

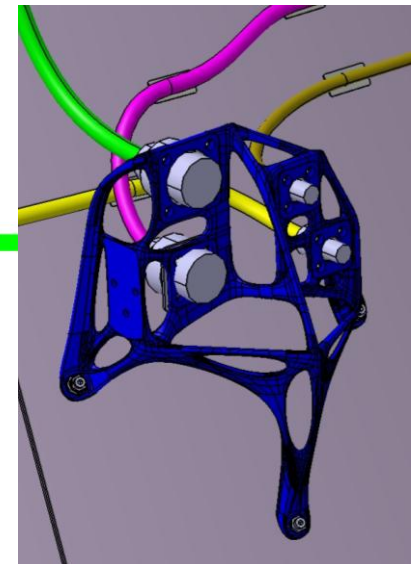
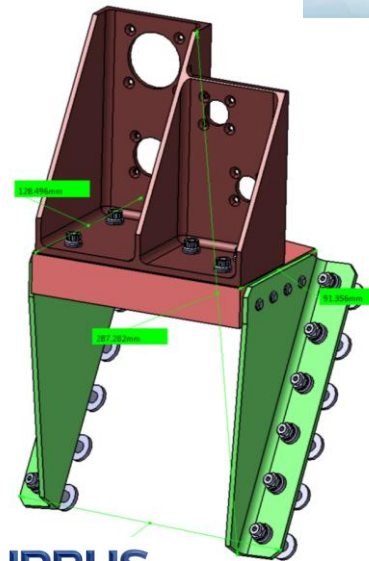


ADDITIVE MANUFACTURING: REAL OPORTUNITY FOR BETTER PRODUCTS

PYMES MATERPLAT - PAE
Marta García-Cosío
Madrid, 9th April2018

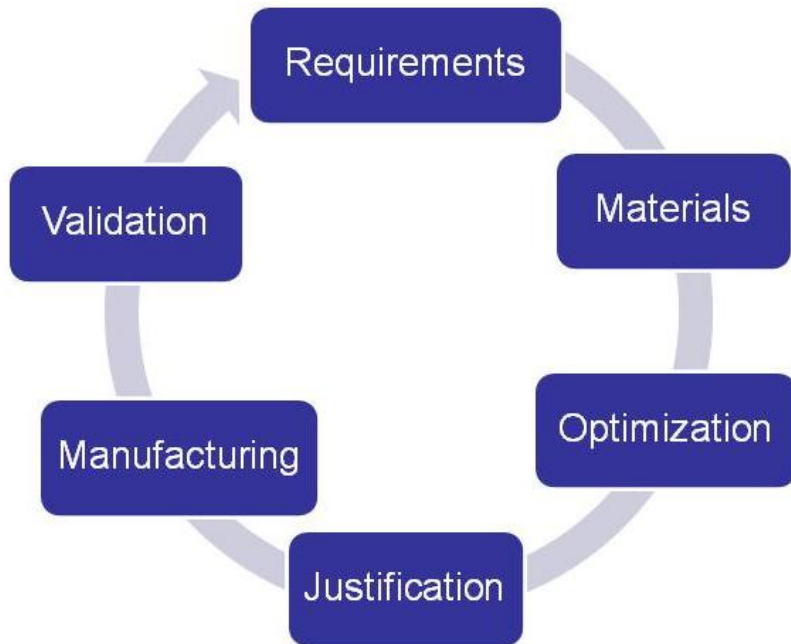
ADDITIVE MANUFACTURING LOOKING FOR BETTER PRODUCTS

- Personalized products
- Mass saving
- Reduce big assemblies
- Better & special performances
- Avoid long delivery dates
- Spares
- Tooling

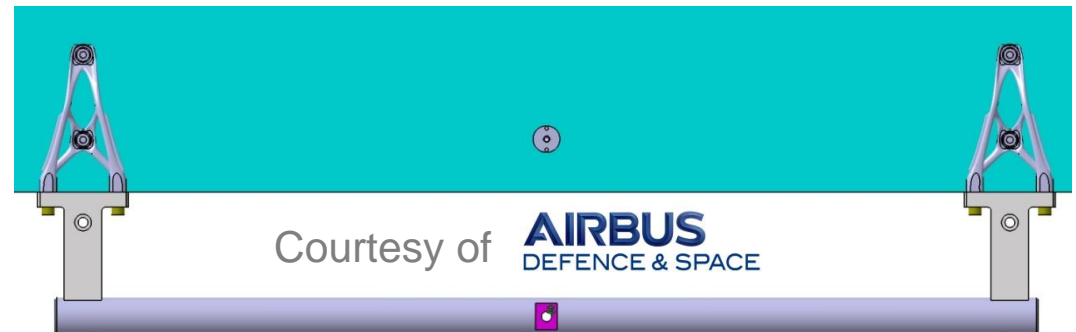


Courtesy of **AIRBUS**
DEFENCE & SPACE

ADDITIVE MANUFACTURING END TO END APPROACH



- Identification of the opportunity
- Definition and manufacturing
- Optimize design for AM
- Manipulate complex geometries
- Full justification and verification
- To establish the qualification criteria



REQUIREMENTS IDENTIFICATION

From the Design and Manufacturing loop

- **Materials:** mechanical properties, electrical properties,...
- **Design and assembly:** no go volume, tolerances, assembly and integration,...
- **Performance:** stiffness, environmental loads, handling loads, thermoelastic loads,...
- **Manufacturing:** minimum thicknesses, angles, supports, ...
- **Postprocessing:** milling operations, surface finishing, thermal treatment,...
- **Inspection:** tomography, Ray X, density...
- **Verification:** geometry, material...
- **Testing:** coupons and parts

Courtesy of 





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Thank you!



UNE-EN ISO 9001:2008 Quality Management System.
UNE-EN 9100:2008 Aerospace series. Quality Mmgt System.