



The Copernicus Programme and the Security Service

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European Commission DG-GROW.I2

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C o p e r n i c u s

Providing relevant information to policy-makers and other users,
particularly in relation to environment and security

From research to operations



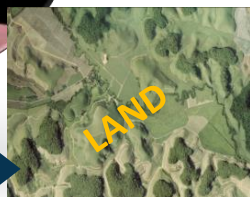


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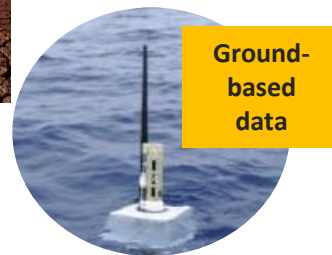
COPERNICUS ARCHITECTURE



Six services delivering EO based data and information



Contributing missions












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Copernicus SENTINELS

Sentinel Mission and Status

	SENTINEL-1: RADAR 4-40m resolution, 3 day revisit at equator	<i>2 Sats in orbit</i>
	SENTINEL-2: OPTICAL 10-60m resolution, 5 days revisit time	<i>2 Sats in Orbit</i>
	SENTINEL-3: Altimetry 300-1200m resolution, <2 days revisit	<i>2 Sats in Orbit</i>
	SENTINEL-4: Geostationary (Atmosphere) 8km resolution, 60 min revisit time	<i>1st Launch in 2020</i>
	SENTINEL-5p: LEO (Atmosphere) 7-68km resolution, 1 day revisit	<i>1 Sat in Orbit</i>
	SENTINEL-5: LEO (Atmosphere) 7.5-50km resolution, 1 day revisit	<i>1st Launch in 2021</i>
	SENTINEL-6: (Altimetry) 10 day revisit time	<i>1st Launch in 2020</i>

Key Features

Near Polar-orbiting, all-weather, day-and-night radar imaging

Near Polar-orbiting, multispectral optical, high-res imaging

Optical and altimeter mission monitoring sea and land parameters

Payload for atmosphere chemistry monitoring on MTG-S

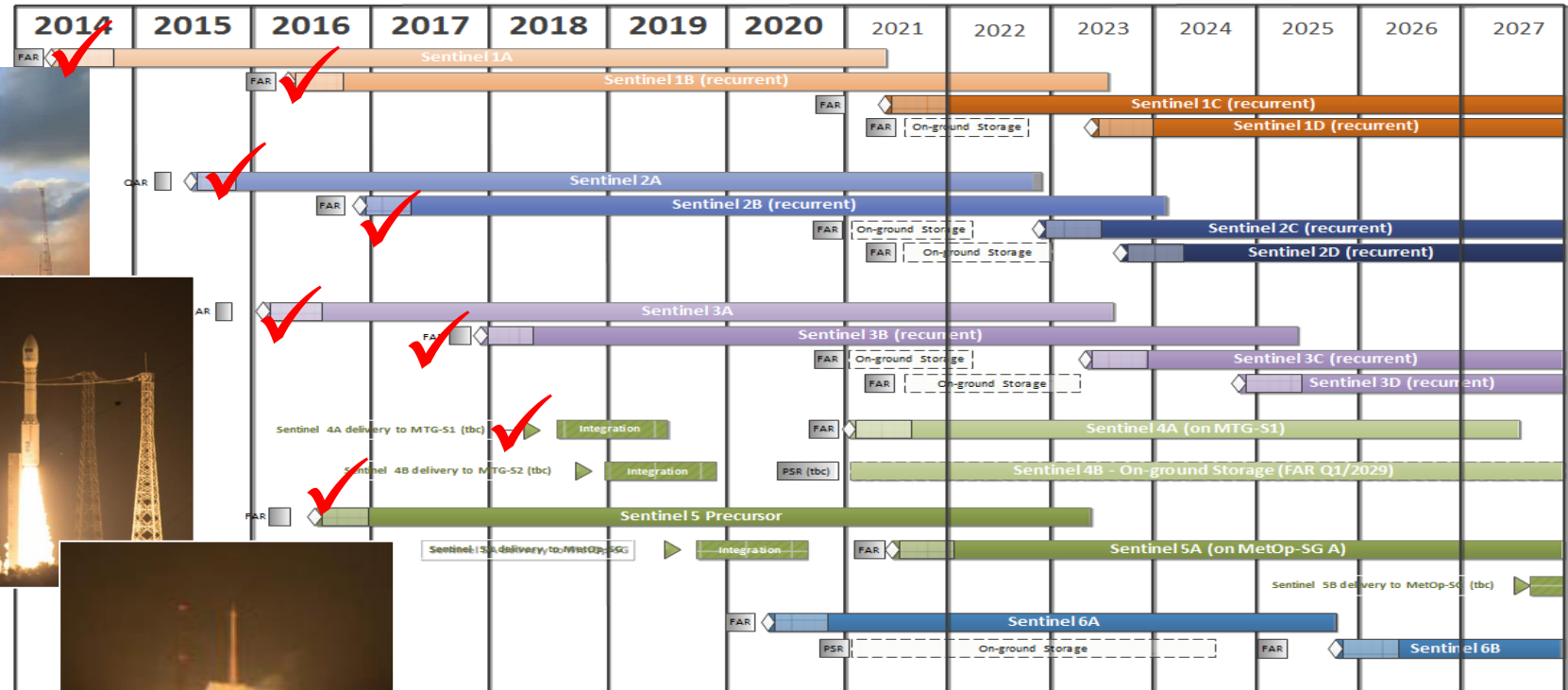
Mission to reduce data gaps between Envisat, and S-5

Payload for atmosphere chemistry monitoring on MetOp 2nd Gen

Radar altimeter to measure sea-surface height globally

**FULL, FREE
AND OPEN**

Copernicus Sentinels



Legend

(QAR) or [On-ground Storage] Tentative launch date In-orbit Commissioning

Status: 19 January



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Operations

and

Governance



SPACE

TECHNICAL
COORDINATION BY
 esa

SENTINELS MISSIONS
OPERATED BY
 EUMETSAT

CONTRIBUTING
MISSIONS



SERVICES



ECMWF



MERCATOR OCEAN



European Environment Agency



ECMWF



EMSA

FRONTEX

IN SITU



COORDINATED
BY

European Environment Agency



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EU Space Regulation 2021 - 2027

What about the future ? Update on the status of the European Space Programme Regulation:

ONE Space Regulation agreed between COM/EP/MSs

- Slight budget increase ->16b€ proposal
Copernicus 5.8b (+21%); Galileo 9.7b (+27%)
- New components : SSA/SST and GOVSATCOM
- One new actor : GSA enlarged responsibilities => EUSPA
- Five main drivers
 - I. Maximising the benefits of Space
 - II. Fostering EU Global competitiveness and innovation of the space sector
 - III. Reinforcing EU autonomy
 - IV. Promoting Europe as a global player and reinforcing International cooperation
 - V. Streamed Governance structure for efficient delivery