

# ARQUIMEA

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Passion for Technology

# Who?

**ARQUIMEA** is an **Engineering** company that provides design and development services in the area of **sensors, actuators** and **microsystems**.

Located in Madrid, Spain, at the Scientific and technological Park of Leganés, **ARQUIMEA** was founded in the year 2007. Today, the company is currently active in different industrial sectors such as Automotive, Defence, Aerospace, and Transport.

In 2008, **ARQUIMEA** created **EXPACE**, devoted to the development and manufacturing of on board systems (avionics), mainly in the military a civil aircraft sectors.

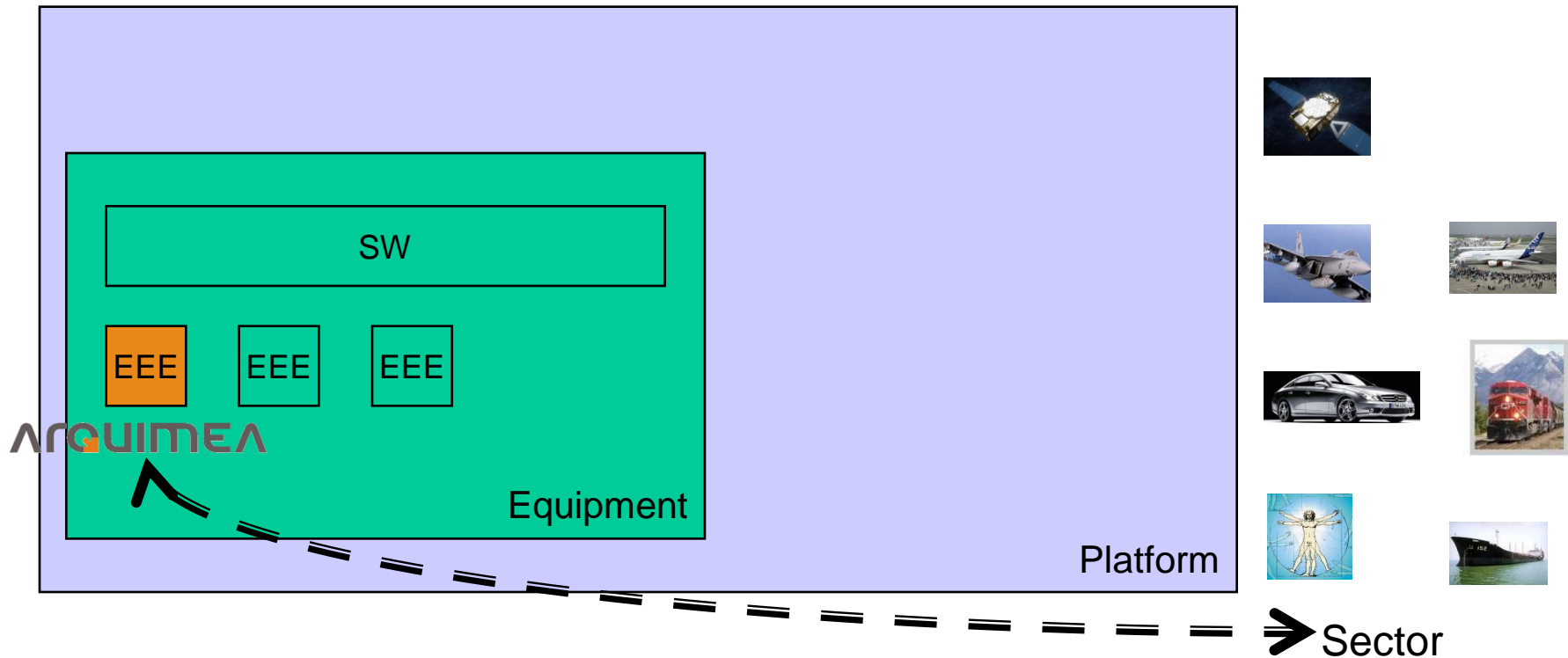


**EXPACE**  
on board

[www.arquimea.com](http://www.arquimea.com)

[www.expace.es](http://www.expace.es)

# Custom Part for each Sector



# ARQUIMEA expertise



uncooled NIR sensors (1-5  $\mu\text{m}$ )  
electronic compass  $<0,2^\circ$  accuracy  
Low mass ultracompact IMU, 1 $^\circ/\text{h}$   
Aerosol spectroscopy ( $<10\text{nm}$  particle)  
Explosive detection



Actuator based on functional materials (SMA,PZT)  
Radiation hard actuators  
Magnetic field hard, and EMI/EMC free actuators  
Ultralight actuators (Automotive, Aerospace)



Development of mixed signal ASICs.  
**Packaging (hybrid, ceramic, etc...) (1Q 2010)**  
**Automated line for Micromechanization (1Q 2010)**  
**Si Sensors manufacturing (1Q 2010)**

# ARQUIMEA facilities for Si Sensor manufacturing

- A Clean room for Microsystems processing micromachining & Packaging is now being built, and shall be ready by the end of 2009.
- 200 m<sup>2</sup> ISO 4
- Agreements with external local clean rooms and our own equipment shall include facilities for:
  - Plasma tools
  - Mask aligners
  - Ion implantation
  - Packaging
- Clean room shall start operation by 1Q 2010.



# Tools for Microelectronics design flow

cādence

Mentor  
Graphics®

SYNOPSYS®

ANALOG FE

VERIFICATION

DIGITAL FLOW

ANALOG BE

ANALOG SIMU

EXTRACTION

DIGITAL FLOW

DFT

ANALOG SIMU



Proprietary Libraries for radiation hardening by design

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