

# AGENDA

## I. Bernhard Metz will present the Geo-Enabling initiative for Monitoring and Supervision (GEMS)

### Intro to GEMS:

The [Geo-Enabling initiative for Monitoring and Supervision \(GEMS\)](#) was launched by the FCV Group to systematically enhance Monitoring and Evaluation (M&E) as well as supervision and third-party monitoring (TPM) in FCV settings. This is achieved by building capacity among clients, partners, and Bank teams on the ground, to leverage field-appropriate, low-cost and open source technology for digital real-time data collection and analysis. Using the GEMS tools and methods allows operations to [create customized digital M&E systems](#) to enhance the transparency and accountability of implementation across the project cycle. At the same time, GEMS provides platforms for remote supervision, real-time risk & safeguards monitoring, and portfolio mapping for coordination across projects and partners.

By July 2020, GEMS has been implemented in 40+ countries, with over 450 project teams and 2,000 client staff being trained. In line with the FCV Strategy and [IDA-19 Policy Commitment 5](#) for Fragile States, GEMS is being implemented across IDA-FCS. An additional focus lies on COVID-19 response operations around the world, with GEMS being part of the SPRP MPA. [Existing use cases](#) include M&E for operations in a variety of sectors, remote supervision, safeguards monitoring, and citizen engagement.

### Summary of the tool:

While being a tool-agnostic capacity-building program, GEMS primarily uses the fully cost-free and open source software suite [KoBoToolbox](#), which is provided by Harvard Humanitarian Initiative and funded by a broad range of donors. KoBoToolbox is a user-friendly all-in-one suite for digital questionnaire creation, offline and online data collection, and interactive data analysis, including semi-automated web maps. KoBoToolbox is used by a large community in the humanitarian and development sectors and inter alia constitutes the backbone of UNHCR's and UNOCHA's data collection systems.

## II. Maarit Kahila will present Maptionnaire

## III. Nagaraja Rao Harshadeep (Harsh) will present the ESRI ArcGIS Survey tool and Dany Jones will announce tools and support for Geospatial Access – GeoLab - ITS Geospatial & KIDS

A quick introduction to a range of geospatial tools that could support teams and clients on remote preparation and supervision – from the Bank's Geospatial Platform and GeoWB to innovative ways to make customized data/analytics dashboards, e-packaging of knowledge with spatial elements (interactive e-books, storymaps), COVID-19 related investment mapping and surveys, and technical support to teams from ITS Geospatial and the Disruptive KIDS (Knowledge, Information & Data Services) Helpdesk.

## IV. Matthew Hallas from Maxar will present AWave

Maxar's high-resolution Earth imagery and advanced geospatial solutions help decision-makers better understand our changing planet to save resources, time, and lives. Sourced from the world's leading constellation, our imagery solutions deliver unmatched coverage and capacity to meet our customers'

most demanding mission requirements. Each day, customers in defense and intelligence, public safety, civil agencies, map-making and analysis, environmental monitoring, oil and gas exploration, infrastructure management, navigation technology, and location-based services use Maxar data, information, technology, and expertise to gain actionable insight. Maxar is committed to helping organizations around the world meet the United Nations' Sustainable Development Goals (SDGs). We have a dedicated team that supports public and private sector organizations committed to achieving SDGs, and we continuously develop innovative solutions to address humanitarian issues.

AWave is an Earth intelligence alert system for near real time multisource monitoring of the physical world. AWave unleashes the power of change detection via optical and synthetic aperture radar (SAR) imagery, as well as sources like IoT device data, news, crime data, traffic, weather, natural disasters and emergencies to detect events and patterns of life.

## **V. Norman Kiesslich from GeoVille will present ESA EO4SD Lab platforms**

### **EO4SD Lab:**

The Earth Observation for Sustainable Development Lab (EO4SD Lab) is an ESA-sponsored activity to develop and deploy an online portal for the processing and analysis of Earth Observation (EO) data and derived products relevant to the Official Development Assistance (ODA) agencies and International Finance Institutes (IFI) communities. The EO4SD Lab offers users from these communities a range of data processing services and analysis tools to allow them to generate the information they need from EO data. The portal combines increased availability of EO data alongside cloud-computing to enable users to focus on product creation and analysis. The project consortium is led by CGI (UK & Italy), utilising their legacy of developing cloud-based EO-data processing portals, with project partner GeoVille (Austria), providing a wealth of experience in providing EO geo-information services to the ODA / IFI community.

### **Project consortium**

#### **CGI:**

Founded in 1976, CGI is among the largest independent IT and business consulting services firms in the world. CGI have been involved in the space industry for more than 40 years and within Earth Observation CGI has worked with ESA and other organisations to support and promote the use of EO for a wide variety of users and stakeholders.

#### **GeoVille:**

GeoVille is a leading Earth Observation service provider with more than 20 years of experience in the industry and over 440 completed projects in more than 135 countries worldwide. Our clients are public authorities, institutions, NGOs and commercial clients that need reliable operational monitoring products and solutions for complex resource management issues. As a private sector enterprise, founded in 1998, we are committed to serving our broad international client base with innovative, state-of-the-art remote sensing solutions that produce tangible results and measurable cost savings.

## VI. Grega Milcinski from Sinergise will present the European Data Cube

### **Euro Data Cube:**

Euro Data Cube, an EO Information Factory, is a one-stop shop for access, analysis and processing of Earth Observation data. Combined of several services such as EO Browser, Sentinel Hub and xcube, it provides tools to exploit up-to-date archives of various EO missions (Sentinel, Landsat, MODIS, PlanetScope, Pleiades, SPOT, etc.) altogether more than 15 PB of data. Depending on the needs and skill-level of the user, one can perform basic tasks, such as observation of data in various pre-defined visualization options, basic analysis of time-series up to complex machine learning workflows.

More info: [eurodatacube.com](http://eurodatacube.com)

### **Sinergise:**

Sinergise is a company with extensive expertise in developing advanced geospatial information systems based on web technology. It has experts in the field of user needs and system design, software development, database administration and system infrastructure. Sinergise has designed, developed and is operating several country-wide projects involving spatial data capture and spatial data analysis in Europe and Africa. Their products can be grouped in agriculture, real estate and cloud GIS. Agriculture-related systems include those covering Common Agriculture Policy (CAP) legislation (LPIS - land parcel identification system, on-the-spot controls, control with remote sensing, rural development, etc.) as well as agro-environmental and animal/crop disease applications. Real-estate management deals with land administration, cadastre, deeds (land titles and mortgages) and computer aided mass appraisal (CAMA). Cloud GIS solutions include Geopedia, crowd-sourcing platform, and Sentinel Hub, award winning satellite imagery archiving, processing and distribution service, which powers several earth observation applications in Europe, Africa, US and Australia and at this moment processes more than six million requests per day, crunching more than quadrillion satellite imagery pixels from Sentinel, Landsat, Planet, Pleiades and other missions.