

InfoSession

25 July 2018 | ADB, Manilla, Philippines

Introduction and welcome

EO4SD consortium, presented by Remco Dost, eLEAF



Nelen & Schuurmans



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The consortium of EO4SD – Agriculture and Rural Development

SERVICE PROVISION ▼



DATA INTEGRATION ▼

Nelen & Schuurmans



THE NETHERLANDS

CAPACITY DEVELOPMENT ▼



COMMUNICATION ▼



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

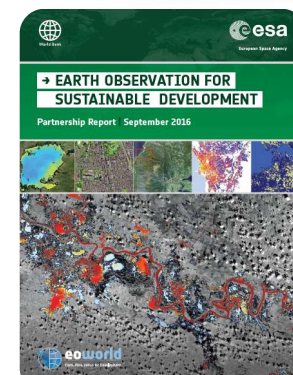
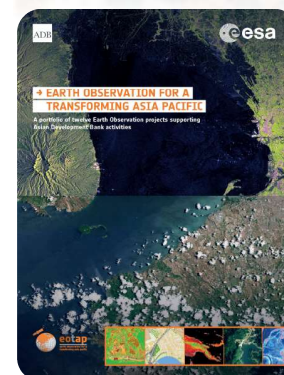
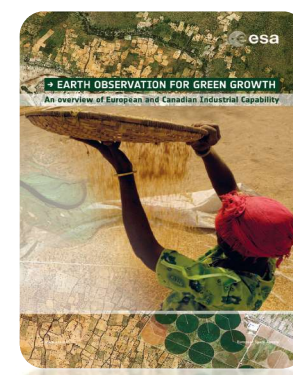
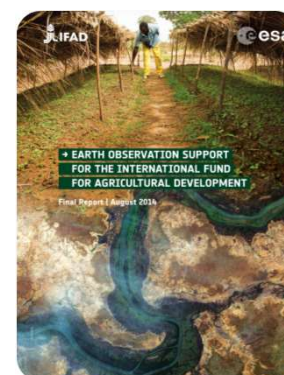


Cardinal Objectives:

- 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

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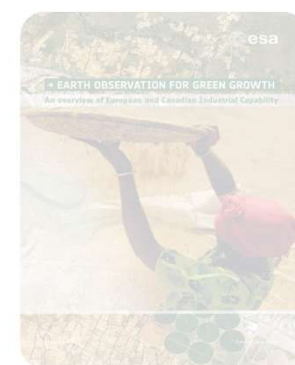
Longer-term vision



ABOUT DATA RESEARCH LEARNING



→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT
Agriculture and Rural Development



European Space Agency

Objectives

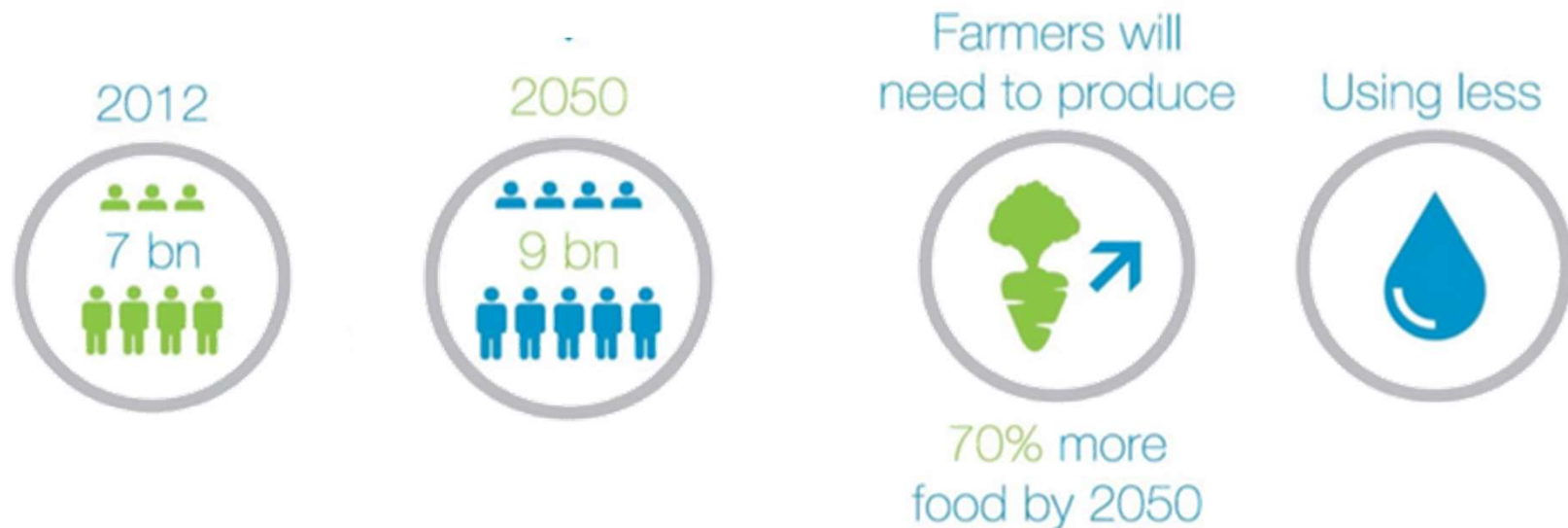
- To **demonstrate** the effectiveness of Earth-observation-based products & services in the Agricultural and Rural Development domain;
- Specifically for the **planning** and **implementation** of the development projects, programmes and activities of the IFIs, together with their respective Client 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**:

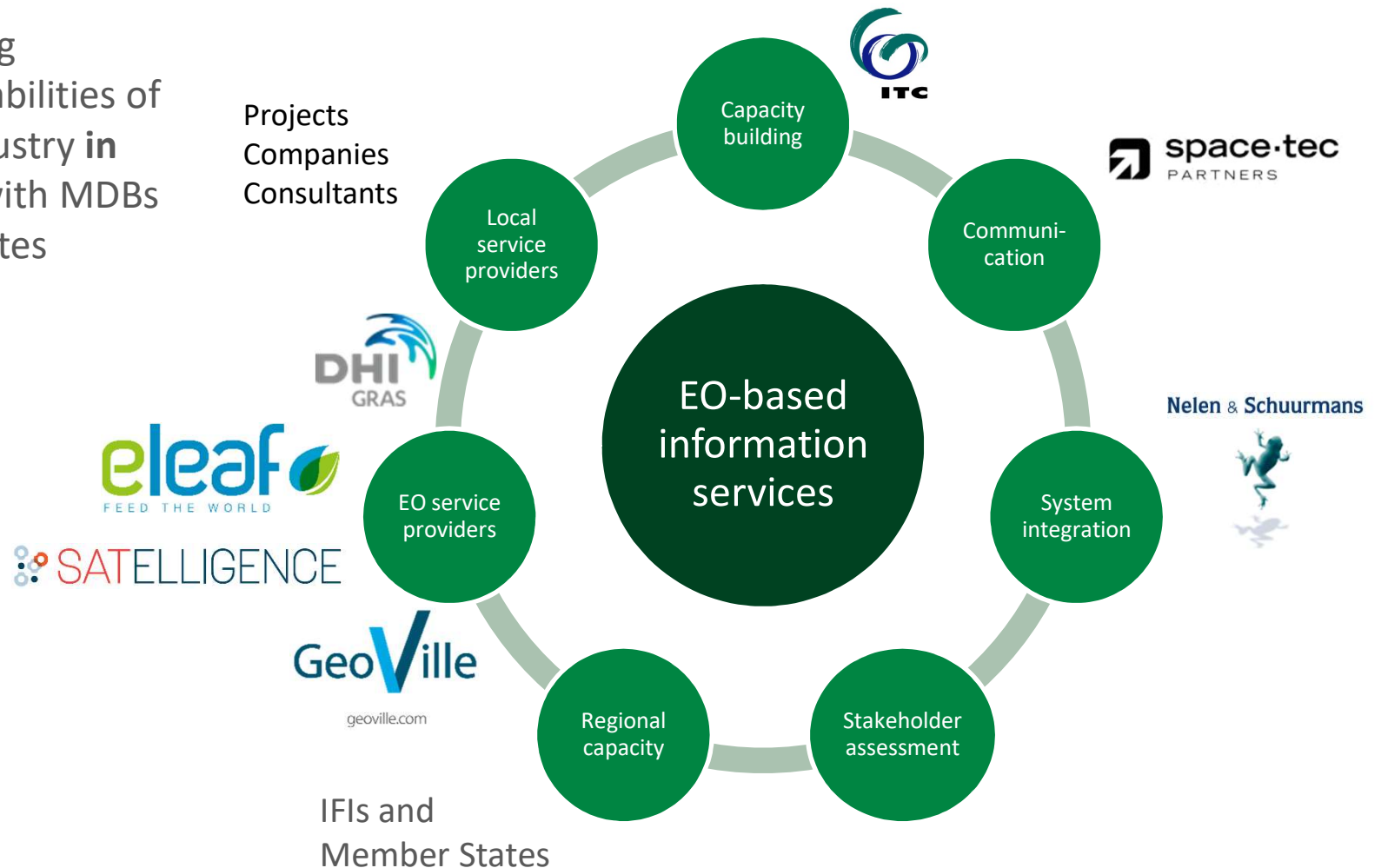
- Coherent, consistent and objective data
- Promotes consistency and comparability
- Relatively low costs
- Access to data at locations that are otherwise hard to reach
- Time record



EO4SD approach taken

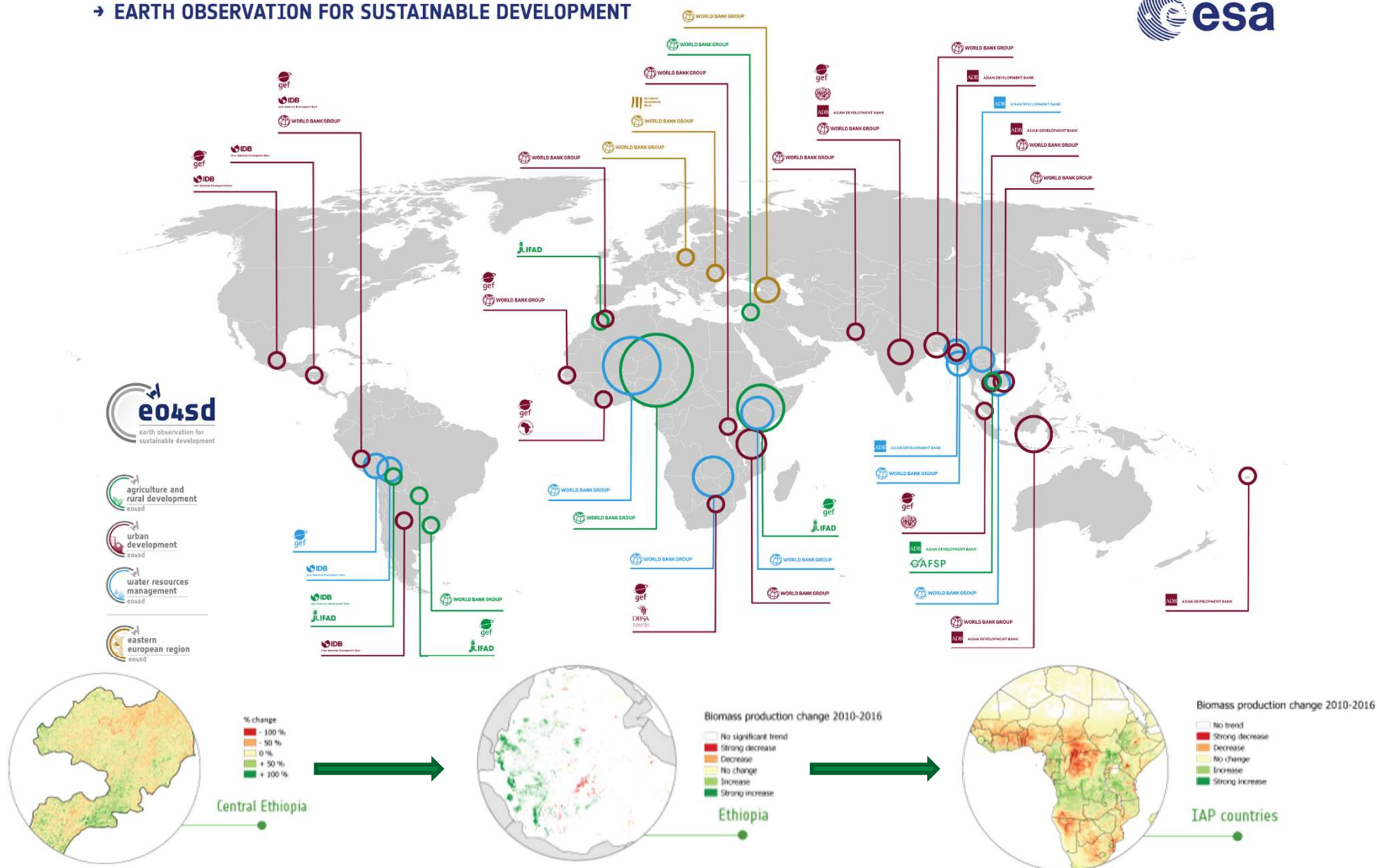
Co-creation

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



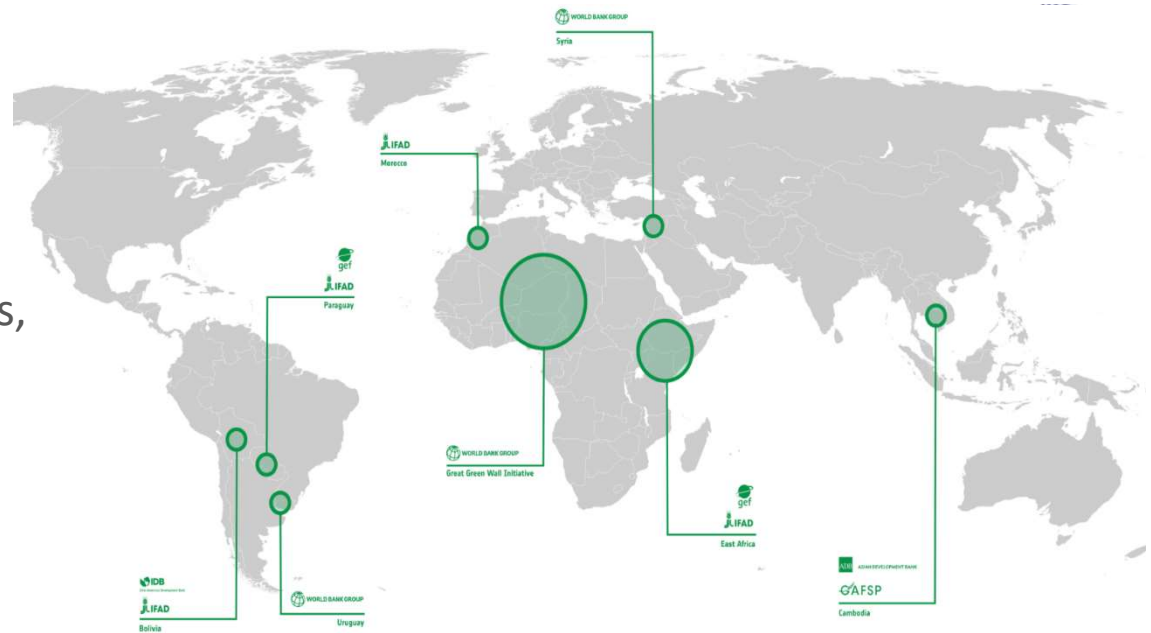
→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT
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Focus demonstrations

Selection based on:

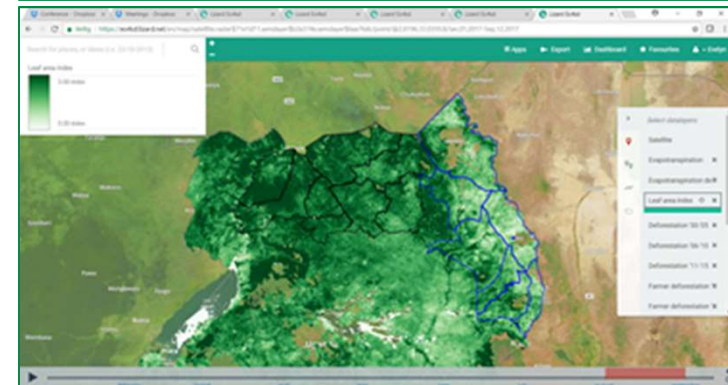
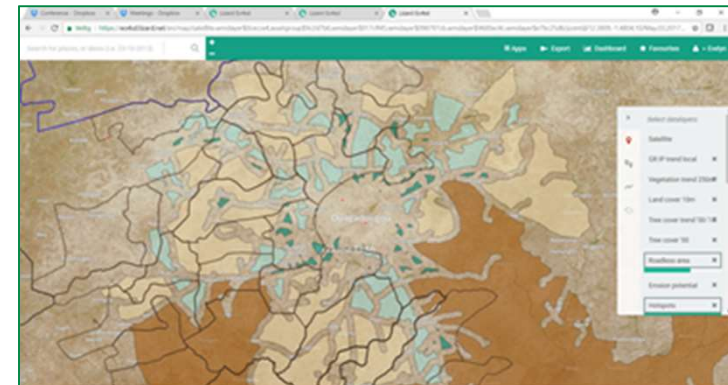
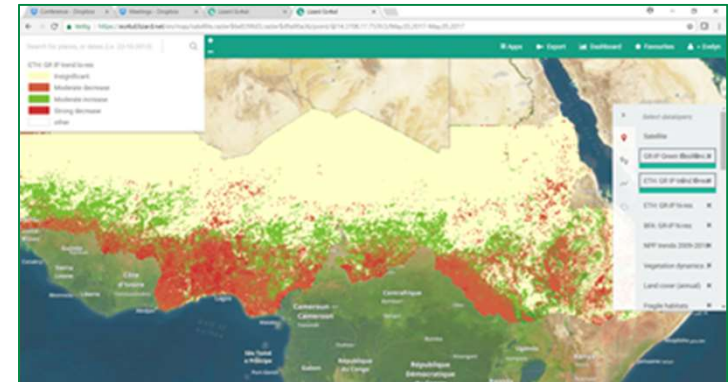
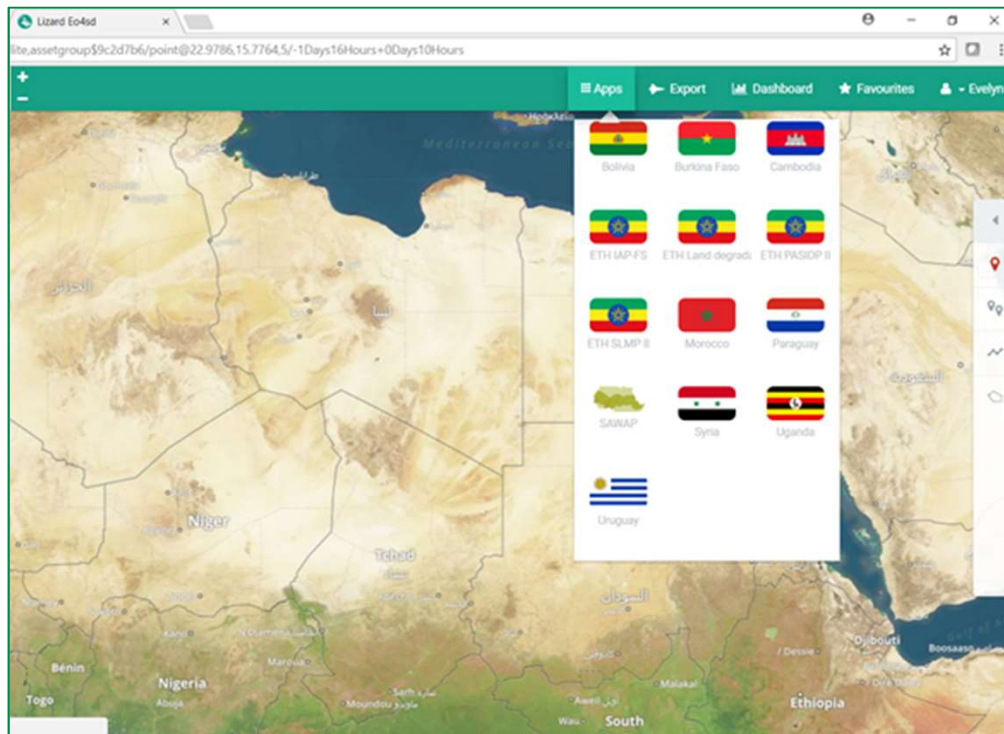
- IFI opportunity, requirements, interest and involvement
- Technical feasibility
- Impact



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>