

Global Development Assistance

Accelerating Impact



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European Space Agency Directorate of Earth Observation Programmes

ADB «e-Marketplace for a Water-Secure and Resilient Asia and the Pacific» Earth Observation from Space – 18 October 2021

* using inputs from teams across ESA EOP

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ESA today







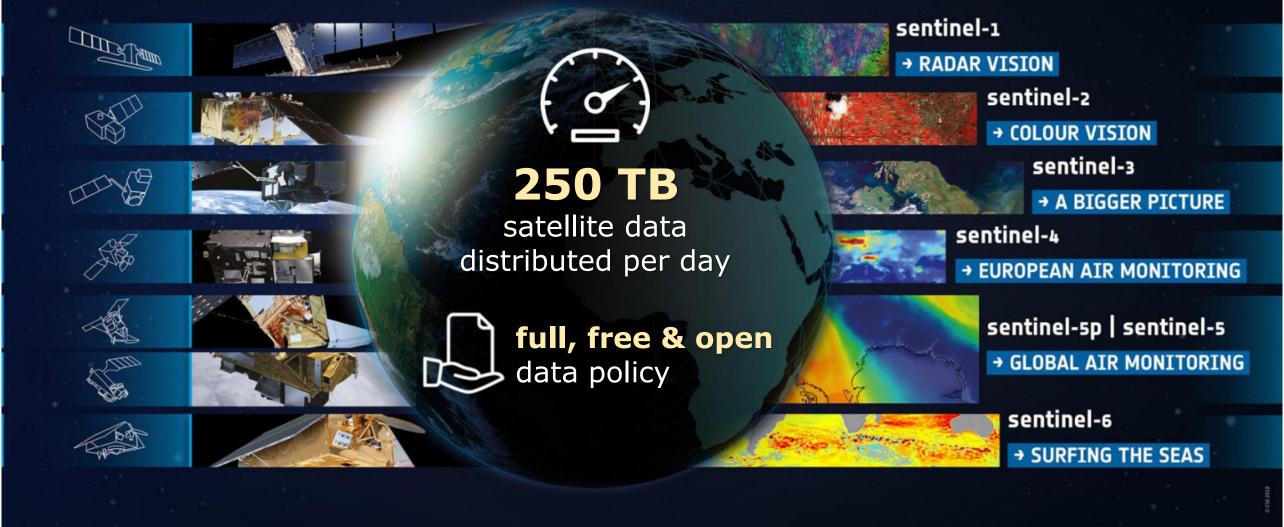
ESA-DEVELOPED EARTH OBSERVATION MISSIONS



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Copernicus Sentinels for operational monitoring







1957 Sputnik The New York Times. "All the News That's Fit to Print" LATE CITY EDITION SOVIET FIRES EARTH SATELLITE INTO SPACE;

Disruptive Teche

The first satellite with AI onboard is now in orbit, and its tech could completely change how we respond to wildfires

https://www.businessinsider.com/intel-esa-launch-ai-satellite-phisat-1-2020-10

IT IS CIRCLING THE GLOBE AT 18,000 M. P. H.; SPHERE TRACKED IN 4 CROSSINGS OVER U.S.

DT4D DISBUPTIUE TECHNOLOGIES FOR DEVELOPMENT

→ THE EUROPEAN SPACE AGENCY

2020

ESA PhiSat



Innovation doesn't always come in form of a new product or new technology...

... sometimes it's about a NEV Vay to address an old problem

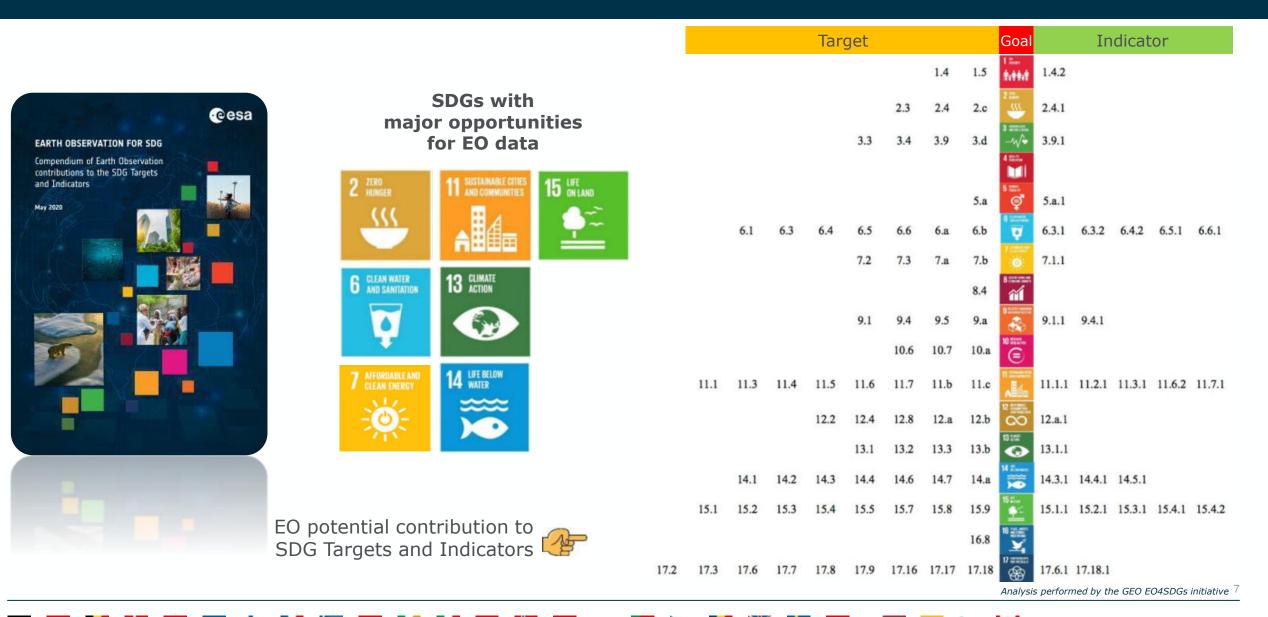




FOR DEVELOPMENT

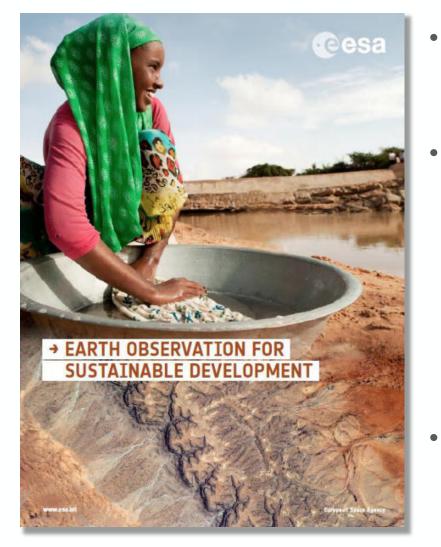
Earth Observation and the SDGs





ESA EO programs in support of Intl. Development

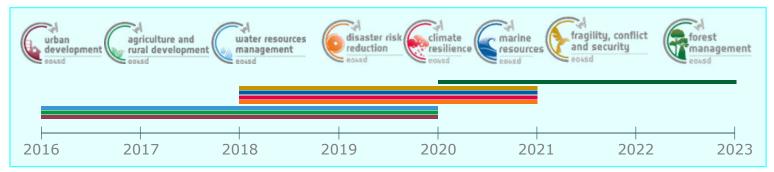




eoworld: 2008-15 | €10m Small-scale demonstrations of EO services in support of IFI projects to raise awareness

EO4SD: 2016-23 | €25m

Consolidate requirements, engage stakeholders (IFIs & client states) via regional demonstrations of EO



GDA: 2020-25 | €30m → \$100m **Space for IDA** Mainstream & transfer EO into operational working processes & financing of ODA/development aid as 'best-practice' source of geo-information





Global Development Assistance: Program milestones

Timeline: Preparation milestones (selection)

- January 2018: initial exploratory meeting to start a discussion on EO and Official Development Assistance (ODA) with first interested national aid agencies from across Europe, together with representatives from the national space agencies/gov. depts., OECD and DG-DEVCO
- September 2018: extensive consultation with development aid sector from across Europe, together with representatives from the national space agencies and gov. depts., OECD and DG-DEVCO, focused on future actions and planning required to grow the use of EO in the development aid sector
- November 2019: GDA is set up at the Space19+ ESA Ministerial Council Meeting with a subscription of €30m by 13 member states for a 5-year period
 - GDA participating states:



Austria, I Belgium, Czech Republic, F Finland, Germany,
Ireland, I Italy, Luxembourg, Romania, Spain, Switzerland,
UK, Portugal



ESA OPENING A DIALOGUE

Posted on October 23, 2018

ESA CONTINUES DIALOGUE WITH NATIONAL AID AGENCIES

Earlier this year in January, an initial exploratory meeting took place at ESA's centre for Earth



Posted on June 26, 2020 by Interangela

BETTER DECISIONS IN DEVELOPMENT ASSISTANCE WITH E0

Satelite Earth Observation (ED) provides a wide range of different types of environmental information that are global, comprehensive, accurate, repeatable and timely, and that are key to the effective planning, implementation, monitoring and availuation of Development Assistance.

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Thanks to GDA, the joint **Space for IDA** initiative has **mobilized >100\$ million**, including **development finance commitments for ~69\$ million** dedicated to capacity-building associated with and in support of GDA technical developments

Dedicated programmatic structures are being put in place by WB & ADB to facilitate coordination and resource mobilization, following a holistic approach to development finance



Space for IDA: Programmatic alignment





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Space for IDA: Programmatic alignment





ESA GDA and ADB Water Resilience

Mainstreaming Water Resilience in Asia and the Pacific



- ESA GDA: 2022-25 Selected pilots in ADB pipeline Climate Resilience, Flood Risk, Water Resources and Marine Waters Mainstream EO Knowledge
- **ADB's** cluster TA, Mainstreaming Water Resilience in Asia and the Pacific -Country-Specific Diagnostics, embed resilience in planning and design use technology and enable innovation Mainstream EO Capacity Building and Skill Transfer





From Piloting to Mainstreaming







Aoption

" All of us have always been fascinated

by the **potential** that this technolog

gives us in the development space.

Now it has gone **beyond the**

fascination. Now we are

entering a stage where we can

actually turn the beautiful images into

real management decisions."

Juergen Voegele, VP, World Bank



International Development Assistance

" Mainstreaming EO in dev. assistance and realizing its full operational potential."

ESA @ e-Marketplace: Virtual Expo, Closing Plenary



