



Digital: earth Observation for Forest management. Focus on the ESA-ADB partnership and opportunities



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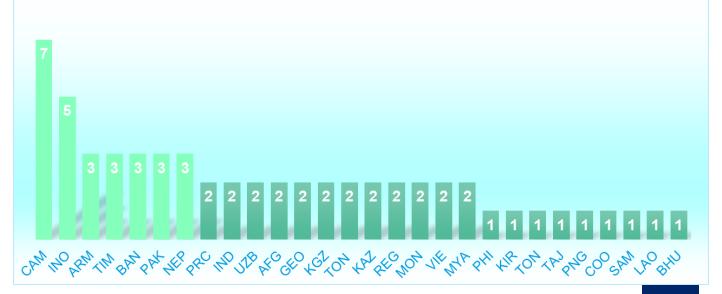
ADB – ESA partnership

- Collaborations initiated in 2010
- Secondees since 2017
- More than 50 projects supported in 30 countries.
- Multi/sectorial support













WHO 23 Member States, 2500+ staff members and total workforce of 6000+

WHY For the peaceful use of space, benefiting all

HQ in Paris, seven sites across Europe & Spaceport in Kourou

BUDGET €7.79 billion = €15 (one cinema ticket) per European a year

ESA-ESOC

ESA-ESTEC

ESA-ESEC

ESA-ECSAT

ESA-HQ

ESA-EAC

ESA-ESAC

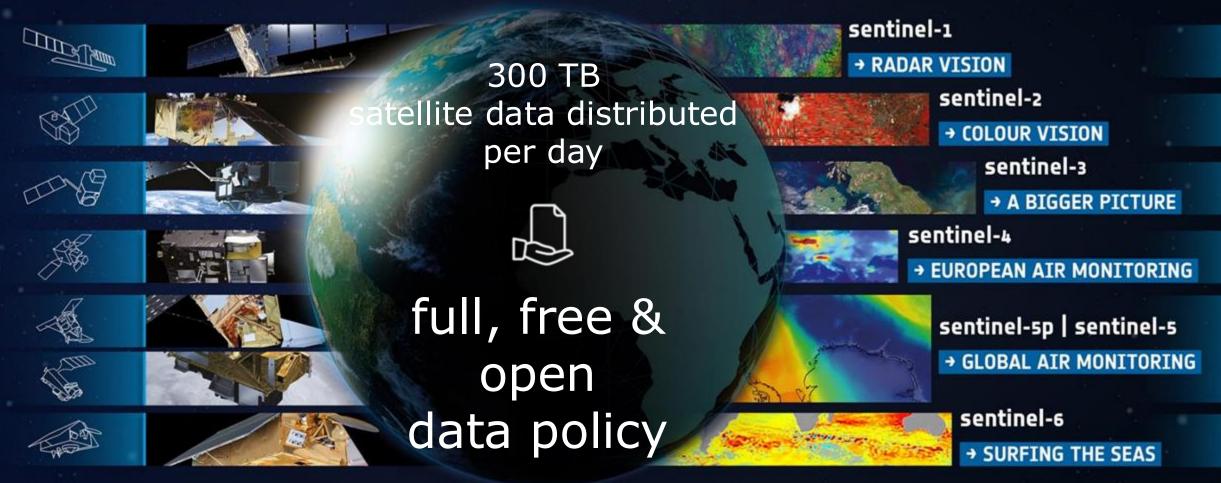
ESA-ESRIN

EUROPE'S SPACEPORT

WHERE

Copernicus Sentinels: Operational monitoring







All global landmass is observed

every 5 days

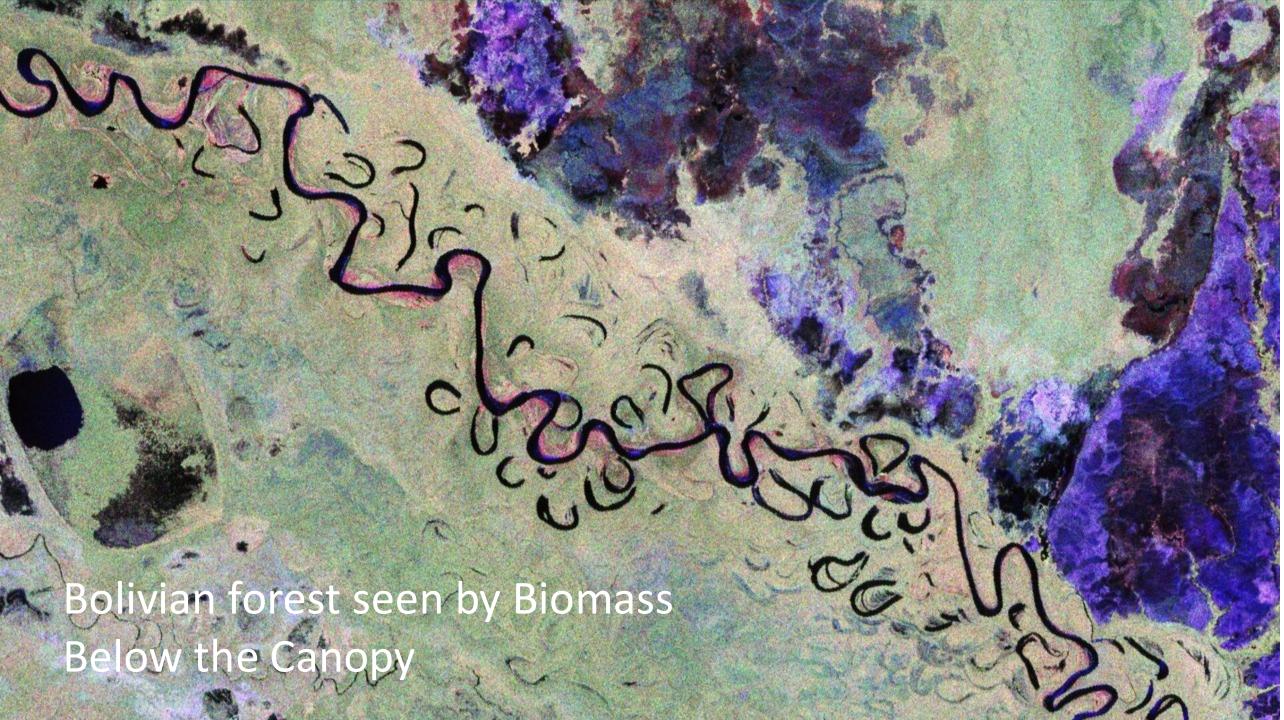
at 10_{m} resolution

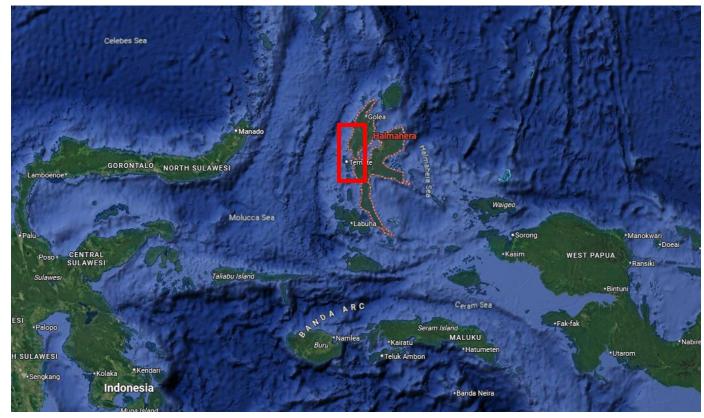


Deforestation monitoring







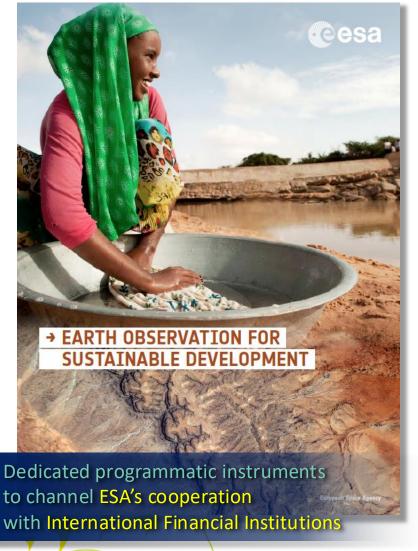


June 2025 Indonesia: Halmahera rainforest





ESA EO programmes in support of Int.



• **eoworld:** 2008-2015 Small-scale demonstrations of EO services in support of IFI projects to raise awareness



• **EO4SD:** 2016-2024

Consolidation of requirements and strategic engagement of development stakeholders to **build capacity** on EO services

• **GDA:** 2020-2027

Mainstreaming of EO into development operations and financing, and skills transfer to IFI and client state stakeholders

GDA^x within **Earth Action**: 2026 onwards



Water Resources

KO Feb'23

Transport & Infrastructure KO Jan'24



Agriculture KO Sep'22

Clean Energy

KO Dec'22

Forest Management KO Sep'24

Marine Env. & Blue Economy KO Jun'22

Public Health KO Sep'24

Urban Sustainability

KO Feb'22

Fragility, Conflict & Security

KO Jan'22

Climate Resilience

KO Dec'21

Disaster Resilience KO Sep'21













Climate Adaptation & Finance KO Apr'25

GDA AID

Agile EO Information Development









































ESA Global Development Assistance

Accelerating Impact

EO for Forest Management – Use Cases

For ADB, GDA Forest



Implemented by: GAF AG | IGN-FI | ONF-I | unique | GISBOX | Caribou Space

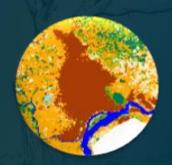
GDA Forest Monitoring Started September 2024



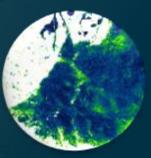
Forest Monitoring, EO based Product Portfolio



Portfolio of Verified Products



Land Use /Land Cover and Change



Tree Cover Density and Tree Cover Change



Forest Area and Change



Near Real Time Canopy Disturbance



Mangrove Area, Change and Recovery



Global Biomass, Global Landcover, WorldCover, WRI...



To support Forest Management

REDD+ for Tropical Forest Ecosystem

Protected Areas

Zero Deforestation

EUDR

Forest Inventories

Coastal Ecosystems and Mangroves

Forest Landscape Restoration

Sustainable Forest Management

























KGZ — Conservation and Afforestation

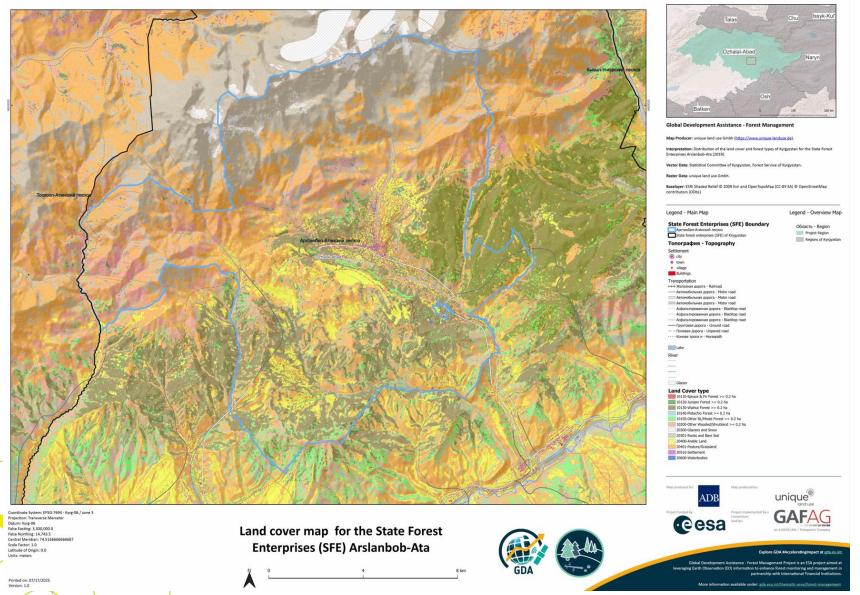
- Supporting Forest project preparation
 - Maps
 - Data
 - Analytics



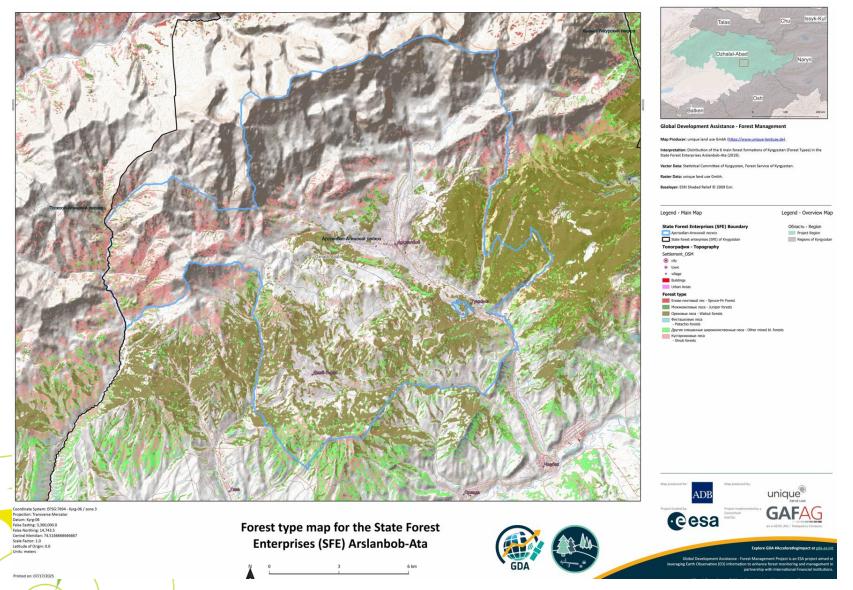




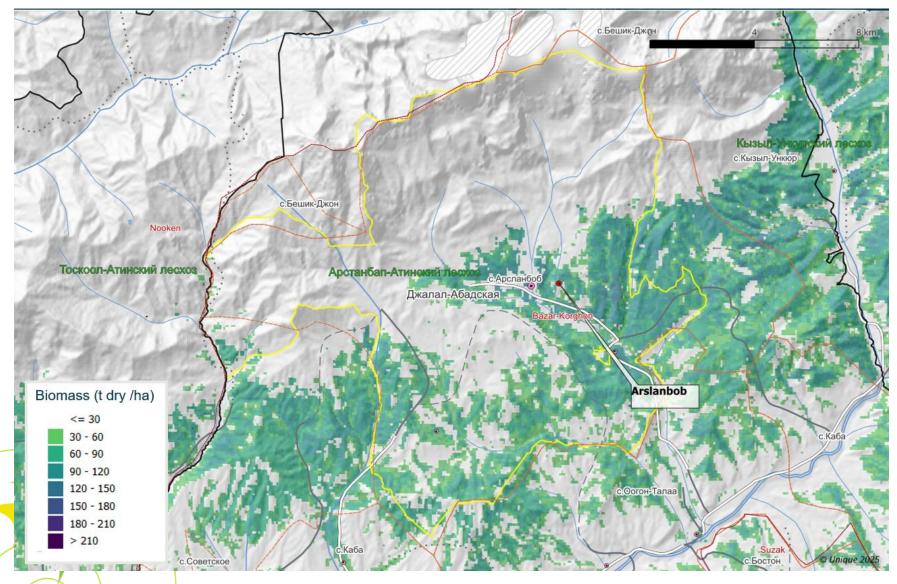
Land cover map



Forest type map



Biomass map

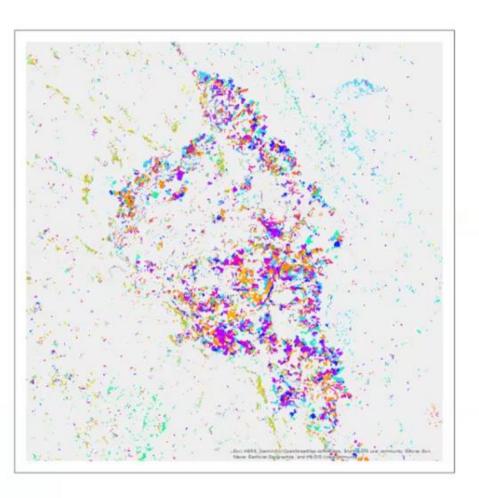


LAOS - Tree Cover Disturbance (WB project)



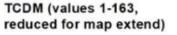


LAOS - Tree Cover Disturbance (WB project)















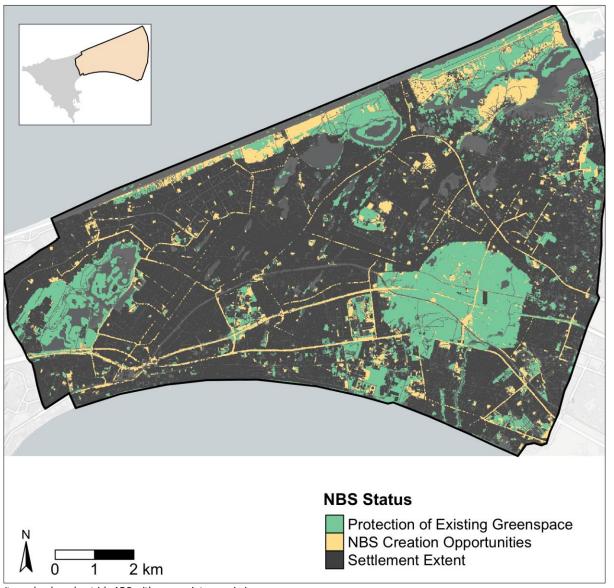
Other initiatives



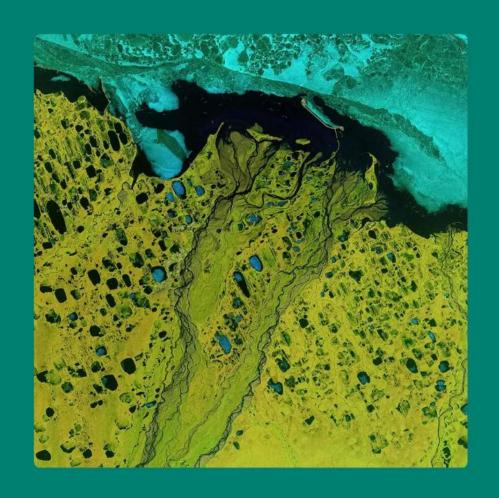
NBSOS - Nature-Based Solutions Opportunity Scan

- ESA, in partnership with WB will pilot the NBS Scan with ADB.
- 3 Cities selected already.





LEON Leveraging Earth Observation for Nature Finance



MISSION

Explore how Earth
Observation can support
the upscaling of naturepositive activities.

Project LEON aims to enhance and facilitate finance for the benefit of nature by bridging data gaps and improving decision-making.

CopPhil – the first Copernicus Mirror

- CopPhil is managed by the European Union Delegation to the Philippines.
- It is implemented by the European Space Agency (ESA) in partnership with the
- Philippines Space Agency (PhilSA) and the Philippine Department of Science and Technology (DOST).

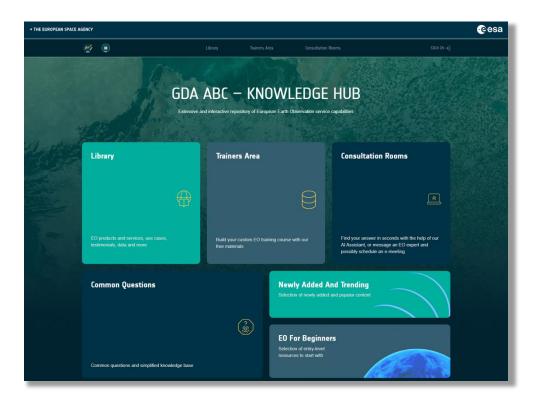






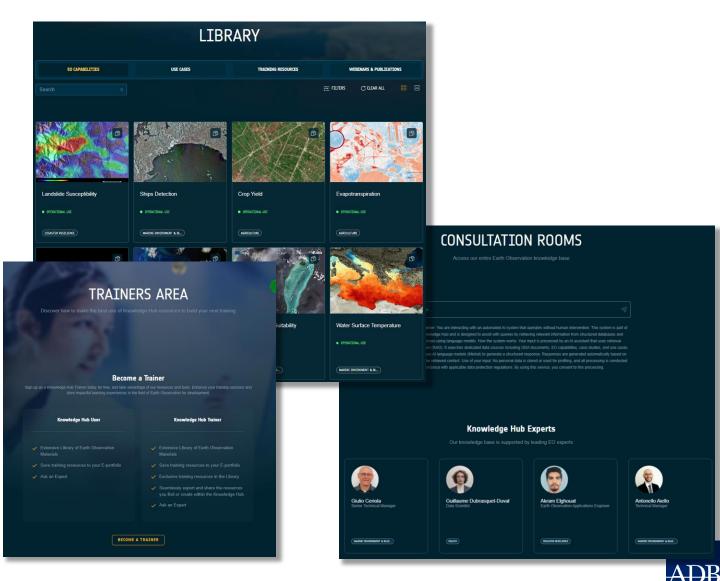
GDA

Knowledge Hub



Learn about EO Capabilities through our Knowledge Hub





How to engage with DIG and ESA and benefit from the partnership.

Current opportunities in :

Forest Management

Climate Finance and Adaptation

Health

Transport





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