

# Company Overview & Space Systems Unit Profile

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Rome, 22<sup>th</sup> June 2012

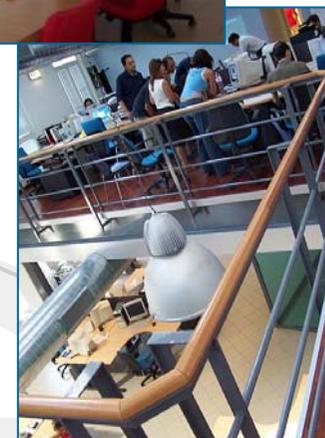
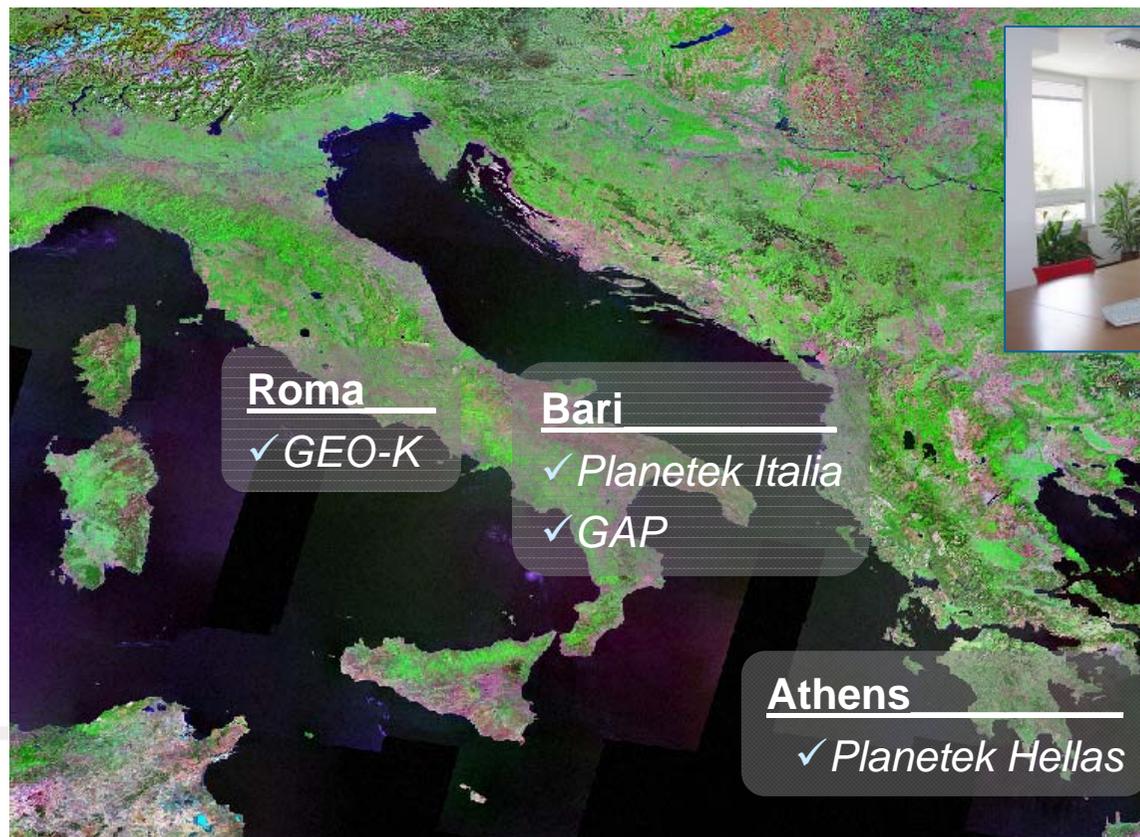
A large, stylized version of the Planetek logo at the bottom of the slide. The letters "PT ANETEK" are rendered in a bold, grey, sans-serif font. A large, dark grey bird-like graphic, similar to the one in the top right, is superimposed over the letters, with its wings spread across the top of the "A", "N", and "E".

# Planetek Group



Planetek Italia is one of the main Italian **Space System**  
**and Earth Observation value added Company.**

It is classified as SME



# General Business (1/2)



## Four Strategic Business Units

### European Institutions

- EO value added products and services for Environmental Monitoring, Urban Planning and Risks Management
- National and International Agencies

### Government & Security

- Applications for Urban Planning, Civil Protection, Tourism EO services, Sea and Coastal, Agriculture and Forest monitoring
- National and International Public Administrations and Defence

### Business 2 Business

- Value Added EO geo-informative services
- National and International market of Energy, Transport and Engineering companies

# General Business (2/2)



## Four Strategic Business Units

### Space Systems

#### Application Fields:

- Processing and Archiving facilities
- Mission planning and performance monitoring systems
- On board processing software for the Space Segment
- Real-time systems
- Application oriented mission analysis



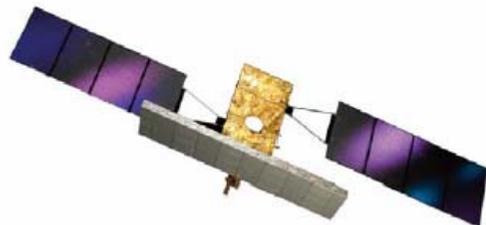
#### Market sectors:

- National and International Agencies (ASI, ESA, EU)
- Aerospace major players (Thales Alenia Space, EADS Astrium, Telespazio, OHB, SSTL, ecc.)

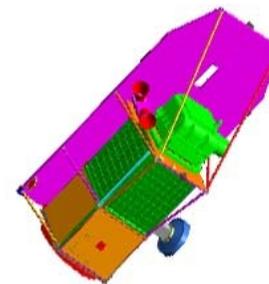
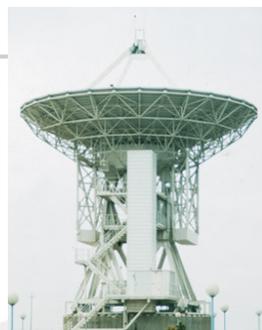
#### Specilized skills:

- Space and Systems engineering specialists

## Mission Programs



COSMO SkyMED



PRISMA



# Planetary Exploration



## PAGIS

### (Planetary Geosciences Information System)

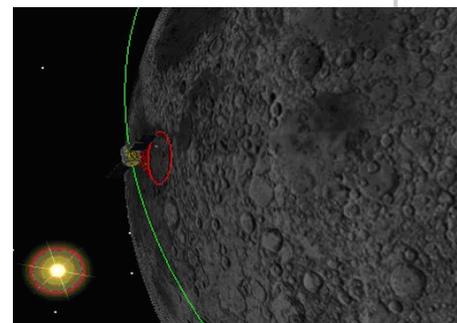
PAGIS is an ASI funded study that provides a reliable tool to the scientific community **to store and analyse data sets and geoscientific products** in a unique Geographical Information System environment



## MAGIA

### (Missione Altimetrica Gravimetrica Geochimica lunAre)

Mission study funded by ASI within “Small mission” activities and focused on the study of internal

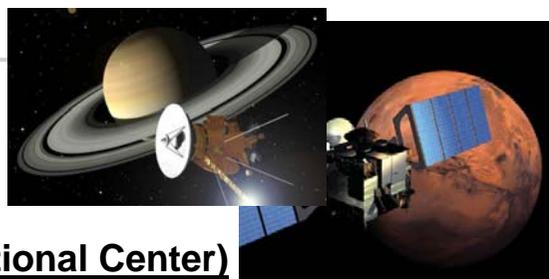


structure and polar and subpolar regions of the Moon.

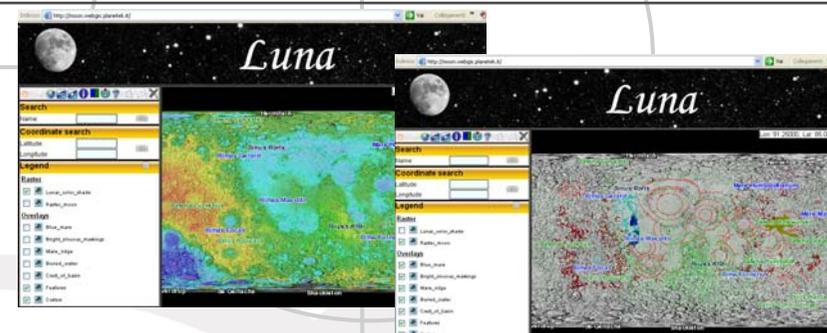
The Prime Contractor was INAF

## PROC

### (Planetary Radar Operational Center)



Web portal for the Italian Space Agency aimed to be the **UNIQUE operative center** for the control, management, processing and distribution of **SHARAD, MARSIS and CASSINI** data via the innovative tool SpaceGIS. The Prime Contractor was Thales Alenia Space Italy



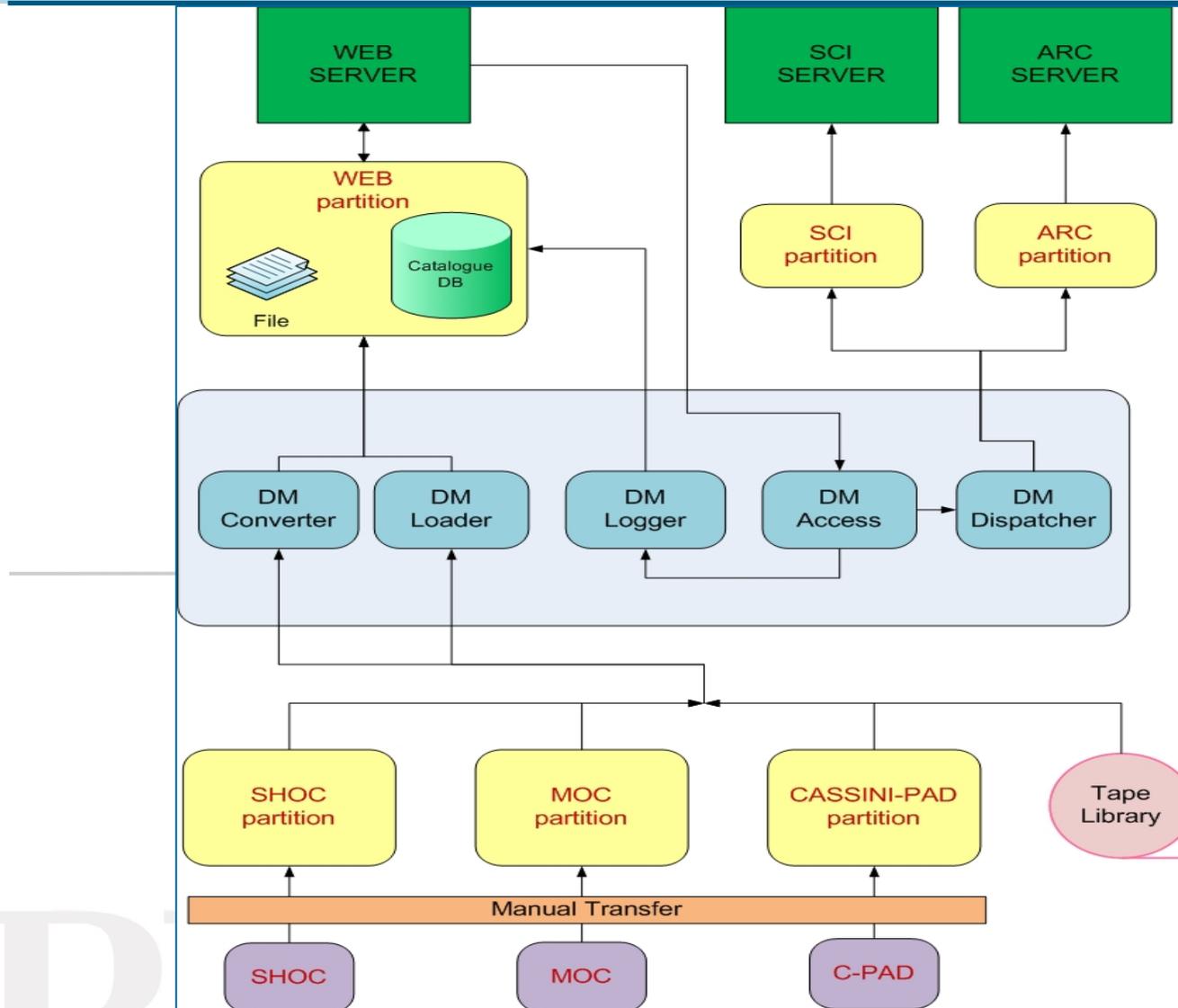
### WebGIS for Moon data

WebGIS application tool to deliver Moon data in a friendly, innovative and reliable way precursor of SpaceGIS

# Planetary Exploration



## PROC Archiving Facility, Data Manager and Web Portal Architecture



# Planetary Exploration



PROC Web Facility - <http://www.asi-proc.it/>

Planetary Radar Operational Center

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**NEWS**

- [EARTH MOON MARS](#)
- [MAJOR SOLAR FLARE ON MARCH 7TH AT 00:28 UT](#)

**PLANETS**



**MISSIONS**



**EVENTS**

- [PSG #29 - APRIL 2012](#)
- [JMSSTM - APRIL 2012](#)

**MISSION PRODUCTS**

- [R\\_2354402\\_001\\_SS19\\_700\\_A](#)
- [R\\_2348102\\_001\\_SS19\\_700\\_A](#)
- [R\\_2354701\\_001\\_SS19\\_700\\_A](#)
- [R\\_2349801\\_001\\_SS11\\_700\\_A](#)

**MULTIMEDIA**



**SPACEGIS**



**TAG CLOUD**

CASSINI JMSSTM MARS  
MARSIS MARTE MRO  
PDF SHARAD MISSIONE

IFSI ASI CO.RI.S.T.A.

# Planetary Exploration



PROC Web Facility - <http://www.asi-proc.it/>

Planetary Radar Operational Center

ASI Agenzia Spaziale Italiana | ThalesAlenia Space

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**Radargram and its relative data ground track are linked**

The interface displays a map of Mars with various regions labeled: UTOPIA PLANITIA, ARCADIA, ELYSIUM MONES, AMAZONIS, CERBERUS FRETUS, MARINERIS, ARGYRE, HELLAS, and TARSIS. Two radargram plots are shown, each with a vertical axis (0 to 8.0 and 0 to 8.0) and a horizontal axis (694 to 2340). Red arrows point from a text box to the map and the radargrams, indicating the link between the ground track and the data.

# Planetary Exploration



PROC Web Facility - <http://www.asi-proc.it/>

The screenshot displays the Planetary Radar Operational Center (PROC) web interface. At the top, the title "Planetary Radar Operational Center" is shown alongside logos for ASI (Agenzia Spaziale Italiana) and ThalesAlenia Space. A navigation menu includes links for HOME, PLANETS, MULTIMEDIA, MISSIONS, SPACE GIS, COMMUNICATION, COMMUNITY, PRODUCT SEARCH, and HELP. A search bar and utility links (site map, accessibility, contact) are also present.

The main content area features a 3D topographic map of a planetary surface. A vertical red dashed line is positioned at a specific longitude, with a corresponding data plot overlaid. Below the main map, a smaller plot shows a zoomed-in view of the surface data at the selected longitude.

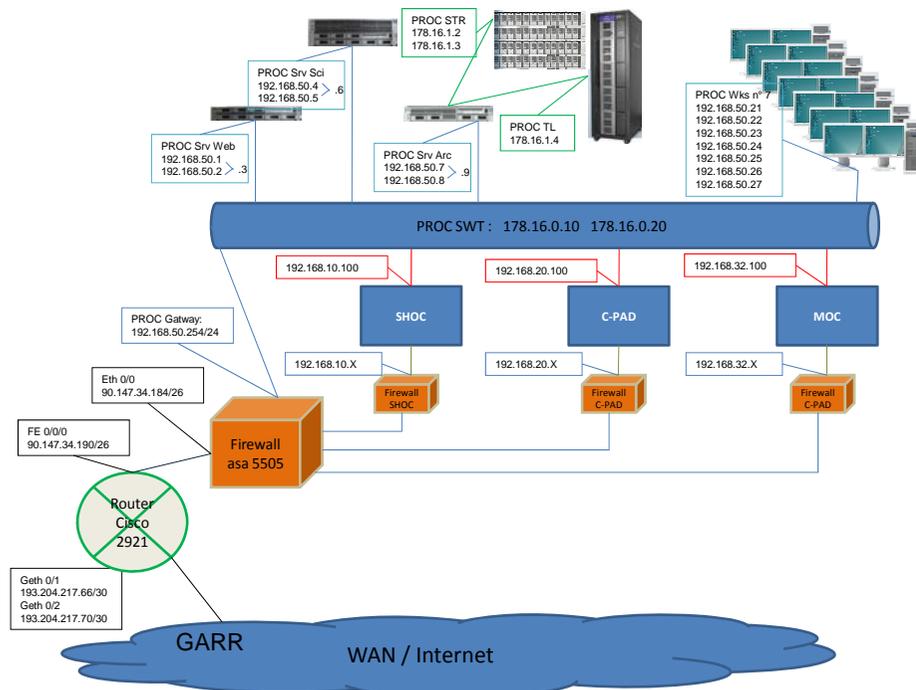
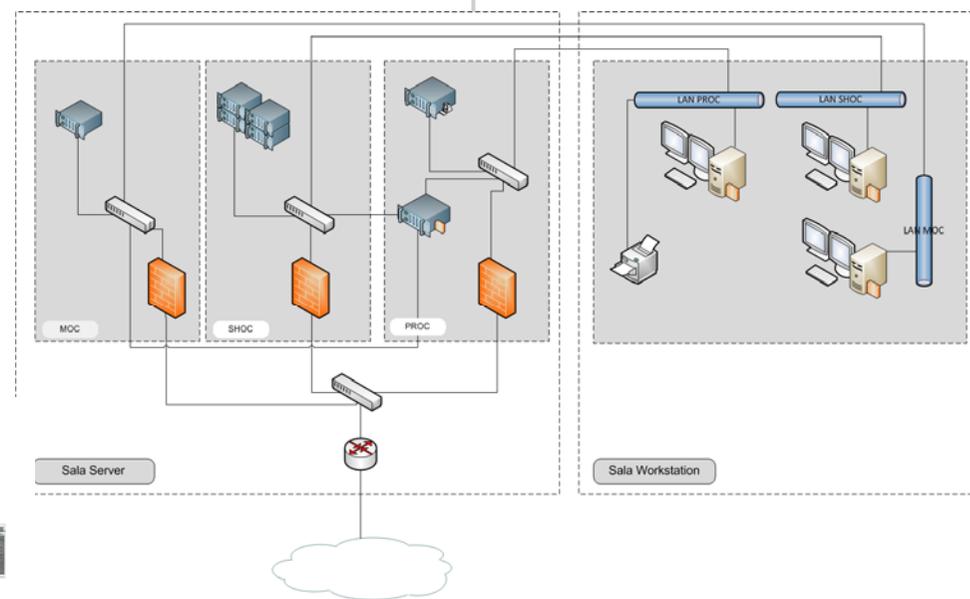
An inset window titled "PLOT" is open, displaying a line graph of "Echo Value (Frame Id 3596)". The graph plots Echo Value in dB (y-axis, 0 to 35) against Frame ID (x-axis, 300 to 650). The plot shows a series of peaks and troughs, with a prominent peak reaching approximately 35 dB at a Frame ID of about 380. The plot includes a legend and navigation controls.

# Planetary Exploration



## MOC-SHOC-PROC Facilities re-assessment

- Re-engineering and SW updating
  - to adapt the G/S to the mission long life, over 10.000 orbits (MOC)
  - to assess new needs from scientific teams



- Resource sharing analysis, trade-off and merging of the three centers to GARR WAN
- Relocation plan to the ASI premises
- Support to system control and maintenance during the operations of the missions

Thank you!

**For further information**

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