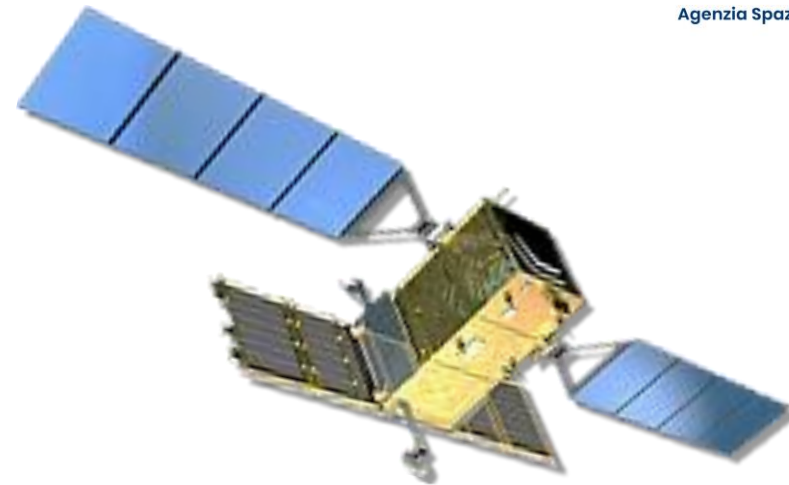
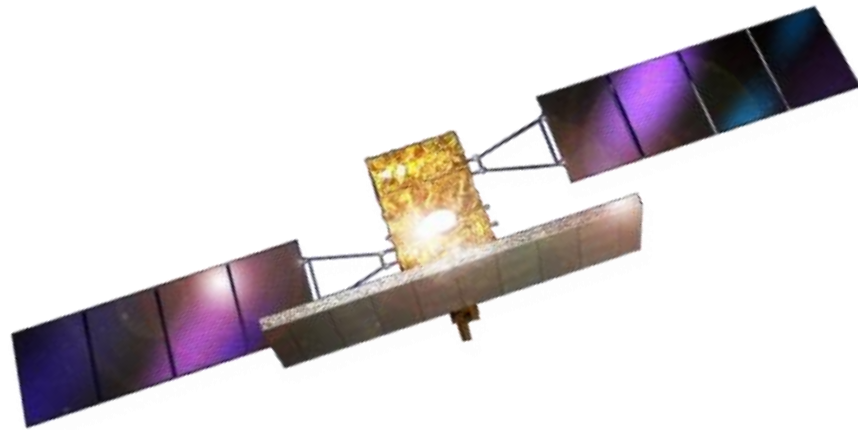




COSMO-SkyMed

Maria Virelli

Mission Manager COSMO-SkyMed

ITALIAN SPACE AGENCY

IL PROGRAMMA COSMO-SkyMed

❑ IL MAGGIORE INVESTIMENTO SPAZIALE ITALIANO PER L'OSSERVAZIONE DELLA TERRA

❑ PROGRAMMA NAZIONALE FINANZIATO DAL MINISTERO DELLA RICERCA E DAL MINISTERO DELLA DIFESA

SISTEMA DUALE

❑ GESTITO IN COOPERAZIONE DA ASI CON IL MINISTERO DELLA DIFESA

❑ SVILUPPATO DALL'INDUSTRIA NAZIONALE



COSMO-SkyMed Evolution



COSMO-SkyMed Second Generation (CSG) does:

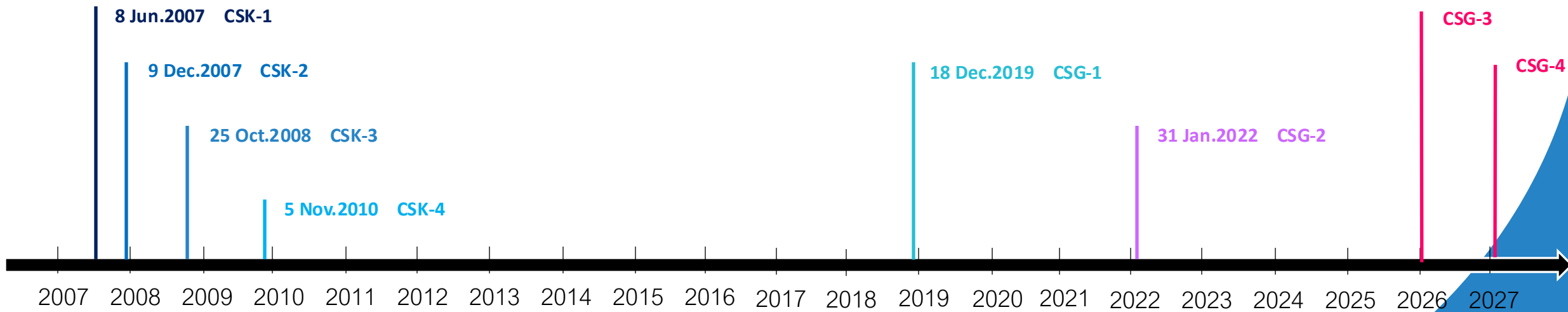
- Ensure operational continuity to the currently operating constellation
- Achieve a step ahead in terms of functionality, performances and system services for the Earth Observation users

The 2 CSG Satellites have an operational lifetime of at least 7 years.

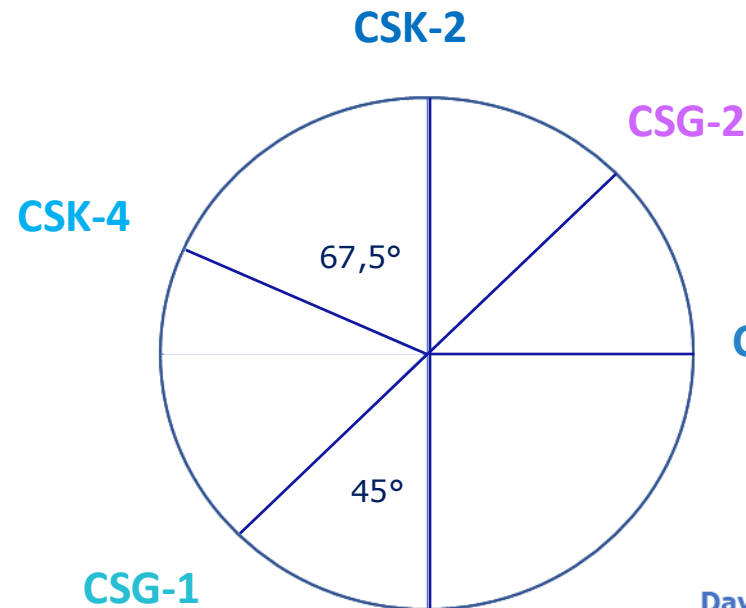
COSMO-SkyMed: overall infrastructure

CSK: COSMO-SkyMed First Generation

CSG: COSMO-SkyMed Second Generation



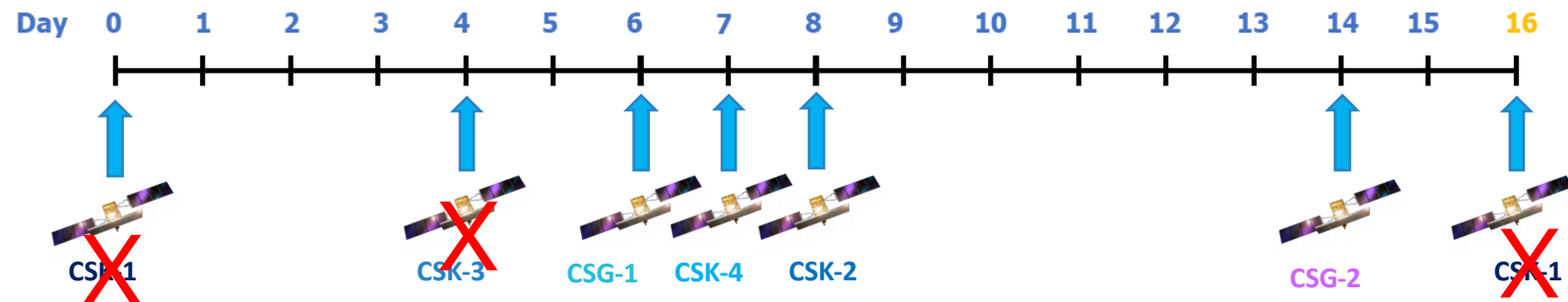
COSMO-SkyMed orbital configuration



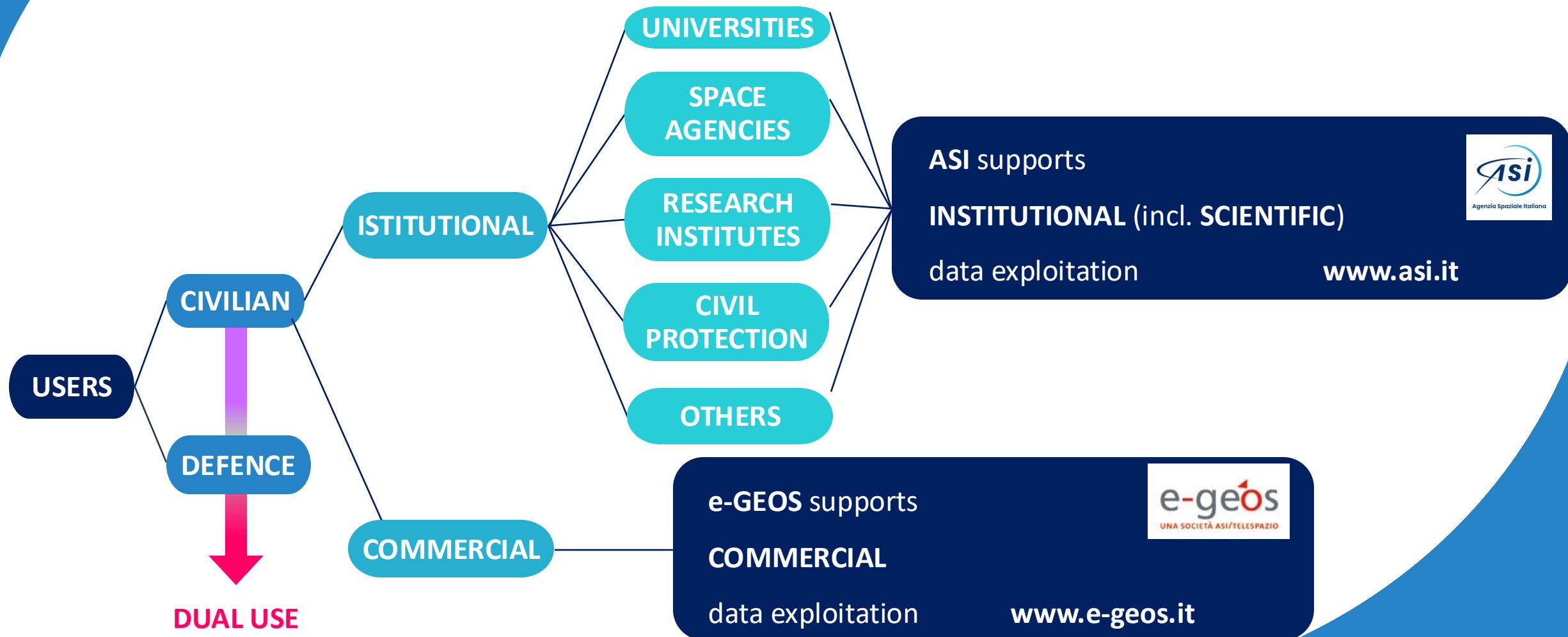
~~CSK-1~~ Disposal
May 2022

COSMO-SkyMed: overall infrastructure
CSK: COSMO-SkyMed First Generation
CSG: COSMO-SkyMed Second Generation

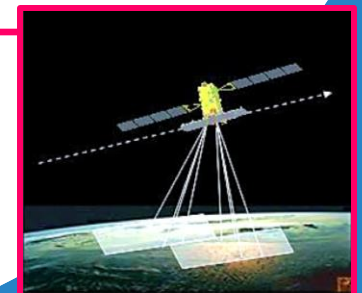
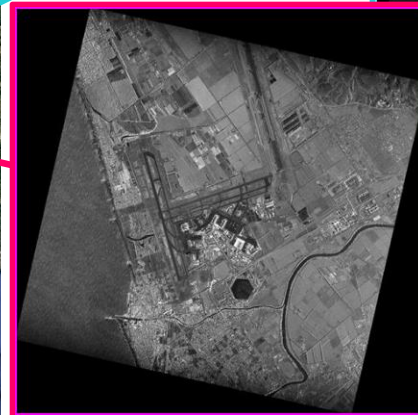
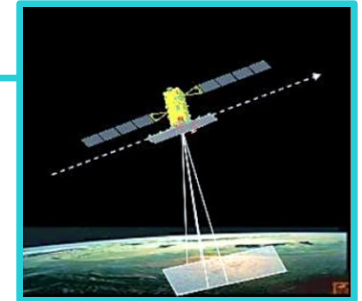
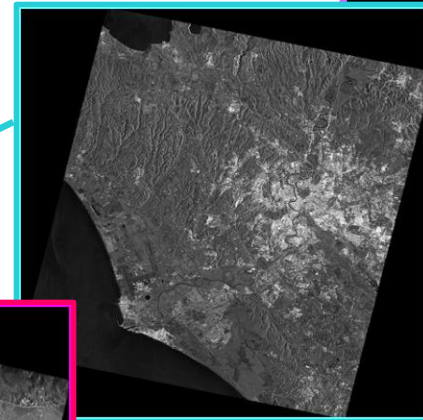
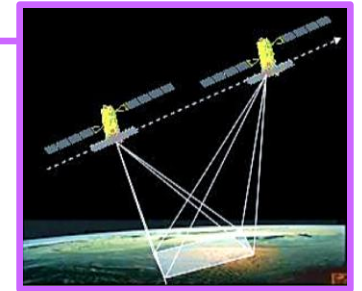
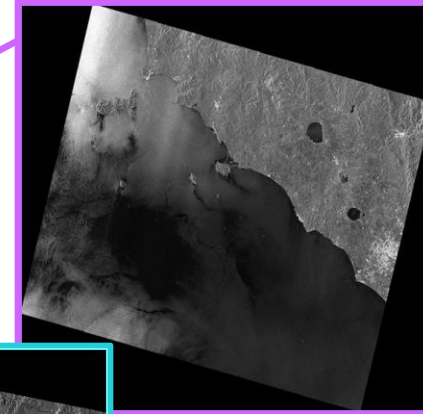
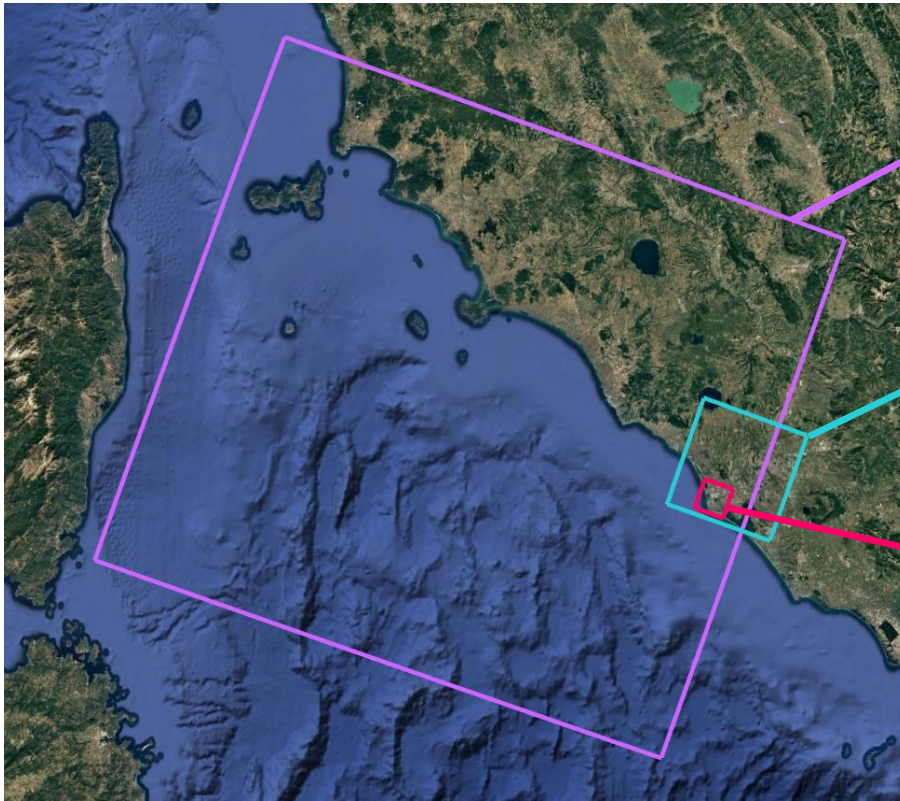
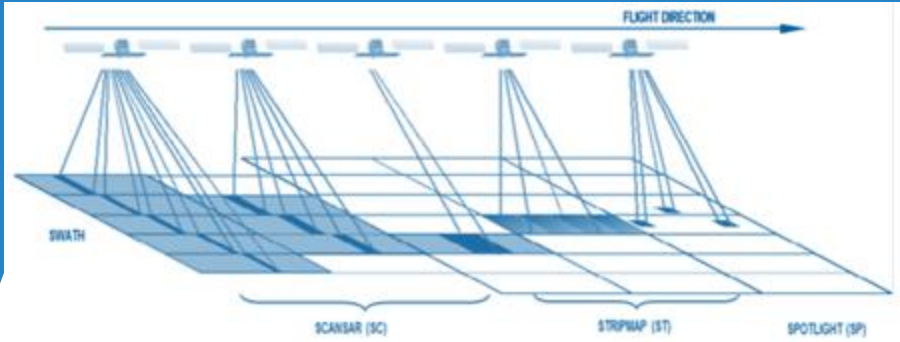
~~CSK-1~~
Disposal
April 2025



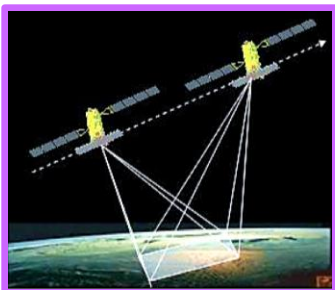
COSMO-SkyMed Mission



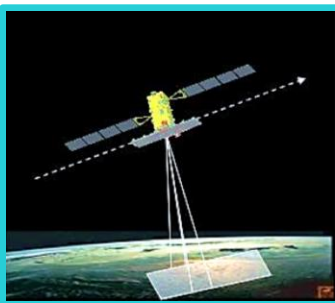
COSMO-SkyMed Acquisition modes



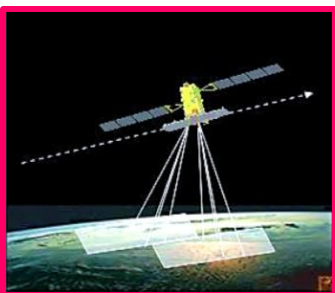
COSMO-SkyMed Acquisition modes



Scansar	CSK			CSG		
	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)
Wide	23 x 13,5 m	Single	100 x 100 Km			
Huge	38 x 13,5 m	Single	200 x 200 Km			
ScanSAR-1				20 x 4 m	Single / Dual	100 x 100 Km
ScanSAR-2				40 x 6 m	Single / Dual	200 x 200 Km



Stripmap	CSK			CSG		
	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)
HIMAGE	3 x 3 m	Single	40 x 40 Km	3 x 3 m	Single / Dual	40 x 40 Km
Ping Pong	15 x 15 m	Alternating	30 x 30 Km	12 x 5 m	Alternating	30 x 30 Km
Quad Pol				3 x 3 m	Quad	40 x 15 Km



Spotlight	CSK			CSG		
	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)	Max resolution (Azimuth x Range)	Polarization	Scene size (Azimuth x Range)
Spotlight-2	1 x 1 m	Single	10 x 10 Km			
Spotlight-2A				0,4 x 0,5 m	Single / Dual	3,5 x 7 Km
Spotlight-2B				0,6 x 0,6 m	Single / Dual	10 x 10 Km
Spotlight-2C				0,8 x 0,8 m	Single / Dual	5 x 10 Km

Standard Acquisition Modes Product Quality and Feature Summary at processing level L1A

COSMO-SkyMed Mission

> 2.000.000 scenes in Archive at May 2025



Emergencies



Ocean and ice



Coastlines and inland waters



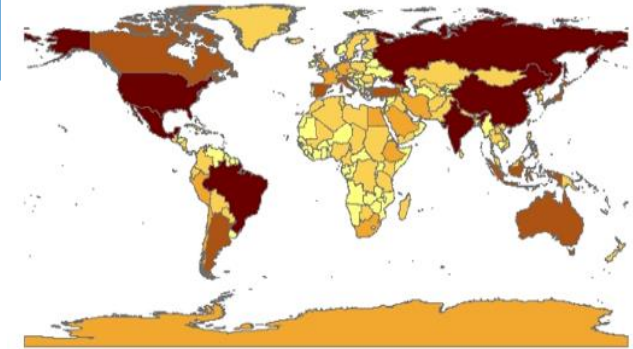
Forestry and agricultural resources

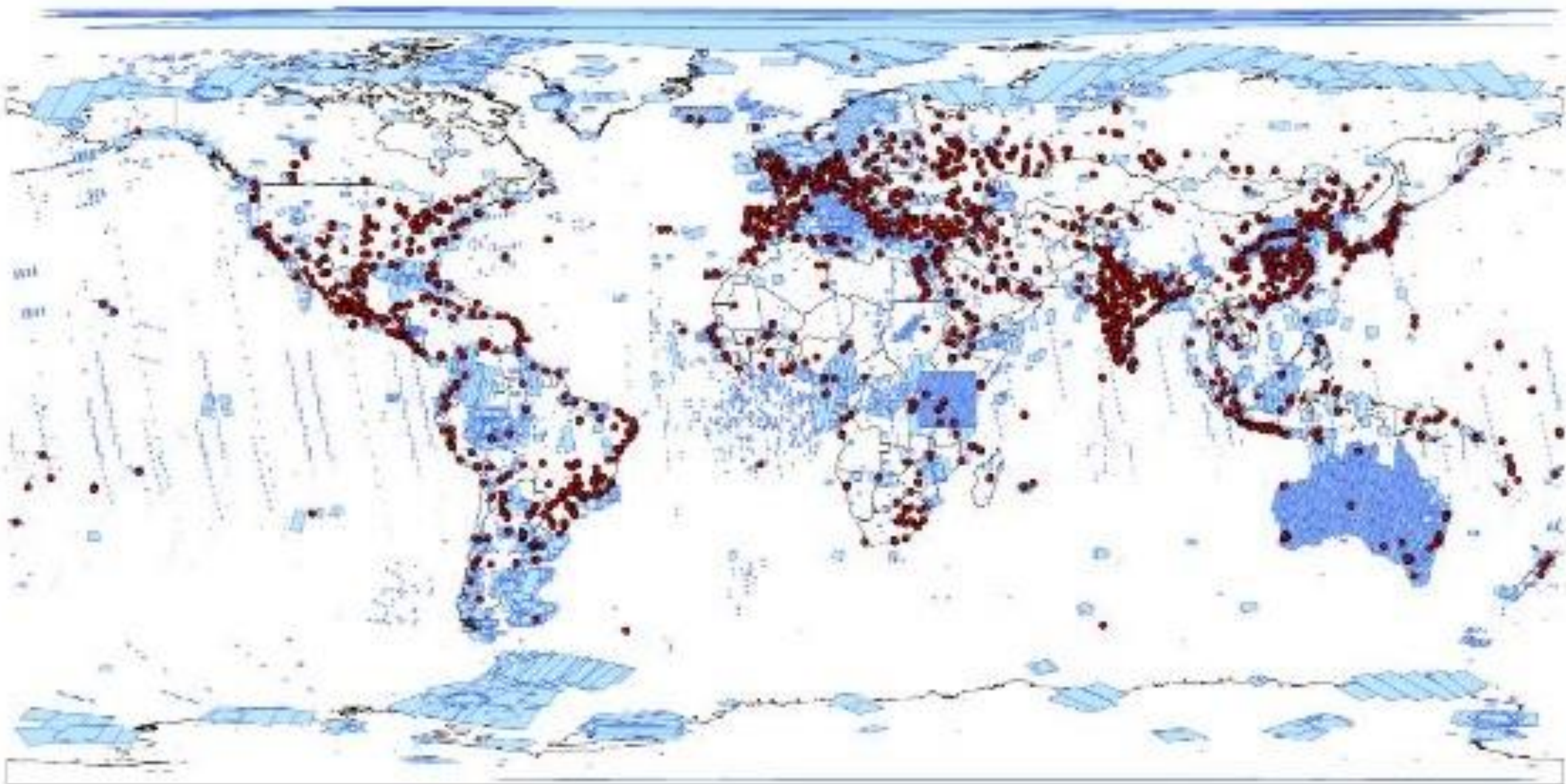


Technical cartography and Urban planning



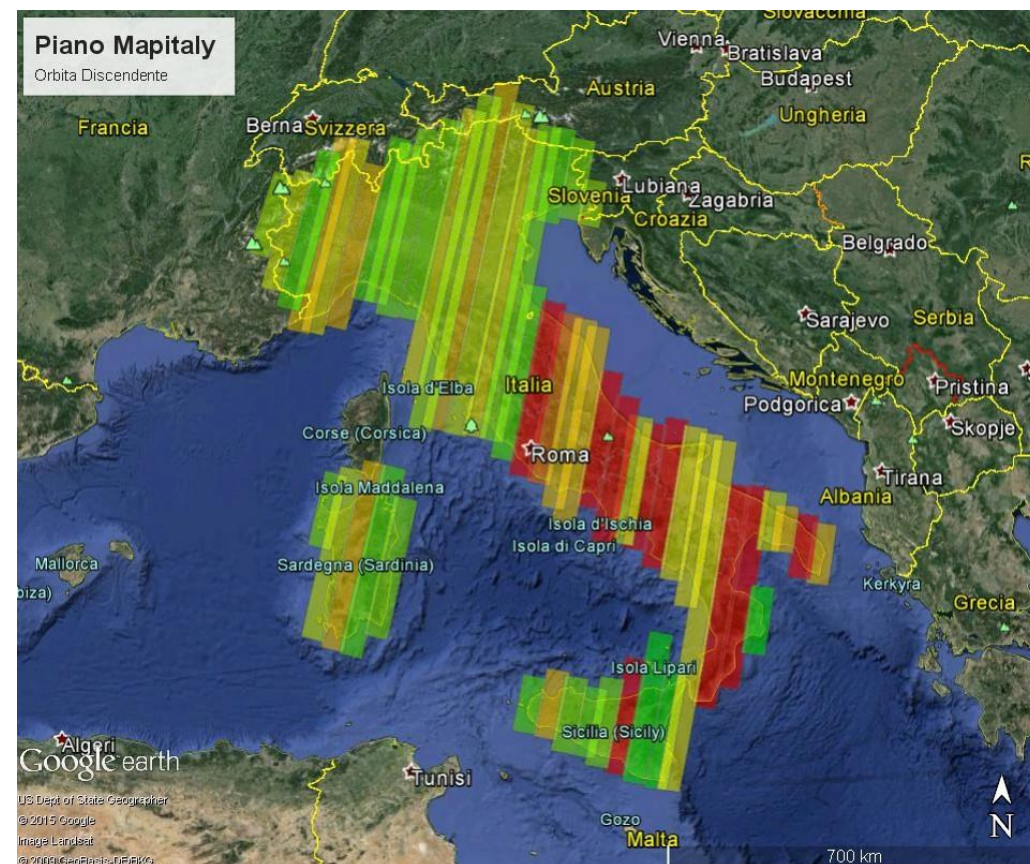
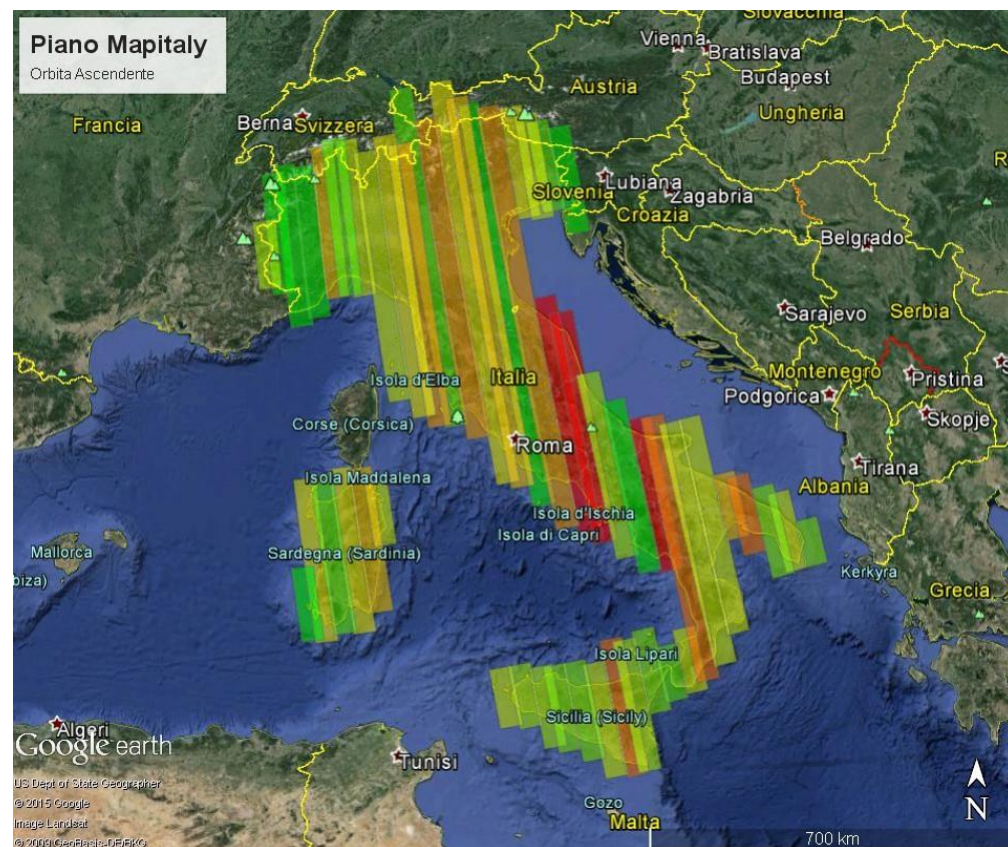
Security applications





Per l'Italia è attivo il **piano di acquisizione Mapitaly** che prevede che per una specifica area geografica, vengano regolarmente acquisite *ogni 16 giorni* immagini con la stessa geometria di acquisizione: stessa orbita, stesso angolo di osservazione.

Mensilmente il piano si compone di circa 200 acquisizioni, suddivise in orbite ascendenti e discendenti, acquisiti in modalità Stripmap. L'archivio creato con il piano risulta fondamentale poiché costituisce lo storico per monitoraggio di fenomeni, non solamente di tipo alluvionale.





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	National Institutional Users		Non National Institutional Users			
	Spotlight, StripMap and Scansar Mode		StripMap and Scansar Mode		Spotlight Mode	
Range	Processing From Archive Data	Tasking (New Programming)	Processing From Archive Data	Tasking (New Programming)	Processing From Archive Data	Tasking (New Programming)
between 10 and 50 products	Free of Charge					€ 200,00. = for any kind of product
between 51 and 100 products			€ 500,00. = for 50 Archive products	€ 200,00. = for 10 Tasking products	€ 200,00. = for 10 Archive products	€ 340,00.= for any kind of product
> 100 products						€ 430,00.= for any kind of product

"OPEN CALL"

COSMO-SkyMed Constellation

First and Second Generation

Open Call for Science

Italian Space Agency



Selected projects will be supported for a maximum of two years, through a provision of a maximum of **100 free of charge COSMO-SkyMed scenes**

- ❖ 80 archive product
- ❖ 20 Tasking product

Open Call

per

l'industria nazionale

Utilizzo dei dati COSMO-SkyMed

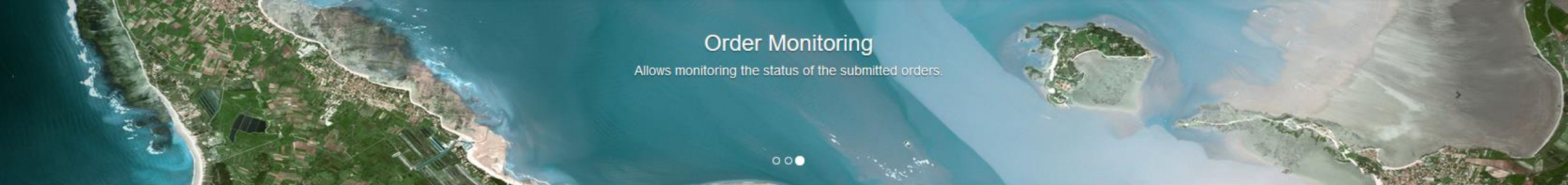
prima e seconda generazione

Agenzia Spaziale Italiana



Selected projects will be supported for a maximum of two years, through a provision of a maximum of **100 free of charge COSMO-SkyMed scenes from both archive products and tasking product**

Gennaio 2021



Catalogue



Services



Order Monitoring

<https://portal.cosmo-skymed.it/CDMFE/home>

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Joint Project	means a specific Project which entails the PRODUCT joint use between the User and the Affiliated User, as duly authorized by ASI and described in the Project Card (Annex 1) below
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MAPITALY

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LOGIN

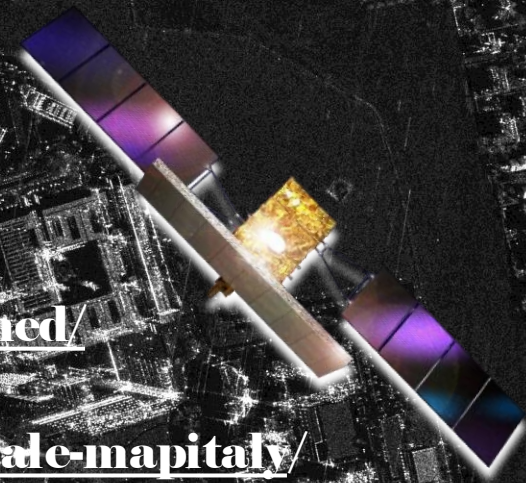
COSMO-SkyMed <https://www.asi.it/scienze-della-terra/cosmo-skymed/>

Map Italy <https://www.asi.it/scienze-della-terra/cosmo-skymed-portale-mapitaly/>

Open Call:

https://www.asi.it/bandi_e_concorsi/open-call-for-science-data-utilization-of-the-cosmo-skymed-mission-first-and-second-generation-english-version/

https://www.asi.it/bandi_e_concorsi/open-call-per-lindustria-nazionale-utilizzo-dei-dati-cosmo-skymed-prima-e-seconda-generazione/





Grazie



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