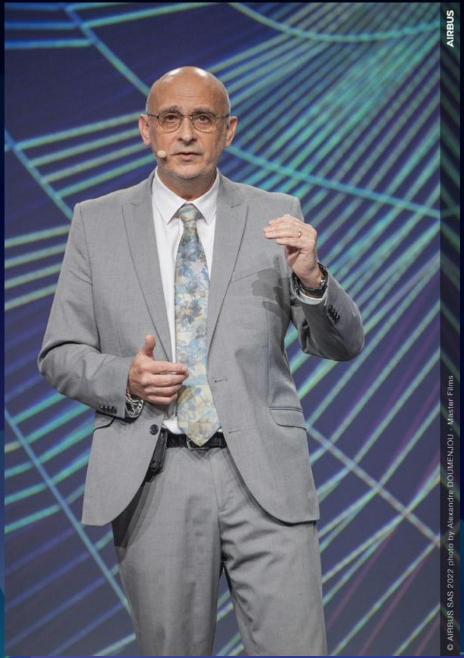
OSP Conference - Airbus SE/MBSE presentation



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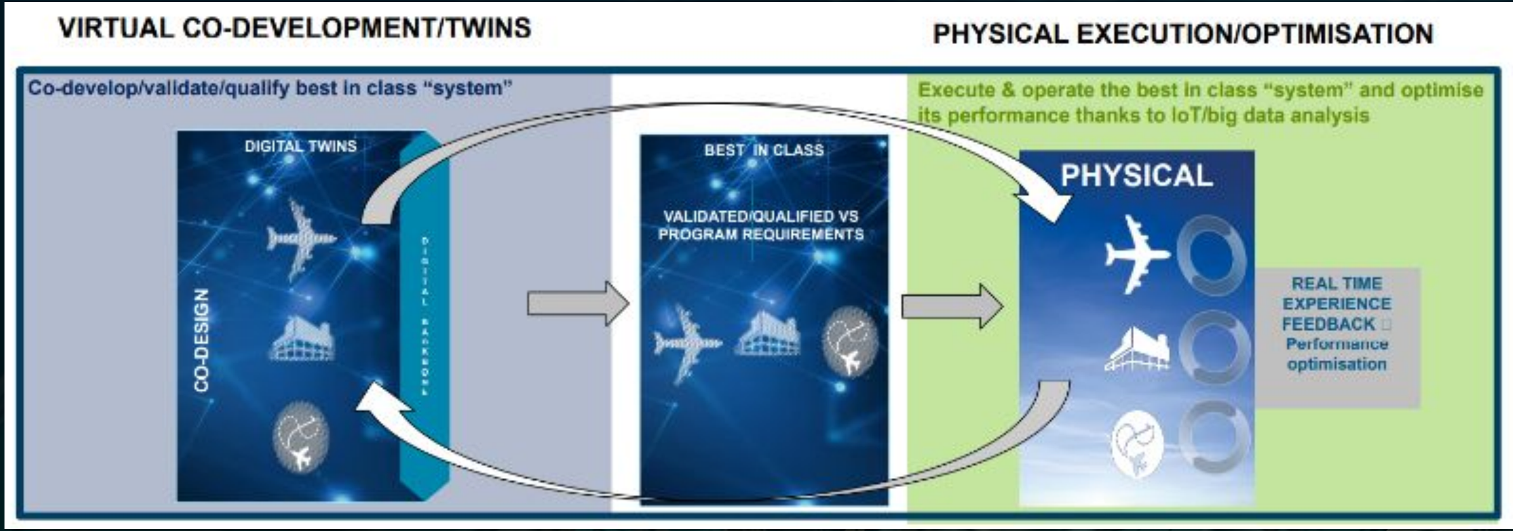
AIRBUS Challenge

One Digital Transformation Program : Digital **D**esign **M**anufacturing and **S**ervices (DDMS) Objectives :

…..Rethinking the way we are designing and operating our products ensuring the co-development of the product/the industrial system/the ways to operate with customer satisfaction & services ambition at the heart of DDMS….



What is the AIRBUS Digital SE/MBSE vision ?

- Leverage advances in digital technologies
- Modeling standards to enable rapid exploration
- Provide seamless exchange of information with other disciplines and their tool environments
- Systems engineers partner with machines to combine creativity and automation in a robust and agile design process.

AIRBUS Digital Transformation : The 5 Pillars for Business Value

1 - Transformation & competences

Identify and develop key skills and competences to the business and existing programmes

2 - Modelling and simulation

Allow to have a virtual world to be able to model and simulate the A/C, the industrial system and services

3 - Co development & Integration

Make all the disciplines (engineering, manufacturing, customer services, supply chain of the partners) working together in a single process and single environment

4 - Digital continuity

Every time you change a data everybody get access to this data and know what is the impact of the modification we have done on the complete tool chain

5 - Product line

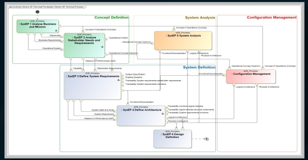
Find a way to produce the A/C in order to reuse parts

The 5 pillars provide capabilities to the business to create value

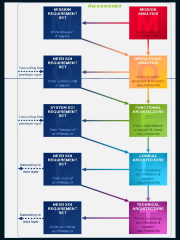
What is the AIRBUS DDMS SE/MBSE Framework ?

Airbus InnovationX

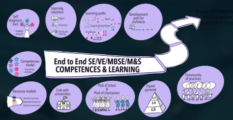
SE Processes & SEREF

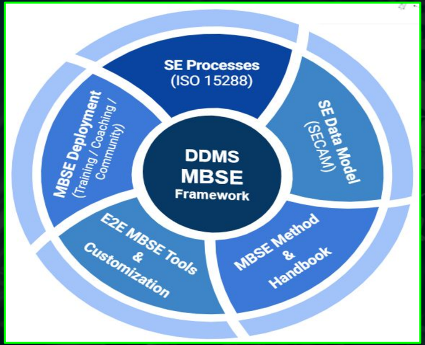


RVVM & RM

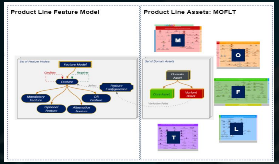


Deployment / Training & Community

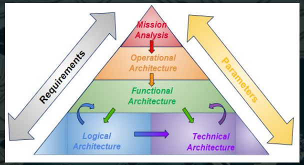




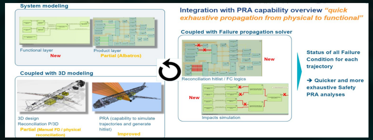
MBPLE (Model-Based Product Lines Engineering)



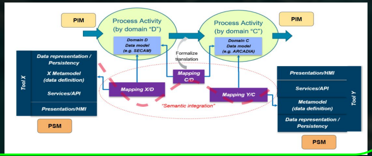
MOFLT - System Architecture



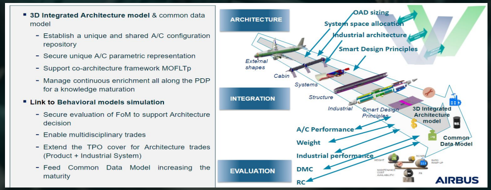
Safety (MBSA)



SECAM & MBSE DC in extended Enterprise



3DiPAF (3D integrated Parametric Architecture Framework)



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MBSE Instantiation Priorisation vs AIRBUS Portfolio Management

From exploration to End-To-End integration and Transformation **to** de-risk future Programmes

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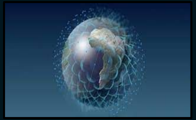
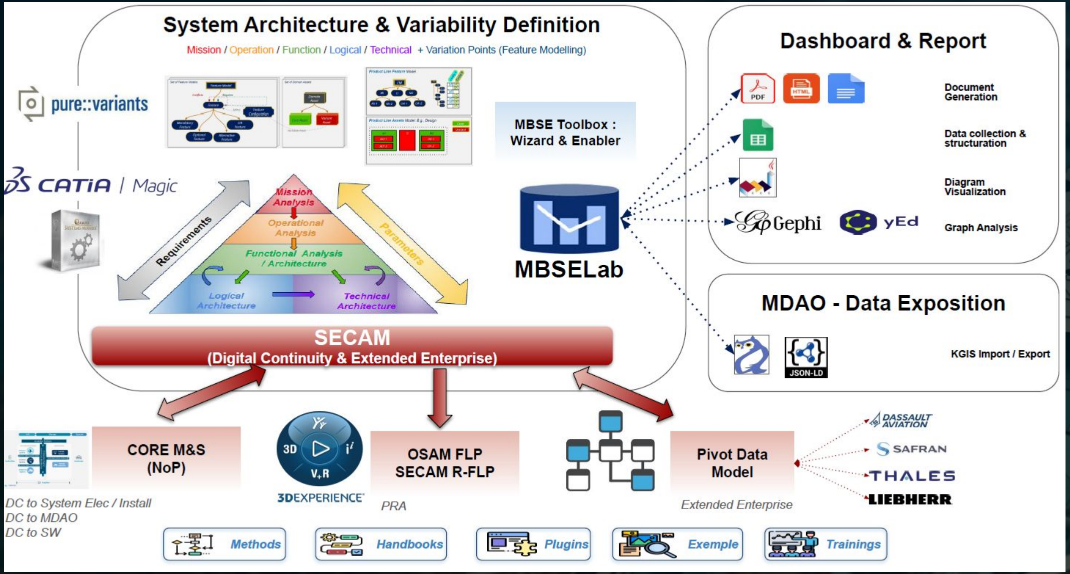
Airbus Extended Entreprises : One SE Reference





Airbus SE/MBSE next steps ?

➔ STEER the effort on **SE/MBSE capabilities development** ⇒ **Single Systems Engineering Referential (SEREF)**

➔ ENSURE **disciplined & systematic implementation** of SE process, methods & tools in any programme.

Mission - Apply SE / SEREF

Vision Tailored SEREF

Initiatives - Develop and deploy SEREF capabilities of highest priorities

AIRBUS For authorization for application

Airbus Amber
Export Control - Not Technical

Airbus Company Policy *A93*
Issue: A

Airbus Systems Engineering Governance Policy

PURPOSE/SCOPE:

This document defines the Systems Engineering Governance Policy applicable Company-wide (i.e. throughout Airbus, its two divisions and its Commercial Aircraft business), providing a clear view on the business culture (core values and mission), mid-term vision, and associated top level initiatives. It provides employees with a single and unique top level reference and guide on Systems Engineering related matters.

It covers Airbus employees, Company-wide, applying or interacting with Systems Engineering discipline.

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AIRBUS MBSE Glossary

A/C	Aircraft
DC	Digital Continuity
DDMS	Digital Design Manufacturing & Services
MBPLE	Model Based Product Line Engineering
MBSE	Model Based Systems Engineering
MBSA	Model Based Safety Assessment
MOFLT	Mission Operation Function Logical Technical

RM	Requirement Management
RVVM	Requirement Validation Verification Management
SE	Systems Engineering
SECAM	Systems Engineering Collaborative Architecture Modelling
SEREF	Systems Engineering REFerence
3DiPAF	3D integrated Parametric Architecture Framework

THANKS YOU

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