

LEADING-EDGE MECHANICAL EQUIPMENT



# LIDAX at a Glance

2018



## EUROPEAN SME LEADER on High performance opto-mechanics & fine positioning subsystems For Space & Science Instrumentation

### High Customers satisfaction

- 1-Technical Capability
- 2-Transparency to the Customer
- 3-Commitment with Quality
- 4-Optimized Cost



Well established  
partnerships with  
PRIMES, Subsidiaries  
& R+D Laboratories



40 Engineers &  
Technicians with 1st  
class facilities  
oriented to >80%  
on D+i Activities



2000



Founded by two  
Aerospace Engineers  
with more than 20  
year of Experience

Worldwide Reference  
on Opto-Thermo-  
Mechanics "Always  
below the  $\mu\text{m}$ "



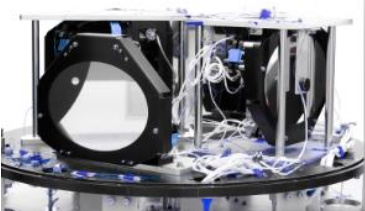
located in Madrid,  
with 80% export  
sales in EU Market



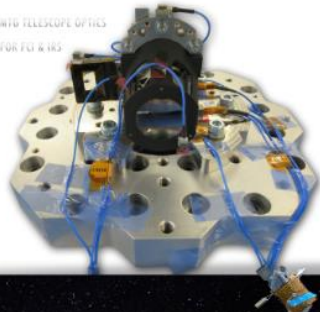
# Product Families & Heritage



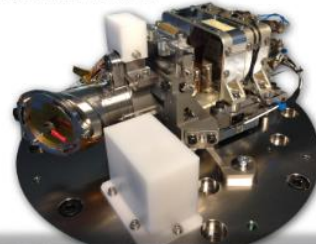
MIRI TELESCOPE SIMULATOR ACTIVE FOLDING MIRRORS



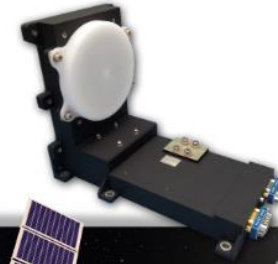
WFO TELESCOPE OPTICS FOR FCI & IRS



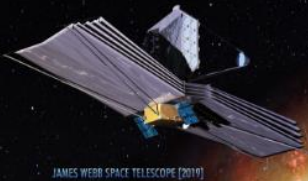
FPA CAS CO-ALIGNMENT SENSOR AT/LID



FPA FOR MIX-T & MIX-C INSTRUMENT



INTERNAL OPTICAL HEAD & AUTOFOCUS MECHANISM KAMAN SPECTROMETER



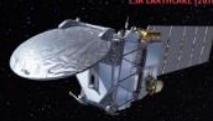
JAMES WEBB SPACE TELESCOPE (2019)

**OPTICAL GROUND  
SUPPORT EQUIPMENT**



ESA EUMETSAT  
METEOSAT THIRD GENERATION (2020-2030)

**OPTO-MECHANICAL  
SUBSYSTEMS**

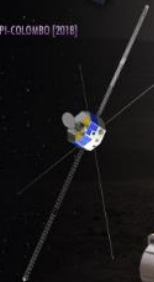


ESA EARTH CARE (2018)

**FOCAL PLANE ASSEMBLIES  
FOR ELECTRO-OPTICAL SYSTEMS**



ESA BEPI-COLOMBO (2018)














ESA EXOMARS (2020)



**HIGH RESOLUTION  
MECHANISMS**

UNDER VACUUM / CRYO / HOT / RADIATION / PLANETARY PROTECTION

# Product Development Heritage

		ON GROUND	FLIGHT SPACE HARDWARE			
INTEGRATION LEVEL		SYSTEM (S)	EQUIPMENT (E)			
YEAR	MISSIONS	OGSE FOR SCI INSTRUMENTS	FOCAL PLANE ASSEMBLIES	OPTO-MECHANICAL ASSEMBLIES	MECHANISM	MARKET
	2004 ESA Herschel	MGSE for Telescope Mounting Structure				SCIENCE
	2007-8 ESA James Webb Space Telescope	MIRI-MTS Cryogenic Folding Mirrors & Pick Off Mirror				SCIENCE
	2007-12 ESA BepiColombo		MIXS-T & MIXS-C FPA			SCIENCE
	2011-... ESA PLATO		PLATO FPA			SCIENCE
	2011 ESA JEM-EUSO		JEM EUSO IR Camera			SCIENCE
	2009-10 ROSCOSMOS WSO		ISSIS FPA			SCIENCE
	2010 SEOSAT INGENIO			UVAS Spectrometer		SCIENCE
	2010-16 ESA EXOMARS	RAMAM Spectrometer Demonstrator		RAMAN Laser RAMAN iOptical Head	RAMAM Autofocus Mechanism	PLANETARY EXPLORATION
	2009-11 ESA Proba 3		Coarse Lateral Sensor FPA	Optical Box		FF TECHNOLOGY DEMONSTRATION
	2012-16 ESA Earthcare		Co-alignment Sensor ATLID FPA			EARTH OBSERVATION
	2013-... ESA MTG			Optical Mounts for Telescope Optics IRS & FCI		EARTH OBSERVATION

# Main Customers



CENTRO DE ASTROBIOLOGÍA  
ASOCIADO AL NASA ASTROBIOLOGY INSTITUTE

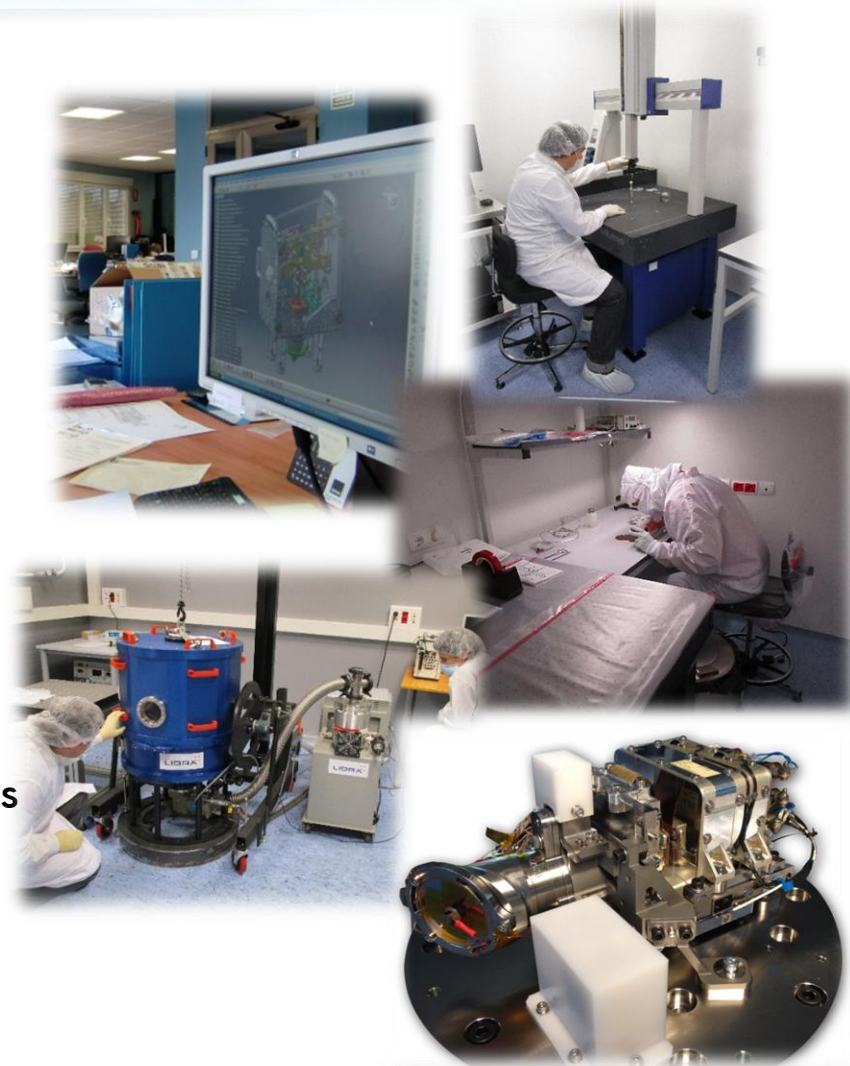


CSIC



# TEAM & Facilities

- ∴ **Project & PA/QA Management**
- ∴ **System Engineering**
- ∴ **Product Engineering**
  - Opto-Mechanical Design
  - Thermal & Structural Analysis
  - AIT Engineering
- ∴ **Purchasing & Procurement Team**
- ∴ **Assembly & Integration (ISO 5/7)**
- ∴ **Testing Facilities in house**
  - Cryostat & Radiative Oven
  - Vacuum Oven for Bake-outs
  - Optical Metrology Tools for Functional Tests
  - Inspections Systems for Product Assurance
- ∴ **TVC & Vibration Machines nearby**



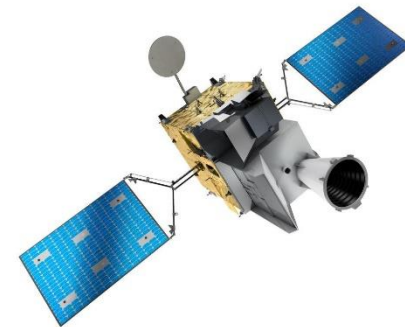
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# THANKS

# FOR YOUR ATTENTION

