

# U-TEST

From virtual test  
to a qualified system

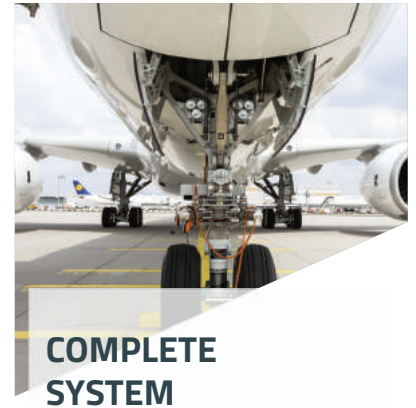
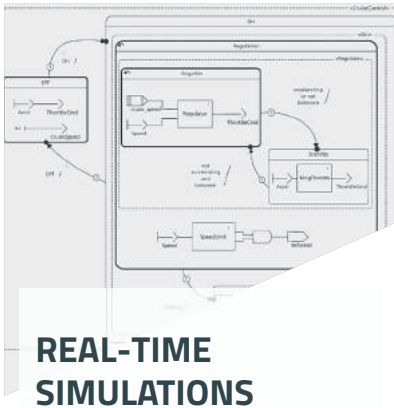


SPHEREA

# U-TEST

## VALIDATION, INTEGRATION, QUALIFICATION of complex systems

Hybrid platform combining real-time simulations and real hardware



System maturity in the upper phases of development cycle

— Reduction of overcosts and delays due to the late discovery of problems

Full continuity  
of the validation process,  
from design to final acceptance \_\_\_\_\_



Continuous reuse of the test procedures

Performance and modularity \_\_\_\_\_

U-TEST, the test "toolbox" for complex systems  
Open and modular software architecture

### WIDE RANGE OF INSTRUMENTS

- Match your specific needs however complex they are
- Fully configurable and adaptable to your business sector

More than **50** U-TEST benches  
all around the world

# U-TEST

---

## Real-time testing of complex and on-board systems

<b>General Functionalities</b>	Data monitoring, acquisition, recording, generation & analysis functions Raw data conversion from the numeric buses to high level engineering variables Integrated Editor to design customized Man Machine Interface
<b>Test system configuration</b>	Configuration of the Bench Signal Database through powerful ICD editor and importer Configuration of the bench hardware resources Definition and configuration of the equipment under test (either simulated or real)
<b>Simulation &amp; models development, integration and execution</b>	Complete simulation development environment based on Eclipse framework. Numerous development languages (C, C++, Fortran, Python, etc.) supported Ability to import simulations from various third party modelling environment (Scade, Matlab, etc.) Real time execution engine both for simulation and user test code
<b>Global Data Space</b>	Sharing data between the various test bench components through a real time database of typed variables Distribution of real time system components on a standard Ethernet network
<b>Hardware Resources Abstraction</b>	Ensure the independence of software from hardware Allows native network access to hardware Linux and Windows versions available
<b>Test automation</b>	Automated test cases Customizable test report
<b>Third-party analysis tools integration</b>	Origin Pro, Intespace Dynaworks

# U-TEST

---

A community gathered around  
a proven product used  
on demanding programs

## + OF THE U-TEST CONSORTIUM

- Source code shared within the community
- Enrichment of the product by technical experts
- Sustainability guaranteed for decades
- Implementation of test means in full autonomy

---

## Focused on your critical systems

---



[www.spherea.de](http://www.spherea.de)

SPHEREA GmbH  
Magirus-Deutz-Strasse 13  
89077 Ulm  
T +49 (0) 731 17630 0  
F +49 (0) 731 17630 109  
E [sales@spherea.de](mailto:sales@spherea.de)

