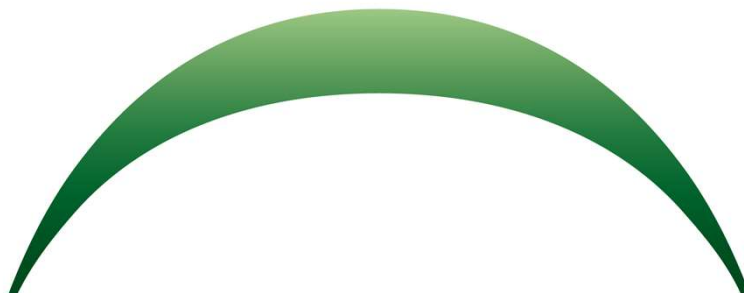


ART / TEMIS Presentation



UMBRIA AEROSPACE CLUSTER





- Located in Passignano sul Trasimeno (PG), Italy
- Historical restoration of an ancient burg to become a technological and training centre
- Surrounded by 25 ha of woods
- A total of 13000 m2 covered surface

Operative Area

A 6000 m2 completely refurbished area used as headquarter, industrial and residential buildings.

Area in development

About 3500 m2 of the burg, including the old church, will be restored to become guests houses and training halls.

Near-future development Area

The mansion house of 3500 m2 will be dedicated to training halls and reception.



AEROSPACE



DEFENCE



AUTOMOTIVE & MOTORSPORT



RAILWAYS & TRANSPORTATION





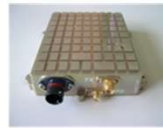
DST Prototype



Marshalling Sys.



A1GP



Flex FPU



MTX F



**New headquarter
"Pischiello"**

**ART capital
increase,
becomes
S.p.a.**

MTX Nano



**ART GROUP
ADVANCED RESEARCH TECHNOLOGY**
Born of ART S.r.l.

2000

2000-2007

2008

2010

2011

2012

2006

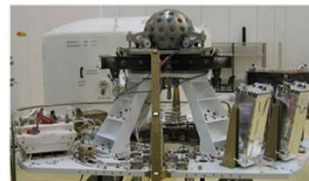
2008

2011

Born of TEMIS S.r.l.

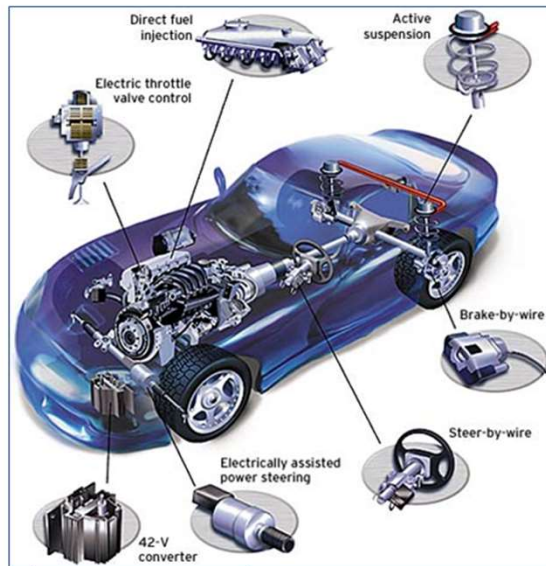


VEGA-LARES Project

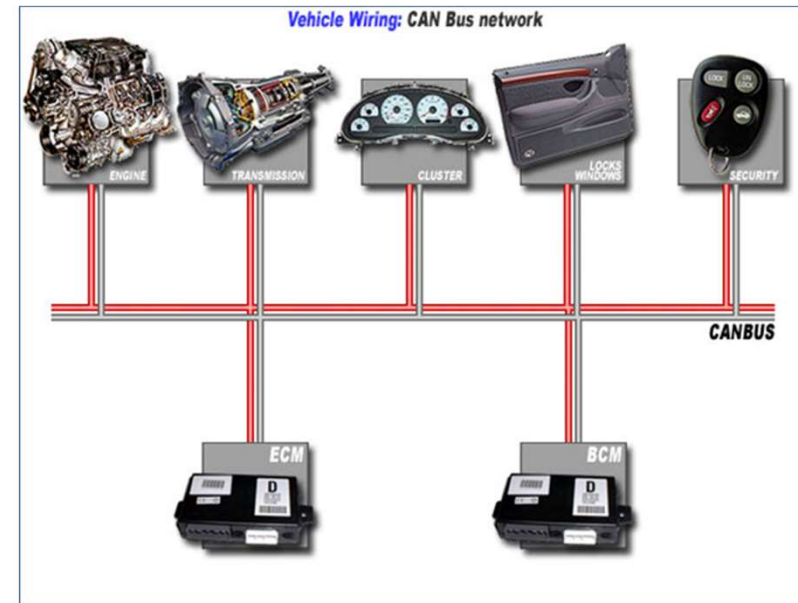


VEGA - ALTS Project





CAN bus



➤ **Safety critical / Reliability Critical**



Accident detection and AIRBAG actuation

➤ **Safety critical / Reliability Critical**



Wheel slip detection, ABS actuation/mgmt.

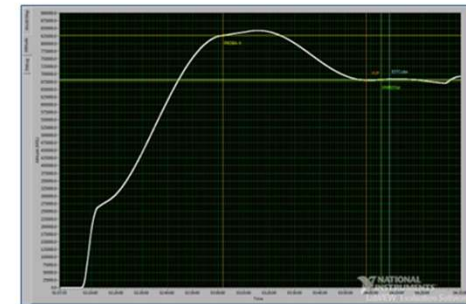
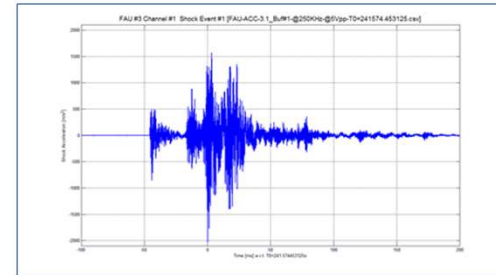
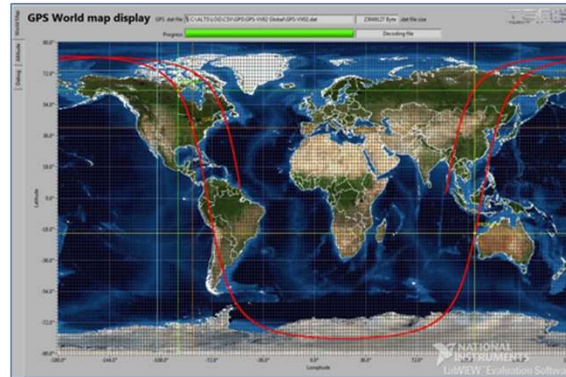
➤ **Robustness / Safety / Reliability**



Engine combustion control and health status



CAN bus



➤ **Safety critical / Reliability Critical**

➡ **Scientific / Flight data acquisition**

➤ **Robustness / Safety / Reliability**

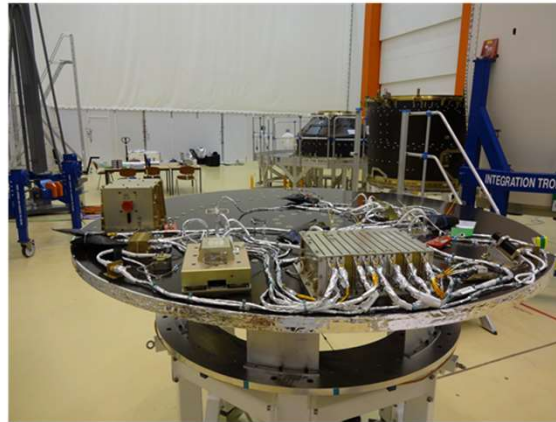
➡ **Launcher attitude sensing**

➤ **Robustness / Reliability**

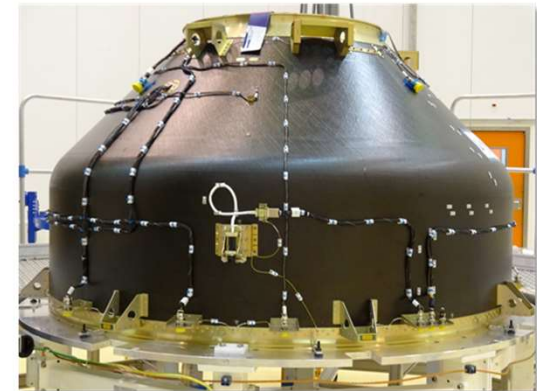
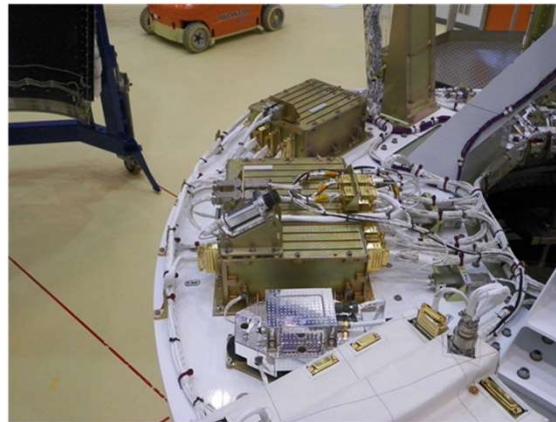
➡ **Data handling timeline management
(including remote upload)**



Launcher Telemetry – Two active and successful mission on VEGA launcher



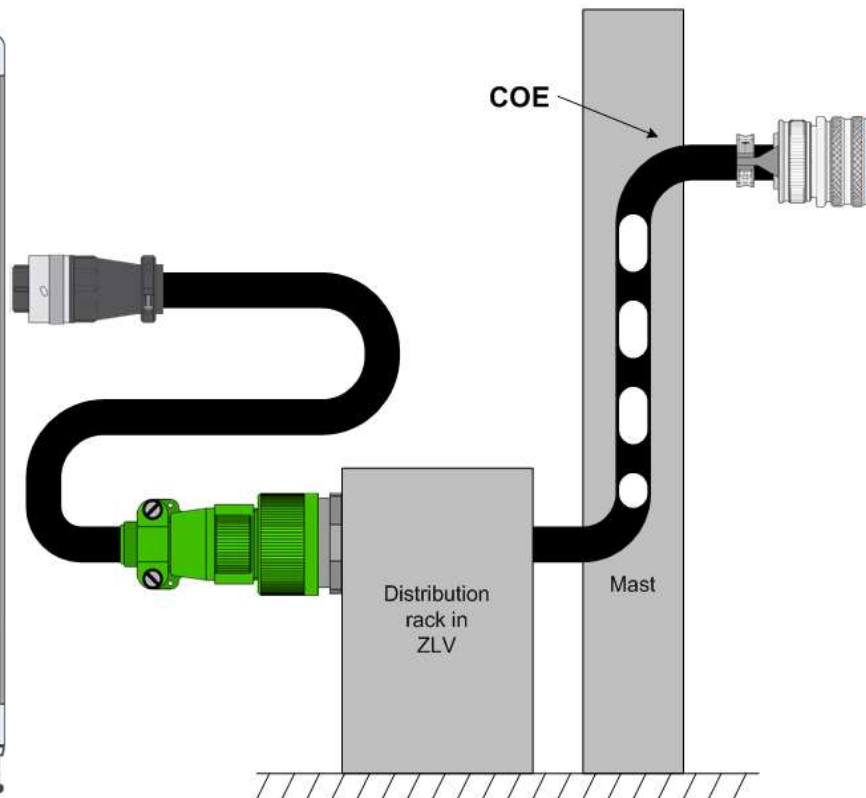
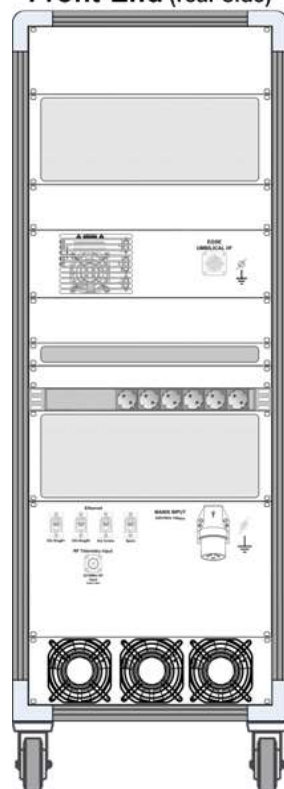
Platform Level Integration

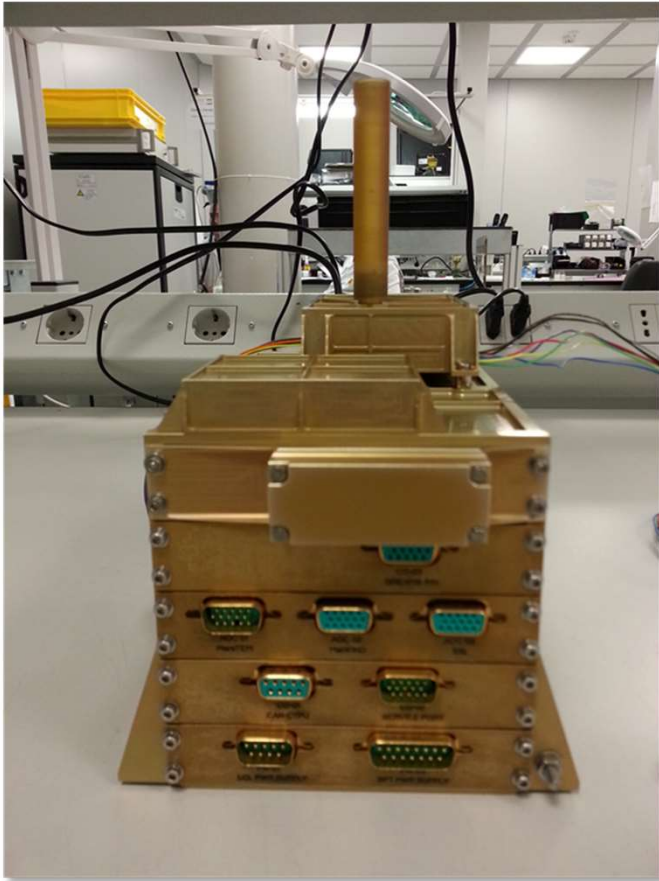


Camera Integration on composite



ALTS EGSE Front-End (rear side)

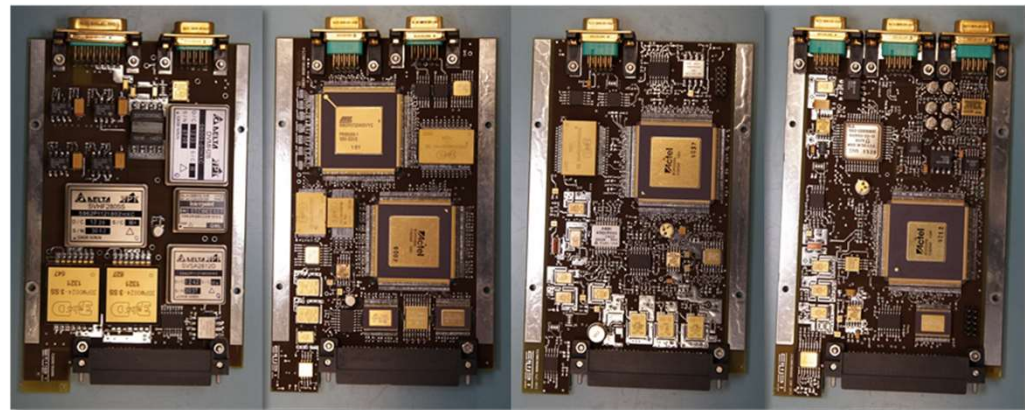




ExoMARS 2016 – DREAMS Experiment
(on EDM)



Clean Room ISO7 (200 sq.m.)



DC/DC

OBDH

CPU

ADC