

G4AW Results & New Perspectives

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Ministry of Foreign Affairs of the Netherlands



Geodata for Agriculture and Water

Promoting the creation and use of digital advisory and financial services for smallholder food producers since 2013.

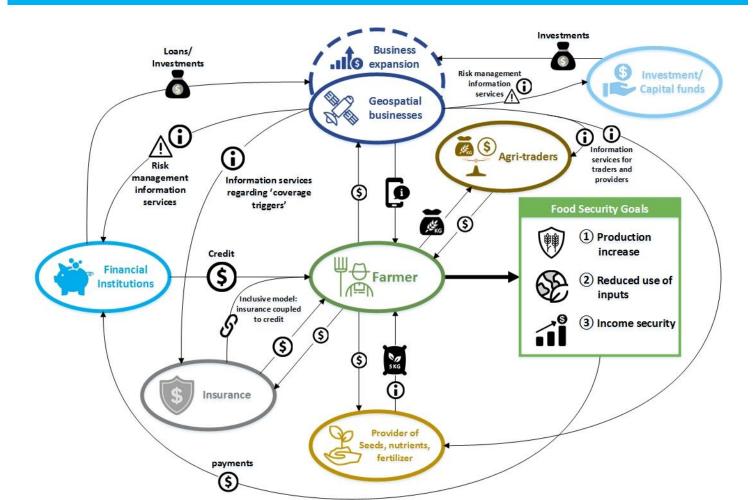
Objectives largely realized:

- **Reached** 4.9 million smallholder food producers, about 1.6 million users
- Decreased use of inputs
- Increased production
- Higher incomes





Smallholder farmer in the centre of an ecosystem



G4AW projects







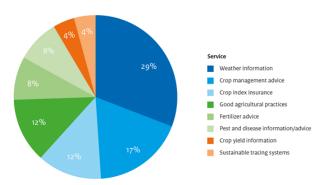
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Examples of agtech/fintech services in G4AW

- More localized weather forecasts
- Crop calendars & GAP
- Yield forecasts / growth stages
- Pest & disease warnings
- Drought and flood warnings
- Index insurance
- Risk profiling supporting insurance and credits







G4AW Applications (still operational - 1)

5003



Uganda Coffee farmers Insurance > 285,000

Mali, Burkina Pastoralists **Routing advice** > 100,000

Indonesia (farmers) Vegetable, pepper Farmer advices > 100,000

Bangladesh (farmers) Potato, rice Farmer advices, a.o. lite blight > 300,000

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Crop Selection Crop Production Crop Protection Profit & Loss > Weather fish Farmer's Toolbox Knowledge Bank Reach to Extension

A My Account

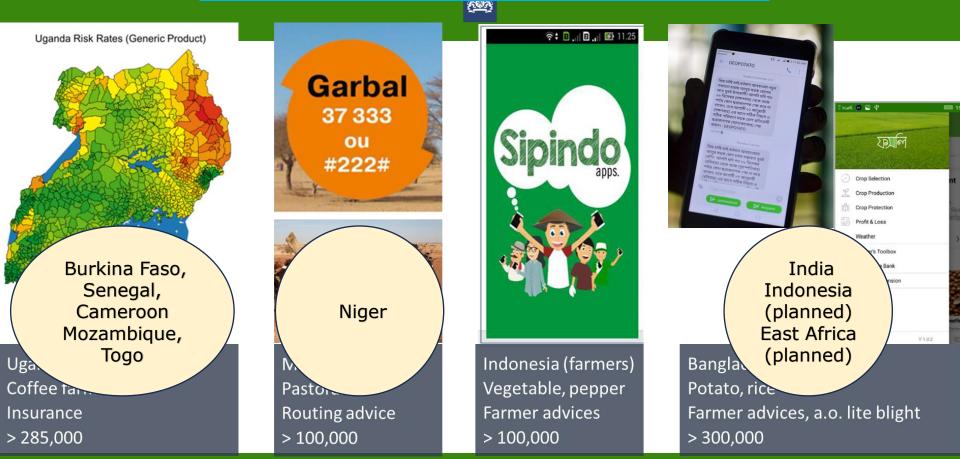
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G4AW Applications (and scaling)





G4AW Applications (still operational - 2)

2003





Scaling Up Crop Insurance for Smallholder Farmers in Ethiopia Innovative vegetation-index crop insurance for smallholder farmers combined with cloud micro-insurance

Thursday, April 07, 2022

by Kees de Bie and Andy Nelson, ITC, University of Twente, Netherlands.

This article is about the **Vegetation Index Crop Insurance (VICI)** product for rainfed small holder farmers. VICI was initiated as a Public-Private Partnership between ITC (University of Twente), Kifiya, NMA, PFEA and ATA, funded by the Netherlands Space Office **G4AW** programme.



Weather Impact



831,956

Number of farmers reached

Current: Bangladesh Burundi Gambia Mali Myanmar Lesotho Tanzania



Our raw, green coffee beans come from the Coffee Belt, which means that we source from various countries around the equator. In these countries of origin, our farmers use the Farmers App that we developed. This app is a training programme that provides efficiency, increased yield and sustainability. Agronomists are also used in order to add to the knowledge base. Watch Ward de





G4AW Applications (still operational - 3)

5003



GATHERING AND COMBINING DATA

The combination of individual families' situations, different crops and different needs for interventions on the cocoa plots on the farm, are a complex data set.





2,3 million Benefitting appr. 2,3 million people in Burundi

╡╫╫ ╢╫╫	42% Female
	28% Youths
	Reached by AgriCoarl



99% Of farmers is satisfied with their plot results after using AgriCoach

 \oslash

MYVAS4Agri

Agricultural Service Delivery During Turmoil: The State of Agricultural Extension and Crop Advisory Services in Myanmar

STRATEGY SUPPORT PROGRAM | WORKING PAPER 54

FEEDIFUTURE The U.S. Generation's Girled Hearger & Food Security Institution

Sudan

APRIL 2024

Some firms also have developed their own apps which farmers can download (Table 10). The most widely used are those of Greenway and Village Link, started in 2016 and 2018, respectively.

2023). The app developed by Village Link was reported by them to have been downloaded 850,000 times between 2018 and November 2023 (a lower number is reported in Table 10 as it reflects only those downloads reported by Google Play Store).²² Their app provides information on daily crop/fish prices, weather advisories (e.g. indicating if the weather is good for the application of fertilizer), daily, weekly, and seasonal weather forecasts, news, articles and videos. They have also developed tools



Trainings in Myanmar (2024)



Inclusive Finance (G4IFF, 2017)

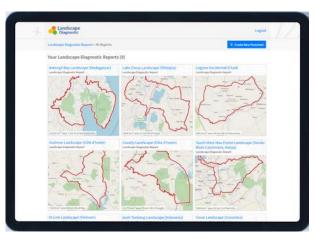
Conference: ~350 people, connecting space with finance, policy and ngo's

- By NpM, with NSO, Rabobank, FMO
- Innovation challenge
- Inspirational for new services, e.g. Rabobank ACORN (agroforestry)





Open Geodata Competition (2022)











Basic Service











Our successes (and pit fall)

- Cooperation over different disciplines, ngo's are enthusiastic
- Added value geodata demonstrated, broad use of geo-ICT
- Enabler of digital services for BoP food producers
- Reach and scale of service provision
- Stimulation innovation and local entrepreneurship
- Business case extremely challenging







DCAS is becoming mainstream

- G4AW is an example of digitalization for development for MoFA and EC; G4AW contributed to the initiation of MoFA Digital Policy
- WUR Digital Agri Hub collects and shares knowledge
- Financial support by EC, IFI's, GCA, ISF, and other donors; NSO shares G4AW insights as technical / scientific advisor
- G4AW parties continue to develop and deliver services







Next perspectives?

- G4AW → development and scaling of DCAS (Digital Climate Advisory Service), opportunities for
 - Soils & advisories (SoilValues)
 - Digital Services for Saline Agriculture
 - Use of Copernicus Services in DCAS
- Inclusive finance (several actors)
- Sustainable landscapes & finance
- Local innovation & employment (e.g. with Orange Corners, EC D4D)





The G4AW team



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Kathelijne Beenen Monitoring & Evaluation





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2013-2023



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Wouter Steen

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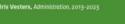


Lauran Verstraeten









SPACE FOR FOOD SECURITY – NEXT PERSPECTIVES





Ministry of Foreign Affairs of the Netherlands

Marcelina Leigh



Thank you for your attention

Let's stay connected!









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About NSO

Objectives:

- Inspiration, education & research
- Increased usage of satellite data
- Benefit for society (SDGs)
- Strengthen space sector & trade support
- Execute NL Space Policy







The Netherlands Space Office governance

- Space agency of the Netherlands government (established 2009)
- Reporting to:
 - Ministry of Economic Affairs and Climate
 - Ministry of Infrastructure and Water Management
 - Ministry of Education, Culture and Science
 - Ministry of Foreign Affairs
 - Netherlands Organisation for Scientific Research (NWO)
- Task: to develop and implement the space policy of the Netherlands
- Outcome: space applications for science, economy and society

