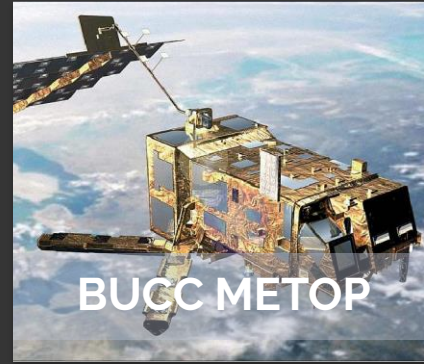
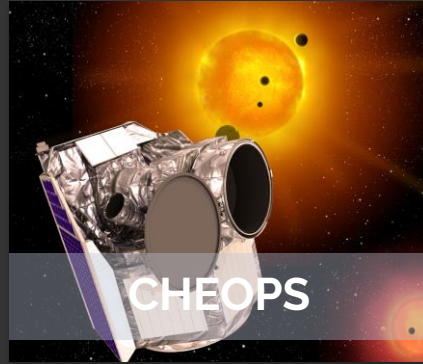

PAZ Mission Science Activities

María José González, Juan Manuel Cuerda, Eva Vega, Marcos
García, Nuria Casal

INTA (Spanish National Institute of Aerospace Technology)
EUSAR 2021

CEIT. Space Center INTA - Torrejón



PAZ Mission

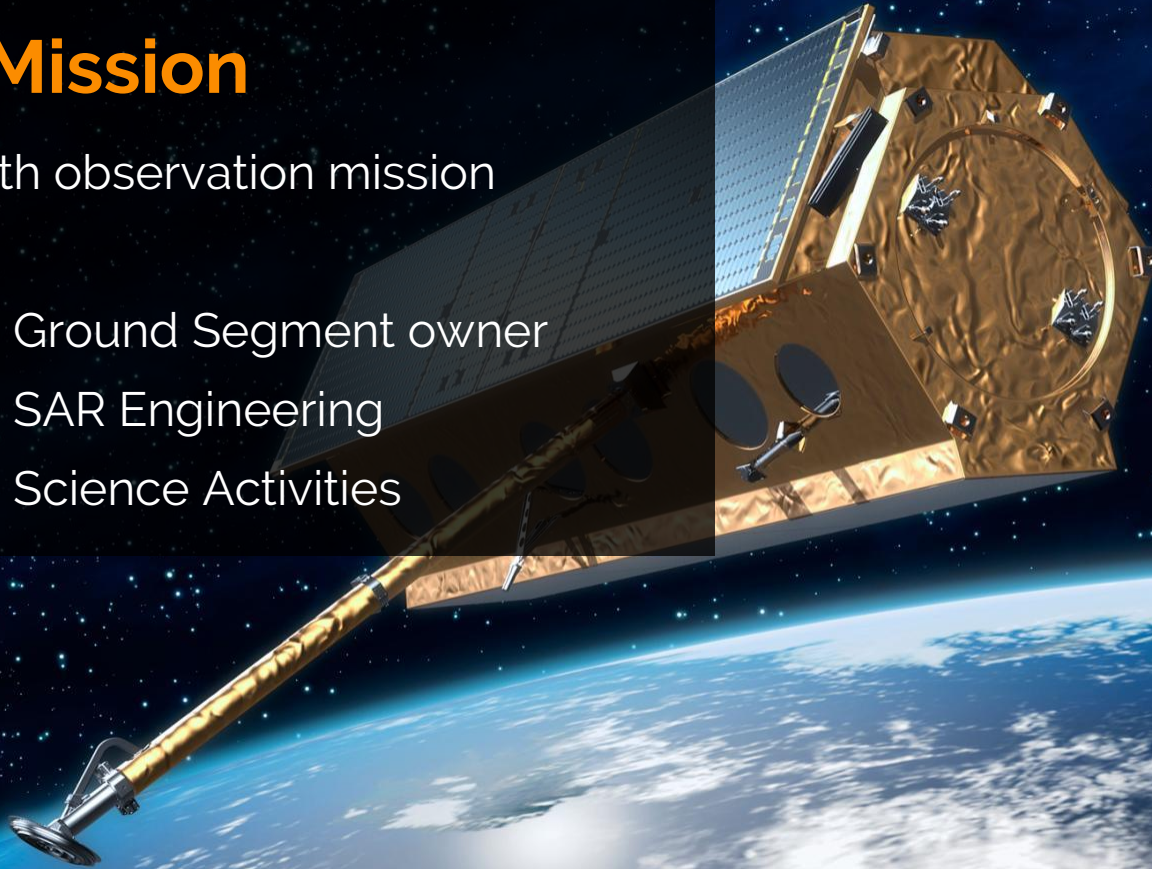
SAR earth observation mission

INTA

Ground Segment owner

SAR Engineering

Science Activities



• SAR Engineering

Calibration, Validation

Performance Monitoring

Development of methods, algorithms...

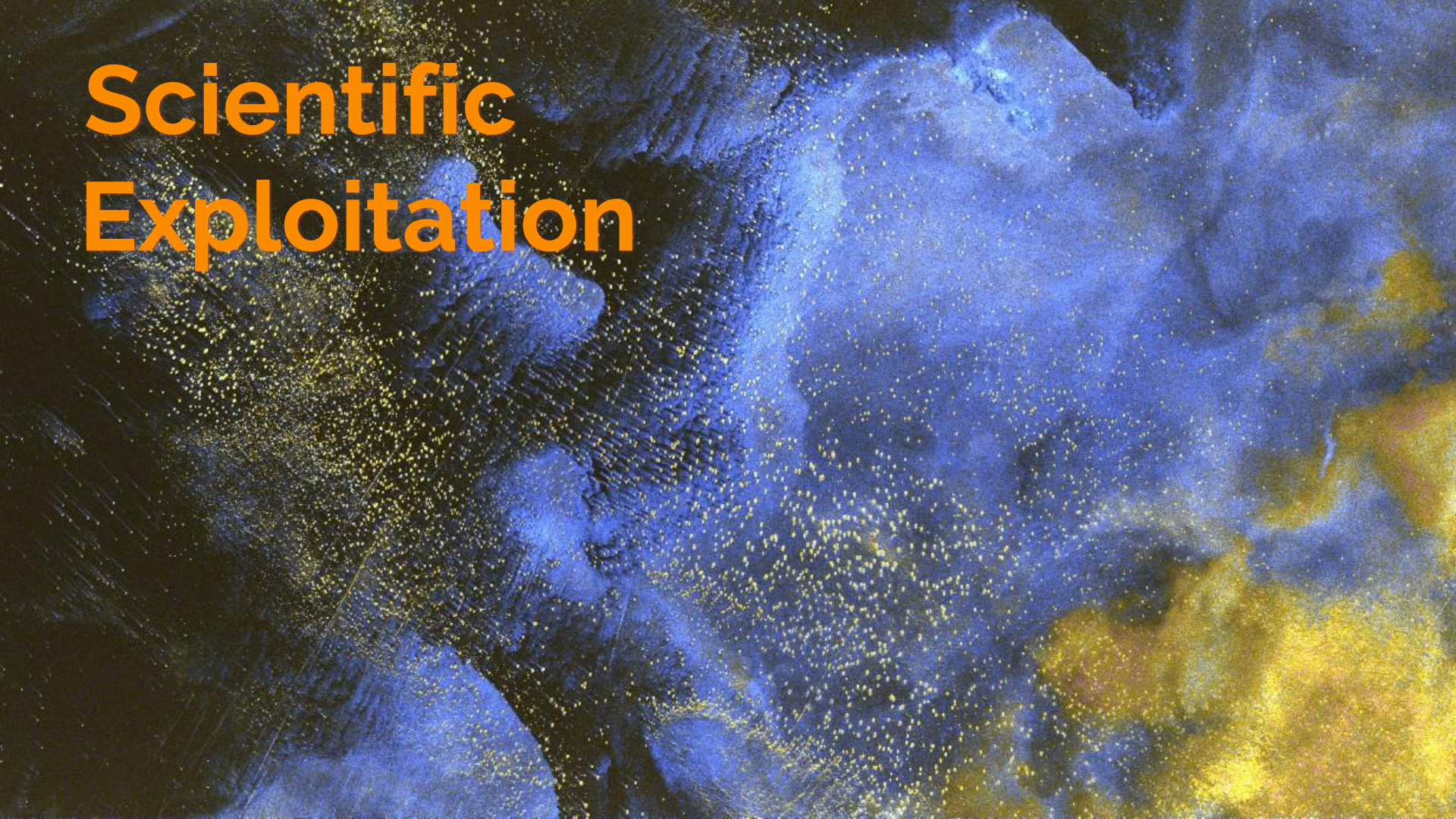
• Science Activities

Scientific Exploitation

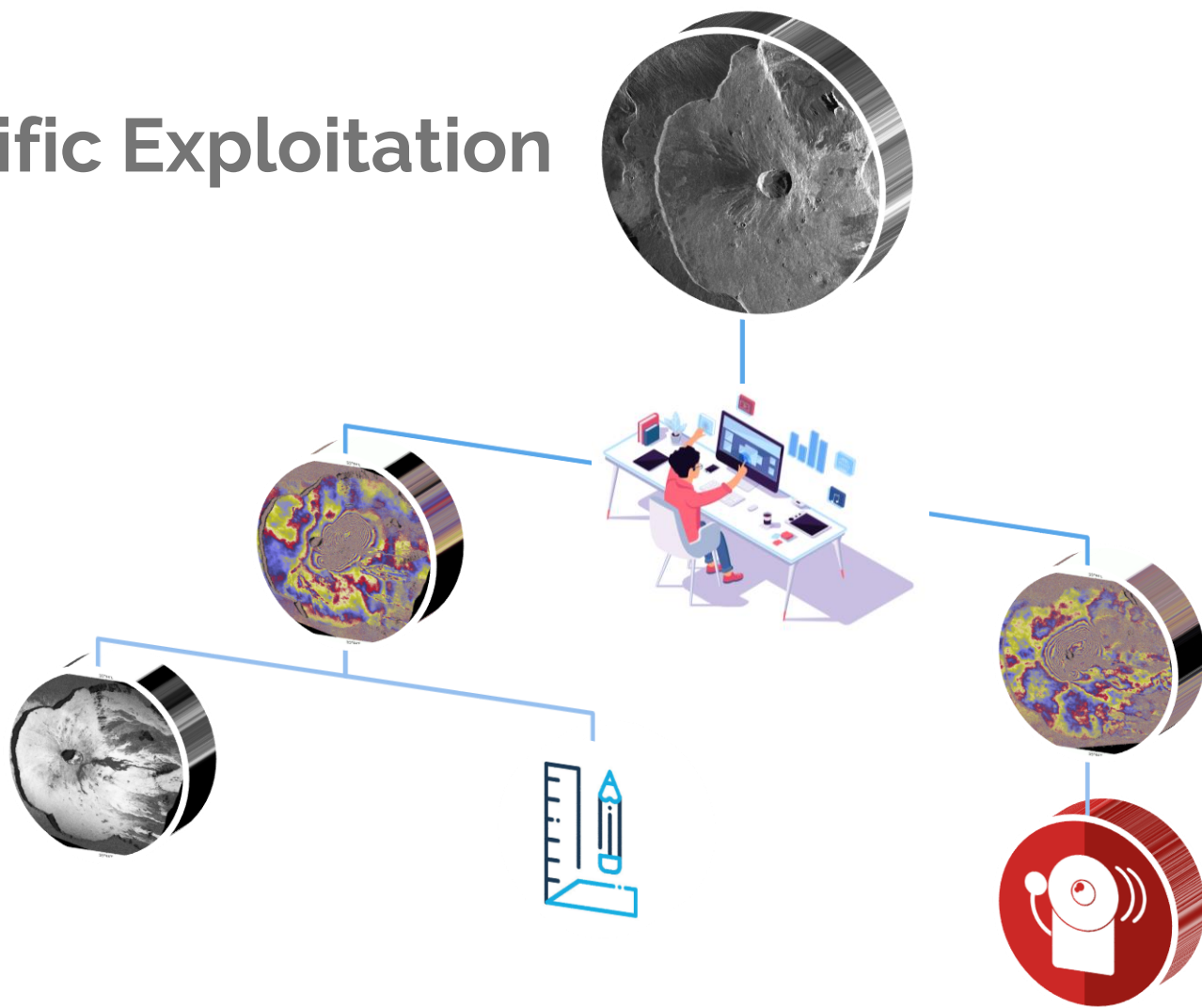
Science Segment

PAZ Science Divulcation

Scientific Exploitation

The background of the slide is a composite image of a starry night sky. On the left, there is a dark region filled with numerous small, bright yellow and white stars. In the center and right, a large, glowing blue nebula or star-forming region is visible, with intricate patterns of light and dark patches. To the right of the blue nebula, there is a bright, dense cluster of yellow and white stars, possibly a star-forming region or a young star cluster. The overall color palette is dominated by deep blues, bright yellows, and dark blacks, creating a sense of vastness and cosmic wonder.

Scientific Exploitation



Scientific Exploitation

Announcement of
opportunity

AO-001 On going

AO-002 Degrees, PhD

Agreements

DLR – INTA Agreement

AO-003 Joint TSX-TDX-PAZ

AO-001. General Purpose Call

Proposal reception and approval

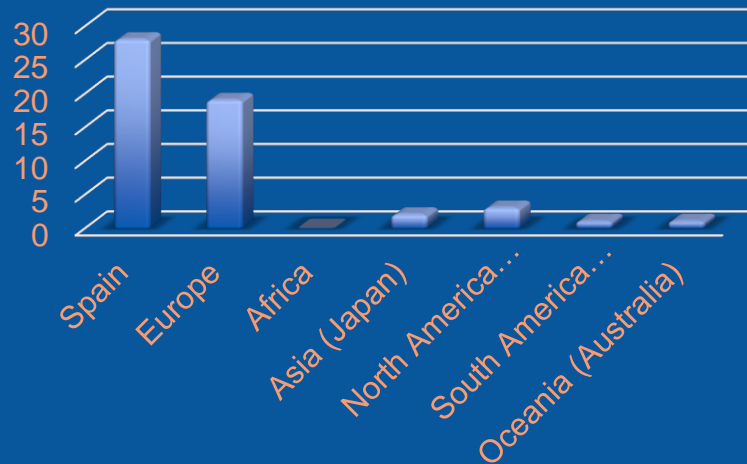
February-July 2019

PAZ Scientific Committee Review

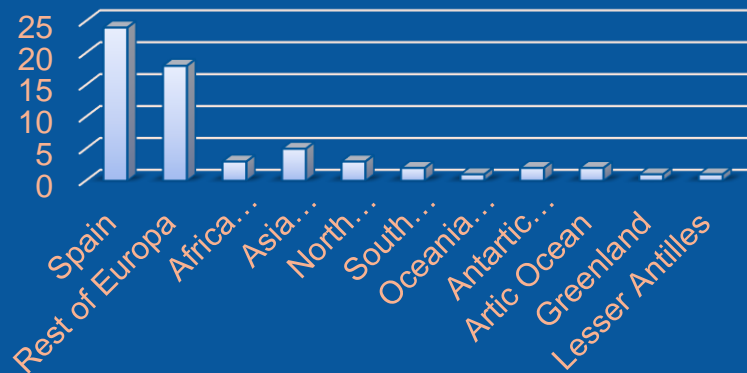
54 approved proposals

>3000 products delivered

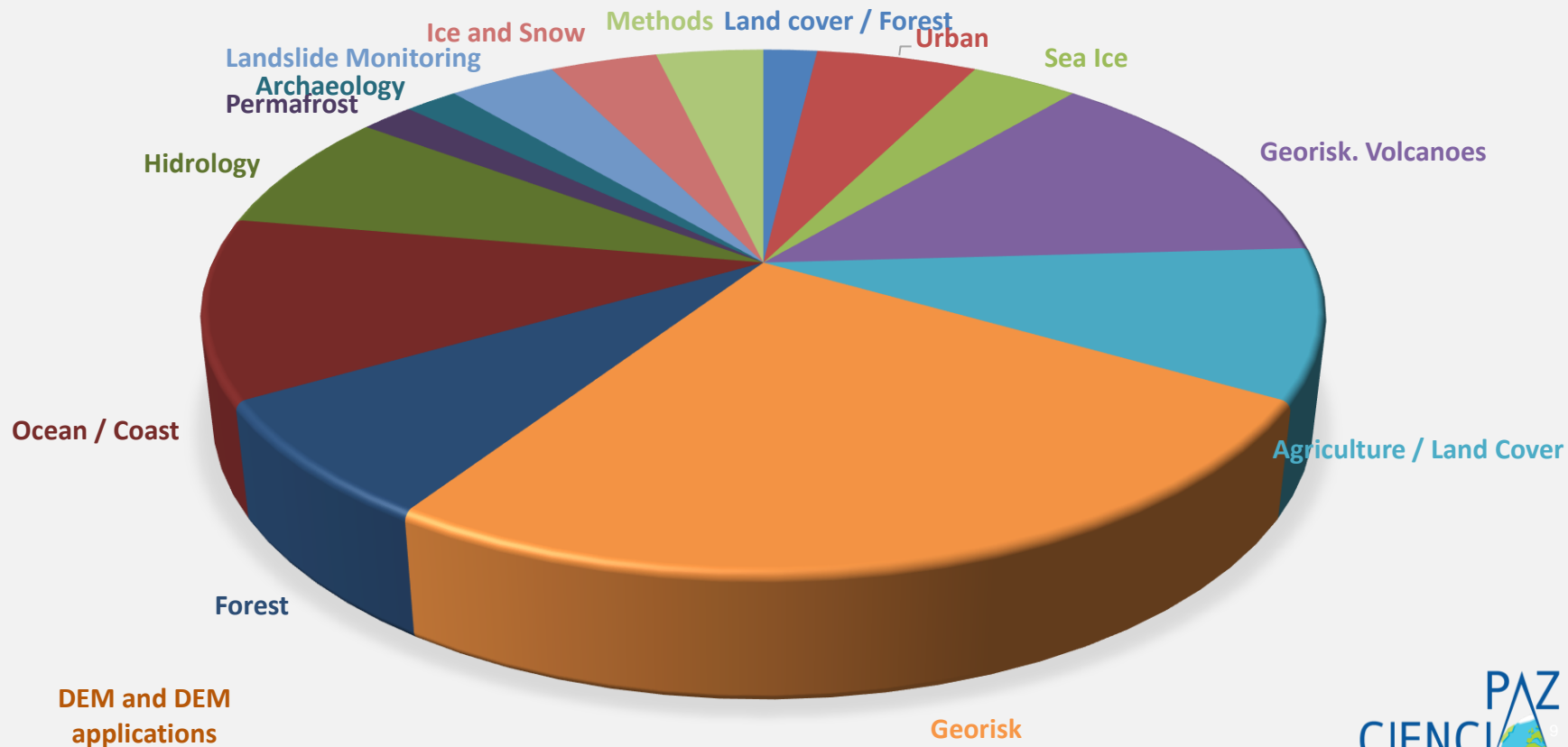
PI Nationality

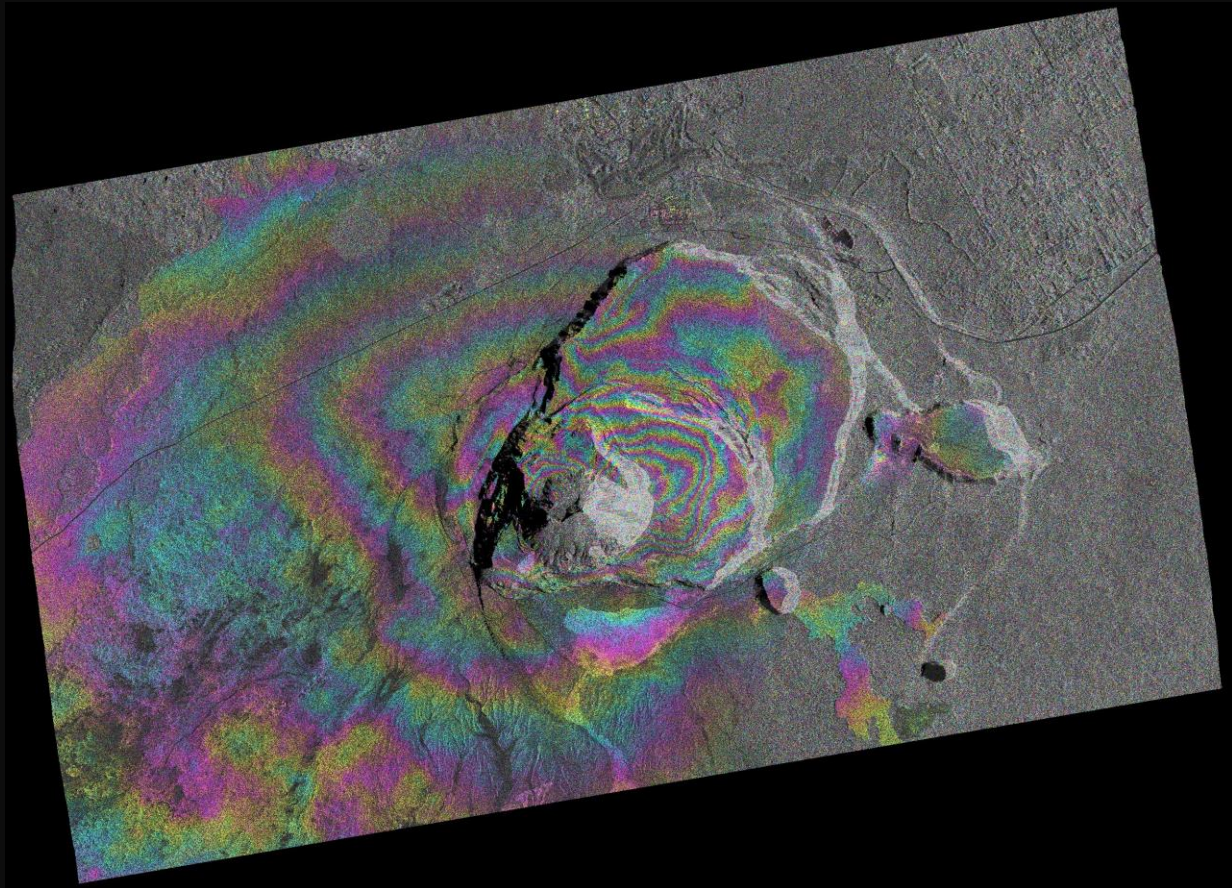


AOI



AO-001 Field of application





Project

High-resolution
exploration of small-
scale volcanic features

PI: Michael Poland
U.S. Geological Survey



Kilauea

Imaging Mode: SM
Polarization: Dual

Satellite PAZ

Project

Evaluating the impact of PAZ spotlight mode data on tracking tidewater glacier dynamics and assessing the iceberg risk to Greenland's largest port.

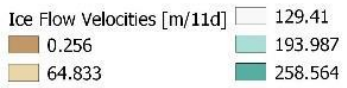
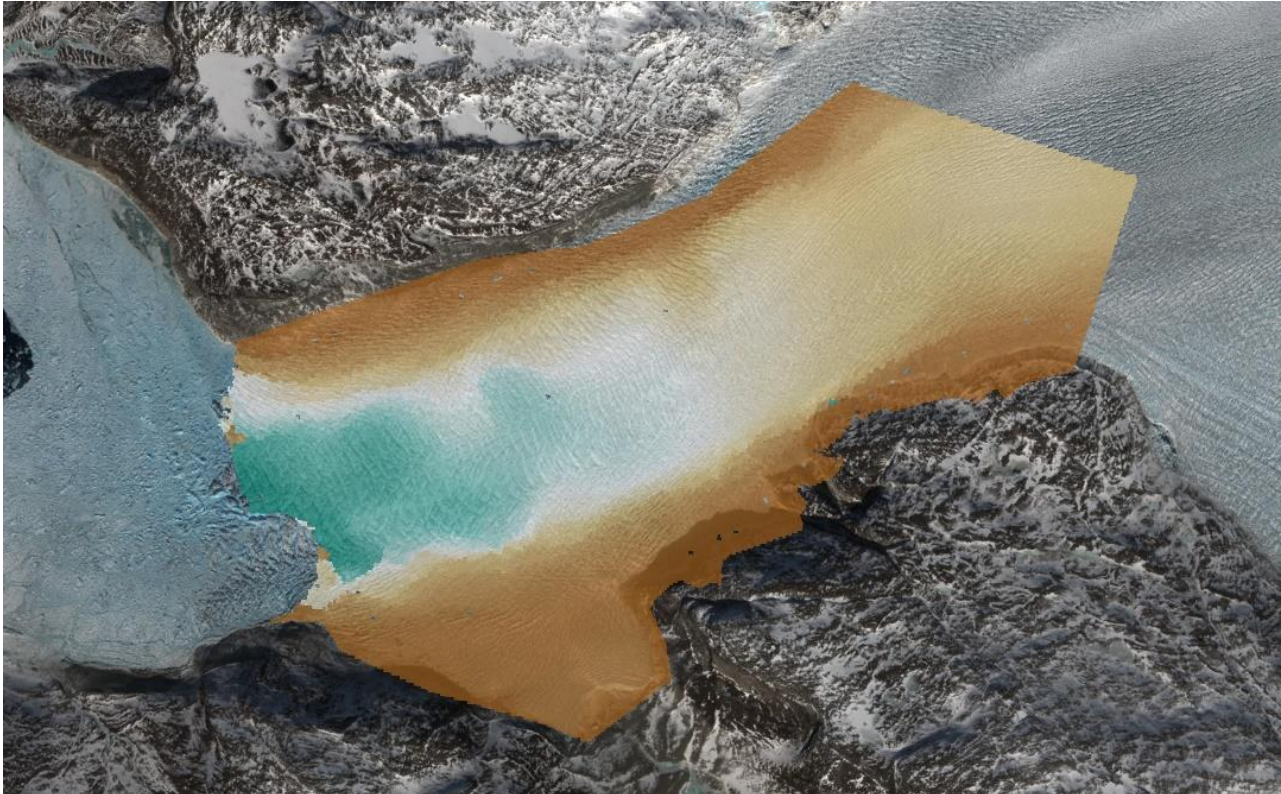
PI: Dominik Fahrner
University of Liverpool



Glacier Narsap Sermia

Imaging Mode: SL
Polarization: VV

Satellite PAZ

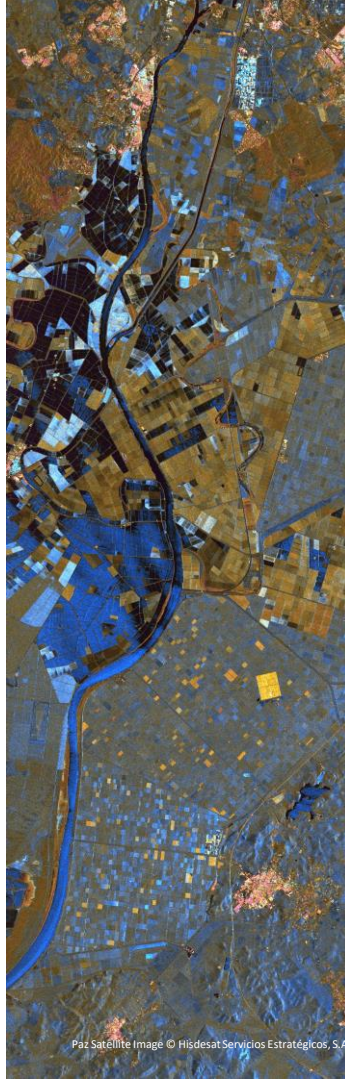




Paz Satellite Image © Hisdesat Servicios Estratégicos, S.A.



Paz Satellite Image © Hisdesat Servicios Estratégicos, S.A.



Paz Satellite Image © Hisdesat Servicios Estratégicos, S.A.

Project

Preparation of winter
flood maps in rice fields

PI: Juanma López
Sánchez
University of Alicante
(Spain)



Gualdalquivir

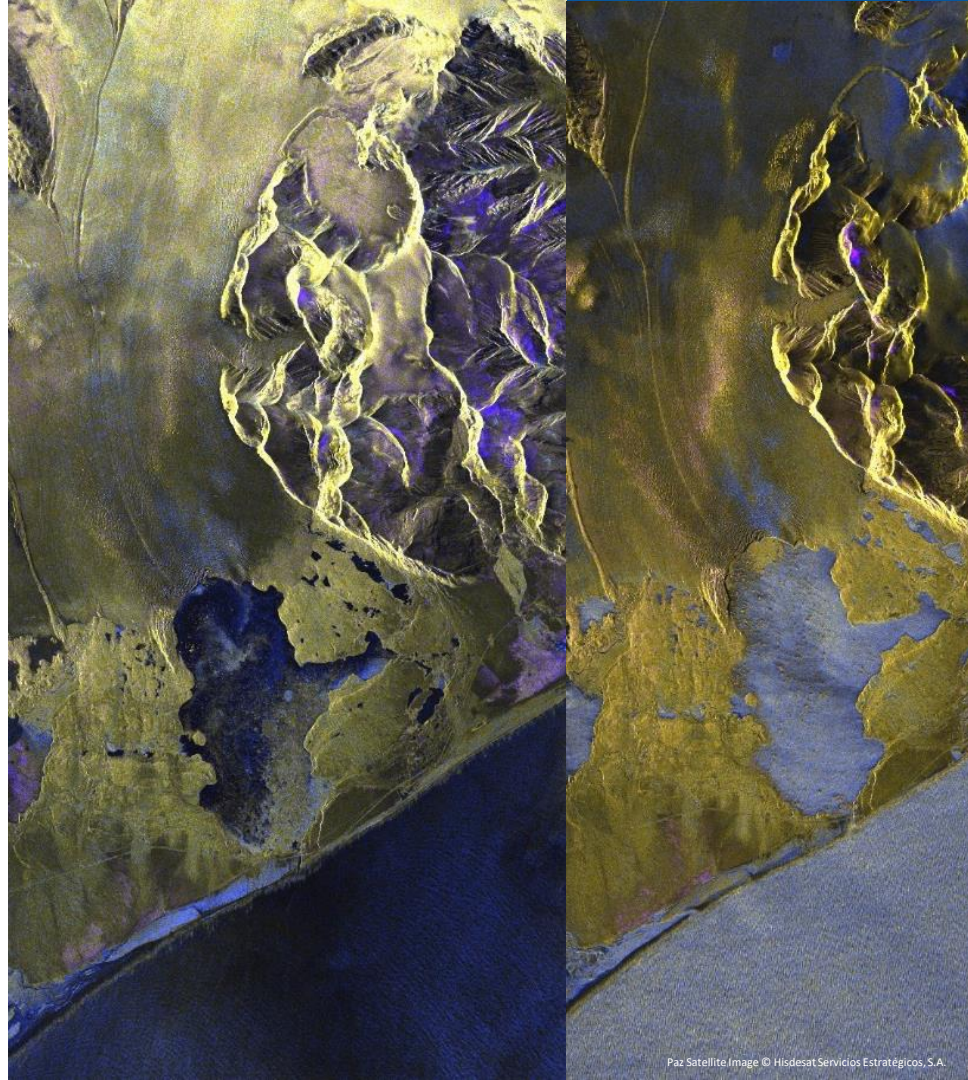
Imaging Mode: SM
Polarization: Dual

Satellite PAZ

AO-002. Educational Call

Open Call

Master's Thesis, PhD



AO-003.

Joint TSX, TDX, PAZ Call

Ready to start!

Scientific benefits of TerraSAR-X,
TanDEM-X and PAZ constellation

optimized revisit time

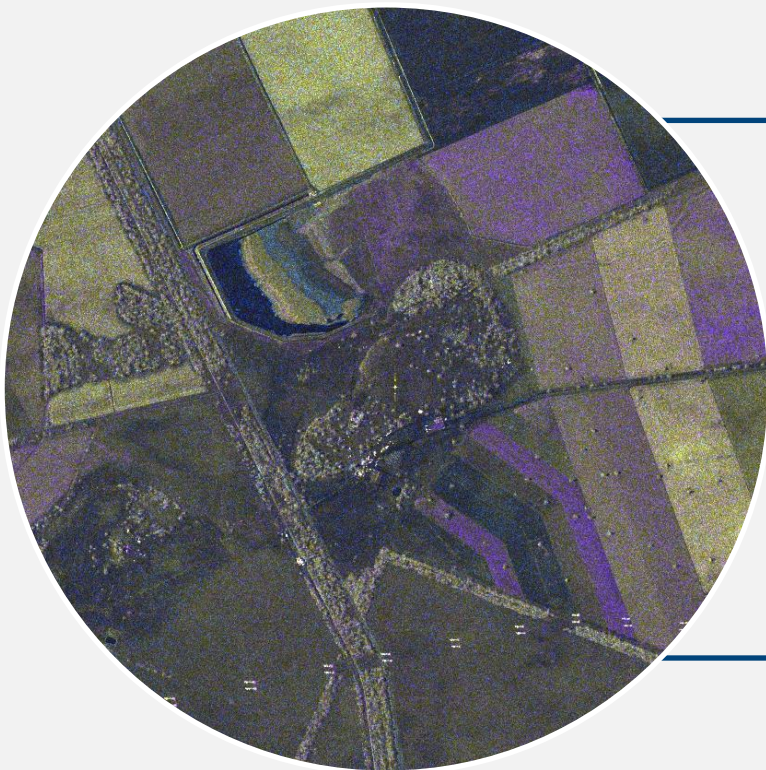
increased acquisition capacity



Science Segment



Science Segment Web portal





- Operations
- Inspect Failed Insertion Files
- Web Portal
- Trigger Task

Query Response **File Explorer** **Time Processing** << Data Exploitation

Common Catalogue parameters

File Name

Product Type: 0 values | Imaging Mode: 0 values

Validity Start Date: [calendar icon] [clock icon] | Validity Stop Date: [calendar icon] [clock icon]

Advanced parameters

Start Creation Date: [calendar icon] [clock icon] | Stop Creation Date: [calendar icon] [clock icon]

Unique Datatake ID: [input field] | Resolution Variant: 0 values

Orbit Type: 0 values | Polarization Mode: 0 values | Polarization Channel: 0 values

Start Orbit: [input field] | Last Orbit: [input field] | Orbit Direction: 0 values

Draw Polygon Predefined

Select Type Polygon: [dropdown] | Draw m2: 59861301382.935

[Start] [Remove]

SEARCH



Query Response File Explorer Time Processing << Data Exploration

Records 6 Pages 1

PAZ1_SAR_MGD_RE_3_SC_S_SRA_20190717T124836_20190717T124858_001

Show Highlight  

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Show Highlight  

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PAZ1_SAR_EEC_SE_3_SC_S_SRA_20190713T212151_20190713T212212_001

Show Highlight  

Date:2019-07-13T21:21:51 Type:SE_SL_S Platform:PAZ-1 

PAZ1_SAR_MGD_RE_2_SC_S_SRA_20190717T124836_20190717T124858_001

Show Highlight  

Products of interest: (0)  





PAZ
CIENCIA



HEALTH

DATA MANAGEMENT

ANALYTICS

Operational Dashboards

Catalogue Information

Archival Information

Quality of Service

System Overview

Traceability

Archive and Catalogue Logs

Archive and Catalogue Analytics

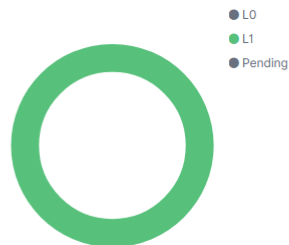
Archive and Catalogue Availability

Dissemination Table

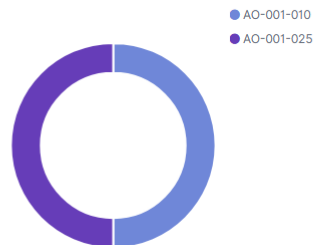
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Export: [Raw](#) [Formatted](#)

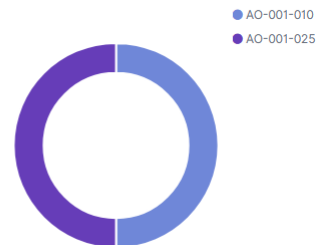
Products and orders proportion



Orders per project



Products per project



Orders without product

No results found

PAZ Science Divulgation



PTI-TELEDETECT CSIC E INTA

Una plataforma temática interdisciplinar para coordinar e integrar las actividades de teledetección del sector académico español

MÁS INFO



– PAZ Ciencia web site



CEIT
CENTROESPACIAL
INTA TORREJÓN

PAZ SCIENCE ACTIVITIES

PAZ Ciencia

Home Announcement Opportunity News Facilities Contact

paz-ciencia / PAZ Science Activities

PAZ Science Activities

- Science List Subscription
- Publications
- Blog
- Team
- Expression of Interest and Contact

PAZ Science Activities



PAZ-Ciencia is the web interface for the science user community of PAZ.

Our goal is the approach of PAZ products to researchers, promotion of SAR technology and applications.

- Subscribe to our Science List to become part of PAZ science community
- Check the current Announcement of Opportunity to access to PAZ products
- Access our archive of INTA publications about PAZ
- Find latest news and blog posts
- Know about us and our facilities

<http://www.inta.es/WEB/paz-ciencia/en/paz-science-activities/>

Space Center INTA Torrejón blog

Blog of the Space Center INTA-Torrejón

Tags: CHEOPS (13) Copernicus (1) EUMETSAT (3) Estación Terrena (6) INGENIO (5) Instrumento (1) Observación de la Tierra (14) PAZ Ciencia (10) PAZ (17)
SAR (14) Satélite (13) Segmento Terreno (23) Sentinel (1) Teledetección (5)

In this blog the engineers of the Space Center INTA-Torrejón talk about the missions operated in the center, of Ground Segment and space SAR engineering, including the science activities of PAZ mission.

Formación y empleo

DTFR

Unidad Cultural Científica

Webes Temáticas

Enlaces de interés

Blogs:

Centro Espacial INTA Torrejón

• 2020

• Octubre

• CI CHEOPS,
Primera
maniobra de
evasión

• Septiembre

• Marzo

• Enero

• 2019

• Diciembre

• Noviembre

• Septiembre

• Agosto

• Julio

• Junio

• Mayo

• Abril

• Marzo

• Febrero

El INTA en Copernicus

ExoMars Raman

AGENDA

OCTUBRE
2020

DOM	SEN	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
					1	2	3	4		
5	6	7	8	9	10	11				



CHEOPS. Primera maniobra de evasión

Copy link

05-10-2020

CHEOPS | Estación Terrena | Segmento Terreno

El pasado jueves 30 de noviembre de 2020, a las 15 horas, todo el equipo de operaciones de CI-CHEOPS del CEIT recibió uno de los emails más preocupantes que puede llegarle a un operador de un satélite: Un aviso de conjunción.

Leer más



Ponemos la directa al último trimestre de 2020

Copy link

28-09-2020

CHEOPS | INGENIO | PAZ | Satélite | Observación de la Tierra | Segmento Terreno

Miramos el calendario con sorpresa, viendo que ya nos enfrentamos a la recta final del 2020. ¡Y menudito año! Como en todas las empresas, como en todos los hogares, trabajar y vivir está siendo todo un reto, pero desde el CEIT podemos decir con satisfacción que el equipo humano del centro a pesar de las adversidades, estamos logrando cada hito del año (y permítanme que me atreva a decir que ¡con nota!).

Leer más



El CEIT se queda en casa. Todo va a salir bien.

Copy link

31-03-2020

Con el post de hoy queremos colarnos en vuestras casas y daros un gran abrazo. Desearnos que todos vosotros, vuestras familias, amigos, compañeros de trabajo, os encontréis bien...

Leer más



Febrero en el CEIT: INGENIO, PAZ y Mujer y niña en la Ciencia

Copy link

06-03-2020

Febrero ha sido un mes repleto de actividad en el CEIT. Aparte de nuestras actividades diarias, queremos compartir con vosotros las grandes novedades y actividades que nos trajo el pasado mes...

Leer más



Primer año de PAZ-Ciencia

Copy link

28-01-2020

SAR | PAZ | Satélite | Observación de la Tierra | PAZ Ciencia | Segmento Terreno | Teledetección

Este mes celebramos el primer año de PAZ-Ciencia, la línea de actividad de INTA orientada a explotar de manera científica al satélite PAZ.

Leer más

PAZ Ciencia Newsletter

PAZ Ciencia Newsletter

EUSAR Conference

Just a few weeks left for the celebration of EUSAR: the 13th European Conference on Synthetic Aperture Radar (March 29 - April 1, 2021).

PAZ will be present in the conference, having a specific session: **Status Report PAZ**.

The conference will take place in virtual format. You can check the program in [EUSAR 2021](#)

PAZ Science First Announcement of Opportunity Status

PAZ Ciencia team is preparing the summary status of AO-001 projects that will present first results after two years of science products acquisition.

Principal investigators have been requested to provide their progress reports by mid March.

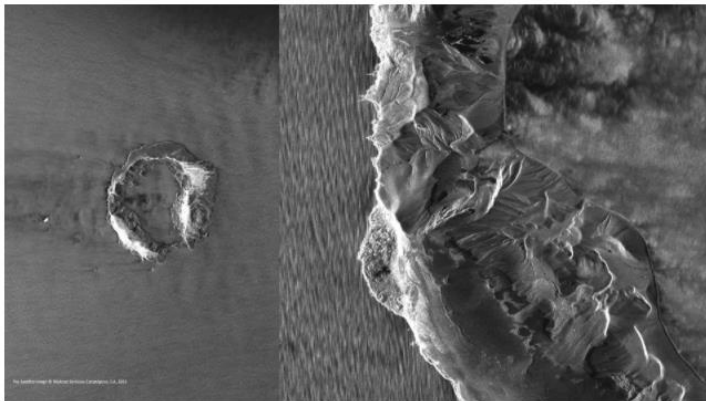
Featured Image: Deception Island

Deception Island is located in the South Shetland Islands close to the Antarctic Peninsula.

The island is the caldera of an active volcano, having Argentine and Spanish research bases.

PAZ Science project AO-001-005 has as goal the monitoring, quantification and control of ground movements and displacements of the cliff coast line on the island, with special emphasis on the areas around the Gabriel de Castilla Spanish Antarctic Base.

Project research team is comprised of Rogelio de la Vega and Carlos Paredes (UPM), José Romero (INTA-LABINGE), Anselmo Fernández, Elena González and Carmen López (IGN) and Miguel Ángel Roperó (ESPOL).





 🔗 🔔 ✎ ⋮

Grupo SAR de la Asociación Española de Teledetección

👤 Grupo publicado

✍ Empieza una conversación

📷

📺

📄

Todo

Recomendado

María José González Bonilla

PAZ Science Activities Coordinator and Head of Payload Data Ground Segment...
ahora • 👤

⋮

PAZ Ciencia estará presente en el III Congreso de Ingeniería Espacial.

En la sesión de Observación de la Tierra del día 27 de octubre, presentaremos 'La explotación científica de PAZ: Observación de la tierra al servicio del desarrollo sostenible'.

El Congreso se desarrollará on-line.

Estás a tiempo de registrarte de manera gratuita en:

<https://lnkd.in/eW2vmnX>

#paz #ceit #calval #pazmission #ceit #remotesensing #observacióndelatierra
#earthobservation #grupoSAR_AET

Future Activities

Status Report
AO-001

Launch of
AO-003

Launch of
PAZ Science
Segment

Upgrade of
Science
Segment

Thanks for your attention

María José González Bonilla
glezbmj@inta.es

CEIT
CENTRO TECNOLÓGICO DE INVESTIGACIONES Y TRANSFERENCIA

Pa
1