

A wide-angle, high-altitude photograph of Earth from space, showing the curvature of the planet and the dark blue of the night sky. The Earth's surface is illuminated by city lights, appearing as bright yellow and orange spots against the dark blue of the oceans and the black of the night sky. The horizon line is visible, separating the dark blue of the atmosphere from the black of space.

# Looking for the Digital Twin Aircraft

## MATLAB EXPO 2019 MADRID

DEFENCE AND SPACE

Alonso Pardo Sanguino (TOFET-TL4)

**AIRBUS**



# Looking for the Digital Twin Aircraft

EXPO MATLAB 2019

DEFENCE AND SPACE

Alonso Pardo Sanguino  
28 Mayo 2019

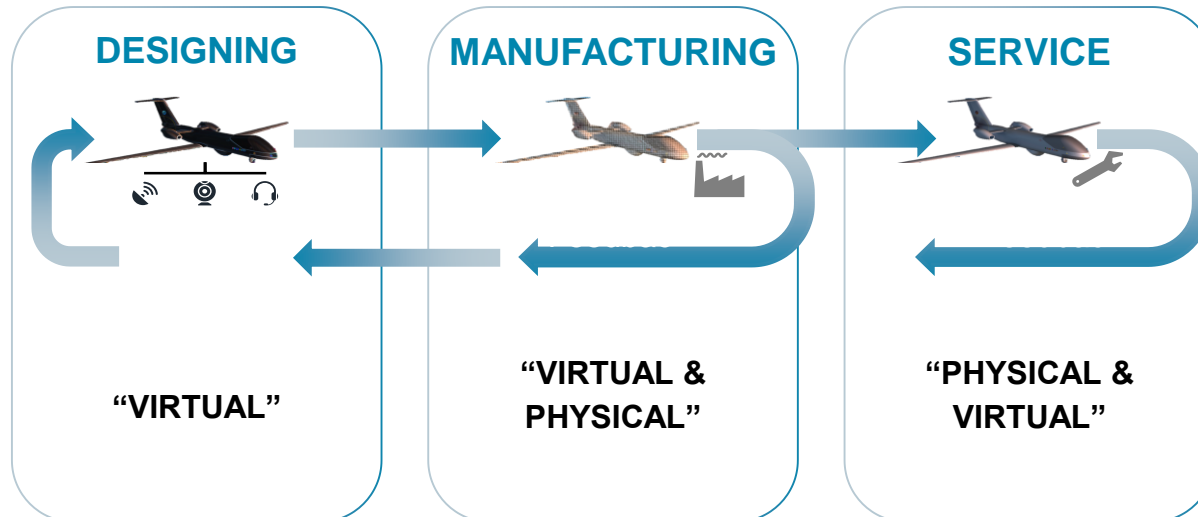
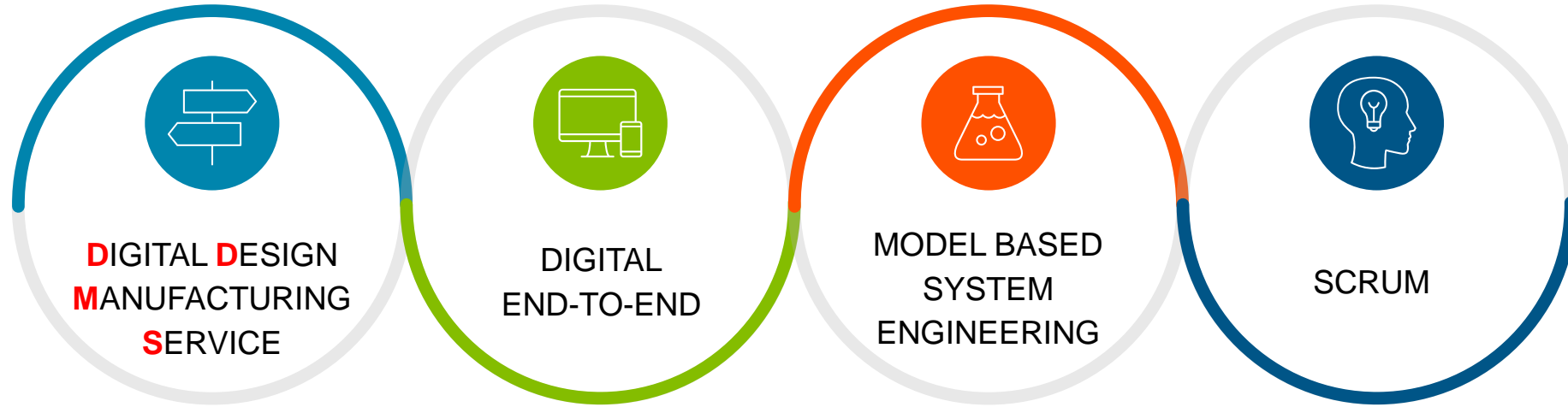
**AIRBUS**

# AIRBUS DEFENCE AND SPACE

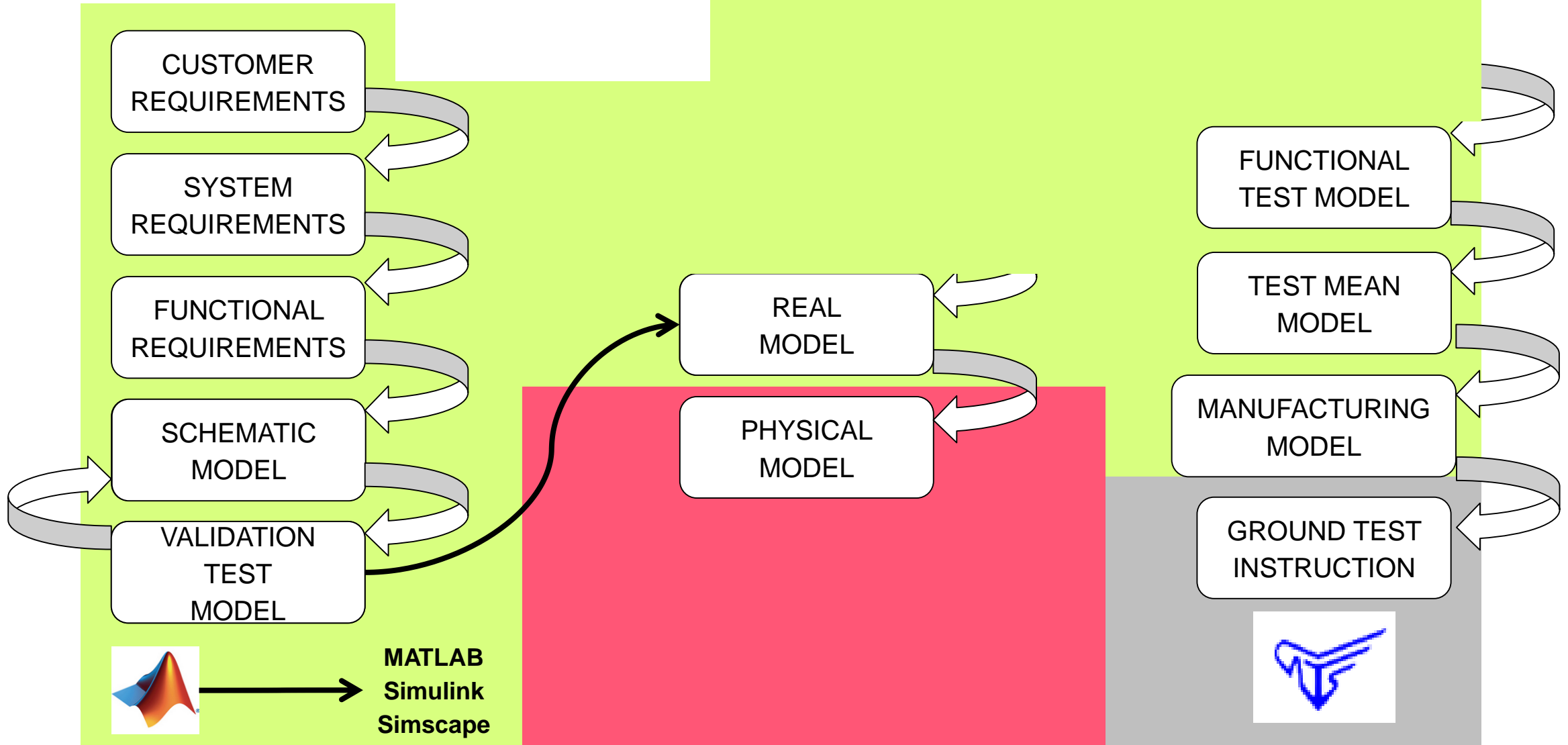
MRTT MANUFACTURING ENGINEERING DEPARTMENT



# DIGITAL TWIN AIRCRAFT



# BASIC CONCEPTS AND TOOLS

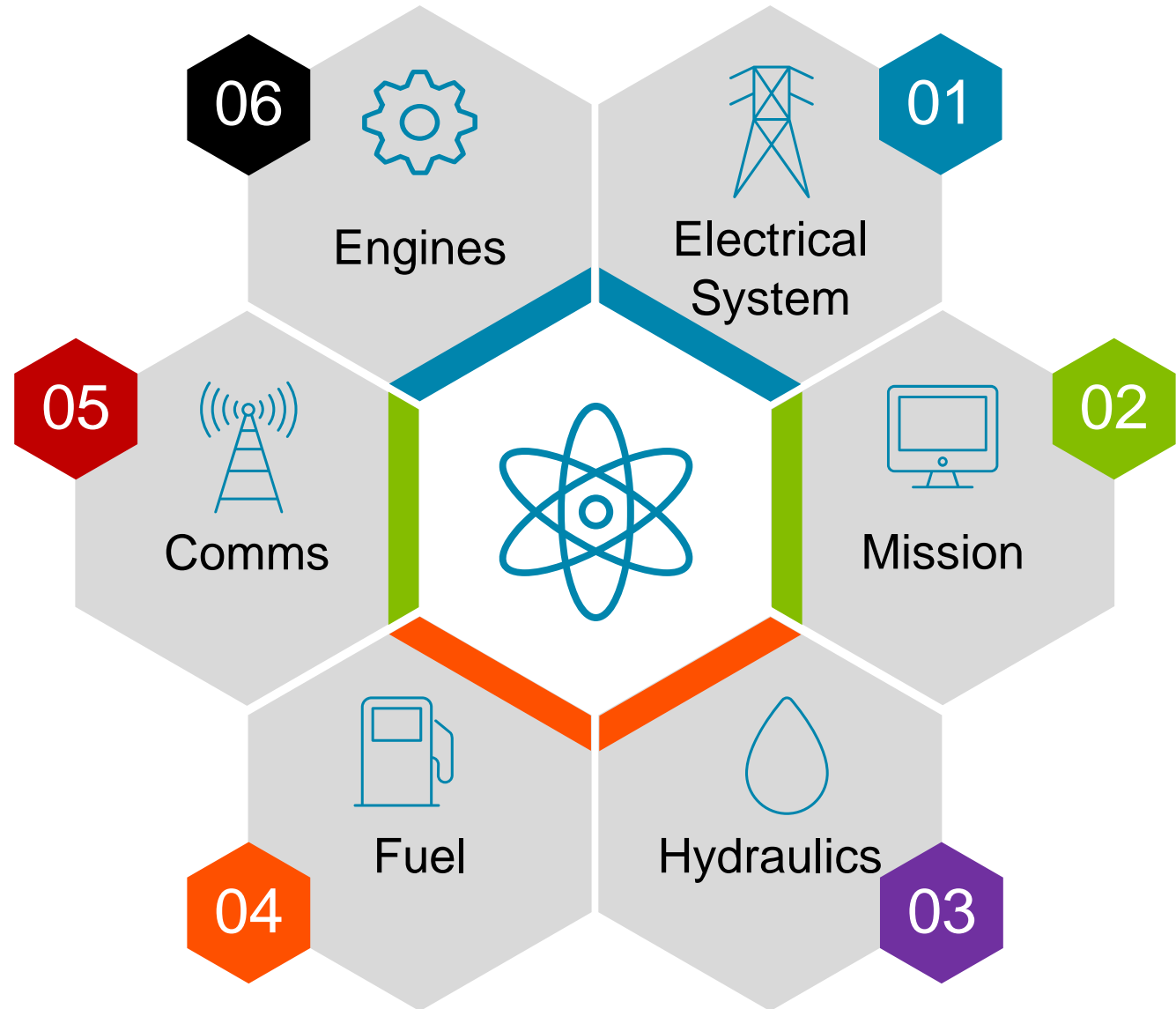
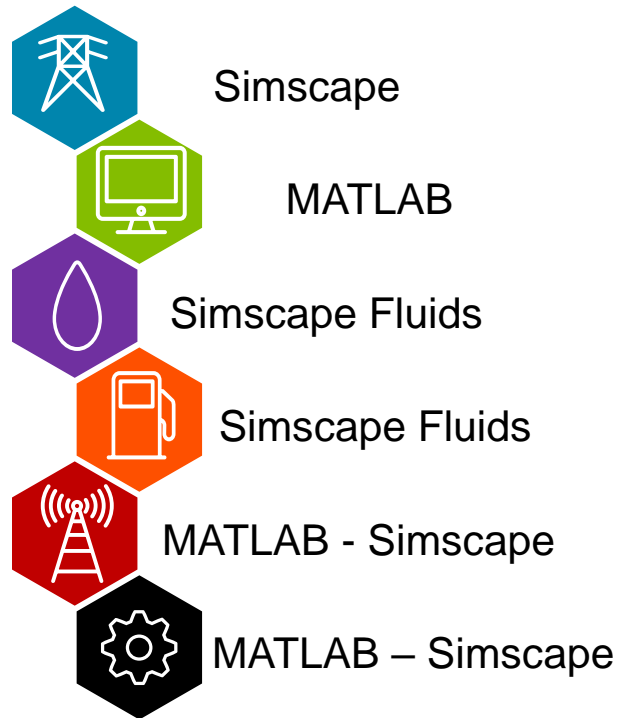




# THE BRIDGE



# NEXT STEP



# CONCLUSIONS

*Modelling cost*

*"A big model needs time"*

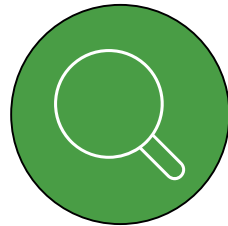


*New skills required*



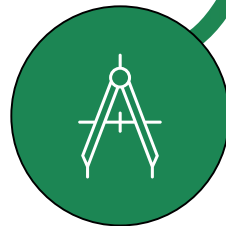
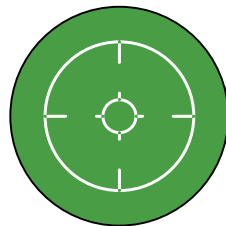
*Troubleshooting made easy*

*"The path is easier if they light your way"*



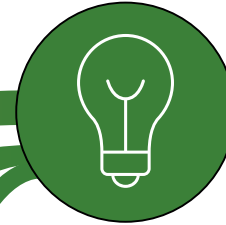
*Detect design failures*

*"The earlier, the better"*



*Deep understanding of the system*

*"Let the engineers be engineers again"*

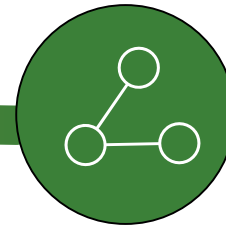


*Flexibility*

*"Give me the correct tool, and I shall move the plane"*

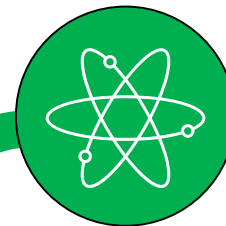
*Reusing*

*"A small effort becomes a big difference"*



*Dynamic tool*

*"Wiring diagrams are alive!"*





# QUESTIONS

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Thank you

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