



G4AWeek

21 - 24 September 2015

The Hague



G4AW
GEODATA FOR AGRICULTURE AND WATER

Netherlands
Space
Office

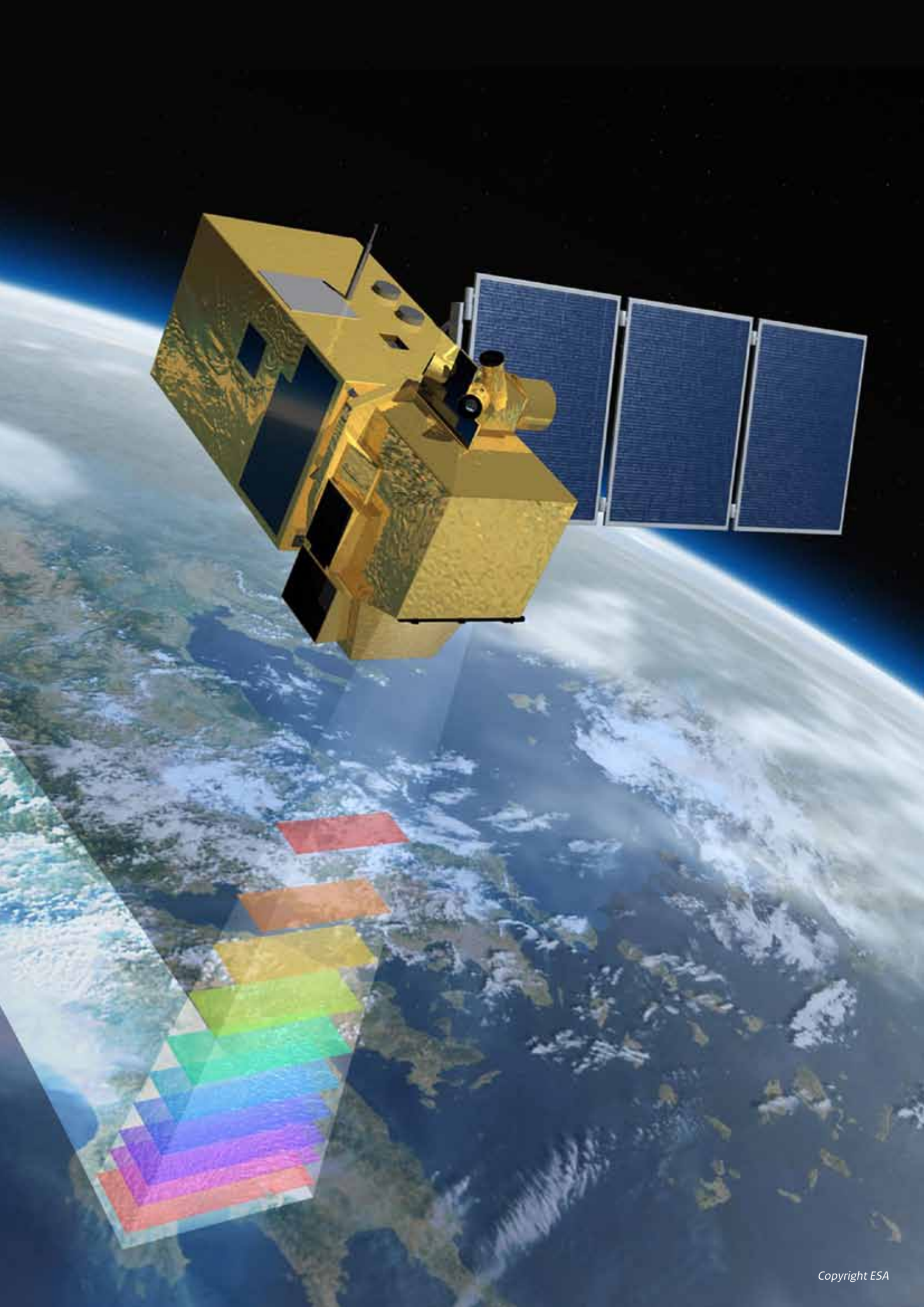


Ministry of Foreign Affairs of the
Netherlands



Contents

Introduction - Ger Nieuwpoort	5
The Hague locations & venues	6
Floor plan NSO venue	7
Schedule Monday 21 September	8
Schedule Tuesday 22 September	9
Schedule Wednesday 23 September	10
Schedule Thursday 24 September	11
Lessons learned G4AW grantees 1 st call	12
Presentations G4AW grantees 2 nd call	14
Presentations / Speakers - Monday afternoon	19
Open sessions - Tuesday and Wednesday	22
 Appendix	
IFAD contacts	26
FAO contacts	27
NSO contacts	27



Introduction

Space is becoming increasingly important for our daily lives on earth. Over the last decade the world has turned into an information society. Governments, companies, entrepreneurs and individuals make decisions based on ever more accurate and accessible information due to ground breaking information technology and a wealth of data. Against this background, the added value of space technology and satellite data is essential for helping us deal with today's global challenges, including food security and a more effective use of our water resources. Understanding climate change, for example, is impossible without satellite data generated by precision technology in space.

The G4AW Facility is innovative in various ways. It brings together public and private organizations along the information chain that have never cooperated before. Creating financially sustainable service provision requires innovation in business models. And finally, delivering the right information at the right time to smallholder farmers in developing and emerging countries requires effective use of existing and emerging technologies turned into effective services.

I am proud to present the partnerships and their projects at this 2015 G4A WEEK workshop. The Netherlands Space Office is committed to support the partnerships in achieving the targeted outputs and outcome, and thereby contributing to a better food security and economic development.




Dr Ger Nieuwpoort
Director Netherlands Space Office


The Hague locations & venues

Venues

Monday 21 September:

 Ministry of Foreign Affairs, Bezuidenhoutseweg 67, 2594 AC, The Hague
<https://www.government.nl/ministries/ministry-of-foreign-affairs/contents/contact>


Tuesday 22 September - Thursday 24 September:

 Netherlands Space Office (NSO), Centre Court Building, Prinses Beatrixlaan 2, 2595 AL, The Hague
<http://www.spaceoffice.nl/en/Contact/>


Note: The use of public transport is advised, as parking space is limited

Hotels

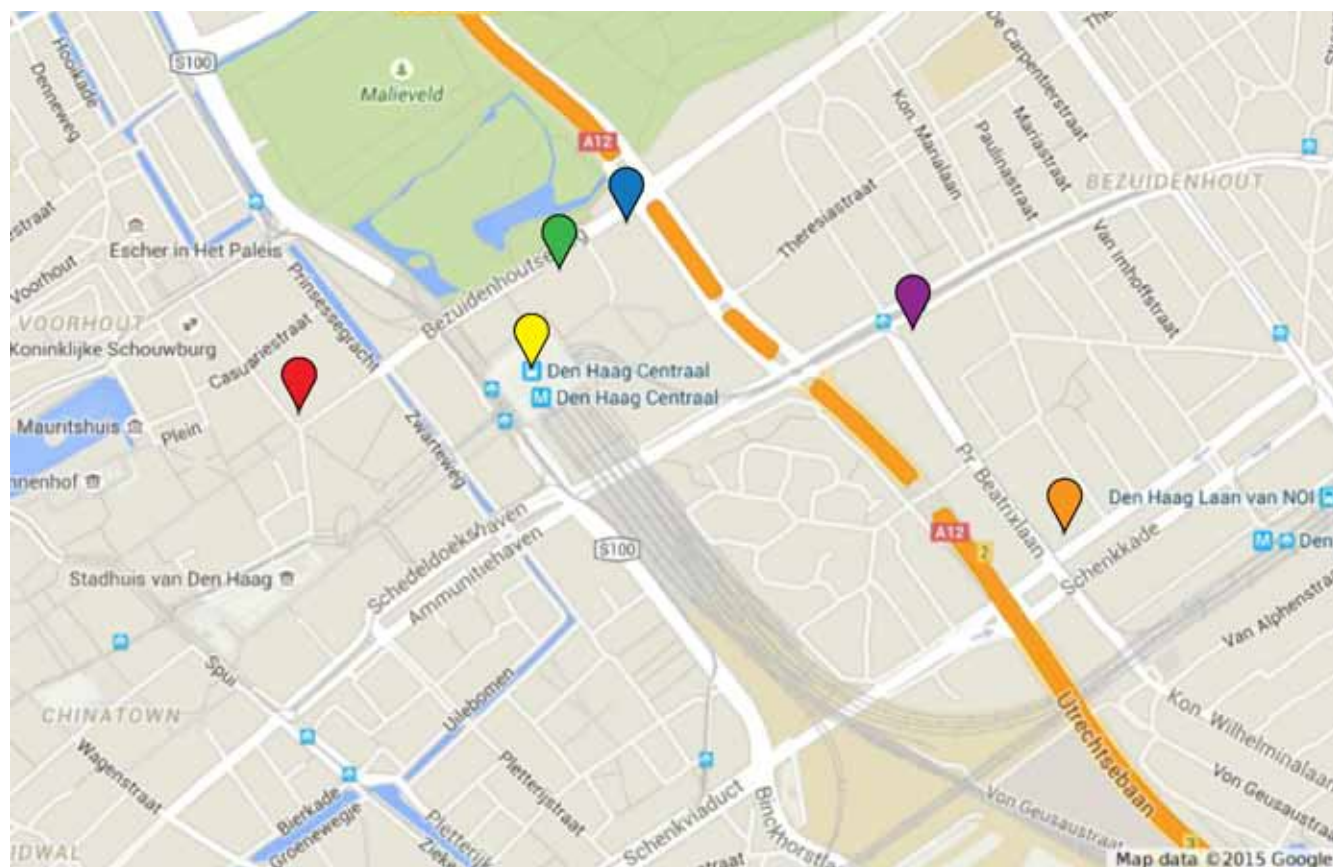
 Hotel NH Den Haag, Prinses Margrietplantsoen 100, 2595 BR, The Hague - The Netherlands

 Hampshire hotel - Babylon Den Haag, Bezuidenhoutseweg 53, 2594 AC, The Hague - The Netherlands

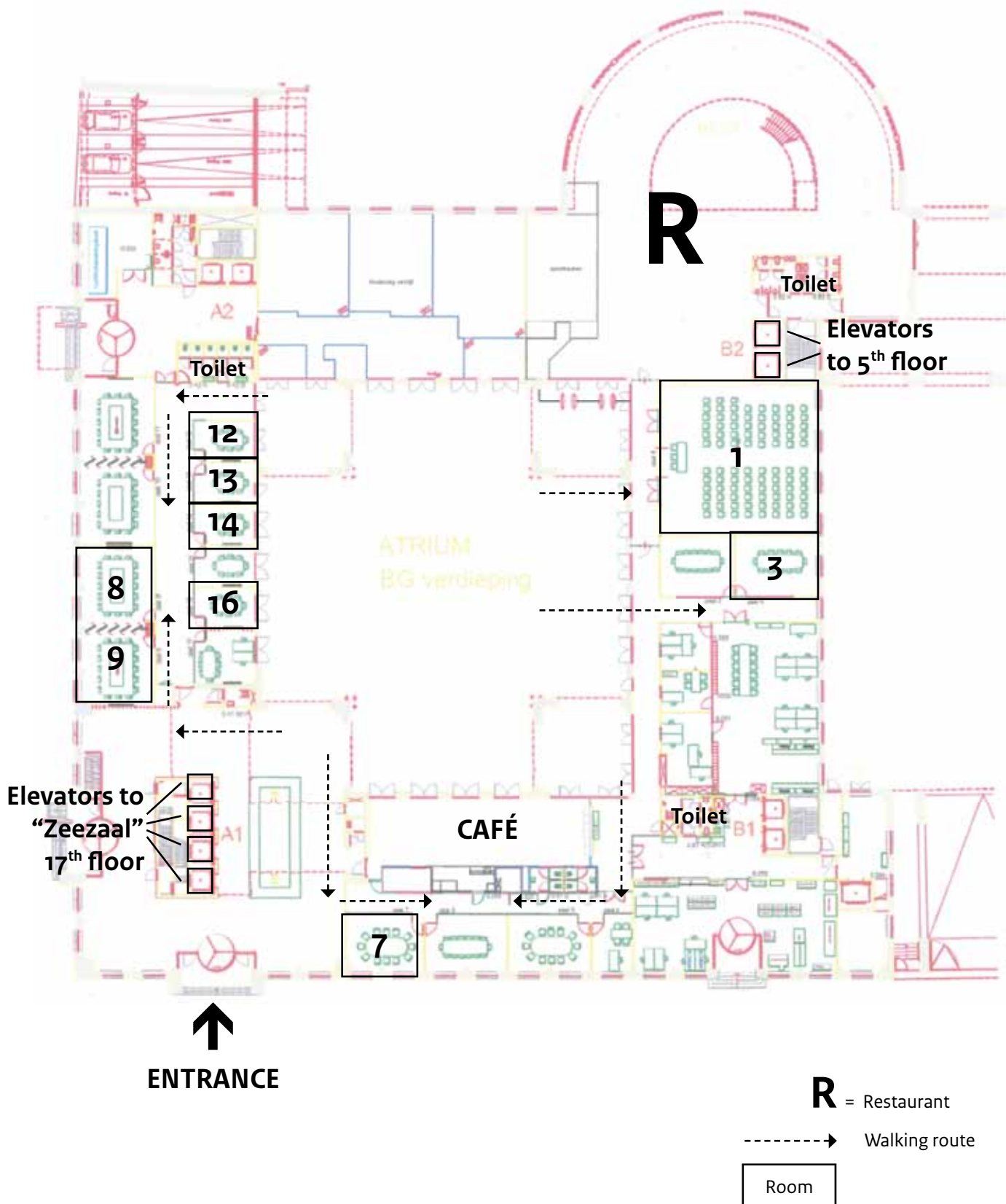
Restaurant

 SUMO restaurant, Herengracht 2-6, The Hague,
<http://restaurantsumo.com/den-haag-2/>

 The Hague Central Railway Station



Floor plan NSO venue - Centre Court (ground floor)



Monday 21 September

Location: Ministry of Foreign Affairs, Bezuidenhoutseweg 67, 2594 AC, The Hague

8.15 - 9.15	Registration		
9.15 - 9.20	Opening by chairman for this day	Jacqueline Barendse	
9.20 - 9.35	Welcome and keynote	Reina Buijs, Deputy Director General International Cooperation	Ministry of Foreign Affairs
9.35 - 9.45	Welcome note	Ger Nieuwpoort	NSO
9.45 - 10.30	Lessons learned G4AW grantees 1st call		
	1. G4INDO	Aart Schrevel	Alterra
	2. SUM Africa	Andries Rosema	EARS
	3. CommonSense	Andre Jellema, Tomaso Ceccarelli	Alterra
	4. GIACIS	Kees de Bie	Twente University / ITC
10.30 - 10.55	Coffee break		
10.55 - 12.45	Presentations G4AW grantees 2nd call		
	5. AgriOne	Mark Woltman	VinaNed
	6. IDSS	Dr. F H Ansarey	ACI
	7. GEOPOTATO	Huib Hengsdijk	Wageningen University
	8. GEOBIS	Mr. S.M. Aredin	Lal Teer Seed Ltd
	9. CropMon	David Marcelis	SoilCares Research
	10. GEodatics	Marije Tanis	ICS
	11. R4A	Chris Kaempffer	ARC
	12. MUIIS	Ben Addom	CTA
	13. STAMP	Catherine le Come	SNV
	14. MODHEM	Marius Damiba	SNV
12.45 - 13.00	Introduction afternoon programme	Ruud Grim	NSO
13.00 - 14.00	Lunch		
14.00 - 15.30	Presentations		
	"The need of data for insurance: lessons from Bangladesh"	Vijayasekar Kalavakonda	IFC
	"Assessing remote sensing for index insurance: the Senegal study"	Emily Coleman, William Dick, Andrea Stoppa	IFAD
	"Developing and Implementing Agricultural Insurance: Lessons from Syngenta Foundation"	Laura Johnson	Syngenta Foundation
15.30 - 16.00	Coffee break		
16.00 - 17.00	"mAgri mobile services: the business canvas model"	Nicole Darabian	GSMA
	"Use of open data for agriculture (PlantWise & GODAN)"	Phil Abrahams	CABI
17.00 - 17.30	Closing	NSO	
17.30 - 19.00	Drinks		

Tuesday 22 September

Location: Netherlands Space Office (NSO), Centre Court Building, Prinses Beatrixlaan 2, 2595 AL, The Hague

	Business case	CSR	Special interest and inspiration sessions	
	room 14	room 16	room 3	Zeezaal (17e floor)
8.30 - 9.15	Welcome with coffee in room (1)			
9.15 - 10.30	Welcome by NSO and Ministry of Foreign Affairs: presentations by: PHB development and CREM, room (1) till 10.30!			
11.00 - 12.20	IDSS Bangladesh Closed session (Joost)	CROPMON Kenya Closed session (Adri)	10.30 - 12.30 Coffee / Meeting Point NSO restaurant	
12.30 - 14.00	Lunch meeting NSO	Lunch meeting NSO	12.30 - 14.30 Open session Advances in Remote Sensing moderator: Mark Noort (including lunch)	12.30 - 14.30 Open session Mobile network operators moderator: Ivo Walsmit (including lunch)
14.10 - 15.30	GEOPOTATO Bangladesh Closed session (Joost)	GEODATICS Kenya and Tanzania Closed session (Adri)	14.30 - 17.00 Coffee / Meeting Point / NSO restaurant	
15.40 - 17.00	GEOBIS Bangladesh Closed session (Joost)	Agri.One Vietnam Closed session (Ruud)	15.00 - 17.00 Closed session Synergies STAMP and MODHEM projects moderator: Ivo Walsmit	15.00 - 17.00 Open session Synergies Water Management and Food Security moderator: Bert Satijn
17.00 - 18.00	Drinks NSO restaurant			
19.00	Dinner G4AW project teams			

Wednesday 23 September

Location: Netherlands Space Office (NSO), Centre Court Building, Prinses Beatrixlaan 2, 2595 AL, The Hague

	Business case	CSR	Special interest and inspiration sessions		
	room 12	room 13	room 1	room 7	room 8/9
8.30 - 9.15	Welcome with coffee in room (1)				
9.15 - 10.30	R4A South Africa Closed session (Ruud)	IDSS Bangladesh Closed session (Joost)	9.15 - 11.30 Open session Precision Agriculture benefits Food Security and smallholder moderator: Adri Bakker	Coffee meeting point	
11.00 - 12.20	Agri.One Vietnam Closed session (Ruud)	GEOBIS Bangladesh Closed session (Joost)	11.30 - 12.00 Coffeekbreak		
12.30 - 14.00	lunch meeting NSO	GEOPOTATO Bangladesh Closed session (Joost) (incl lunch)	12.00 - 14.00 Open session Effective monitoring evaluation moderator: Marlène van Benthem (including lunch)	Coffee meeting point	12.00 - 14.00 Closed session East & South Africa moderator: Adri Bakker (including lunch)
14.10 - 15.30	CROPMON Kenya Closed session (Adri)	meeting NSO	14.30 - 17.00 Closed session South -East Asia moderator: Joost van Uum	Coffee meeting point	
15.40 - 17.00	GEODATICS Kenya and Tanzania Closed session (Adri)	R4A South Africa Closed session (Ruud)			
17.00 - 18.00	Drinks NSO restaurant				

Thursday 24 September

Location: Netherlands Space Office (NSO), Centre Court Building, Prinses Beatrixlaan 2, 2595 AL, The Hague

	room 12	room 7
9.15 - 10.35	MUIIS (Mark) Uganda Business case	STAMP and MODHEM (Ivo) Mali/Burkina Faso CSR
10.45 - 12.00	MUIIS (Mark) Uganda CSR	STAMP and MODHEM (Ivo) Mali / Burkina Faso Business case
12.00 - 12.30	Walk to 5th floor "Clingendael room" (use lift in restaurant)	
12.30 - 14.00	CLOSURE including lunch / Clingendael room	
14.00 - 14.30	walk to ground floor (use lift in restaurant)	
14.30	Farewell	

Lessons learned G4AW grantees 1st call

Monday 21 September

9.45 - 10.30

Project	G4INDO, Geodata for upgrading smallholders' farming systems in Indonesia
Country	Indonesia
Lead partner and contact details	Alterra Mr. A. Schrevel +31 317 486 576 Aart.schrevel@wur.nl
Partners	SarVision (NL) Terrasphere (NL) KNMI (NL) Syngenta Foundation for Sustainable Agriculture (CH) NDI Insurance and Reinsurance (UK) Deltares (NL) National Institute of Aeronautics and Space, LAPAN (IDN) Indonesian Agency for Meteorology, Climatology and Geophysics, BMKG (IDN) PT Jasindo (IDN) Ministry of Agriculture (IDN)
Target group	200,000 farmers
Short summary	The Indonesian Government has decided on a crop insurance policy to assist farmers and to boost food security. The target group of the G4INDO project is smallholder rice farmers, with an average of 1 or 2 ha of land in Indonesia, especially on Java, where the project executed. The project will provide services (crop insurance and third crop feasibility advice) to 200,000 farmers.

Monday 21 September

9.45 - 10.30

Project	SUM Africa, Scaling Up Micro-insurance in Africa
Country	Mali, Uganda
Lead partner and contact details	EARS Earth Environment Monitoring BV, Netherlands Mr. A. Rosema +31 152562404 andries@ears.nl
Partners	Agence Nationale de la Météorologie (MLI) Coprocuma, (MLI) Lion Assurance Company (UGA) Ministry of Agriculture, Animal Industry and Fisheries (UGA) Agriculture Reinsurance Consultants (CH) PlaNet Guarantee (FR)
Target group	430,000 of these farmers
Short summary	Drought and excessive rain are the two largest causes of crop loss in Africa, keeping farmers stuck in poverty. Insurance is the key to escaping this poverty trap. The aim of the SUM Africa project is to provide low-cost, satellite based drought and excessive rain insurance to farmers in Mali and Uganda.

Monday 21 September

9.45 - 10.30

Project	CommonSense
Country	Ethiopia
Lead partner and contact details	Stichting Dienst Landbouwkundig Onderzoek (Stichting DLO) Mr. A. Jellema, Mr. T. Ceccarelli +31 317 481 705, +31 317 485 459 Andre.jellema@wur.nl, Tomaso.ceccarelli@wur.nl
Partners	Apposit (ETH) Farm Africa (ETH) Facilitators for Change (ETH) Ministry of Agriculture (ETH) Nyala Insurance (ETH) Achmea (NL) Dutch Space (NL) IICD (NL) Terrafina Microfinance (NL)
Target group	200,000 farmers
Short summary	The CommonSense project will offer a total package of three satellite based services to the poorest farmers in Ethiopia: an information service to provide farmers with a.o. weather information and advice on use of fertilizer, a microcredit that enables farmers to buy fertilizer, seeds, etc., and a micro insurance to compensate farmers in case of failed harvests.

Monday 21 September

9.45 - 10.30

Project	GIACIS, Geodata for Innovative Agricultural Credit Insurance Schemes
Country	Ethiopia
Lead partner and contact details	University of Twente – Faculty ITC Mr. C.A.J.M. de Bie +31 53 487 4362 c.a.j.m.debie@utwente.nlmailto:b.boer@utwente.nl
Partners	Agricultural Transformation Agency – ATA (ETH) Kifiya Financial Technology PLC (ETH) National Meteorology Agency of Ethiopia – NMA (ETH) Swiss Re corporate solutions (CH)
Target group	1,6 million farmers
Short summary	In the Ethiopian highlands the poorest farmers use microcredit to buy seeds and fertilizer. One in three crops fail because of too much or too little water. The credit still has to be paid back which reduces the farmer and his family to poverty. GIACIS will offer 1.6 million farmers very affordable insurance based on satellite data, so that the credit will be refunded in case of a failed harvest.

Presentations G4AW grantees 2nd call

Monday 21 September

10.55 - 12.45

Project	AgriOne, GEODATA FOR AGRICULTURE & WATER IN MEKONG DELTA
Country	Vietnam
Lead partner and contact details	VinaNed Ms. T.T. Tran +31 6 3404 4568 T.Tran@vinaned.com
Partners	An Giang Plant Protection Joint Stock Company, AGGPS (VNM) Can Tho University (VNM) Department of Agriculture and Rural Development (MARD/DARD) (VNM) Viettel (VNM) Nelen & Schuurmans (NL) SarVision (NL)
Target group	300,000 farmers (within project) >1,000,000 farmers shrimp farmers and fishermen (after project)
Short summary	Improve the effectiveness of existing extension services and output of (smallholder) rice farmers in the Mekong Delta by enriching the existing basic agricultural news service AgriOne with information based on advanced geodata. The information services will cover, crop management advisory (e.g. choice of varieties, rotation, timing and quantity of fertilizer use), pests and diseases advisory (e.g. observed and predicted spread), drought and salinity advisory (e.g. timing of water use, irrigation frequency and quantity) and flood mitigation advisory (e.g. risks and potential damage reduction).

Monday 21 September

10.55 - 12.45

Project	IDDS, Farmer's Intelligent Farmer Decision Support System
Lead partner and contact details	ACI Limited Mr. MS. Salfullah +88 173 00211035 salfullah@aci-bd.com
Country	Bangladesh
Partners	SNV Bangladesh (BGD) Department of Agricultural Extension, Ministry of Agriculture (BGD) Nelen & Schuurmans (NL) SarVision (NL)
Target group	967,675 rice, potato and vegetable smallholder farmers
Short summary	The purpose of this project is to develop an Intelligent Decision Support System (IDSS) to give reliable and timely advice to farmers in Bangladesh. The IDSS hardware and software integrates field data, satellite and weather geodata and market information and translates this information into actionable localized crop-specific advice for farmers. This will greatly improve timely, comprehensive and specific information for farmers in Bangladesh. In this way the farmer's decision making along the entire production cycle and the overall food production will improve, reduce damages for farmers and improve the profitability of the farmer's operations. The IDSS service will be made available through a mobile application (basic handset and smartphone).

Monday 21 September

10.55 - 12.45

Project	GEOPOTATO, Geo data to control late blight fungal disease in potato
Country	Bangladesh
Lead partner and contact details	Stichting DLO, Applied Plant Research/Plant Research International Dr. H. Hengsdijk +31 317 480 559 Huib.hengsdijk@wur.nl
Partners	Agriculture Information Service (BNG) Bangladesh Centre for advances Studies (BNG) ICCO-Cooperation (BNG) mPower (BNG) TerraSphere (NL)
Target group	100,000 farmers that produce irrigated potato crop in the dry winter season
Short summary	The project will develop a decision-support service (DSS) for an optimal control strategy of late blight (globally the most important, highly destructive, fungal disease) in potato, which will be provided on subscription base to farmers through SMS or voicemail during the growing season. Farmers will be informed through SMS (or voicemail) supporting them with an optimal diseases control with a minimum input of environmental harmful fungicides according to the principles of integrated pest management.

Monday 21 September

10.55 - 12.45

Project	GEOBIS, Geodata based information services for small farmers
Country	Bangladesh
Lead partner and contact details	Lal Teer Seed Limited Mr. S.M. Arefin +880 5861 0012 18 Shah.arefin@multimodebd.com
Partners	Interdisciplinary Centre for Food Security at Bangladesh Agricultural University (BNG) mPower (BNG) Multisourcing Ltd. (BNG) Unnayan Onneshan (BNG) Alterra (NL) Netherlands Geomatics & Earth Observation B.V. / NEO (NL)
Target group	600,000 smallholder farmers
Short summary	This project will develop and implement a business model for the provision of information and advice to (smallholder) farmers on basis of spatial and other geodata while strengthening the service delivery by public authorities as well. The project aims to improve agricultural productivity, yield and farmer income and to upgrade agricultural zoning and the management of weather related emergencies. Information services to be provided are advice on: seed variety and quantity, seed bed preparation and land preparation, sowing and transplanting (timing, how to), irrigation and application of fertilisers and agro-chemicals (timing, quantity, type). Information will be provided on weather conditions and preventive practices in case of adverse weather conditions. Support will be given with identification of pest and diseases, information about pest risk level, advice on prevention, treatment and rehabilitation in case of pests or plant disease attacks.

Monday 21 September

10.55 - 12.45

Project	Cropmon, Crop Monitoring Service Kenya
Country	Kenya
Lead partner and contact details	SoilCares Research Dr. Ir. P.J. van Erp +31 6 5576 1057 Peter.vanerp@siolcareresearch.com
Partners	Cereal Growers Association (KEN) Coffee Management Services (KEN) Equity Group Foundation (KEN) International Fertilizer Development Center (KEN) SoilCares Ltd (KEN) Netherlands Geomatics & Earth Observation, NEO (NL) Springg BV (NL) Weather Impact (NL)
Target group	150,000 farmers
Short summary	The objective of the project is to develop an affordable crop monitoring service that provides smallholder and medium-sized farmers in Kenya with location specific and timely information about the actual status of their crops. Additionally, possible causes for yield depressions are given and corrective measures to overcome this.

Monday 21 September

10.55 - 12.45

Project	Geodatics, Geodata for smallholder farmers in Kenya and Tanzania
Country	Kenya and Tanzania
Lead partner and contact details	ICS Foundation Mrs. M. Tanis +31 33 3030250 Marije.tanis@ics.nl
Partners	Agrics Ltd. (KEN) Agrics Tanzania (TNZ) Manobi Ltd (SEN) Biomass Research (NL) WUR- Plant Research International (NL)
Target group	208,500 smallholder farmers
Short summary	The service is offering farmers advice on the use of fertilizer and crop nutrient requirements. The provided services to smallholder farmers in Kenya and Tanzania use actual geodata for improving product yields and farmers income. The service gives actual and farm-specific information on crop nutrient requirements, availability and deficiencies; optimal timing of activities (land preparation, planting, fertilising, harvesting and post-harvest management); market opportunities and product prices on local and regional markets.

Monday 21 September
10.55 - 12.45

Project	R4A, Rain for Africa
Country	South Africa
Lead partner and contact details	Agricultural Research Council (ARC) Mr. L.C. Kaempffer +27 12 3102500 chrisk@arc.agric.za
Partners	South African Weather Services (ZAF) eLeaf (NL) Hydrologic (NL) Hydrologic Research (NL) KNMI (NL) Mobile Water Management (NL) Waterschap Groot Salland (NL) Weather Impact (NL) WineJob (NL)
Target group	125,000 farmers
Short summary	The main goal of the Rain for Africa (R4A) project is to compose the best available historical, actual and forecasted weather data and make it easily accessible for each food producer, weather service, added value provider and governmental organisation in Africa, at an affordable price. The information services that will be provided are: improved and calibrated rainfall information for National Weather Services, local/regional weather information for service providers and local and personalised weather information, sowing advice, spraying advice for food producers.

Monday 21 September
10.55 - 12.45

Project	MUIIS, Market-led, User-owned, ICT4Ag-enabled Information Service
Country	Uganda
Lead partner and contact details	Technical Centre for Agricultural and Rural Cooperation (CTA) Dr. B.K. Addom +31 317 467109 addom@cta.int
Partners	Alliance for a green revolution in Africa (KEN) Eastern Africa Farmers Federation (KEN) Mercy Corps (UGA) Awhere (USA) EARS Earth Environment Monitoring BV (NL) eLEAF Competence Center (NL)
Target group	350,000 farmers
Short summary	Aim of MUIIS is to establish a demand-driven, market-led, and user-owned approach to provide satellite based information services related to weather forecasting, crop management and crop insurances to crop farmers in Uganda. The main output will be to provide 350.000 maize, soy bean and sesame farmers in Uganda with advisory services on weather forecasts, soil moisture predictions, profiling, climate change, crop management tips and 90.000 farmers (in North and East Uganda) with index crop insurance services. The value proposition focuses on bundled mobile services and index-based crop insurance. Subscribers pay for this information via the mobile network operator. The service builds on already existing customer relationships and previous experiences and makes use of an existing network of ground agents.

Monday 21 September

10.55 - 12.45

Project	STAMP, Sustainable Technology Adaptation for Mali's Pastoralists
Country	Mali
Lead partner and contact details	SNV Netherlands Mr. D. Wielenga +31 613 249 531 DWielenga@snvworld.org
Partners	Action Against Hunger (MLI) Institut d'Economie Rurale (MLI) Orange Mali (MLI) Tassaght (MLI) Project Concern International (USA) Hoefsloot Spatial Solutions (NL)
Target group	245,000 agro-pastoralists
Short summary	This project proposal will provide an information service to pastoralists. The information service will provide pastoralists with instant access to reliable information on biomass availability and quality, surface water availability, herd concentration and market prices for livestock and staple grains along the points of their different transhumance routes. The services are offered over simple mobile phones to subscribers against a modest fee.

Monday 21 September

10.55 - 12.45

Project	MODHEM, Mobile Data for Moving Herd Management and better incomes
Country	Burkina Faso
Lead partner and contact details	SNV Netherlands Mr. D. Wielenga +31 613 249 531 DWielenga@snvworld.org
Partners	CILSS (BFA) EcoData (BFA) Ministry of Animal Resources (BFA) SarVision (NL)
Target group	This project will reach 100,000 pastoralists directly and 200,000 farmers that see a reduction in field damage.
Short summary	This project will improve the position and situation of the pastoralists in Burkina Faso. By using satellite data, the pastoralists will be informed on the best locations for pastures and water areas via their telephone. Because of the increase in number of people, animals and cultivated area in Burkina Faso, the number of conflicts has become a major problem. The crossing of herds over planted areas are frequently the cause of conflicts between pastoralists and farmers. In this project this issue is countered through supporting geofencing and providing rainfall information. The EcoData platform will be used to distribute the information and to inform pastoralists on market prices, bids and offers.

Presentations

Monday 21 September
14.00 -15.30

Organisation IFC

Title **The need of data for insurance: lessons from Bangladesh**

Data is key to product design and pricing, and access to granular data is critical towards designing more client-centric products or products which deliver value to the client. For the design of weather index (agriculture) insurance products access to high resolution (typically 5x5 KM or even higher resolution) and historical time series data (20 – 30 years) is essential. The challenge in most developing countries is a) weak density of weather stations; b) quality of data including significant gaps, since most of the weather stations manually operated; and c) access to the data for the purpose of designing financial products like insurance. To address some of these challenges the World Bank Group has been supporting projects in select countries like Bangladesh. Key objectives of these projects have been to a) develop data grids using available weather station data; and b) validate the data grids using a combination of techniques incl. Satellite or remote sensing data. The presentation will share the case study of Bangladesh which has been developed with the support of Skymet and Bangladesh Meteorological Department.

Speaker Vijay Kalavakonda, Senior Insurance Specialist, Finance and Markets Global Practice, World Bank Group



Vijay Kalavakonda has been involved with index insurance in general and agriculture insurance in particular since 2000, when the World Bank first started the index insurance work in North Africa (Tunisia and Morocco), and subsequently in Central America, Mexico, and Turkey.

Between 2004 and 2012 led the Financial Sector's micro and health insurance activity. In 2012, he moved to the IFC, where as Global Product Lead, he was responsible for providing technical support for insurance projects and for the Global Index Insurance Facility (GIIF).

Over the last 15+ years with World Bank Group, he has been involved with agriculture insurance work across different regions including Africa, Asia, Europe and Latin America.

Over the past few years, he has primarily focused on developing index insurance products and solutions, including the Earthquake Index Insurance, and the Weather Index Insurance.

Monday 21 September
14.00 -15.30

Organisation IFAD

Title **"Assessing remote sensing for index insurance: the Senegal study"**

The Weather Risk Management Facility (WRMF) is a joint United Nations partnership established in 2008 between IFAD and the World Food Programme (WFP). It supports initiatives aimed at reducing smallholders' vulnerability to weather and other agricultural production risks, in order to encourage and protect investments in smallholder agricultural production and contribute to food security.

As part of this program IFAD is assessing the use of various remote sensing products for index insurance that can accurately depict yield loss in smallholder farming due to weather and/or other perils, and be scalable in insurance schemes delivered at micro and meso levels. Supported by various service providers and knowledge institutes innovative remote sensing technologies are being tested in Senegal with lessons to be shared for application in the rest of the region and the entire insurance sector.

IFAD will present the Senegal project and research methodology.

Speakers

Emily Coleman, Project Officer, IFAD
William Dick
Andrea Stoppa

Emily Coleman is an international development professional, specializing in access to finance at the International Fund for Agricultural Development (IFAD). She has been working on agricultural insurance with the joint IFAD-World Food Programme Weather Risk Management Facility (WRMF) since its inception in 2008. Through this, Emily has contributed to index insurance research and publication, technical guidance, and index insurance pilots. Currently Emily is responsible for an innovative WRMF project evaluating how satellite data can best be used to improve index insurance offerings for smallholder farmers in developing countries.

William Dick is a consultant in international agricultural risk management and insurance. Since 2005 his main appointments are to WFP for the R4 Rural Resilience Programme in Africa, to WFP and IFAD for its research programme into use of remote sensing applications for index insurance, and to The World Bank's Agricultural Risk Management Team. In 1983 William Dick founded Agricultural Risk Management Ltd, a leading consultancy in risk assessment and in the design of agricultural and forestry insurance programmes for private and public sector clients. In 2000 he joined Partner Reinsurance Company, Zurich, as a senior underwriter for global agricultural business. William Dick has worked for 30 years in international agricultural risk management and insurance.



Andrea Stoppa is an agriculture economist active mainly in the fields of agricultural policy and risk management. He has provided consulting services to various private and public institutions, among which, in the most recent period, The World Bank, WFP, IFAD and FAO. At present he is involved in the Country Outreach and Risk Transfer activities of the African Risk Capacity (ARC); in supporting the development of Public-Private-Partnership in agricultural insurance for the Disaster Risk Financing and Insurance Program (DRFIP) of The World Bank; and in the assessment of remote sensing based index insurance tools with IFAD/WFP's Weather Risk Management Facility (WRMF). Andrea holds a degree in Agricultural Sciences from the University of Viterbo (Italy), and Masters' degrees in Agriculture Policy and Economics from the University of Naples (Italy) and in Economics from Iowa State University (USA).

Monday 21 September

14.00 -15.30

Organisation

Syngenta Foundation

Title

"Developing and Implementing Agricultural Insurance: Lessons from Syngenta Foundation"

For the past six years, Syngenta Foundation has strived to improve the lives of farmers in East Africa through developing and facilitating delivery of innovative, affordable and tailored agricultural insurance products. Now with a social enterprise (ACRE Africa) reaching 200,000+ farmers, SFSA is taking the risk mitigation strategies to South East Asia. SFSA will be sharing learnings on designing products (new hybrid covers), distribution channels (credit, mobile), the G4INDO project, and the importance of an exit strategy for sustained impact.

Exit strategies for development projects is an area of particular interest to me, it would be good to discuss separately in regards to G4INDO and potentially other G4AW supported projects.

Speaker

Laura Johnson, Principle Advisor for Syngenta Foundation's Agricultural Insurance Solutions Team



Laura Johnson is an experienced insurance practitioner, developing and implementing innovative products in the field of agricultural insurance in Africa and South East Asia. She advises on new country and product expansion through conducting Business Potential Studies to develop country-specific insurance strategies. This includes developing working relationships with governments, investors, clients, agribusinesses, and other stakeholders. She has managed local teams to develop crop and livestock products directly based on end client needs related to agriculture, finance, insurance and mobile. Laura graduated Magna Cum Laude from Cornell University in Applied Economics and Management with additional studies in Plant Biology. She received a Distinction in Research through an honours thesis on agricultural technology transfer to Africa.

Laura currently works as a consultant, serving as the Principle Advisor for Syngenta Foundation's Agricultural Insurance Solutions Team with ongoing activities in Indonesia, Myanmar, and Bangladesh. Through the G4AW-funded G4INDO project, Laura is the insurance expert advising the Indonesia government and local stakeholders on agricultural insurance product design, distribution socialization/training strategy. She also advises Acre Africa (formerly Kilimo Salama) on new expansion country and business development in several East African countries.

Monday 21 September
16.00 - 17.00

Organisation GSMA

Title **“How mobile operators benefit from mAgri and what weather information brings to the product mix”**

Speaker Daniele Tricarico, mAgri Insights Manager, GSMA



Daniele Tricarico leads research at GSMA mAgri on technology, business models, service design and service delivery in mobile agriculture. He conducts analysis on best practices and trends around the world, and develops toolkits, reports and case studies for industry practitioners. Daniele also leads on market engagement with mobile operators interested in agriculture by leveraging GSMA mAgri resources to provide ad-hoc support.

He is currently working on new GSMA publications including an analysis of the role and potential for weather information to add value to the mAgri service proposition, a new toolkit report on agricultural value added services (agri VAS), and a report on mobile financial services (MFS) for smallholder farmers.

Prior to joining the GSMA, Daniele was a telecoms analyst and consultant at Pyramid Research in London, focusing on mobile operator strategies in emerging markets, and specialising in value added services and over-the-top applications. Earlier in his career, he worked as an industry analyst at Informa Telecoms & Media and as a social media consultant at Human Digital.

Daniele holds an MSc in new media and information systems from the London School of Economics and an MA from the University of Bologna.

Monday 21 September
16.00 - 17.00

Organisation CABI

Title **Use of (open) data for Agriculture (PlantWise & GODAN)**

The presentation will review how data derived from Plantwise plant clinics has been used by countries to assess and respond to pest and disease outbreaks. How are countries incorporating field-based data into their plant health systems and how can it help to improve the training of plant doctors in correctly diagnosing and treating plant health problems? What other data is useful to harvest and analyse, and how is this being done through new global data initiatives – a look at GODAN and the UK Agri-Metrics Centre.

Speaker Philip Abrahams, Strategic Business Development Director, CAB International (CABI)



Phil Abrahams has over 30 years' experience working in business development, primarily in science publishing. During this time he has managed publications such as New Scientist magazine, Elsevier Trends Journals and the business services of the UK's Royal Society of Chemistry (RSC).

Phil joined CABI in 2009, leading the fundraising for, and launch of, the Plantwise programme. He now heads up a strategy unit within CABI which is implementing and integrating CABI's mobile advisory services alongside other programmes within and beyond the organisation, including nutrition-sensitive agriculture, crop health, agricultural trade, and the use and application of open data.

Open sessions - Tuesday and Wednesday

Advances in remote sensing for agriculture

Tuesday 22 September

12.30 - 14.30

Room 3

Moderator: Mark Noort

Lunch available

Objective of the session:

- Inform G4AW partnerships on recent developments and trends in remote sensing and agriculture information chains, and lessons learned from projects on remote sensing and agriculture.
- Discussion: How can advances in remote sensing be adopted in operational agri-services?

12.30-13.00 hr (15 min presentation, 15 min questions)

Analysis of information chain and good practices

HCP International, Mark Noort

HCP international is a young, innovative company, specialized in marketing of Earth Observation applications for sustainable development and general project formulation, acquisition, management and evaluation. The activities of HCP international focus on marketing and business development in the areas of risk, water, and environmental management.

Mark Noort coordinated the GEO network for capacity building project (GEONetCab), is project director of the earth observation for economic empowerment project (EOPOWER) and participates in a project on climate change, resource efficiency and raw materials management in the Black Sea and Mediterranean areas (IASON). He is also co-chair of the institutions and development implementation board of the Group on Earth Observations (GEO).

HCP International will introduce the session and provide an overview and analysis of information value chains for agri-services.

13.00-13.15 hr (5 min presentation, 5 min questions)

New developments in remote sensing satellites

NSO, Ruud Grim

The Netherlands Space Office (NSO) is the space agency of the Dutch government. The main task of NSO is to develop the space policy of the Netherlands and bring that policy into action. NSO is the Dutch national contact point for (inter)national space organisations like ESA, NASA and JAXA as well as for the space community and users of satellite data & derived information products within the Netherlands. An important element of the space policy of the Netherlands is to meet the both global and local information needs from society.

Ruud Grim is currently managing several international cooperation projects and the Geodata for Agriculture and Water Facility (G4AW), an initiative commissioned by the Dutch Ministry of Foreign Affairs to stimulate public private partnerships.

NSO will provide a brief overview of new developments in earth observation satellites relevant for G4AW.

13.15-13.45 hr (15 min presentation, 15 min questions)

GEO initiatives: GEOGLAM and AfriGEOSS

GEO secretariat, Andiswa Mlisa

GEOGLAM is the Group on Earth Observations Global Agricultural Monitoring Initiative. It was initially launched by the Group of Twenty (G20) Agriculture Ministers in June 2011, in Paris. The G20 Ministerial Declaration states that GEOGLAM “will strengthen global agricultural monitoring by improving the use of remote sensing tools for crop production projections and weather forecasting”. By providing coordinated Earth observations from satellites and integrating them with ground-based and other in-situ measurements, the initiative will contribute to generating reliable, accurate, timely and sustained crop monitoring information and yield forecasts.

The main objective of GEOGLAM is to reinforce the international community’s capacity to produce and disseminate relevant, timely and accurate forecasts of agricultural production at national, regional, and global scales by using Earth Observation data.

The AfriGEOSS initiative, developed within the GEO framework, will strengthen the link between the current GEO activities with existing capabilities and initiatives in Africa and will provide the necessary framework for countries and organizations to access and leverage on-going bilateral and multilateral EO-based initiatives across Africa, thereby creating synergies and minimizing duplication for the benefit of the entire continent.

The GEO secretariat will present the GEO initiatives GEOGLAM and AfriGEOSS and how this may be relevant for G4AW projects.

13.45-14.15 hr (15 min presentation, 15 min questions)

Spurring a Transformation for Agriculture through Remote Sensing (STARS)

University of Twente, Faculty of Geo-Information Science and Earth Observation (ITC), Rolf de By

The Spurring a Transformation for Agriculture through Remote Sensing (STARS) is a research project that explores the uses and opportunities of both established and new remote sensing based technologies and tools as a pathway for the monitoring of agriculture for food security. STARS is funded by the Bill and Melinda Gates Foundation (BMGF) through the University of Twente, Netherlands and is a collaborative effort by various research institutions. It is being implemented in Asia (Bangladesh), West Africa (Nigeria and Mali) and East Africa (Tanzania and Uganda).

The project hopes to significantly advance the livelihoods of smallholder farmers in some of the world’s poorest countries.

ITC will present the STARS-project, lesson-learned and possible links with G4AW projects.

14.15-14.30 hr

Discussion: How are these developments relevant for G4AW projects? How can advances in remote sensing be adopted in operational agri-services?



Copyright Pablo Tosco/Oxfam

Mobile Network Operators and agri-information services

Tuesday 22 September

12.30-14.30

Zeezaal (floor 17)

Moderator: Ivo Walsmit

Lunch available

Objective of the session:

- Inform G4AW partnerships on recent experiences
- Discussion: What are critical success factors for sustainable service provision?

12.45-13.15 hr (20 min presentation, 10 min questions)

Added value for the customer

GSMA, Nicole Darabian & Daniele Tricarico

The GSMA represents the interests of mobile operators worldwide, uniting nearly 800 operators with more than 250 companies. Many of the 500 million underserved, smallholder farmers worldwide lack access to relevant, timely information such as planting techniques, crop management and pesticide use, weather forecasts, leaving them vulnerable to factors such as harsh weather conditions and pests and diseases, which can destroy their crops and harm their livestock. GSMA coordinates the Mobile for Development and mAgri Programs.

GSMA will provide an overview of lessons learned from their programs relevant for G4AW.

13.15-13.45 hr (20 min presentation, 10 min questions)

Use of Mobile advisory services - Bridging the last mile (Push-Pull Extension)

CABI, Phil Abrahams

CABI (Centre for Agriculture and Biosciences International) is an international not-for-profit organization that improves people's lives worldwide by providing information and applying scientific expertise to solve problems in agriculture and the environment. CABI coordinates the PlantWise and Direct2Farm programmes and is involved in various studies using mobile advisory services.

CABI will provide an overview of lessons learned from their programs relevant for G4AW.

13.45-14.15 hr

Discussion: What are critical success factors for sustainable service provision?

Synergies in water management and food security

Tuesday 22 September

15.00-17.00

Zeezaal (floor 17)

Moderator: Bert Satijn (NWP)

Objective of the session:

- Explore synergies between the G4AW-projects and other MoF/ DGIS programs on water and food security to strengthen also there synergy

15.00-15.15 hr (10 min presentation, 5 min questions)

Objective of this session

Ministry of Foreign Affairs, Mr. Tj. De Vries (tbc)

This session is focussing on exploring the different G4AW projects and developments to discover the cross cutting issues, knowledge infrastructure, capacities and consortia to contribute to other MoF/ DGIS programs to strengthen synergy between IWRM and Food Production. The geographical scope is the (African) focus countries of the MoF and especially on developing climate resilience in water and food production as an important element of the synergy between water and FS. The results of this session will be used as input for the development of new multi annual strategic plans for the focus countries (to be ready in 2017), but also to develop project plans for new climate adaptation initiatives, to be funded by the Green Climate Fund or other climate funds. Within the G4AW projects a lot of knowledge, capacity and data will be developed, which could be used very good in programs addressing synergy between IWRM and Food Production.

15.15-15.40 hr (15 min presentation, 10 min questions)

FAO Water Productivity Initiative

FAO, Jippe Hoogeveen

FAO has recently initiated the development of an operational database, covering Africa and the Near East with Remote Sensed Data (see <https://www.ungm.org/Public/Notice/37814>) to monitor, in near real time, agricultural water and land productivity as well as carbon dioxide uptake by vegetation

FAO will present the operational database and the potential use of the data for a better food security, more effective water management, climate adaptation and a better resilience.

15.40-16.00 hr (2x10 min presentation)

Pitches of G4AW projects

Pitches by 2 G4AW projects (*To be allocated*), focussing on the added value of their projects for the synergy between water and FS in the domain of IWRM, Climate Adaptation and Resilience in relation to Food Production

16.00-17.00 hr (60 min interactive session)

How to achieve a better synergy between water management and food security, using G4AW results

Moderator: NWP, Bert Satijn

Discussion

Precision Agriculture benefits Food Security and smallholder

Wednesday 23 September

09.15- 11.30

Room 1

Moderator: Adri Bakker

Objective: Define which opportunities does precision agriculture offers to improve and secure global food security. Is high tech agriculture in general and precision agriculture in specific enabling us to feed the world? Does precision agriculture has a relevant solution to enhance food security in low capital and low knowledge systems in third world countries.

The G4AW facility is having a focus and targets on science and technology can help to improve the food security situation by empowering the most important actors in the food production chain: farmers, fishermen and pastoralists. Providing the right information at the right time to food producers can help to improve and increase food production in a sustainable manner thus ensuring food security on a global scale.

Attendees:

- members of the G4AW project teams
- Policymakers
- Practitioners
- Researchers

09.15- 09.45

Search for the practice of precision agriculture and where is the small holder? (tbc)

09.45- 10.05

Precision agriculture; what's in it for me? Tamme van der Wal (AeroVision)

10.05-10.20

Reflections by Peter van Erp (Soil Cares Research), Janny Vos (CABI)

10.20 -10.35

coffee break

10.35-11.15

Discussion:

1. Is hightech agriculture enabling us to support feeding the world?
2. What are the necessary conditions?
3. Are there dominant agricultural regions to start with?

11.15-11.30

Presentation of the findings of the group and reflection by representative of the ministry of Economic Affairs

Effective monitoring & evaluation

Wednesday 23 September

12.00-14.00

Room 1

Moderator: Marlène van Benthem

Lunch available

Objective of the session:

- Inform G4AW partnerships on IATI and M&E processes
- Discussion: What are effective M&E indicators for G4AW projects and sustainable service provision?

12.15-12.30 hr (10 min presentation, 5 min questions)

IATI for more transparency in aid

Ministry of Foreign Affairs, Theo van der Sande

IATI is a voluntary, multi-stakeholder initiative that seeks to improve the transparency of aid, development, and humanitarian resources in order to increase their effectiveness in tackling poverty. IATI brings together donor and recipient countries, civil society organisations, and other experts in aid information who are committed to working together to increase the transparency and openness of aid. - See more at: <http://www.aidtransparency.net/>

Ministry of Foreign Affairs will provide an overview of the context and need for Monitoring & Evaluation in development aid programmes, including G4AW.

12.30-12.45 hr (10 min presentation, 5 min questions)

M&E approach for a G4AW project, a project casus

To be announced

A G4AW partnership will provide their plans to implement for M&E in their G4AW project..

12.45-13.00 hr (10 min presentation, 5 min questions)

M&E: process and indicators

CREM, Victor de Lange

Victor de Lange has been active in the area of Sustainable Development since 1987, first as a researcher for the University of Amsterdam and since 1989 as co-founder and director of CREM BV. Since the beginning of his career he has a keen interest in contributing to sustainable development in emerging economies and developing countries, both from a socio-economic and an environmental point of view. For the private sector, government agencies, NGOs and international organizations he has been involved in hundreds of projects serving this objective, including Monitoring & Evaluation of programs and projects.

CREM BV offers 26 years of experience in consultancy, research and training in the field of sustainable development on an international, national and local scale. CREM's key areas of expertise include International CSR and supply chain management, biodiversity and natural resources, local sustainable development and waste management. See for more information www.crem.nl

13.00-14.00 hr (60 min presentation, interactive session)

M&E: what are good M&E indicators for G4AW projects

CREM, Victor de Lange

Through an interactive session M&E indicators for G4AW projects will be specified (tentatively). As reference the partnerships are referred to the (obligatory) M&E indicators being part of the G4AW Annual Report.

Appendix

IFAD contacts

Bangladesh:

Hubert Boirard
Country Programme Manager
Via Paolo Di Dono, 44
Rome, Italy
Work: +39 0654592298
h.boirard@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/bangladesh>

Burkina Faso:

Cristiana Sparacino
Country Programme Manager
Via Paolo di Dono, 44
Rome, Italy
Work: +390654592306
c.sparacino@ifad.org
http://operations.ifad.org/web/ifad/operations/country/home/tags/burkina_faso

Ethiopia:

Robson Mutandi
Country Director
IFAD Ethiopia Country Office P.O. Box: 5689 C/O ILRI Ethiopia
Addis Ababa, Ethiopia
Work: +254-11-617-2439
r.mutandi@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/ethiopia>

Indonesia:

Ronald Hartman
Country Programme Manager
Via Paolo di Dono, 44
Rome, Italy
Work: +39 0654592184
r.hartman@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/indonesia>

Kenya:

Nadine Gbossa
Head of Regional Office for East & Southern Africa, Country Director for Kenya
UN Complex Gigiri, PO BOX 67578
Nairobi, Kenya
Work: +254 020 7621034
n.gbossa@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/kenya>

Mali:

Philippe Remy
Country Programme Manager
Via Paolo di Dono, 44
Rome, Italy
Work: +39 0654592629
p.remy@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/mali>

South Africa (NB. IFAD does not currently have an active loan programme there, so there is not a separate CPM, but the Division Director has responsibility over it):

Sana Jatta
Regional Director, Eastern and Southern Africa Division
Via Paolo di Dono, 44
Rome, Italy
Work: +39 0654592446
s.jatta@ifad.org

Uganda:

Alessandro Marini
Country Representative for Uganda and Country Programme Manager for South Sudan
IFAD Country Office Uganda Plot 15 McKenzie Close, PO Box 7184
Kampala, Uganda
Work: +256 312 320200
a.marini@ifad.org <http://operations.ifad.org/web/ifad/operations/country/home/tags/uganda>

United Republic of Tanzania:

Francisco Pichón
Country Director
Via Paolo Di Dono, 44
Rome, Italy
Work: +39 0654592128
Fax: +39 0654593128
f.pichon@ifad.org
<http://operations.ifad.org/web/ifad/operations/country/home/tags/tanzania>

Viet Nam:

Henning Pedersen
Country programme manager
Room 103, B3 Van Phuc Diplomatic Compound 298 Kim Ma
Hanoi, Vietnam
Work: + 84 438237231
h.pedersen@ifad.org
http://operations.ifad.org/web/ifad/operations/country/home/tags/viet_nam

FAO contacts

Bangladesh:

FAO rep: Mr MICHAEL THOMAS ROBSON
Email: FAO-BD@fao.org
Web address: www.fao.org/bangladesh
Language: English

Burkina Faso:

FAO rep: MR ARISTIDE ONGONE OBAME
Email: FAO-BF@fao.org
Language: French

Ethiopia:

FAO rep: Mr AMADOU DIALLO ALLAHOURY
Email: FAO-ET@fao.org
Web address: www.fao.org/world/ethiopia
Language: English

Indonesia:

FAO rep: Mr M A SMULDERS
Email: FAO-ID@fao.org
Web address: coin.fao.org/cms/world/indonesia/en
Language: English

Kenya:

FAO rep: Mr. LUCA ALINOV
Email: FAO-KE@fao.org
Web address: coin.fao.org/cms/world/kenya
Language: English

Mali:

FAO rep: Ms FATOUMA DJAMA SEID
Email: FAO-ML@fao.org
Web address: coin.fao.org/cms/world/mali
Language: French

South Africa:

FAO rep: DR TOBIAS TAKAVARASHA
Email: FAO-ZA@fao.org
Web address: www.fao.org/world/southafrica
Language: English

Uganda:

FAO rep: MR ALHAJI M. JALLOW
Email: FAO-UG@fao.org
Web address: coin.fao.org/cms/world/uganda/en
Language: English

United Republic of Tanzania:

FAO rep: MR PATRICK OGURU OTTO
Email: FAO-TZ@fao.org
Language: English

Viet Nam:

FAO rep: MR JONG-HA BAE
Email: FAO-VN@fao.org
Web address: www.fao.org/vietnam
Language: English

NSO contacts

Adri Bakker

Email: a.bakker@spaceoffice.nl
Cell: +31 6 4813 0913

Marlène van Benthem

Email: m.vanbenthem@spaceoffice.nl
Cell: +31 6 5182 7320

Ruud Grim

Email: r.grim@spaceoffice.nl
Cell: +31 6 3004 9471

Mark Loos

Email: m.loos@spaceoffice.nl
Cell: +31 6 1588 6297

Glenn Manurat

Email: g.manurat@spaceoffice.nl
Tel: +31 88 602 4251

Joost van Uum

Email: joost.vanuun@spaceoffice.nl
Cell: +31 6 5240 1072

Ivo Walsmit

Email: ivo.walsmit@spaceoffice.nl
Cell: +31 6 5240 1461

NSO general

Email: info@spaceoffice.nl
Tel: +31 88 602 4500



Geodata for Agriculture and Water (G4AW) improves food security in developing countries by using satellite data. Netherlands Space Office (NSO) is executing this programme, commissioned by the Dutch Ministry of Foreign Affairs.



Ministry of Foreign Affairs of the Netherlands

This is a publication of Netherlands Space Office, in collaboration with Ministry of Foreign Affairs © Netherlands Space Office (September 2015)

Disclaimer: No rights can be derived from the information provided in this notice.

The policies and provisions laid down in the publication of the G4AW Facility in the Government Gazette are leading.