FDM, SLS... for polymers.

3D reverse engineering, metrology

Post-processing technologies (electro-polishing, sand-blasting, shot-peening, etc.)

Non destructive testing including computed tomography (dual micro 300KV and macro 450KV tubes, most flexible solution in CT in EU), digital radiography, ultrasonics, etc.

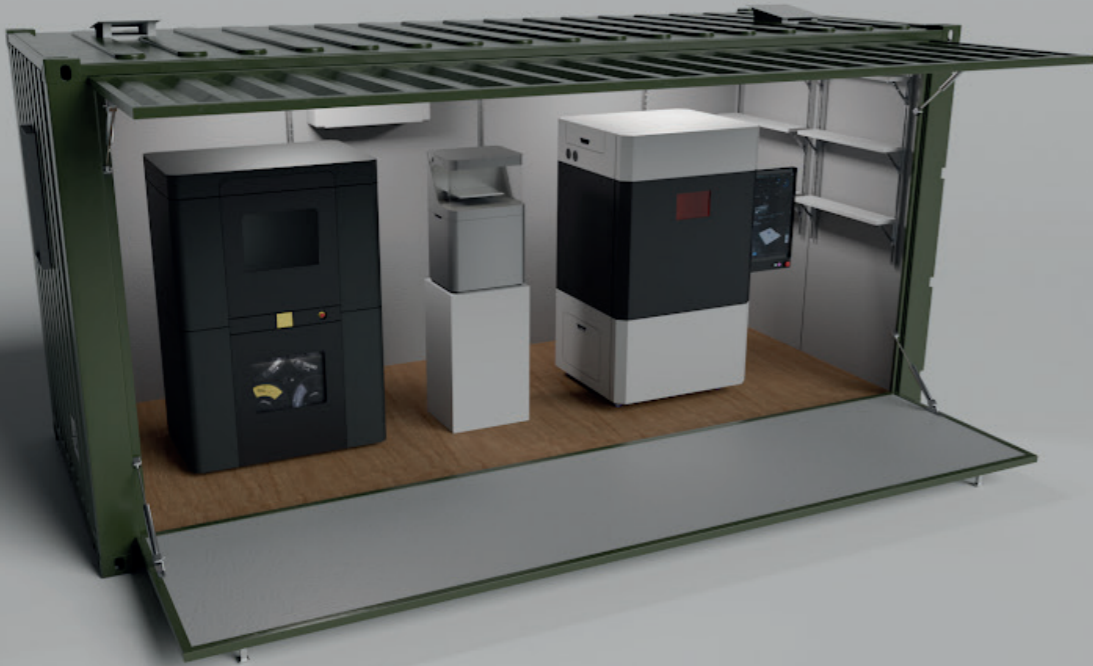
Characterization (metallography, LOM, SEM, etc.) and destructive testing (static, fatigue, KiC, ...)

# Nova M

**The Advanced Manufacturing Solution for Rapid, Battle Damage Repair and On-Demand Manufacturing**

The container is a self-sufficient, high-tech factory designed for manufacturing in remote or challenging locations. Its operation is supported by a digital platform that enables on-site personnel to produce digitized spare parts while maintaining real-time communication with headquarters for operations, redesign, and maintenance.

The system's flexibility is further enhanced by optional modules, such as energy and nitrogen generation units, ensuring full autonomy and eliminating reliance on external logistics. Additional modules can be integrated as needed, making it a scalable and adaptable manufacturing solution.



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Space Engineering

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