

# **COLLABORATIVE MBSE AND CONCURRENT DESIGN**

**AISE-INCOSE MBSE WORKING GROUP  
in collaboration with RHEA GROUP**

# INTRODUCTION

**Ivan Famoso**

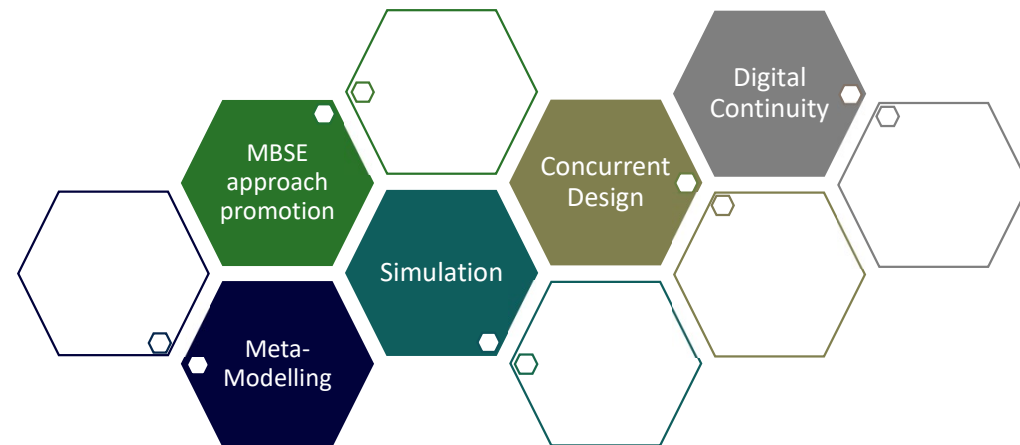
AISE-INCOSE MBSE WG  
Coordinator

AISE-INCOSE CAB Coordinator

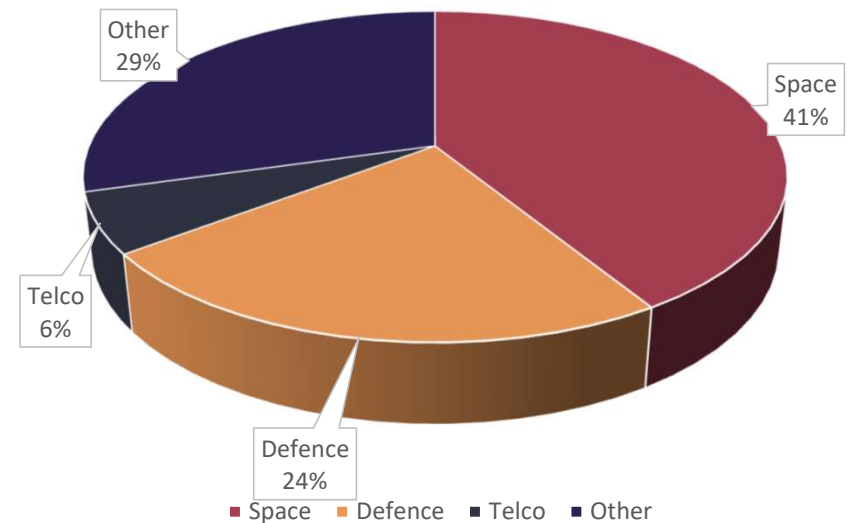
# AISE-INCOSE MBSE WG

AISE-INCOSE MBSE have been founded in 2020 and currently includes 14 active members

## Main Pillars



## Member's Sectors



MBSE Working Group  
Collaborative MBSE and Concurrent Design



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# AISE-INCOSE MBSE WG RESOURCES

- AISE-INCOSE MBSE WG provides to all members access to MBSE collaborative platform that includes resources like:
  - Modelling Tools
  - Collaborative Tools (i.e. <http://mbse-italy.rheagroup.com:81>)
  - Articles and Technical notes prepared by the WG

For info additional info please write to [mbse@aise-incose-italia.it](mailto:mbse@aise-incose-italia.it) ( or [aisembsewg@gmail.com](mailto:aisembsewg@gmail.com) )

or join the LinkedIn Group **MBSE Italy**

<https://www.linkedin.com/groups/8871374/>

MBSE Working Group  
Collaborative MBSE and Concurrent Design



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# AISE-INCOSE MBSE WG MAIN ACTIVITIES

- Published paper “Enabling Business Analysts to implement Cyber Physical Systems (CPS) solutions using a Model Based approach” at WiSEB 2021, Porto (PT)
- Presentation “Organization Analysis and Modelling” at SESE21
- Presentation “MBSE Evaluation Approach” and “Model Setup” at WIISE 2021
- Several internal Webinar organized to share knowledge between team member.
- Review of the RHEASysML metamodel (that will be matter of a future webinar)

MBSE Working Group  
Collaborative MBSE and Concurrent Design

# COLLABORATIVE MBSE AND CONCURRENT DESIGN

Given the requests of WG members to get insight into the Concurrent Design and MBSE we requested to **Sam Gerené**, one of the main experts on this matter in Europe and **CD & MBSE Competence Area lead at RHEA**, to provide a presentation of Concurrent Design process and how collaborative MBSE is used in early phase design of Space Missions and other complex systems.

Sam Gerené: Sam has a background in Aerospace Engineering with a Masters degree from the TU Delft. He is an expert in collaborative MBSE for early phase design, typically exercised during Concurrent Design. Sam has gained much of his experience while working at the system engineering department of ESA for approximately 11 years where he was responsible for MBSE tooling, CD process development as well as being CDF System Engineer and CDF Team Leader. Next to applying the CDF methodology and MBSE in the space domain, Sam has also applied these methodologies outside of the space domain. Currently, Sam is the CD & MBSE Competence Area lead at RHEA where he coordinates the RHEA MBSE related activities.





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**Q&A**



# THANK YOU

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