This knowledge and capacity enhancement event aims to inform and build awareness among WB staff of the utility, benefits, and potential constraints of using Earth Observation information services in WBG operations and analytical products in the agriculture and wider sustainable development sectors. Based on practical examples, interactive discussions, and hands-on demonstrations of EO tools and services, the focus of this day will be on harnessing Earth Observation information services as demonstrated under the ESA Earth Observation for Sustainable Development (EO4SD) initiative to support:

- Monitoring of agricultural production and productivity
- Assessment of environmental impacts of agricultural commodities
- Food security and agriculture risk management
- Irrigation system development and management
- Environmental impact assessments
- M&E of sustainable land management
Following the knowledge-intensive sessions on September 27, WBG teams will have the opportunity for a technical discussion with the EO4SD consortium on September 28.

To schedule a technical meeting, WBG teams can sign in the below sheet, or send an email to Annemarie Klaasse: annemarie.klaasse@eleaf.com

For any other enquiries related to the event, please contact Frieda Mikulcak (Agriculture GP): fmikulcak@worldbank.org

For more details on the ESA Earth Observation for Sustainable Development (EO4SD) initiative see EO4SD.ESA.int/agriculture

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### Theme 3: Fostering sustainable land management through Earth Observation

**Speaker: Eva Haas (GeoVille, EO4SD consortium)**

Earth Observation is particularly useful to support Sustainable Land Management (SLM) initiatives and the dialogue across multiple stakeholders in a given spatial context because it provides quantifiable, unbiased global data at high spatial and temporal detail. EO can be used to establish project baselines, to monitor and evaluate the progress and environmental impact of projects, and to identify and address “hot spots” of environmental change and land degradation.

### Lightning Talks: Applying EO across the landscape

1. ‘It takes a community: CGIAR’s effort to mainstream geospatial data science in agriculture’, Jawoo Ko (Sr Research Fellow, IFPRI)
2. ‘Minimizing Ecological Risks from Rural Development: Big Geospatial data on Biodiversity’, Susmita Dasgupta (Lead Environmental Economist, DEC, World Bank)
3. ‘Earth observation for forest landscapes monitoring in the context of REDD+’, Paola Agostini (Global Lead, Forests, Landscapes, Ecosystems, World Bank)
4. ‘Wealth Accounting and the Valuation of Ecosystem Services: Experiences from WAVES, Glenn-Marie Lange (Sr Environmental Economist, World Bank) (TBC)

### Working lunch: EO in WB operations – challenges and opportunities

**Chair: Marianne Fay (Chief Economist SDVP, World Bank)**

**Discussants: Keith Patrick Garrett (Sr Geographer, World Bank), Christoph Aubrecht (ESA Representative to the World Bank), EO4SD team**

This working lunch session provides an update of how Earth Observation services have been used within WB operations to date. It discusses the requirements for successfully using EO services across the project cycle, and opportunities for EO services in upcoming projects, analyses, and programs.

### Zooming in: Satellite data and open source solutions for sustainable development

**Speaker: Rolf de By (ITC, EO4SD consortium)**

This session aims to provide participants with an overview of ESA and other geospatial services and open source solutions, as well as practical courses on Earth Observation related data and services.

### Discussion: Successes, challenges, and lessons learnt – EO applied among WB TTL

**Chair: Nadia Fernanda Piffaretti, Global Center on Conflict, Security and Development, World Bank)**

**Discussants: Esha Dilip Zaveri (Economist, Water GP); Iftikhar Mostafa (Sr Agriculture Economist, Agriculture GP); Jia Jun Lee (Research Analyst, Environment GP)**

This session invites TTL and practitioners to discuss their experiences with the application of Earth Observation services, the challenges they have encountered, and the lessons learnt. How can constraints to applying EO services in WB projects and analytical products be best overcome, and better anticipated in project design? Which services have shown most useful in WB products and operations, and where are further opportunities for EO service application to achieve the Bank’s twin goals?

### Closing remarks and next steps: Christoph Aubrecht
TECHNICAL SESSIONS 28 SEPTEMBER 2018

- BILATERAL DISCUSSIONS -

MC-C1 200

Please sign in for a time slot, or send an email to Annemarie Klaasse: annemarie.klaasse@eleaf.com to:

- Receive further information on the presented studies/services
- Get advice on what Earth Observation can contribute to your project
- Discuss needs for know-how on Terms-of-References documenting.
- Discuss advantages and limitations of EO for agriculture and rural development.
- Discuss requirements (e.g. EO-based services need ground data for training but also for validation and verification addressing field data collection and contributions from local implementation teams)
- Discuss options for upcoming projects

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