

# Mbse2022 wrap up

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Jean-Loup Terrailon, ESA software system lead engineer (TEC-S)

# mbse2022 in one slide

documentation (generation, user story [Craft])  
 model and scenario validation [OHB, Samares, CNES]  
 security [OHB, G2G]  
 variability, reuse [ADS]  
 functional chains [ADS]  
 configuration management [G2G]

## industrial environment

Ontology

consistency of UoD [Rhea]  
 from model queries [ADS]



editors — SySML [ADS, OHB, ESA]  
 Capella [TAS, CNES, ESA]  
 SysML V2?

Disciplines

software [TAS, GMV]  
 AOCS [Sener]  
 thermal [ESA]  
 avionics EDS [N7]  
 operation [ESA]  
 SGICD [ESA]

Data

Comet  
 Exago  
 RangeDB  
 Valispace  
 datalake  
 datahub  
 PLATO

Exploitation

budget [IRT, ESA]  
 multiphysics [Perpet]  
 design & TM [scopeset]  
 RAMS (compass, R) [FBK, Jaxa]  
 constraints [AG]  
 design assistant [Darmstadt]  
 NLP [TAS]  
 testing [CNES]  
 reviews [IRT]

Supply chain

TeePee [IRT]  
 blockchain [Parametry]



# after mbse2022

- progressing, not complete
- adaptation needed to each industrial context: mbse not integrated in industrial process is a NOGO
- difficulty in conf management, security
- Overall (extended) Enterprise architecture not stable

industrial environment

Ontology

- progressing; at last a skeleton!
- integration of the other UoD
- automation from the ontology

Design

Data

Exploitation

editors

- functional: stable
- what about CAD?

- better understanding of the concept of datahub
- interoperability difficult
- exponential number of data with lifecycle

- a domain to explore in order to harvest the MBSE benefits
- a wealth of use cases
- promising technologies (AI, NLP)
- will data be conveniently available?

Disciplines

- some disciplines are engaged
- many disciplines are missing
- virtually no disciplines synchronized by the ontology!

Supply chain

- a few suppliers involved (software, EDS?)
- the vast majority of suppliers are still out of the game

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Thank you!