

Welcome

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11th + 12th September, ESA/ESRIN, Frascati

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European Space Agency (ESA)





ESA is one of the few space agencies in the world to combine responsibility in nearly all areas of space activity:





















Directorate of Earth Observation Programmes





Budget



5 Sites

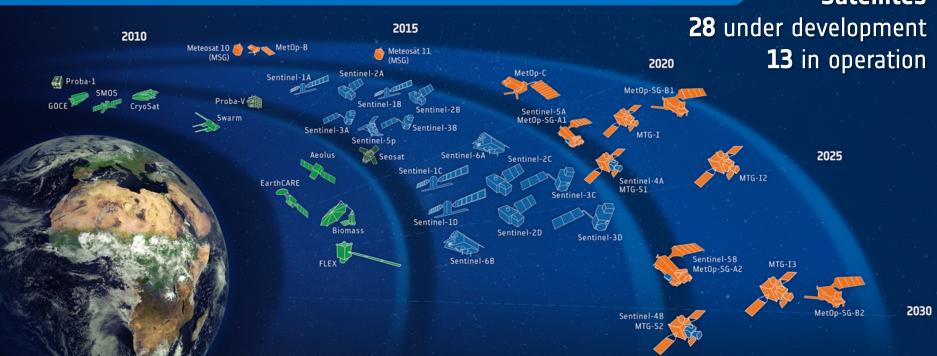
ESRIN ECSAT HQ ESTEC EBO

Slide 4

ESA-DEVELOPED EARTH OBSERVATION MISSIONS



Satellites



Science

Copernicus

Meteorology

Copernicus – a new Phase in EO



European Earth Observation System, led by the EU

European response to global needs:

- to manage the environment
- to mitigate the effects of climate change
- to ensure civil security

European independence, contribution to global system (GEOSS)





























Copernicus: Big Data Revolution

Free, full & open data policy





Statistics as of 11th September 2018

Published Products

9,793,701

Registered Users 167,891

Volume of User Downloads 86.47 PB

BIOMASS



Mission Measure of forest biomass

and height

(200 m. pixel resolution)

Payload P-Band radar

Orbit SSO, alt: 666 km;

LTAN: 6h00

Satellite 1250 Kg

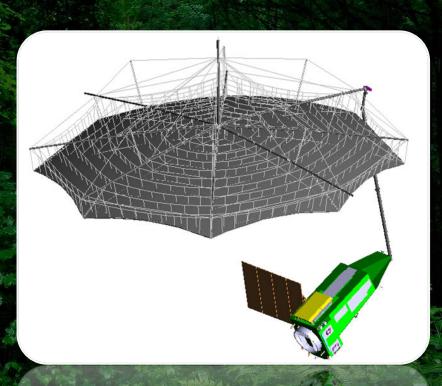
Consortium Prime: ADS-UK,

Instrument: ADS-DE

Launch 2022

date

Lifetime 5.5 years





































Importance of BIOMASS: Changes in biomass affect the services we gain from forests



Changes in forest biomass have major effects on the socioeconomic, material, protective, biodiversity & cultural benefits offered by forests



EO for the Global Agendas



Sustainable Development

UN SDGs



Supporting Smart Decision-Making

Climate Action

Paris



Monitoring & Understanding

Disaster Risk Reduction

Sendai



Providing Key Infrastructure



Thank you for your attention!

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