

\ Digital tools

# Safety Digitalization Hub



ATICA Suite

Digital systems engineering  
for the next generation of  
Safety Critical Systems

[Atica4Capella](#)

[Anzen Wiki](#)

**Gaia-x Lighthouse / COOPERANTS Service Competition**  
**Space Tech Expo – Bremen 19-21<sup>st</sup> November 2024**

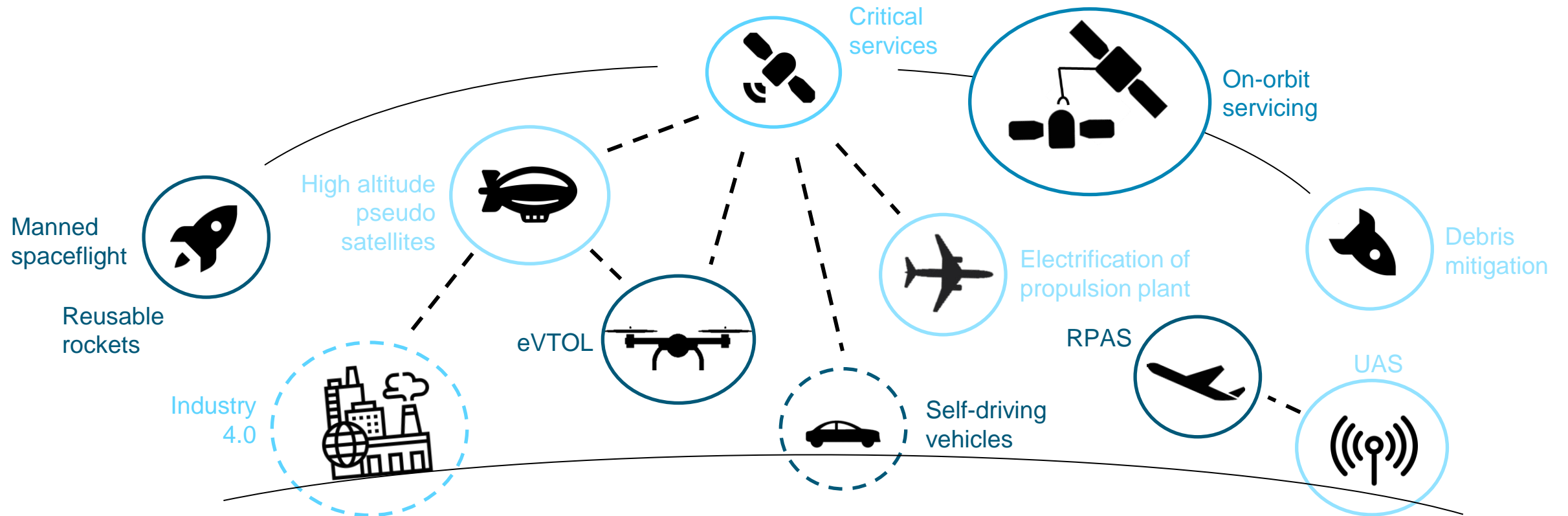
# New opportunities with groundbreaking challenges

RELIABILITY

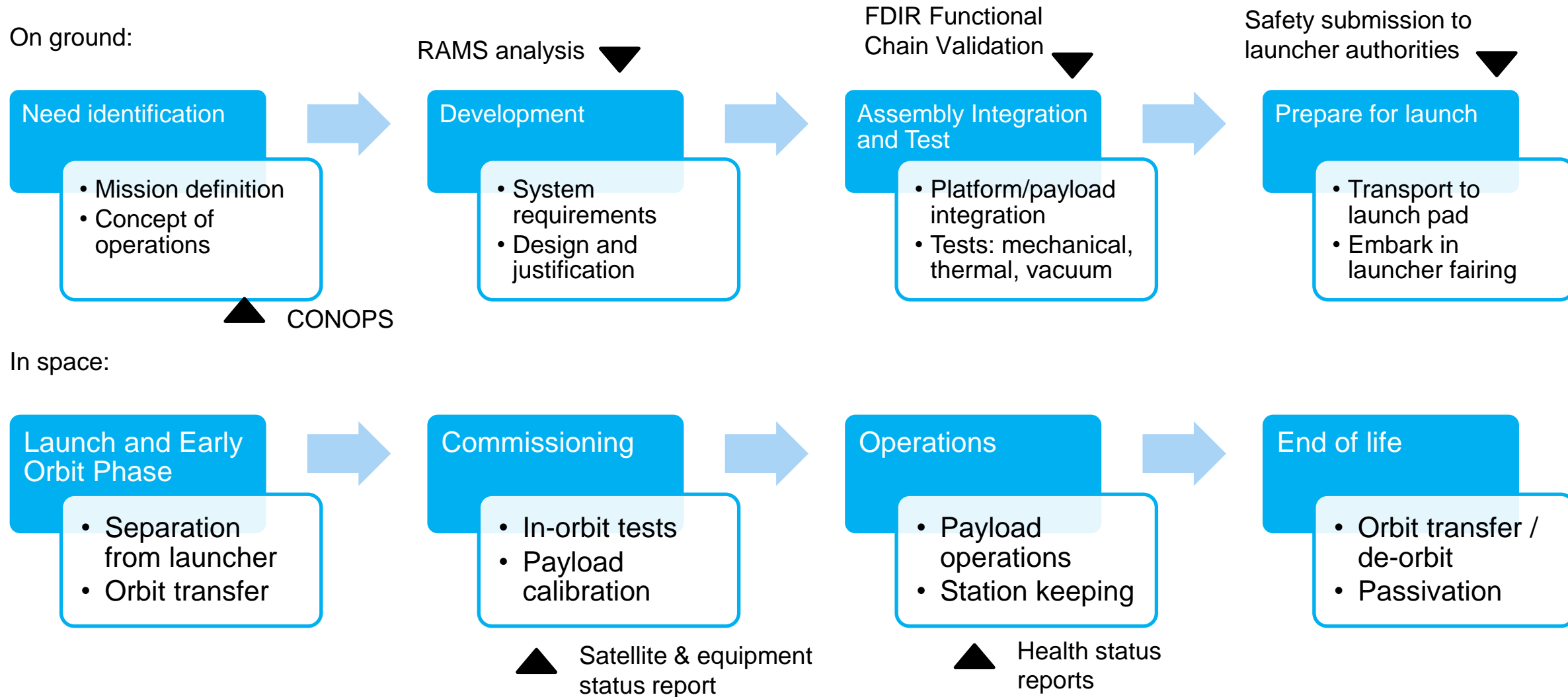
AVAILABILITY

MAINTAINABILITY

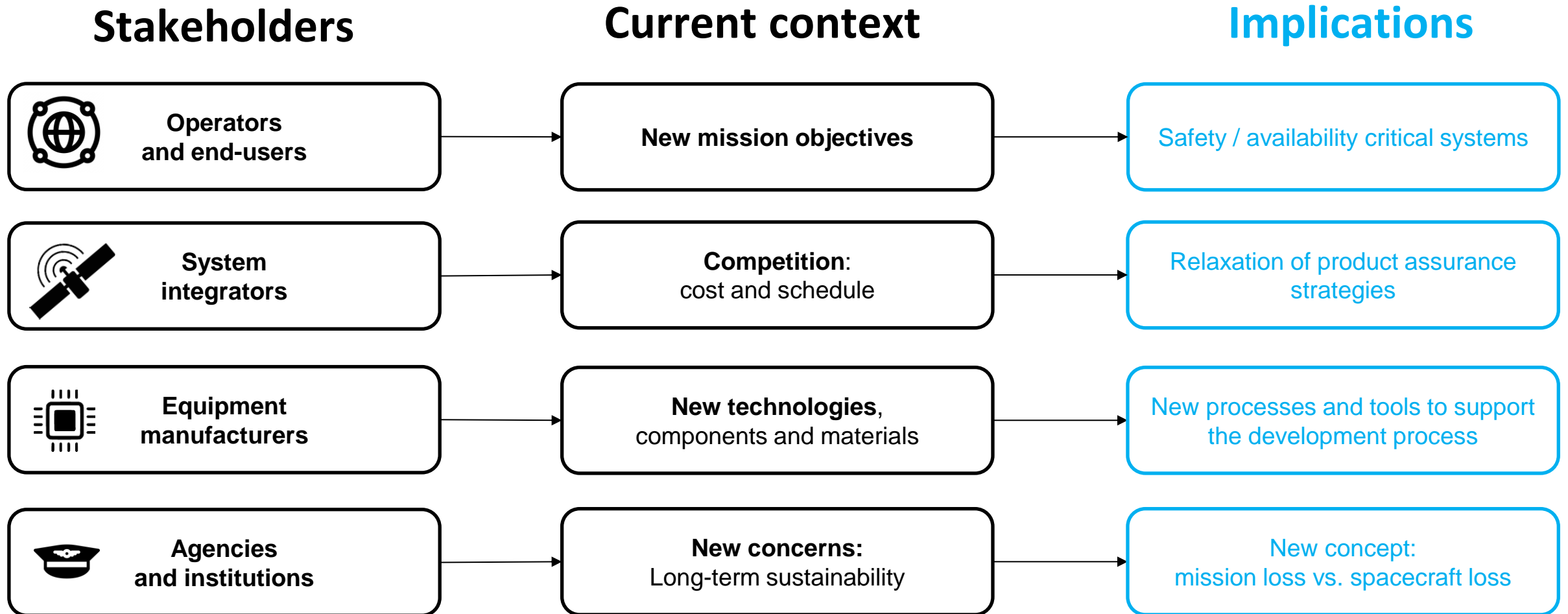
SAFETY



# ... along the whole product lifecycle



# *... and across all actors involved*

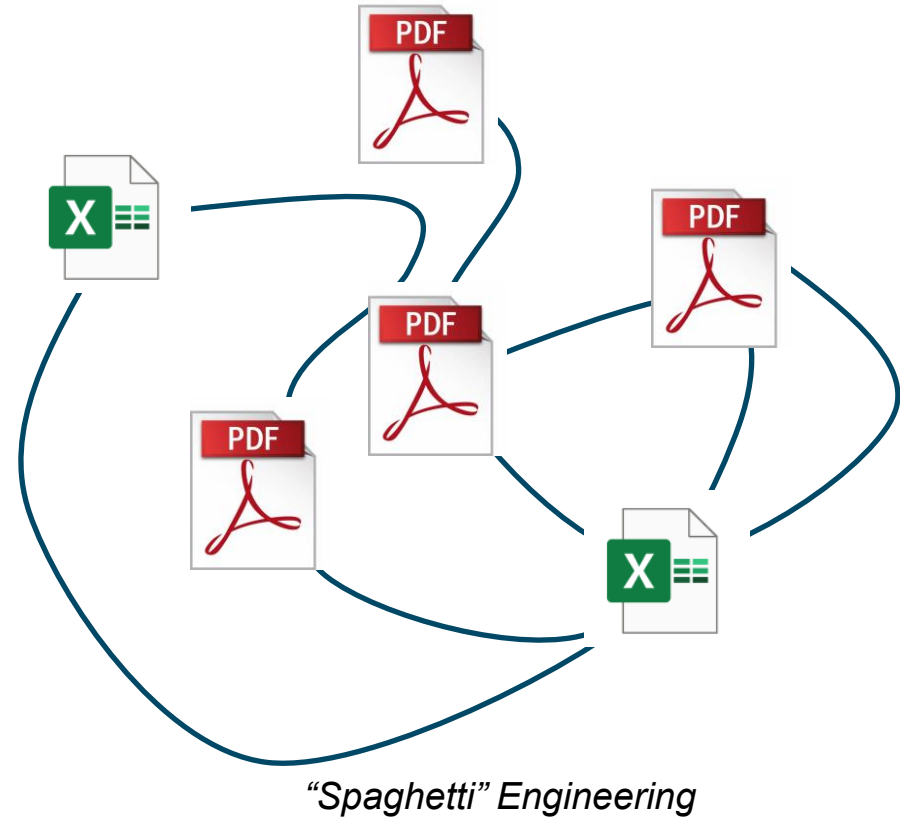


# Streamlining RAMS analysis with digital technologies

## Recurrent problems

- ☐ Inconsistent documentation
- ☐ Information not up to date
- ☐ Lack of traceability
- ☐ Disparate formats
- ☐ ...

+ *increasing competitiveness*  
+ *reduced lead times*



# Streamlining RAMS analysis with digital technologies

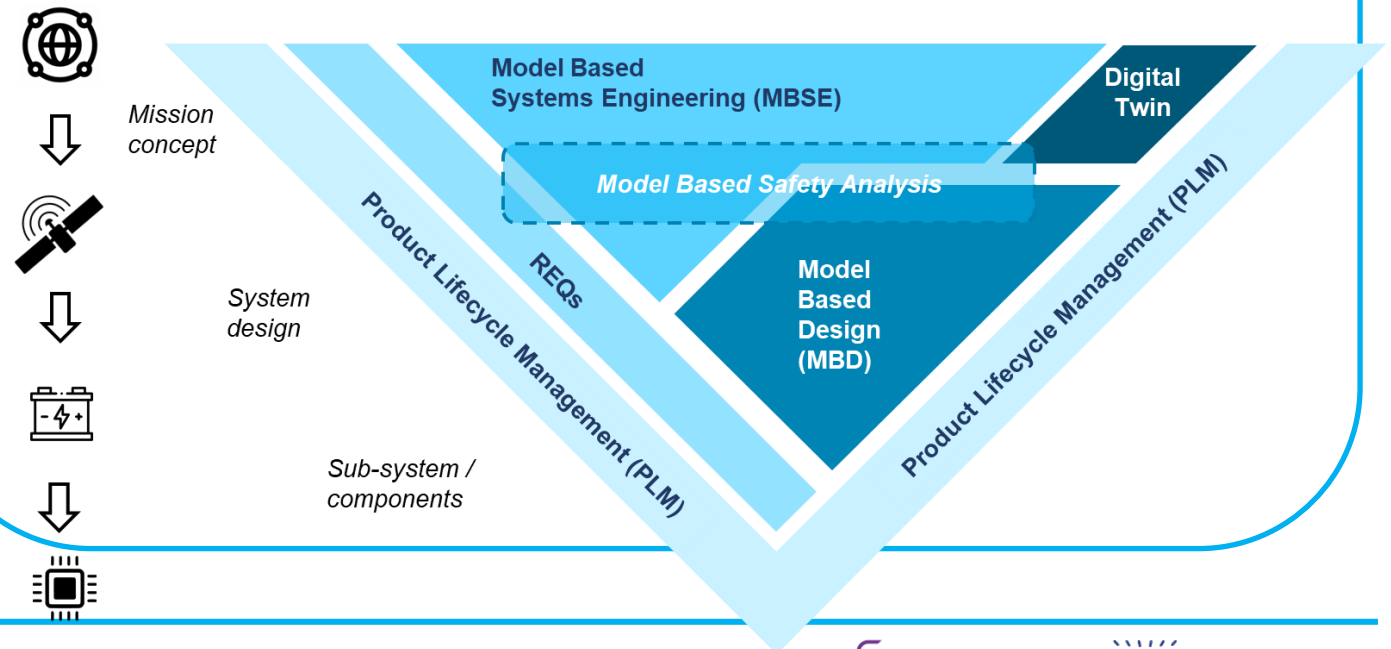


## *Towards a common data space*

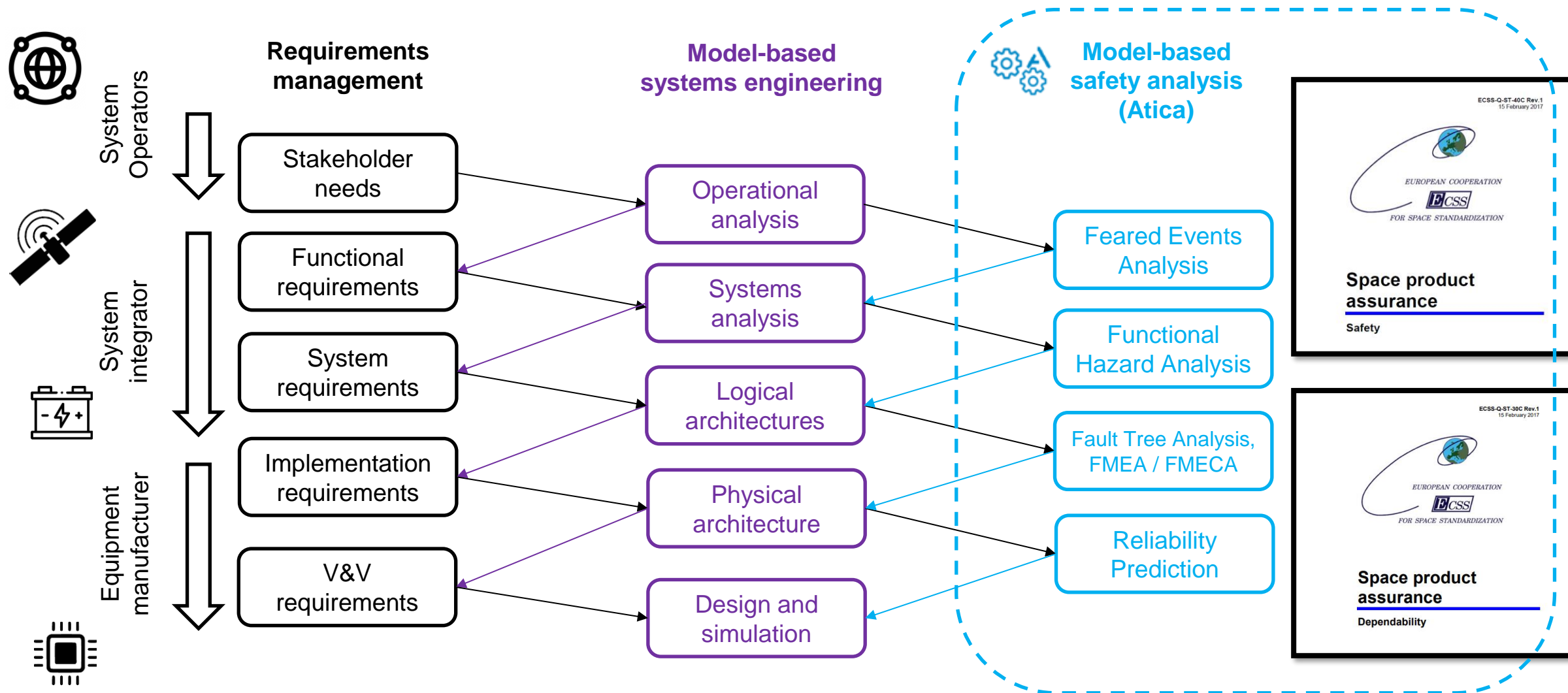
- ✓ Structured data, machine readable
- ✓ Centralized, shared, interoperable
- ✓ On premise or cloud, AI capable

## Use of digital tools

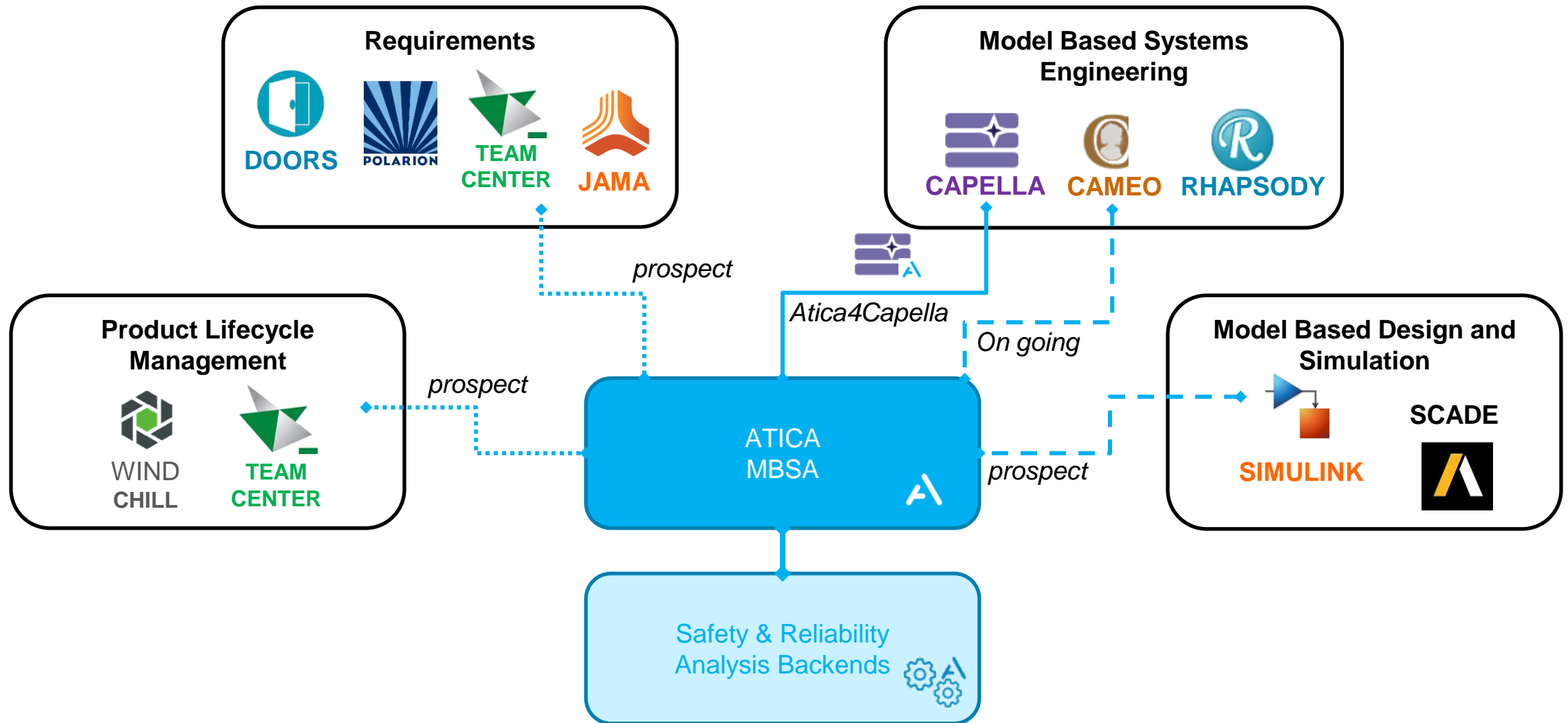
- ✓ Centralized source of information
- ✓ Semi-automated analysis & direct traceability



# Our solution



# Integrated in the digital thread

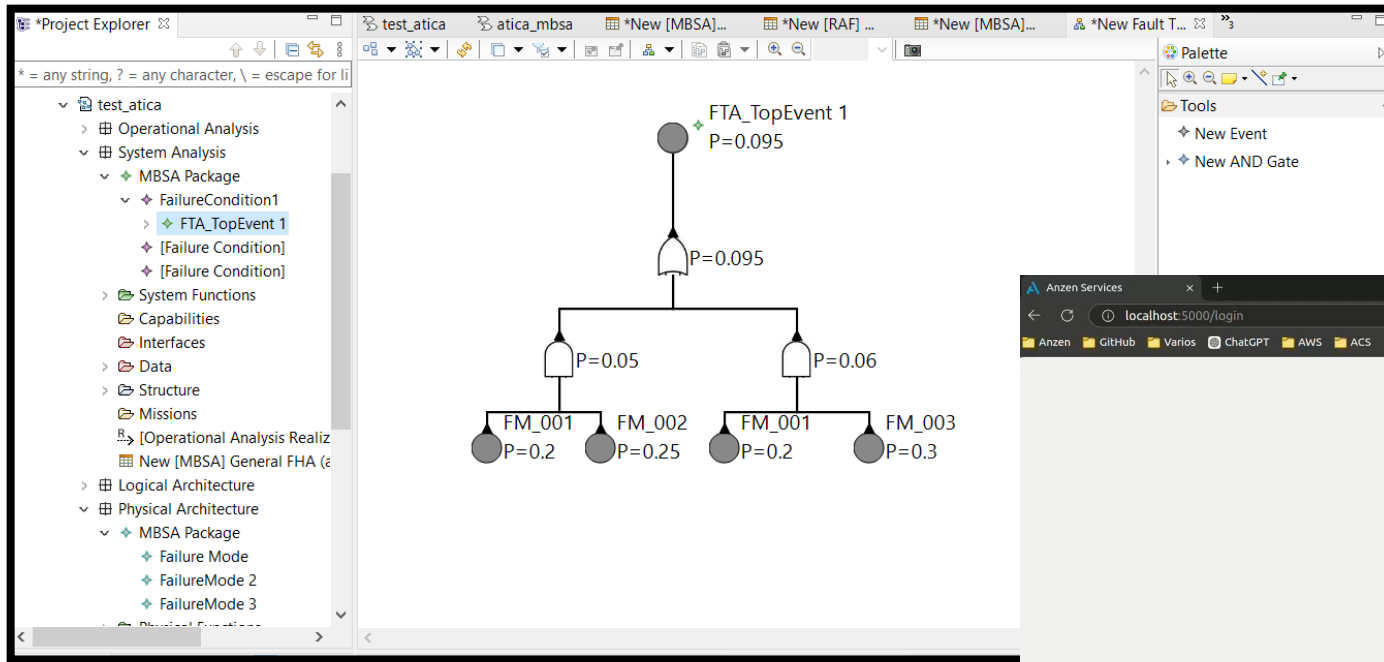




# Atica4Capella

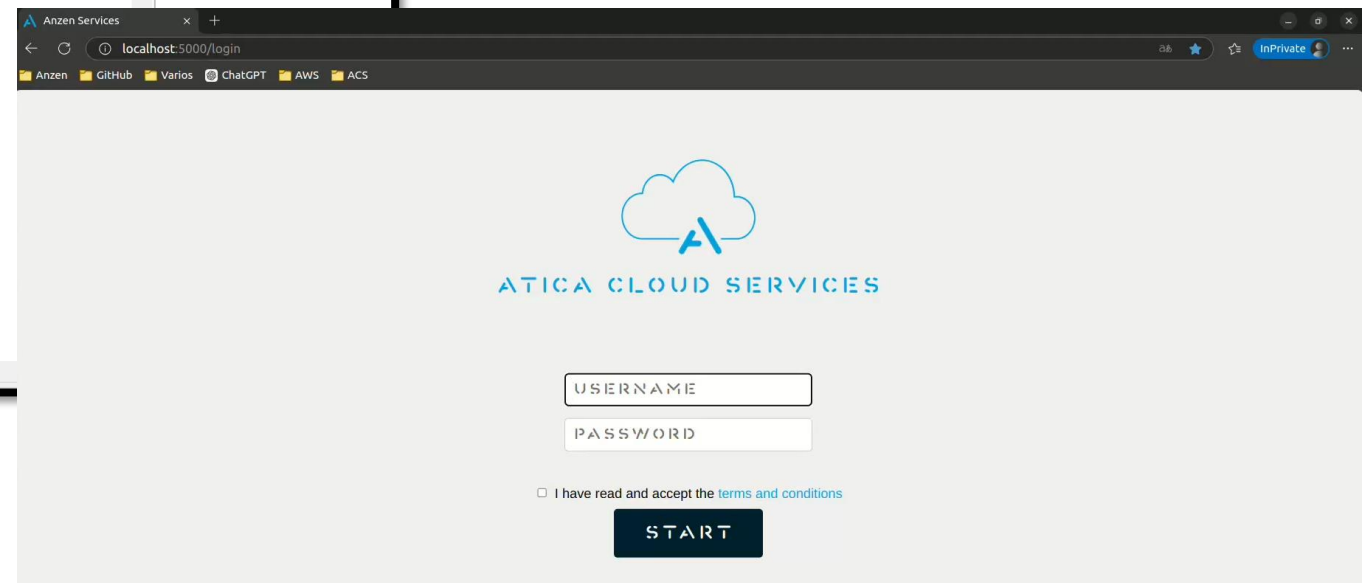
Seamless integration into systems engineering workflow

## Desktop application – Capella addon



## Web-based solution

- ✓ Improved collaboration across teams
- ✓ Centralized source of information, always up-to-date
- ✓ Advanced analysis backends



# Wrap-up

## Digital environment bridging the gap between systems engineering and RAMS

- ✓ Centralized source of information
- ✓ (Semi) automated RAMS analysis
- ✓ Tailored perspectives for different stakeholders

*structured, machine readable*

*traceable, always up-to-date*

*boosting collaboration*

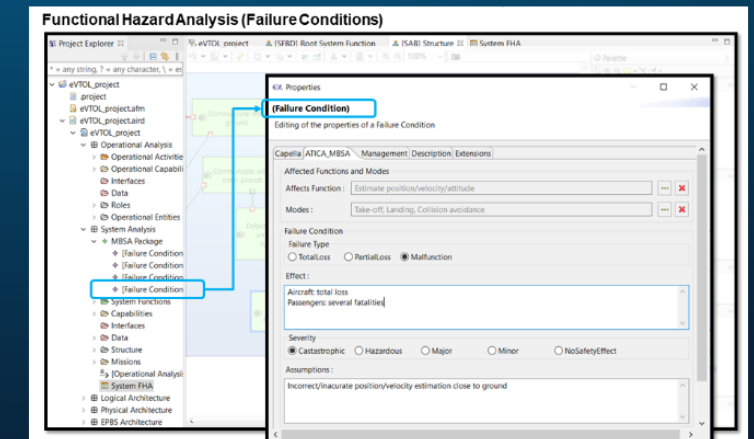


*Trial version  
available*

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## ATICA4Capella

[ATICA4CAPELLA](#) is a model based safety analysis (MBSA) plugin that extends [Capella](#) functionalities and allows to perform safety and reliability analysis directly from the system models.



Download Atica4Capella

READ MORE

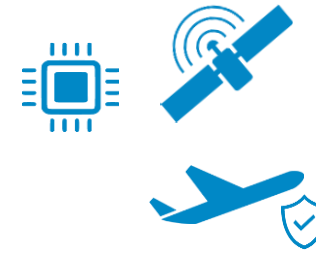
## The company

- ✓ Founded in 2019 – ESA BIC Madrid
- ✓ Large team of system /RAMS /MBSE engineers
- ✓ Headquarters in Madrid Spain, Switzerland, USA, UAE



## System, safety and reliability experts

- ✓ Specialization in complying with the highest quality standards for safety/availability critical missions



## Applications

- ✓ Complex electronics
- ✓ Safety Critical Systems
- ✓ Autonomous & software defined systems



## Digitalization of systems engineering

- ✓ Development and extension of model-based software tools for digitalization of the system & safety engineering process

**Pablo Lopez Negro**  
Chief Innovation Officer  
[pablolopez@anzenengineering.com](mailto:pablolopez@anzenengineering.com)

**Léa Defosse**  
Head of Business Development  
[leadefosse@anzenengineering.com](mailto:leadefosse@anzenengineering.com)



**Service competition**

Space Tech Expo – Bremen 19-21<sup>st</sup> November 2024