



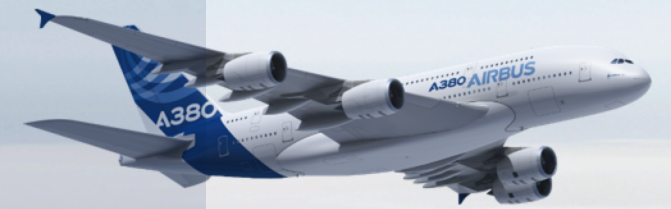
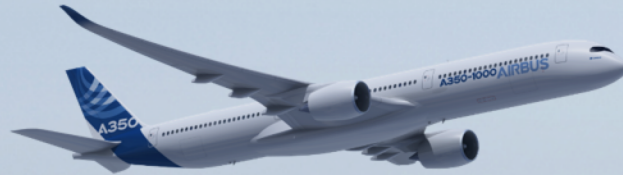
Airbus AM journey

2nd Munich Technology Conference on Additive Manufacturing (MTC2)

Jérôme RASCOL
VP Head of ALM Platform
October 10, 2018

AIRBUS

An Airbus takes off or lands every 1.4 seconds.



18,812

Aircraft sold

60

Produced monthly

25,000+

Daily flights

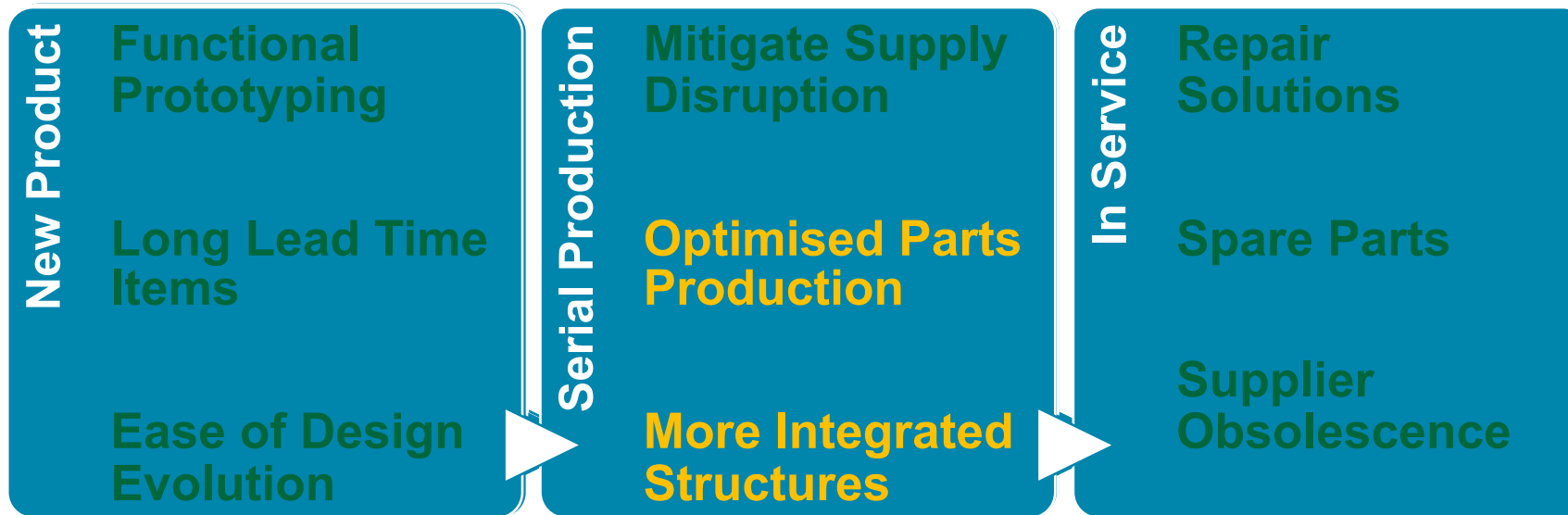
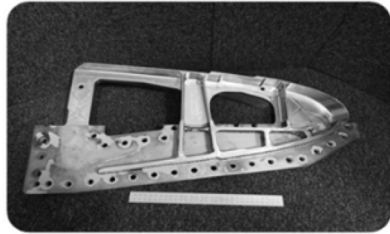
11,397

Delivered

(+22% in 5 years)

End August 2018

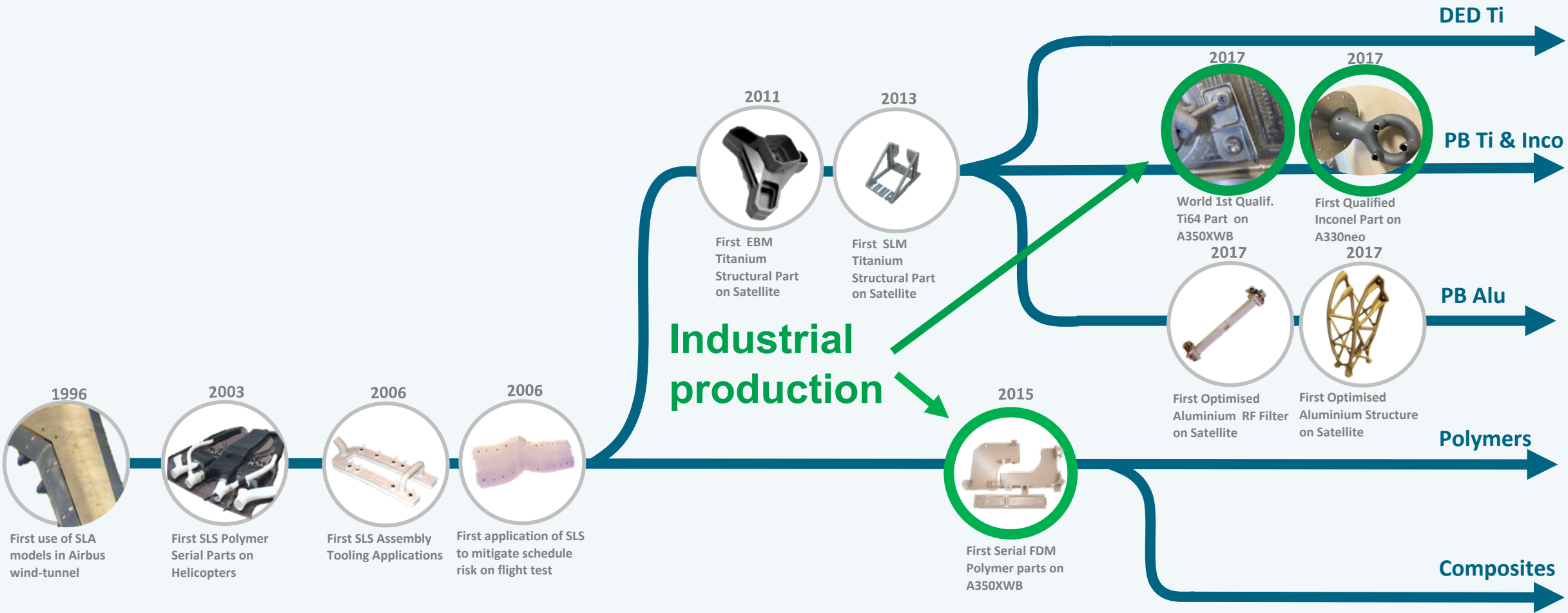
The AM **Benefits** in our Product Lifecycle



1 Low Volume / High Mix - Development Time & NRC Driven → AGILE MANUFACTURING

2 HIGH VOLUME - Product Cost & Performance Driven

Our "Firsts" in AM



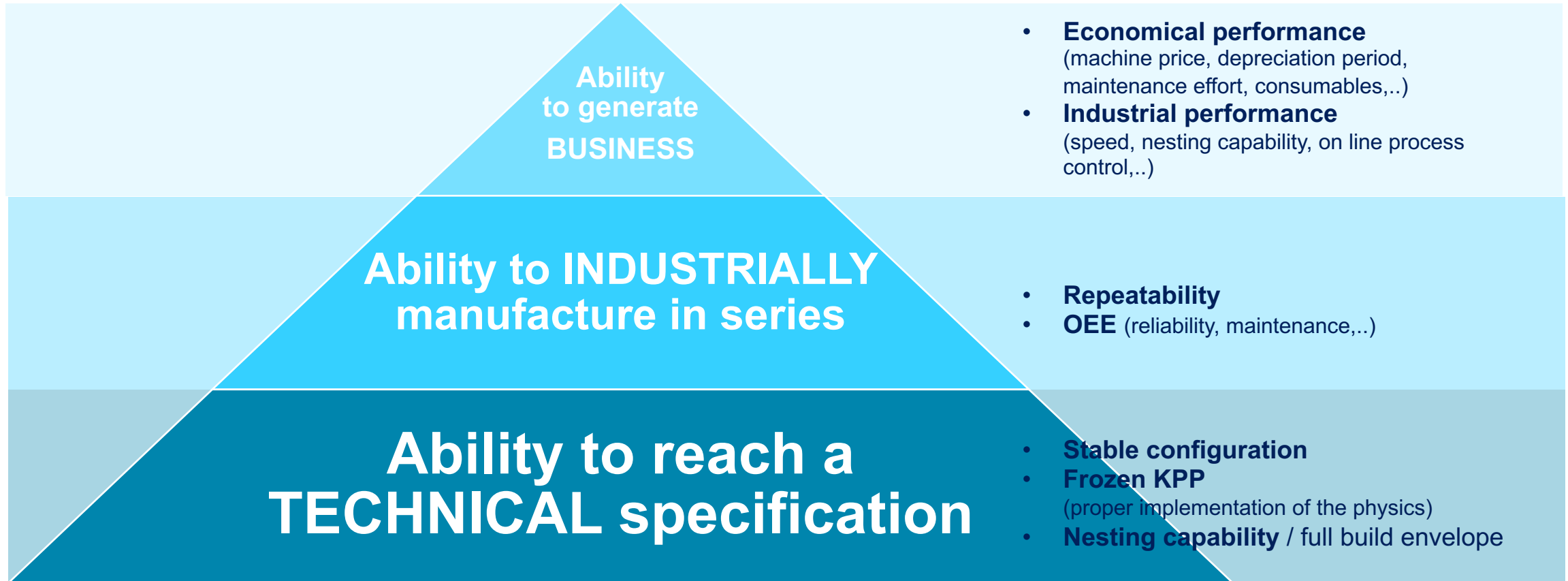
Key Enablers for High Volume **Optimised Parts Production**



*NRC: Non Recurring Costs
RC: Recurring Costs
LT: Lead Time*

Key Enablers for High Volume **Optimised Parts Production**

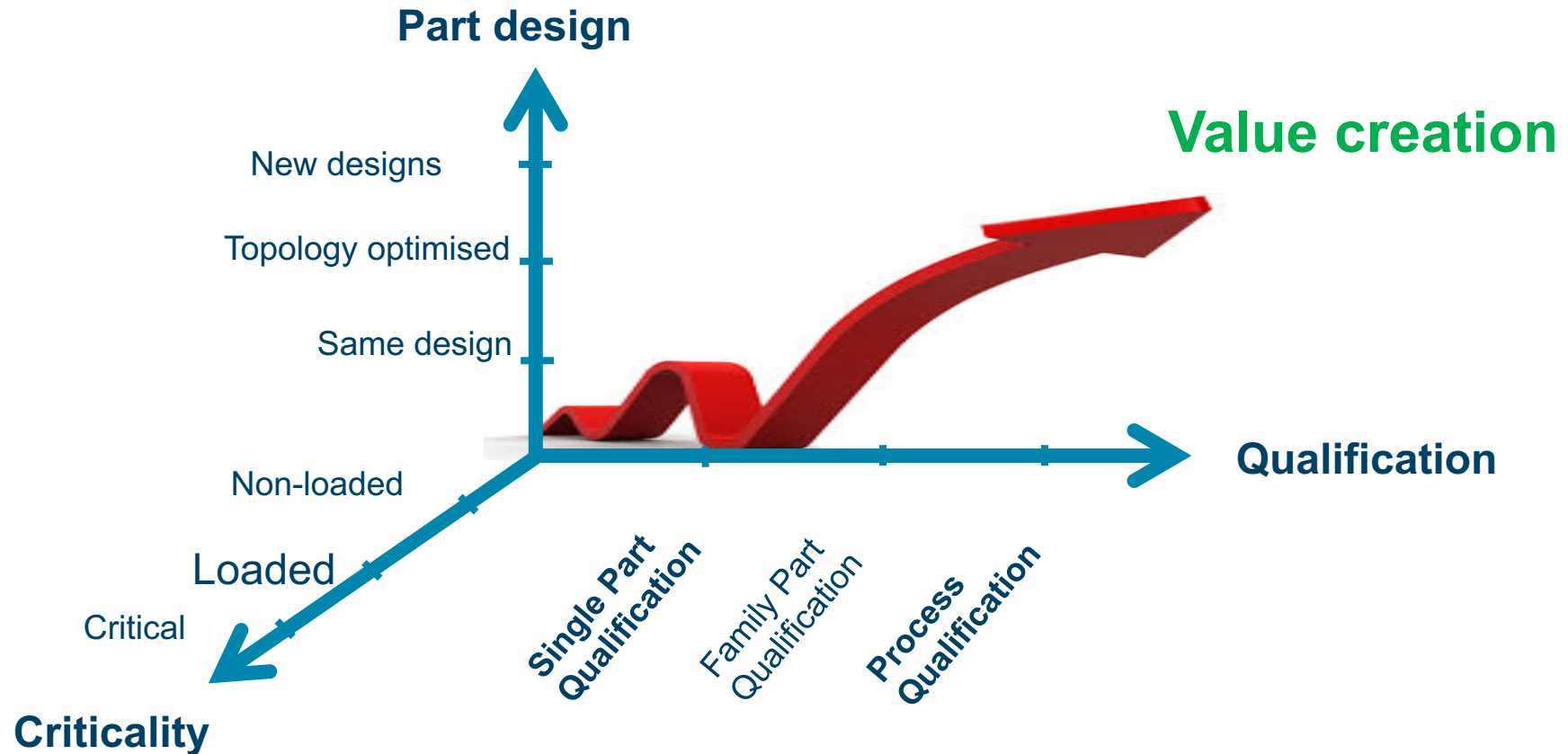
Zoom on Equipment



Equipment maturity is an absolute MUST

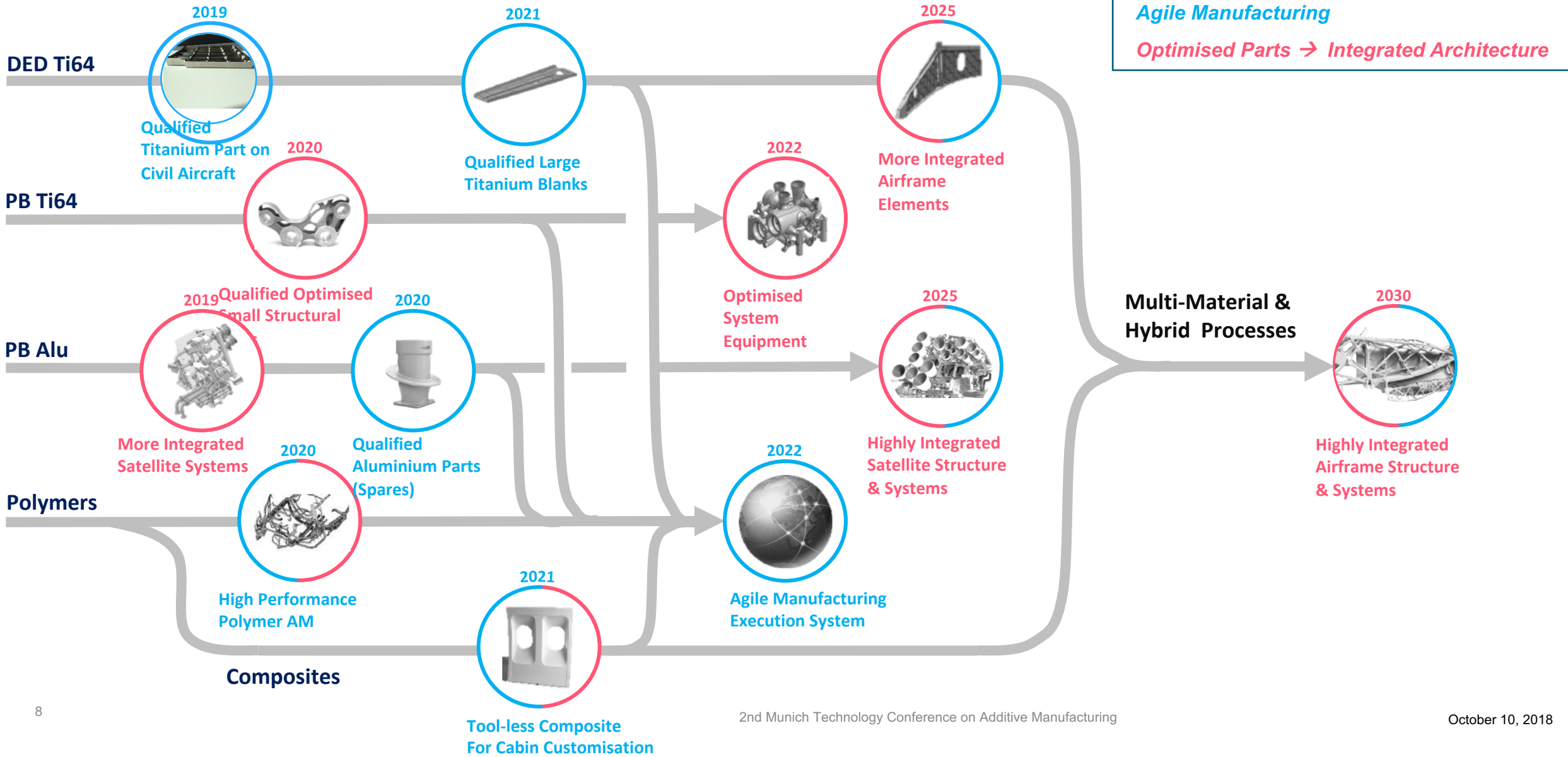
High level roadmap: **Step by Step Introduction**

(eg. Powder Bed technology)



Confidence building with Programs & Airworthiness Authorities

High Level Technology Roadmap – Outlook



Conclusion

- Airbus is **very engaged** in the AM technology development
 - Wide range of value creation opportunities with AM
 - Technology seen as a potential Game Changer in the future
- **Hype** is behind us, **Reality** is:
 - Qualification in front of Aeronautical requirements is **challenging**
 - Very low industrial maturity is **THE** current slowing factor
 - Business cases are **still marginal**
- We are at the early days of AM in Aeronautics serial production calling for a **joint effort** of all value chain actors



Thank you