

EO in support of Economic Investments in Developing Countries

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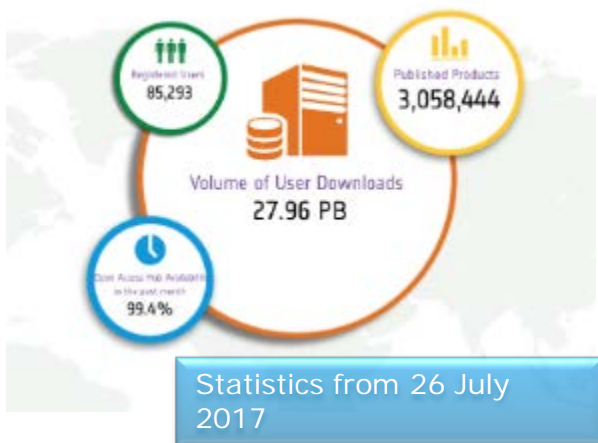
Country Programme Manager
International Fund for Agricultural Development (IFAD)

Space Solutions for Resilience in the Mediterranean

27-28 June 2017, Malta.

Sentinels Dashboard

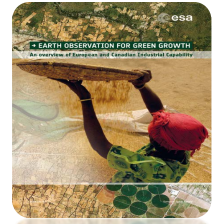
- The **Sentinel Dashboard** represents a novel concept to communicate with stakeholders the operations status of the Sentinel missions **in real time**
- It includes provision of system availability, data access performance and user statistics. Easily accessible online and via mobile devices
- First version released on 17 February 2017. Evolutions scheduled for Q3, introducing new features and responding to feedback.



EO for Sustainable Development

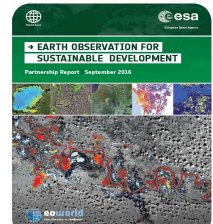
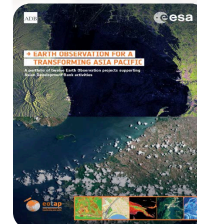


- 65+ small-scale demonstrations of EO-based environmental information in the implementation of Official Development Assistance (ODA) projects during 2010-15.

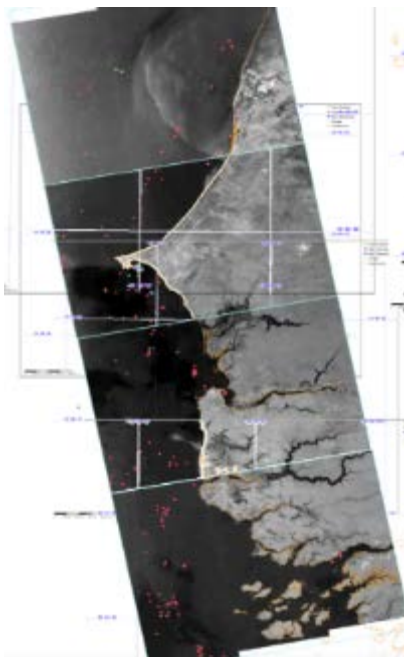


World Bank, Dec 2015

Asian Development Bank, Nov 2016



Example : Illegal Fishing



First use of Sentinel 1 data for fisheries protection in developing countries (West Africa).



European Commission Gets Tough with Illegal Unreported and Unregulated Fishing, With A Little Help from Liberia

December 28, 2015



THE WORLD BANK
IBRD • IDA
(<http://www.worldbank.org/>)
FEATURE STORY



Sachiko Kondo / World Bank

International Financing Institutions (IFI):

How could they use EO ?

Information Drivers

- **Green Growth**
 - Environmental impact / sustainability of economic development investments
- **Climate Resilience / Proofing**
 - Long-term durability of development investments
- **Natural Capital Valuation**
 - Economic valuation of Ecosystems for National and Global accounting (GDP)
- **Open Development**
 - Increasing drive towards transparency in knowledge resources

Information Uses

- **In support directly to Programs / Projects**
 - concept definition, planning, implementation
 - close-out and remission
 - as part of capacity-building in developing countries
- **In support of Monitoring & Evaluation (M&E) methodologies**
 - as *best-practice* to harmonize M&E tools: Feasibility Environmental Impact Assessments, Audits
- **In support of policy & planning**
 - sectorial analyses
 - country development planning
 - recent financial approaches to valuation of natural



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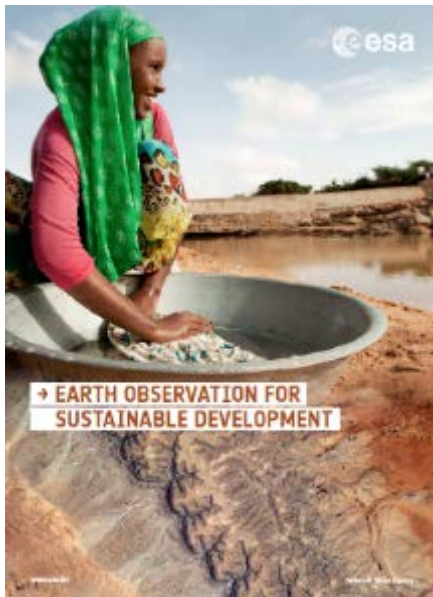


A User Perspective

Feedback from International Fund for Agricultural Development (IFAD) on the utility of EO-based environmental information through the project experiences with ESA.

Earth Observation for Sustainable Development

Longer-Term Vision (next ~ 8 years)



- **Phase 1** (3 years, 25 M€, EOEP-5):
Consolidate Requirements, engage stakeholders (IFIs & Client States) via regional demonstrations of EO.
- **Phase 2** (5 years, ~ TBD M€, EW):
Mainstream & Transfer EO into operational working processes & financing of ODA as 'best-practice' source of environmental information in Environmental Safeguards Systems (ESS) and Monitoring & Evaluation (M&E) methodologies, SDGs drivers.
- **Priority thematic areas :**
10 Thematic Areas, Strategic Agreements with WB + ADB
Urban, Marine & Coastal, Agriculture, Disaster Risk Reduction, Energy & Extractives, Water Resources, Forest, Ecosystems Services, Fragile & Conflict States, Climate Resilience & Proofing.

2016: Agriculture, Urban Development, Water Resources

2017: Marine & Coastal, Disaster Risk Reduction, Fragile & Conflict States, Climate Resilience & Proofing

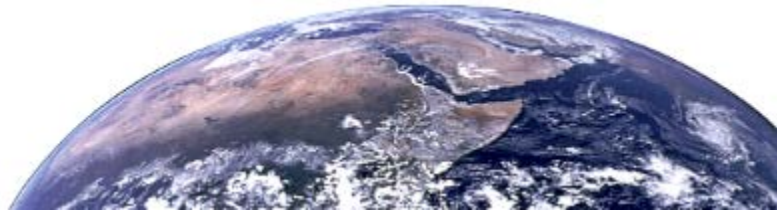
→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT



Take-Home Messages.....

- Official Development Assistance (ODA) is a sector of huge (and long-term) economic activity with increasing attention on **environmental sustainability (green growth) and climate change (resilience, proofing)** of the (mainly large infrastructure) projects undertaken in developing countries,
- Earth Observation can deliver **key environmental information that supports** the definition, planning, implementation, monitoring and assessment of major projects happening in developing countries.
- Europe has **world-leading capabilities in Earth Observation** (both ESA and national EO missions) and a highly skilled and experienced EO information services industry.

-> **Europe can make a significant contribution**



+ COOPERATION WITH INTERNATIONAL FINANCING INSTITUTIONS



Earth Observation for a Transforming Asia Pacific
 A portfolio of twelve EO projects supporting Asian Development Bank activities 2014-2016
<http://www.esa.int/esa/en/media/publications/EO/AP/>



**Earth Observation for Sustainable Development –
 ESA-World Bank Partnership Report September 2016**
 Report describing ESA's ex-ante batch of EO support projects in partnership with the
 World Bank 2013-2015
http://www.esa.int/esa/en/media/publications/ESA_WB_Partnership_Report_2016/



**Earth Observation Support for the International Fund For Agricultural Development –
 Final Report August 2016**
 Report describing an EO support projects in partnership with IFAD
<http://www.esa.int/esa/en/media/publications/IFAD/>



**Earth Observation for Sustainable Development –
 ESA-World Bank Partnership Report June 2013**
 Summary report of the first batch of projects in cooperation with the World Bank
http://www.esa.int/esa/en/media/publications/ESA_WB_Partnership_Report_2013_complete/



**Earth Observation Information Services for European Investment Bank Projects –
 Progress Report September 2012**
 Summary report of projects in cooperation with the European Investment Bank
http://www.esa.int/esa/en/media/publications/esa_eib_progressreport.pdf



Thank You !

and

For further information.