

#innovacion
#ayudascdti
#asesoramiento
#internacionalizacion



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Spanish Participation in Earth Observation

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Spanish Delegation to ESA

Department of Space

Dual Programmes

CDTI, E.P.E.



Fondo Europeo de Desarrollo Regional (FEDER)

Una manera de hacer Europa

CDTI – Center for the Development of Industrial Technology

Objective: to foster the technological development and innovation of Spanish companies

- ✓ Founded in 1977
- ✓ Public Business Entity, answering to the Ministry of Science and Innovation
- ✓ Channels the funding and support applications for national and international R&D&i projects of Spanish companies
- ✓ ***CDTI is focal point of Space activities in Spain***

CDTI is focal point for Space Activities in Spain

ESA



CDTI – Spanish Delegation to ESA
5th contributor to EOP
4th contributor to Copernicus

UE



CDTI – Spanish Representatives at Space Programme - Copernicus Configuration

EUMETSAT



AEMET – Spanish Delegation
CDTI – advisor on industrial aspects

PNOTS - National EO programme
Radar/optical system

Bilateral programmes



Main investments in Earth Observation

The history of Spain in Space

The current position of Spain in Space is the result of a collective and sustained effort during 50 years



ESAC
Establishment



Spain-NASA
agreement
First Space
Facilities in Spain



Minisat
National
Programme



Consolidatin

Growing

The beginning

Looking to the Future

Hispasat
incorporation



1st Spanish
astronaut



Spanish EO satellites



Ingenio
CHEOP
S



PAZ



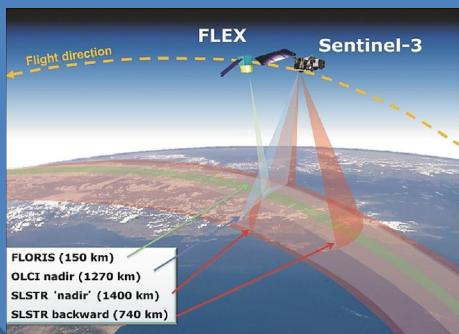
Space19+



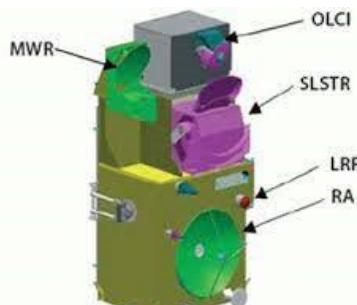
Ariane

Main Milestones in Earth Observation

FLEX: IP of the mission



S-3 – MWI



Copernicus expansion:



MetOp-SG - ICI instrument prime



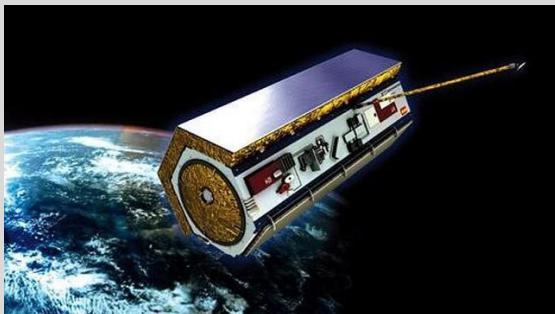
LSTM – Land Surface Temperature Mission Mission prime

Main Milestones in Earth Observation

PAZ: radar (X band)

Launch Feb 2018.

In operations
(Hisdesat).



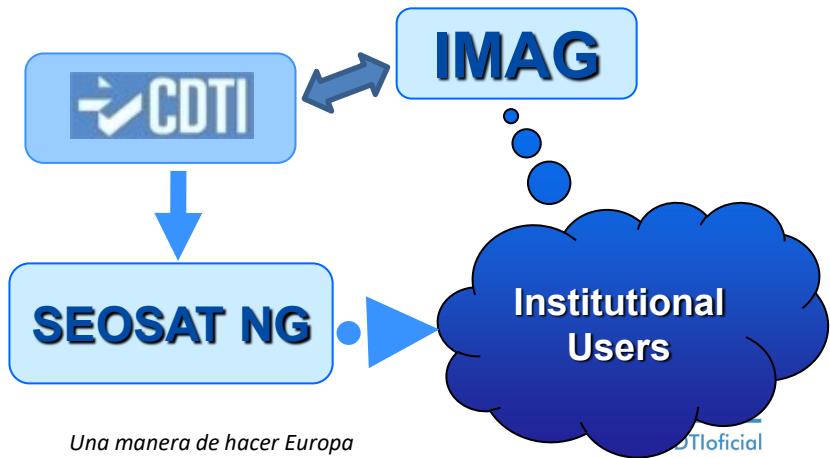
SEOSAT: optical.
10 m VISNIR;
5 m PAN.



Lost during launch (2020)



- ✓ PNOTS: National Earth Observation Programme
- ✓ Dual use
- ✓ Continuation: next generation under study
- ✓ National consultation user at Ministry level



Main Milestones in Earth Observation – GS

Sent-1 /-2 G/S



POD

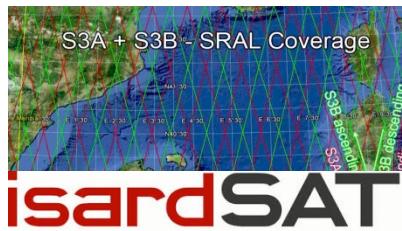


Sent-2 PAC



Sent-3 MPC

CDTI, E.P.E.



User Uptake Activities Strategy

- ✓ Identification and definition of mission requirements and needs for future missions and programmes in close relationship with final users through:
 - ✓ Institutional User Group at Ministry level (CDTI)
 - ✓ Copernicus User Forum (IGN, AEMET) -> national representatives of Copernicus services
- ✓ User Uptake activities in the frame of:
 - ✓ FPCUP - Framework Partnership Agreement on Copernicus User Uptake
 - ✓ Leadership of coordination action in LATAM
 - ✓ Relay (11 entities) and Academy (17 entities) Spanish network
- ✓ Yearly meetings among the main stakeholders to join efforts at national level

+info sobre programas y ayudas CDTI
para
proyectos de I+D empresarial e innovación



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