

TECHNOLOGIES



Electronic (Avionic)

Test benches from equipment via systems up to complete Rids and Iron Birds in development, production and maintenance.



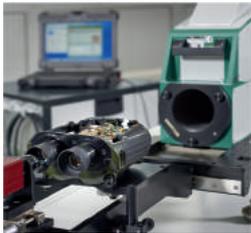
Radio Frequencies

Data and information transmission belongs to most testing projects. Spherea masters technologies up to radar frequencies to design testing tools for RF emitting and receiving systems such as jammers or radar warners.



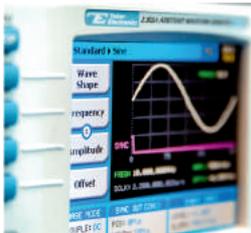
Simulation/Stimulation

Measurement & Testing is nowadays fully integrated into development and production. Spherea provides generic platforms (HW/SW) to modell, simulate all type of electronic/ electric environment.



Optronics

Linking electronic with optic and simulate them in different environments order to calibrate both technologies is one of the core competences of Spherea.



Sensors / Actuators

Spherea can modell or physically bring on any equipment, including measuring and testing devices all kind of sensors and actuators and make them become smart tools.



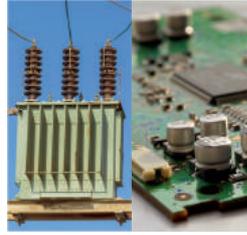
Deployable Systems

More and more exists the requirement to have mobile testing facilities. Spherea can provide full equipment containment up to ISO5 in a mobile infrastructure.



Obsolescence Treatment

Never change a running system! Even after 30 years, Spherea ensure perenity of MIL and Aerospace complex complete system (HW/SW).



Power

Should you require to go from 200mA up to 2kA within ms according to a certain path or should you look for absorbtion, Spherea modell, simulate, measure and test all power sources.



Safety Critical

As soon as a complex system is linked with safety, Spherea technologies bricks can be put together to provide validation, verification and readiness for certification.



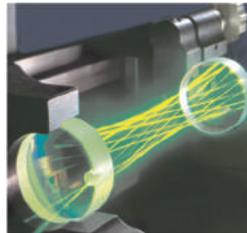
Electronic Warfare

Army of several nations have deployed Spherea EWS workshop and portable especially designed test equipment. Test equipment are modular and comprise on plattform LRU test units.



Mechatronic

In order to modell real environment Spherea has developed specific competances and partnership to design and manufacture dynamic mechanical test equipment with integrated electronics.



Spectroscopy

To detect chemical elements in very low concentrations in the air, Spherea has developed a Laser Ion Mobility Spectroscopie to identify molecules in real time. Its application range from semiconductor industry via security up to industrial environment control.



MIL-grade

Core competence, Spherea can realise all type of rigs and other measuring, simulating and testing equipment fulfilling the ultimate MIL Standards in system as well as in process quality.



Digital solutions

Being able to transform data into information and knowledge management with the possibility to integrate supervision of availability, status and localisation is part of this digital brick.

COMPETENCIES

Management Processes

- Project Management (PMI/ PMBOK)
- Lean Processes
- Prime Contractor
- Military Standards



System Engineering

- System Design
- INCOSE
- HW/SW in the loop
- Design to real customer needs
- Managing complexity



Hardware

- Repair Capabilities
- Electrical Design
- PCB Design
- Mechanical Design



Support Functions

- Bench maintenance
- ILS/ISS
- Natinal Eyes only (as needed)
- Collaboration with universities
- Covering specific Q-Requirements



Integrator

- Use of all Spherea competences
- Independent on bundling
- Integration / Debugging of complex systems
- Supplier Management



Software

- Test Management Software
- U-TEST (RT)
- Driver Software
- Operating Systems



Test Application

- Consultancy
- Test Sequencing
- Measurement Technologies
- On-Platform tester (AGE)
- Long-term maintenance
- Reverse Engineering

