

- 1. Need elicitation with MBSE
- 2. System and safety consistency
- 3. System Architecture to Co-Simulation
- 4. Digital continuity for MBSE

Models and Information Sharing in Extended **Enterprise** 

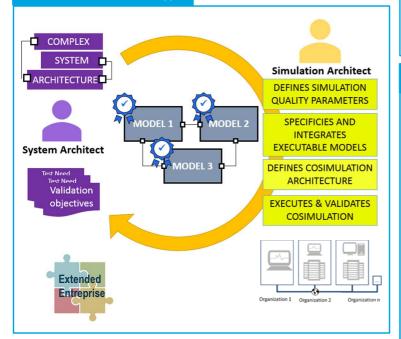
## **Value Proposition**

Defining Co-Simulation Architecture from System Architecture description, specifying simulation models, and allowing their execution in an Extended Enterprise context while securing stakeholders' Intellectual Property.

#### **Motivations**

- Facilitate the set-up of a cosimulation environment through inheritance of data from System Architecture description models, and a validated methodology relying on modeling viewpoints
- Take into account the heterogeneity between EE stakeholders' behavioral models.
- Make each stakeholder comfortable with the exchange of data regarding confidentiality

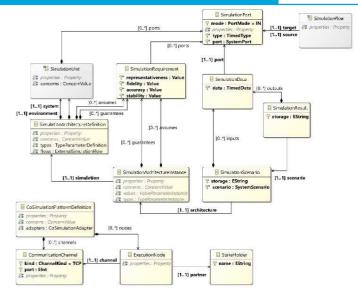
### Proposed methodology



# **Tools & Technologies**

- CAPELLA (PolarSys, Eclipse)
- SimulationX, Pro-SiVIC (ESI Group)
- CosiMate (Kiastek)

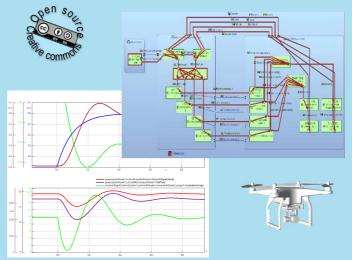
## Simulation viewpoint proposal



#### **Study Case**

AIDA: Drone for A/C preflight inspection. Used by MOISE for a representative co-design process.

Access AIDA models on IRT Saint-Exupéry forge: https://sahara.pf.irt-saintexupery.com







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