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Knowledge Sharing Workshop Strengthening the Environment Dimensions of the SDGs in Asia and the Pacific

21-22 February 2018 Bangkok, Thailand







COLLABORATION WITH







Supporting the Implementation of Environment-Related Sustainable Development Goals (SDGs) in Asia and the Pacific



Paolo Manunta

Resident Support to Asian Development Bank HQ

Directorate of Earth Observation Programmes European Space Agency (ESA)

Regional Knowledge Sharing Workshop United Nations Conference Centre 21-22 February 2018 / Bangkok, Thailand

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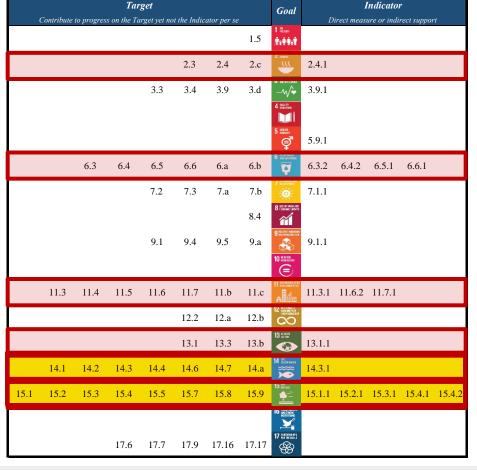
EO for SDGs

Earth Observations potential contribution to the SDG (169) Targets and (230) Indicators



SDGs with most opportunities for Copernicus data and services

Analysis performed by the GEO EO4SDGs initiative







































EO Satellite data characteristics

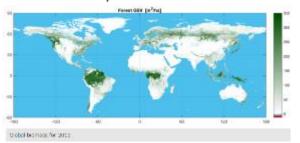


Free and open: The free and open data policy of the European Union's Copernicus programme, prospects for access to the EO data in Asia Pacific have improved

considerably.



Scale and coverage: data on all scales from local to national, regional and even global. Indeed, they are likely the only source of global information for many parameters; for areas that are remote or otherwise difficult to reach.





EO Satellite data characteristics

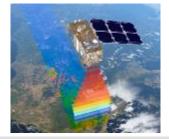


Consistency and comparability: consistency over time and space is an Important feature of a credible Indicator Framework;

Complementarity with traditional statistical methods: to communicate and visualise the geographic dimensions and context of the Indicators as needed.

Diverse measurements: optical cameras, include infra-red sensing (vegetation vigor). Microwave instruments feature increasingly and provide all-weather, day-

night capabilities.





Slide 5



























"SD Goal 15.2 By 2020, promote the implementation of sustainable management of all types of forests"



15.2 Sustainable Forest Management

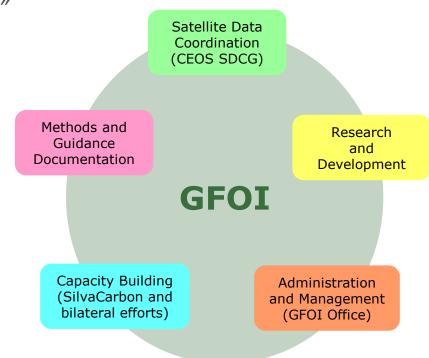


"Goal 15.2 By 2020, promote the implementation of sustainable

management of all types of forests"

The **Global Forest Observations Initiative GFOI** → www.gfoi.org:

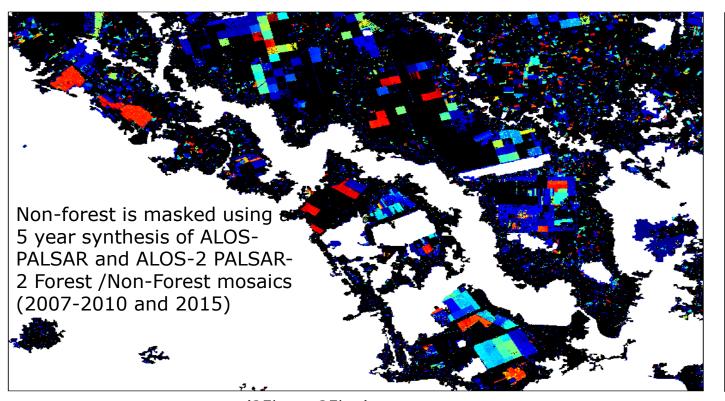
- fosters sustained availability of satellite and ground observation in support of national forest information systems
- supports countries in the use of observations for their national forest information systems





Vietnam: Logging Date Map between Oct. 2014 - Mar. 2017 based on Sentinel-1







(25km x 35km)



Forestry - Thematic Exploitation Platform

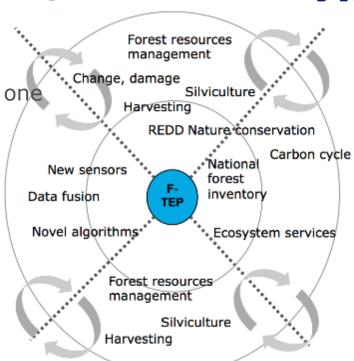


"One-stop shop for forestry remote sensing services for the academic, public

and commercial sectors"

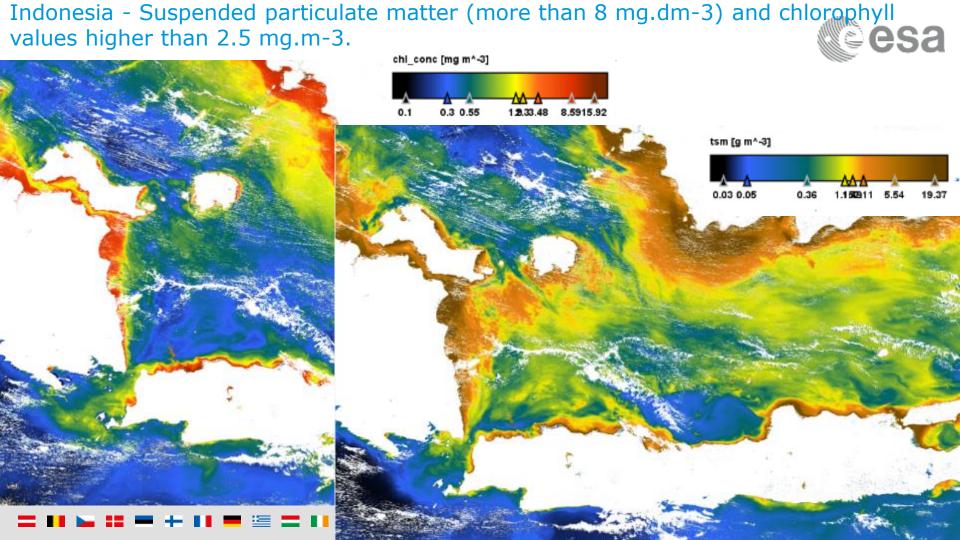
- Terabytes of raw data and final products all in one place
- Community centric work environment
- Reduce the costs of data acquisition from miscellaneous sources
- Self-service environment with support

→ https://forestry-tep.eo.esa.int/





"SD Goal 14.1 By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution"





Coastal - Thematic Exploitation Platform



" A single platform to online Explore, Process, Develop and Exchange EO derived information"

- Bringing users to the data
- Easy and rapid access to a broad range of data sources
- Synergistic scientific research and application development
- Increased accessibility to data, processing frameworks and meta data for non Earth Observation experts

→ https://coastal-tep.eo.esa.int

