

InfoSession

25 July 2018 | ADB, Manilla, Philippines

Introduction and welcome

EO4SD consortium, presented by Remco Dost, eLEAF



Nelen & Schuurmans



This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

The consortium of EO4SD – Agriculture and Rural Development

SERVICE PROVISION ▼



DATA INTEGRATION ▼

Nelen & Schuurmans



THE NETHERLANDS

CAPACITY DEVELOPMENT ▼



COMMUNICATION ▼



BELGIUM

A dedicated programme for sustainable development: EO4SD

EO4SD – Earth Observation for Sustainable Development:

An **ESA** initiative for large-scale exploitation of satellite data in support of international development

- Engaging various IFIs and their member states
- Time frame of the following elements: 2016–2018

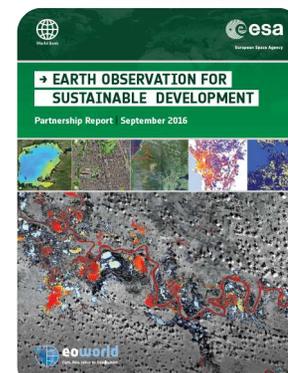
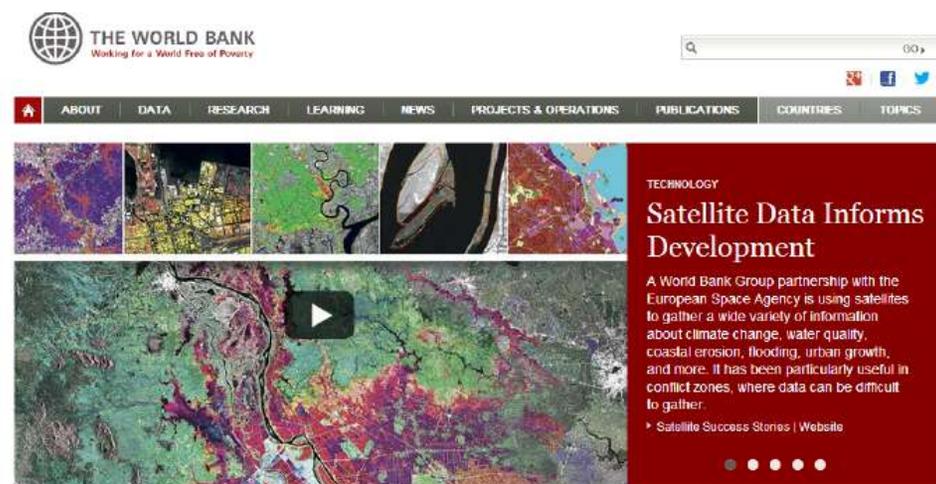
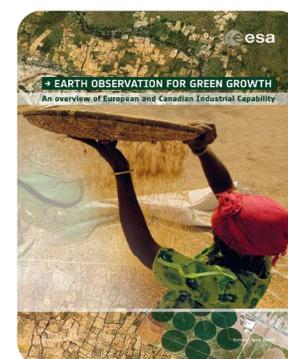


Cardinal Objectives:

- What EO-based information is most needed and how can it be used in Official Development Assistance (ODA) activities and working practice?
- Which benefits does this information deliver to stakeholders (IFIs and their member states), and do these benefits justify the costs?
- How can this use of EO-based information be established on a long-term, sustainable basis?

Promoting data literacy and use in international development

- 65 small-scale demonstrations of EO services in support of IFI projects since 2008

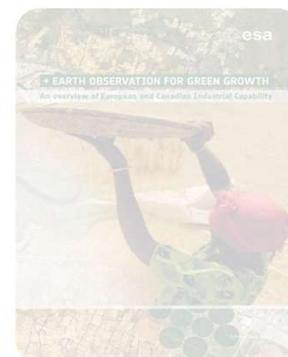
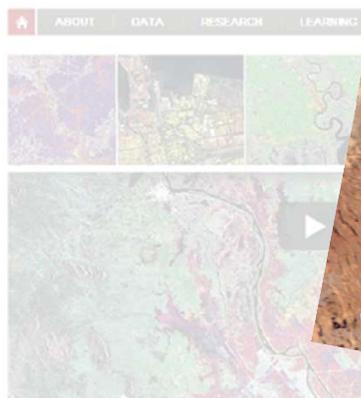


→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT
Agriculture and Rural Development

European Space Agency

Promoting data literacy and use in international development

- 65 small-scale demonstrations of EO services in support of IFI projects since 2008

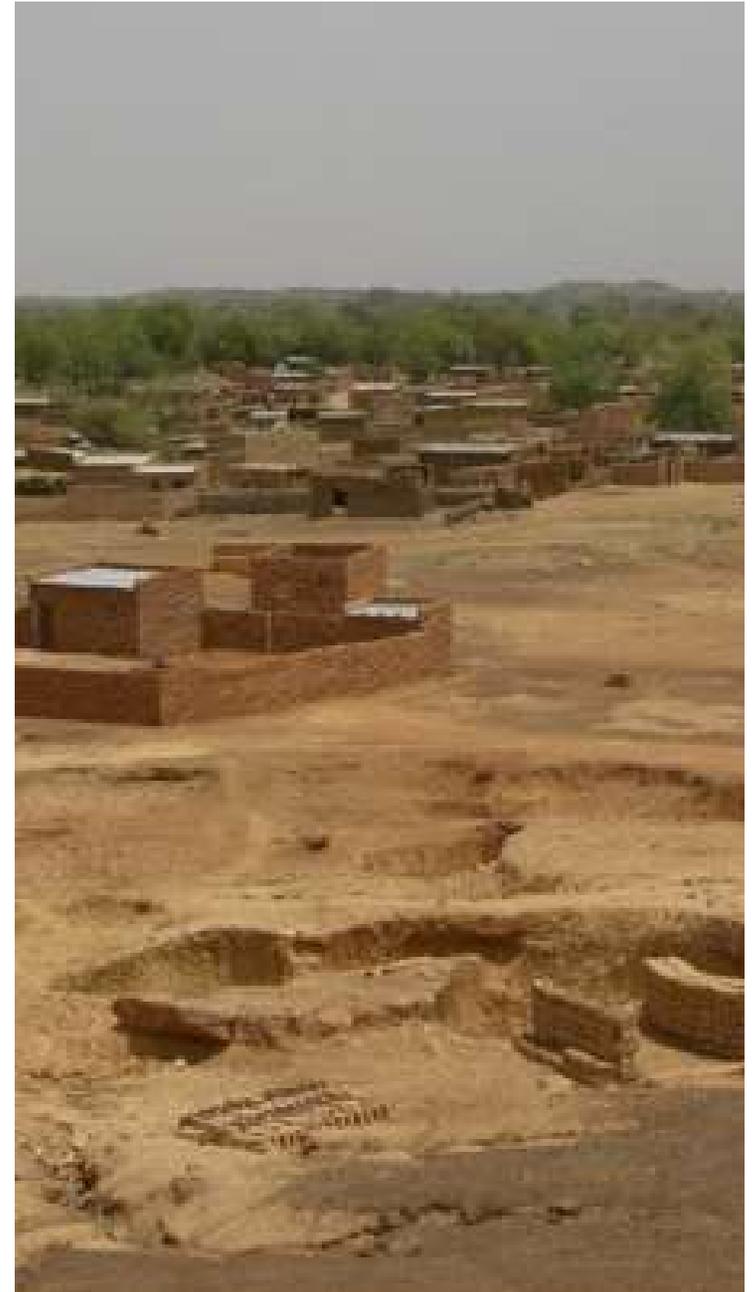


→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT
Agriculture and Rural Development

European Space Agency

Objectives

- To **demonstrate** the effectiveness of Earth-observation-based products & services in the Agricultural and Rural Development domain;
- Specifically for the **planning** and **implementation** of the development projects, programmes and activities of the IFIs, together with their respective Client States;
- to meet **long-term, strategic geospatial information needs** in the individual developing countries, as well as international and regional development organizations;
- **thus bridging and matching IFI and CS requirements and EO service provision and development.**



EO4SD project cluster beliefs that

Earth Observation is a powerful tool for **multi-scale environmental monitoring**:

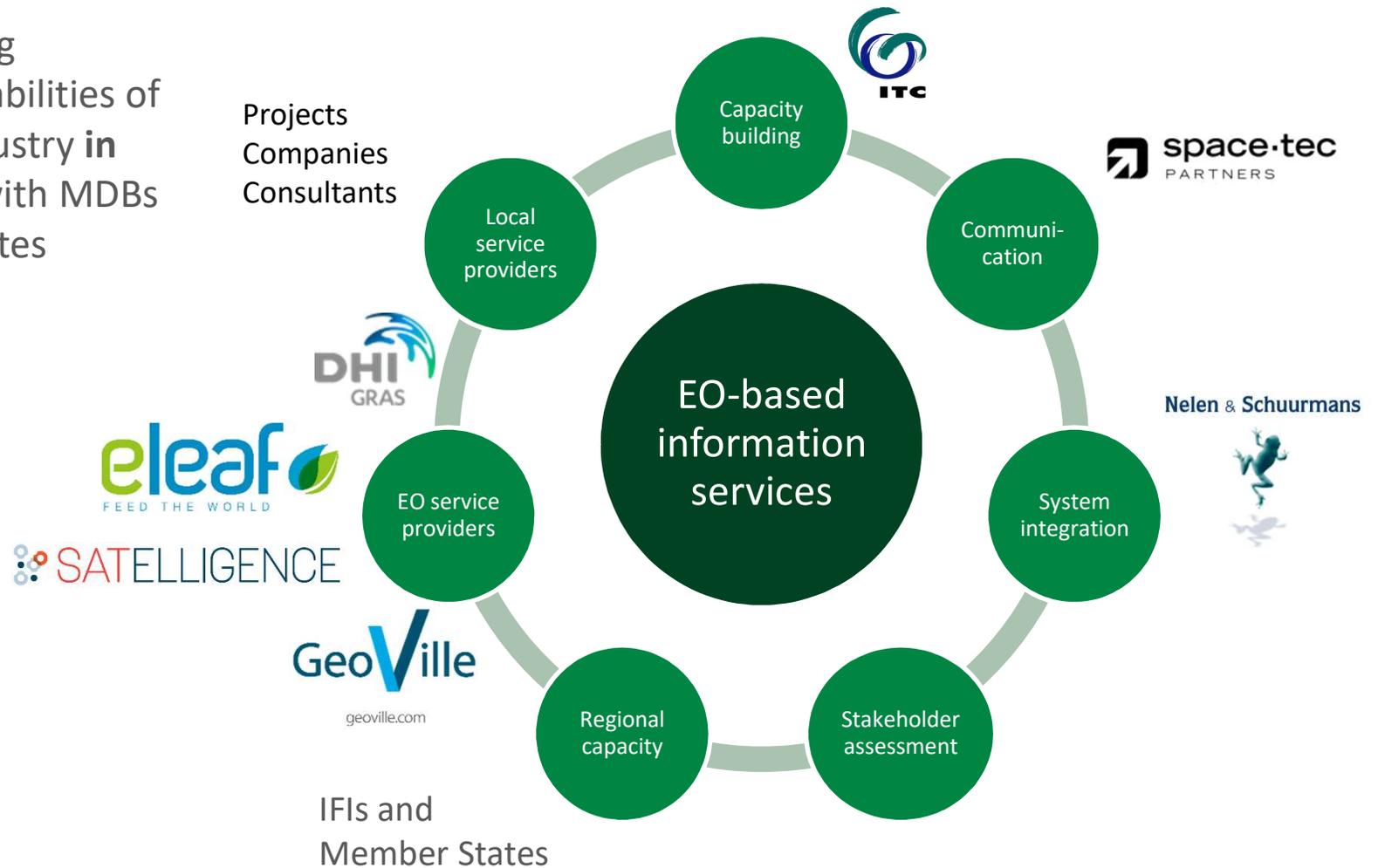
- Coherent, consistent and objective data
- Promotes consistency and comparability
- Relatively low costs
- Access to data at locations that are otherwise hard to reach
- Time record



EO4SD approach taken

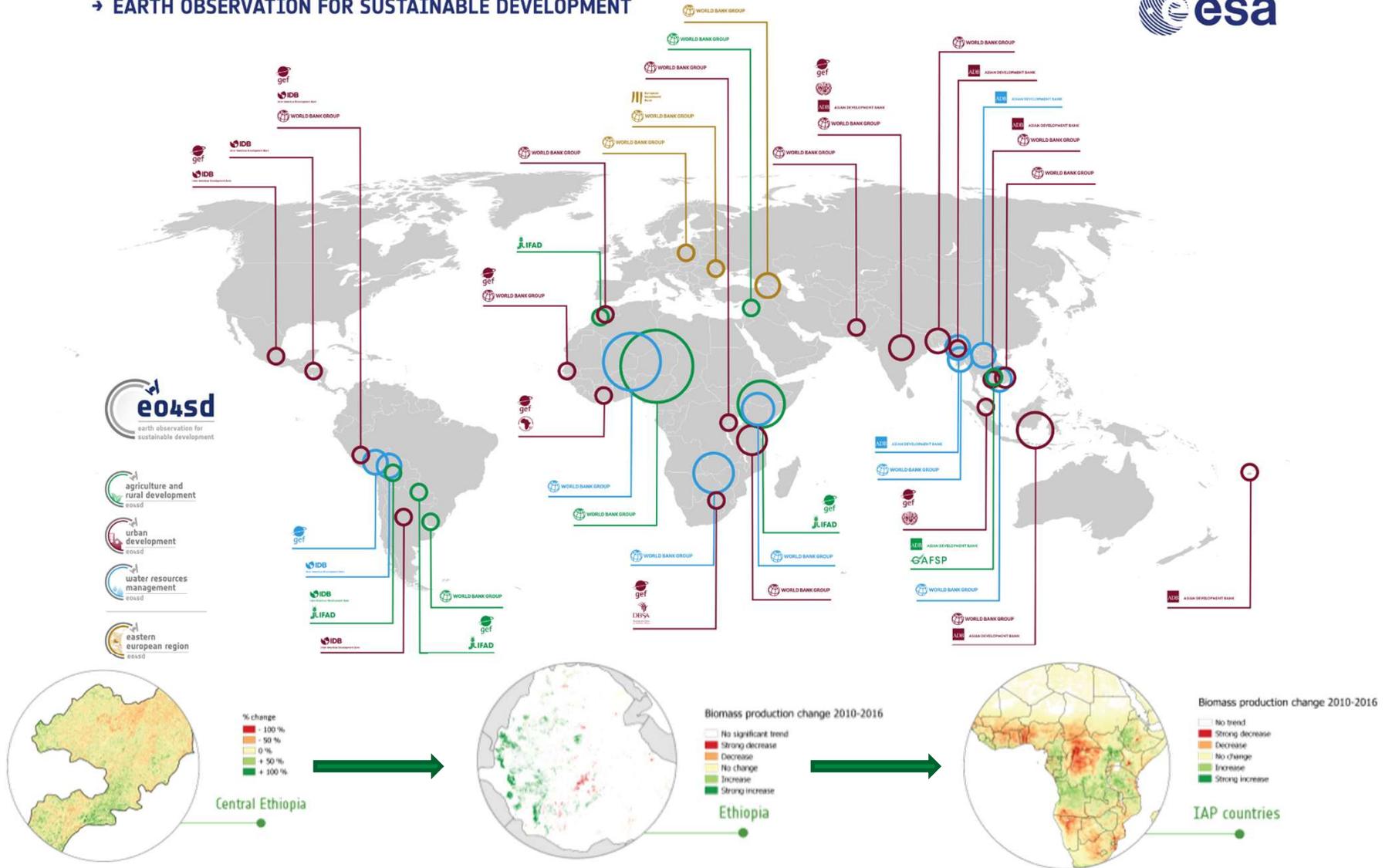
Co-creation

Demonstrating technical capabilities of European industry in **partnership** with MDBs and Client States



EO4SD (local) demonstrations that showcase the continental potential

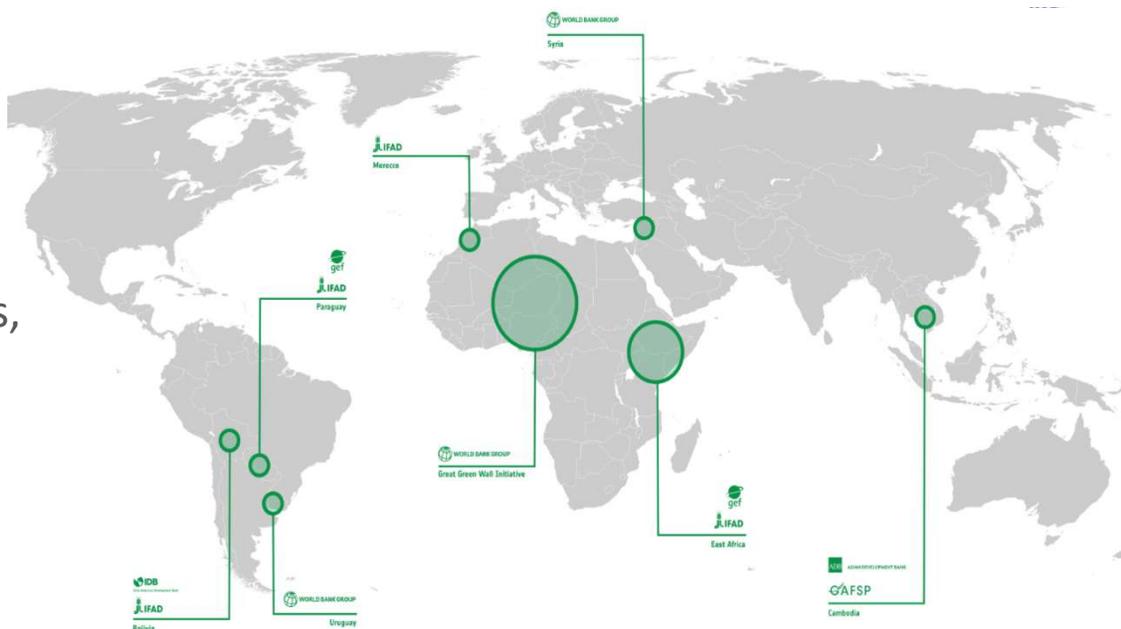
→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT



Focus demonstrations

Selection based on:

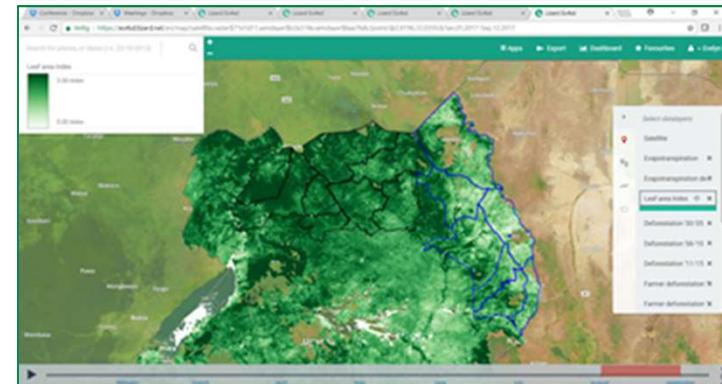
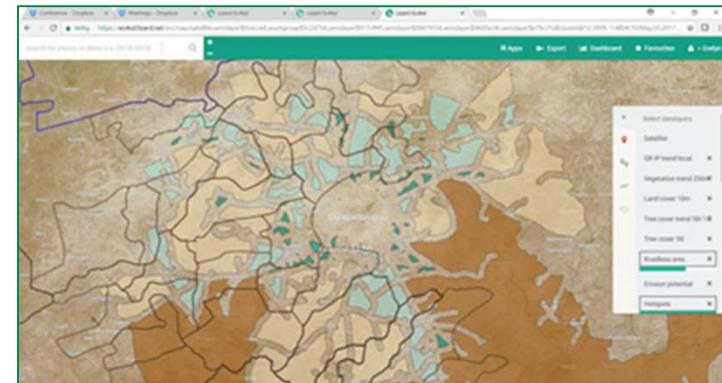
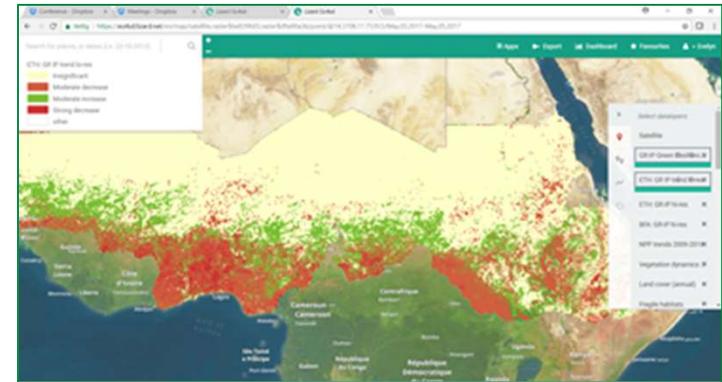
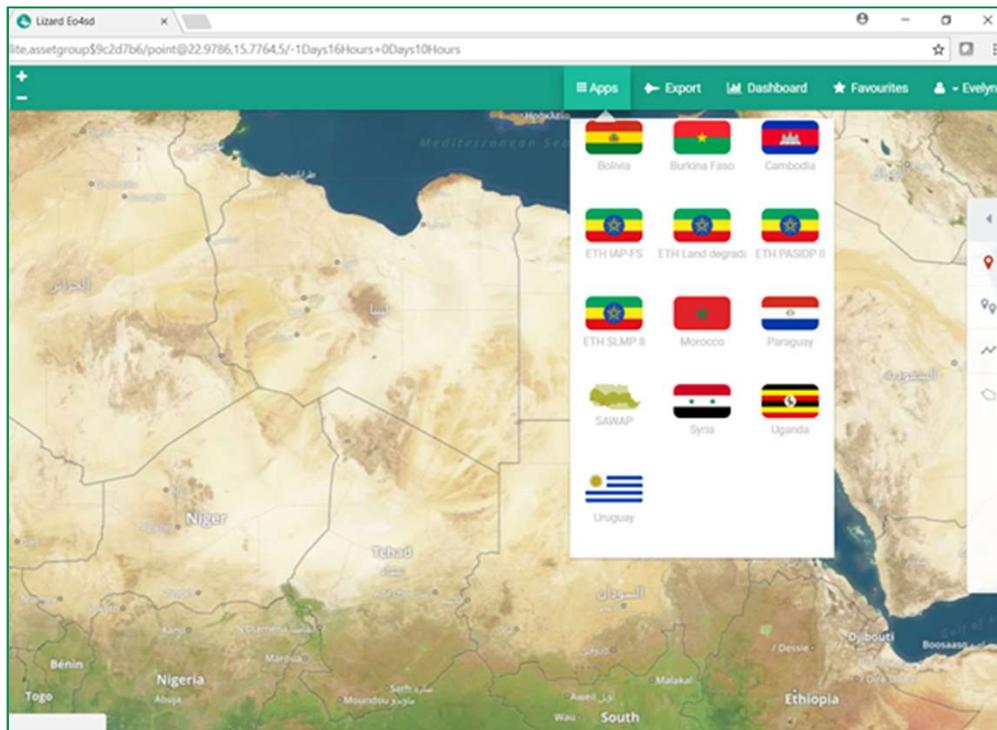
- IFI opportunity, requirements, interest and involvement
- Technical feasibility
- Impact



Countries	Demonstration
Cambodia, Uganda, Syria	Agricultural production and food security applications
Sahel and sub-Saharan Africa, focus on Ethiopia, Burkina Faso and Morocco	Large-scale land degradation and environmental monitoring
Uganda, Bolivia, Paraguay	Agricultural commodities, impact on deforestation

Services and capacity building materials available online

- <http://eo4sd.esa.int/agriculture>
- <https://eo4sd.lizard.net/>



Event agenda and structure

Day 1 – Info session (9:00 – 17:30)

- Opening session: Earth Observation in the context of sustainable development
- Session 1 - Increase Agricultural productivity & Natural Resources Monitoring
- Session 2 - Optimise water use efficiency
- Session 3 – Inundation frequency mapping using Earth Observation
- Session 4 – Monitoring and evaluation using Earth Observation

Day 2 – Technical session (9:30 – 15:00)

- An overview of available satellite data and services
- Learning by example: services and open source tools
- Round table discussion on uptake of EO services for agriculture

Thank you!

For more information

<http://eo4sd.esa.int/agriculture>