

GEO-XIII Plenary
7-10 November 2016, St Petersburg, Russian Federation

Side Event

**Capacity Development for Stimulating Innovation in Global
Monitoring of Agriculture: from research to operations**

Co-organized by ITC

St.Petersburg, 8th November, 09.00-17.30

Meeting Room Green 10, Park Inn Hotel (GEO-XIII Venue)

Aim and objectives: This side-event aims to gather key players and stakeholders for setting out capacity development actions in innovative uses of EO and *in-situ* technologies for global monitoring of agriculture, agric. changes and its environmental impacts. Current progress on translation of research into operational monitoring actions, incl. use of capacity development actions, dissemination and rapid uptake, in the framework of SIGMA (Stimulating Innovation for Global Agricultural Monitoring), a global EU support action to GEOGLAM, will form the baseline, together with other int'l efforts. The side event also will discuss the ways forward to integrate capacity development and new modes of learning into GEO initiatives and flagships. Public, private sector and project partners from Asia (China), Russia, Africa, Europe, America and UN will present experiences and all interested parties are invited.

POC/co-organizer: pls. contact Chris Mannaerts (ITC - UTwente) c.m.mannaerts@utwente.nl

Draft Side event Agenda (version 4, Nov. 04)

08.40-09.00 ¹	Registration (open)	open to GEO Plenary XIII participants
09.00-09.10	Welcome and Introduction to day program	GEO sec (A.Mlisa) ITC (C.Mannaerts)
<i>Session 1: Global Agricultural Monitoring and Food Security – Geoglam agenda, capacity needs and opportunities</i>		
<i>Session lead: ITC</i>		
<i>Session Panel: (Bartalev, Crutchfield, Gilliams, DeBie)</i>		
09.10-09.30	GEOGLAM: Challenge and achievements	GEOSec (GeoGlam) (M.Deshayes)
09.30-09.50	SIGMA (EU) contribution to GEOGLAM	VITO (S.Gilliams)
09.50-10.10	Russian Academy of Sciences R&D contribution to GEOGLAM	IKI (S.Bartalev)
10.10-10.30	USDA-FAS overview for operational monitoring of current crop conditions and production forecasts	USDA (J.Crutchfield)
10.30-10.50 Coffee/tea break		
<i>Session 2a: Capacity Development for EO in practice: learning modes, tools and experiences</i>		
<i>Session lead: (VITO S.Gilliams)</i>		
<i>Session panel: (to be confirmed; ITC, NASA, IIASI, EUMETSAT, IKI)</i>		
10.50-11.10	Current status and global trends in Capacity Development in EO & Geo-information	F.v.d.Meer (ITC)
11.10-11.30	GEONETCast, CD tools & new modes, experiences	V.Gabaglio (EUMETSAT)
11.30-12.00	Implementation of the Training Strategy of the Monitoring for Environment and Security in Africa (MESA) Program	B.Maathuis & T.Korme (MESA)
12.00-12.20	Citizens & Agricultural Monitoring: the GeoWIKI validation tool learning experience	IIASA (S.Fritz)
12.20-12.40	On-the-job CD solutions: the GIACIS food security risk insurance project - Ethiopia	ITC (K.De Bie)
<i>Lunch break 12.40 – 13.50</i>		
<i>Session 2b: Capacity Development for EO in practice: learning modes, tools and experiences</i>		
<i>Session lead: IKI (Bartalev)</i>		
<i>Session panel: to be confirmed NASA, IKI, ESA, ITC, etc...)</i>		
13.50-14.10	Contributions and CapDev experiences 4 EO from ESA	ESA (Y-L.Desnos or tbd)
14.10-14.30	Capacity building experiences from NASA: SERVIR, DEVELOP, ARSET and other initiatives	NASA (N.Searby)

¹ Times are indicative (and will be according GEO Plenary XIII break time settings, etc.)

14.30-14.50	Contributions and CD experiences from African space agencies and related initiatives (AfriGEOSS)	SANSA (Jane Olwoch via Webex)
14.30-14.50	Earth Observation for Agric.Mon & Food security in Asia and Capacity development experiences	Chen Zhongxin (CAAS) (for NMSC/CMA)
14.50-15.10	VEGA-GEOGLAM as a tool for Capacity Development	IKI (Evgenya Elkina)
15.10-15.30	CD for Monitoring Climate & Water Challenges in Africa: the “AfriAlliance” H2020 approach	UNESCO-IHE, AKVO & ITC (by C.Mannaerts)
<i>15.30-16.00: coffee pause</i>		
Session 3: Panel discussion: “www” or ‘what works where’ in CapDev for EO?		
<i>Session lead: ITC (F.v.d.Meer)</i>		
<i>Session panel: (C.Mannaerts, N.Searby, A.Mlisa(Geosec), Bartalev, tbd)</i>		
16.00 -16.45	Targeted open panel discussion on experiences, do’s and don’ts, opportunities, using seed questions, short retention in sub-groups and reporting	15.30 – 16.45: Demonstrations (parallel session) on Geoportals: (D.Plotnikov; IKI)
16.45-17.15	Reporting on findings and setting ‘the way forward agenda” for CD	VEGA_ GEOGLAM Service Demo;
Afterwards: Reception (by ITC)		

List of Symbols and abbreviations

FAO	Food & Agricultural Organization of the UN
ESA	European Space Agency
VITO	Flemish Technological Research Institute (Belgium)
IKI	Russian Academy of Sciences – Space Research Institute
IIASI	Int’l Institute of Applied Systems Analysis, Laxenburg (Austria)
ITC	Faculty of Geo-information Sciences & Earth Observation – Univ. of Twente (NL)
EUMETSAT	European Agency for Meteorological Satellites
NASA	National Aeronautics & Space Administration (USA)
AKVO	AKVO Foundation (The Netherlands)
UNESCO-IHE	UNESCO Institute for Water Education (Delft, NL)
CMA	China Meteorological Administration
NMSC	National Meteorological Satellite Centre (P.R.China)
NSO	Dutch Space Office (NL)
NMA	Ethiopian National Meteorological Agency (Addis Ababa, Ethiopia)
SANSA	South African National Space Agency
ROSCOSMOS	Russian Space Agency;
ROSHYDROMET	Russian Hydro Meteorological Agency
CAAS	Chinese Academy of Agricultural Sciences
CD	Human Capacity Development (capacity building, training, higher education)
GEOGLAM	GEO initiative on Global Agricultural Monitoring
JECAM	Joint Experiment on Crop Assessment & Monitoring
VEGA	VEGA-GEOGLAM web-based analysis system and geoportal (IKI, Russia)
MESA	Monitoring the Environment & Security in Africa – Joint EU-AU large project

GEONETCAST	Near real time DVB-Sat Data Dissemination System of GEO (EUMETSAT/NOAA/CMA)
GIACIS	GeoData for Innovative Agricultural Credit Insurance System (NSO project)
SERVIR	Regional Visualization & Monitoring System (NASA, USAID with partners, USA)
USDA-FAS	US. Department of Agriculture - Foreign Agricultural Service (US)
GeoWIKI	GeoWiki: Engaging citizens in environmental Monitoring (project)
ICT	Information and Communication Technology; OS (Open Source)
AA	Afri-Alliance : a Horizon2020 Europe - Africa networking project on Water&Climate
MOOC	Massive Open On-line Course
SEN2Agri	Sentinel-2 for Agriculture Project (ESA)