

A wide-angle, high-altitude photograph of Earth at night, showing a vast expanse of dark blue oceans and landmasses. Numerous bright yellow and white lights from cities and towns are scattered across the land, creating a glowing pattern against the dark background. The horizon is visible at the top, with a thin layer of white clouds and a bright blue glow from the sun or moon just out of frame.

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

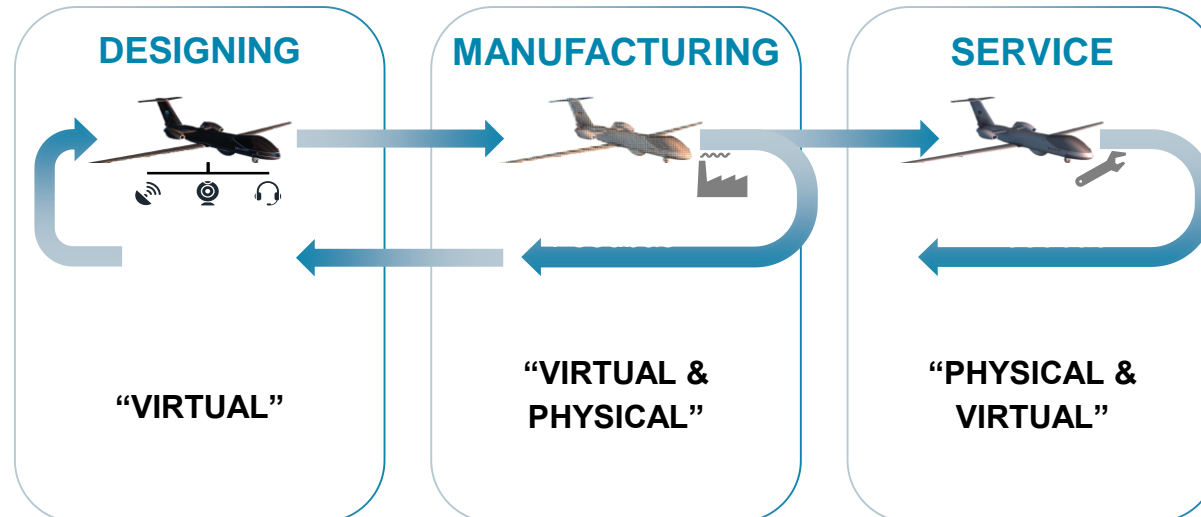
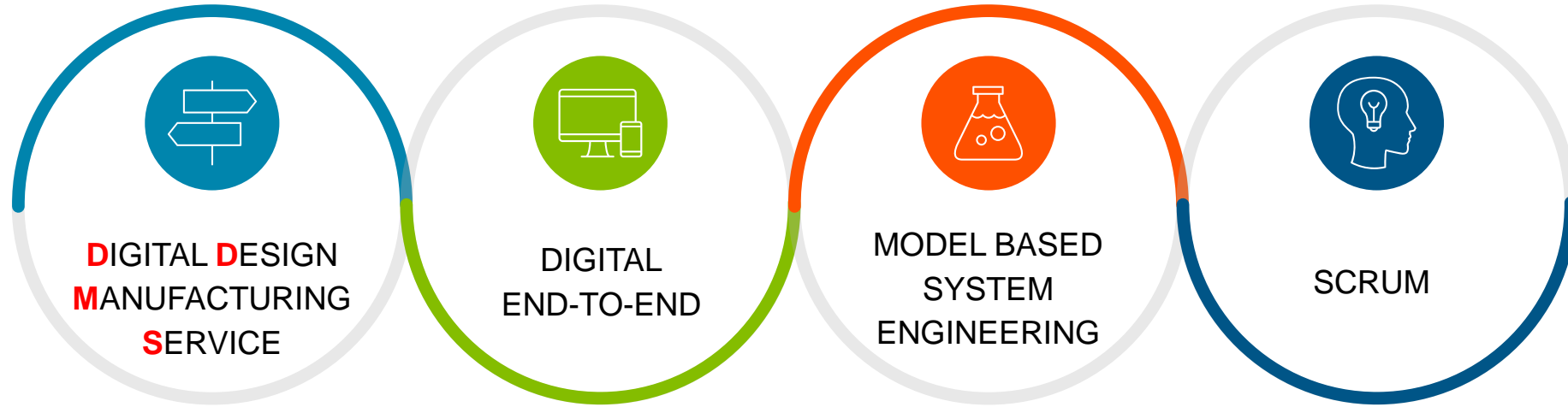
AIRBUS

AIRBUS DEFENCE AND SPACE

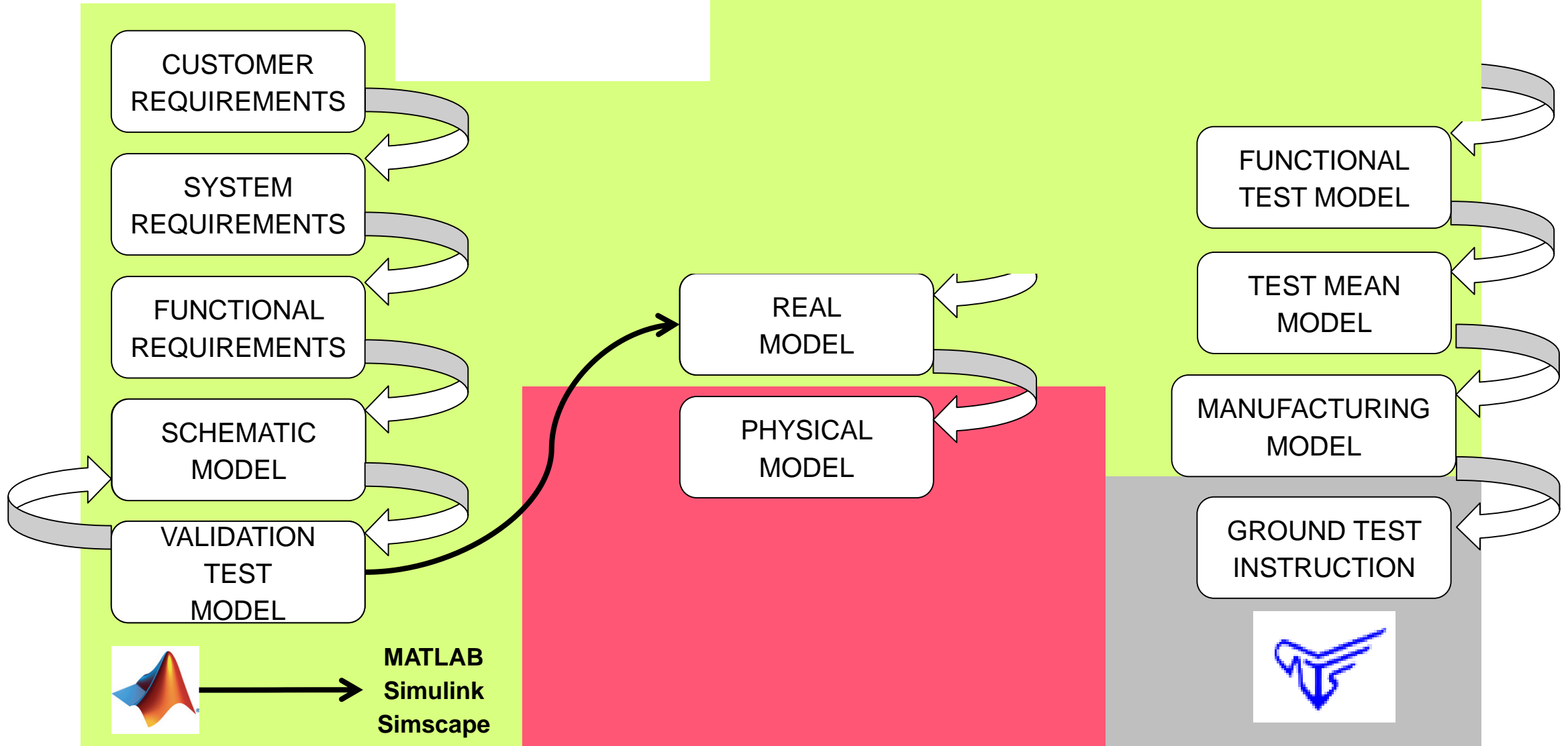
MRTT MANUFACTURING ENGINEERING DEPARTMENT



DIGITAL TWIN AIRCRAFT



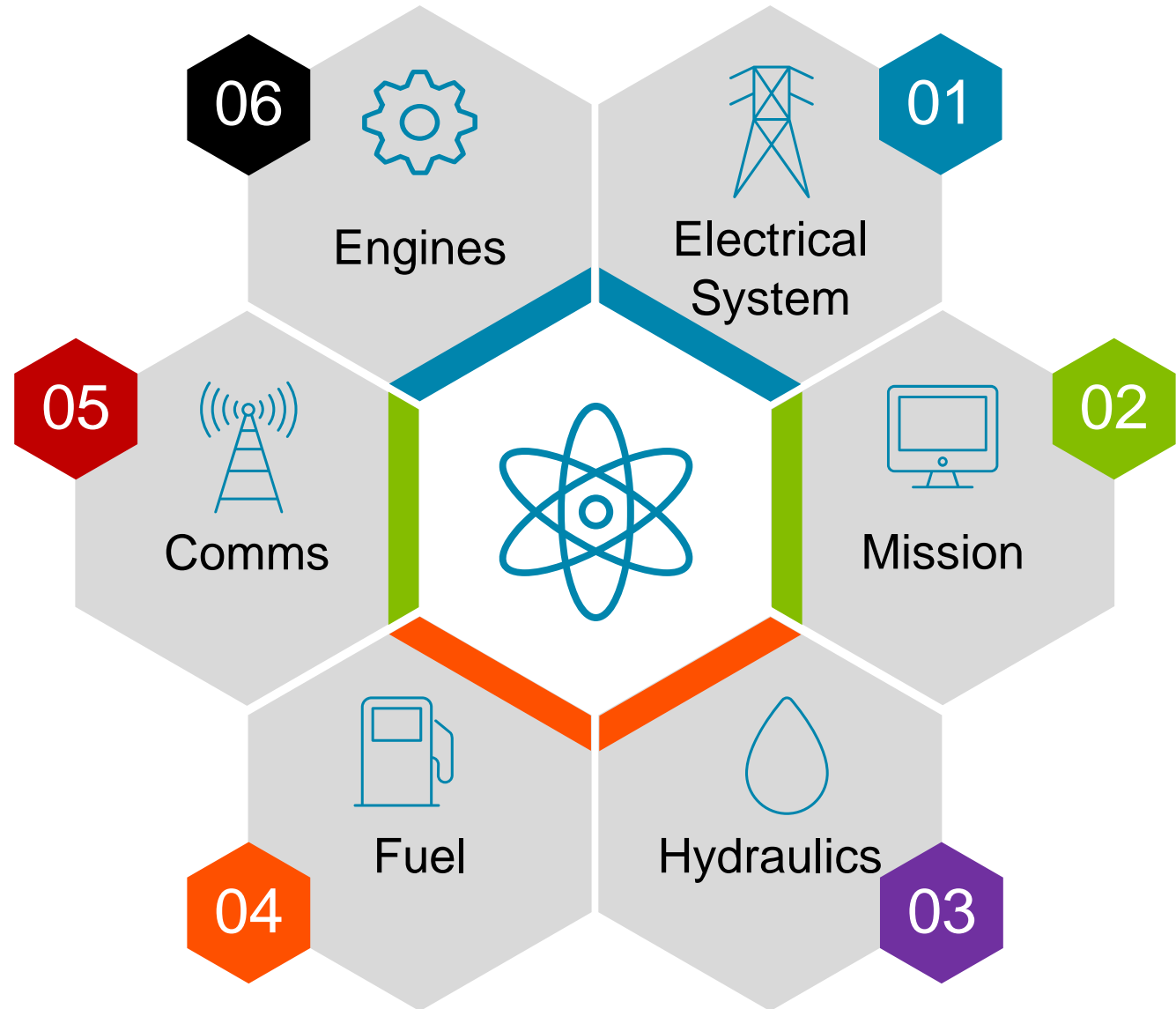
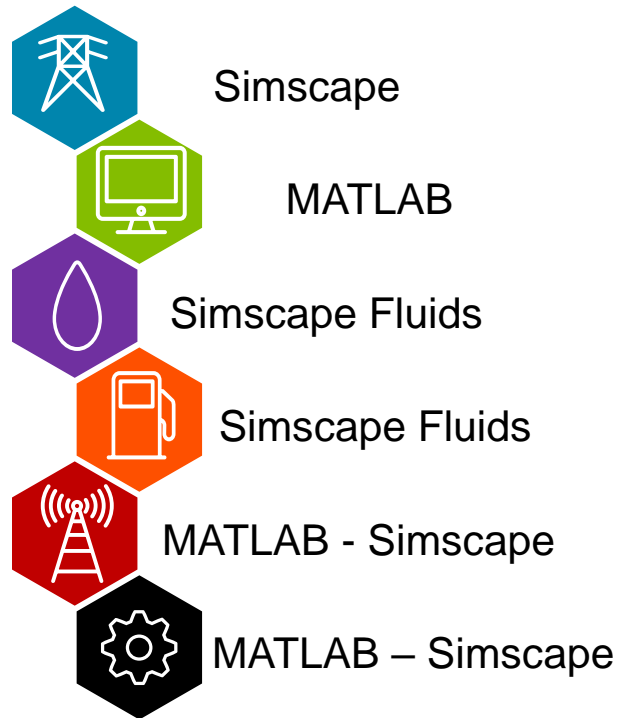
BASIC CONCEPTS AND TOOLS



THE BRIDGE



NEXT STEP



CONCLUSIONS

Modelling cost

"A big model needs time"

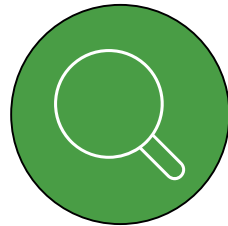


New skills required



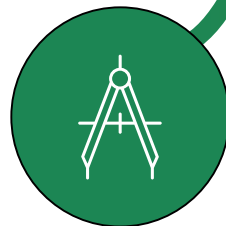
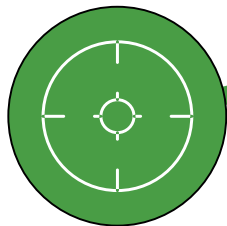
Troubleshooting made easy

"The path is easier if they light your way"



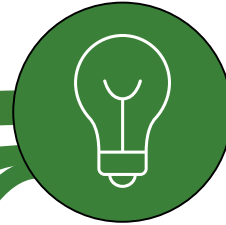
Detect design failures

"The earlier, the better"



Deep understanding of the system

"Let the engineers be engineers again"

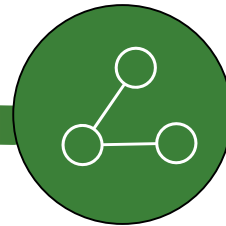


Flexibility

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

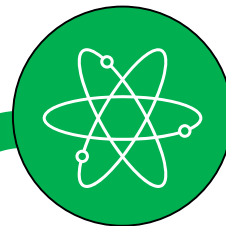
Reusing

"A small effort becomes a big difference"



Dynamic tool

"Wiring diagrams are alive!"



QUESTIONS

Thank you