



Geodata for Agriculture and Water – The Sky is the Limit

Mariska Lammers

Ministry of Foreign Affairs of the Netherlands
Food Security department

Ouagadougou, 17 April 2019



G4AW
GEODATA FOR AGRICULTURE AND WATER

Netherlands
Space
Office



G4AW objectives



G4AW
GEODATA FOR AGRICULTURE AND WATER

- Improve **food production** and **incomes of smallholders**
- Contribute to **ecologically sustainable farmlands**
- Organize **public private partnerships**
- Stimulate **entrepreneurship**
- Be **demand driven**
- Achieve financially **sustainable** services



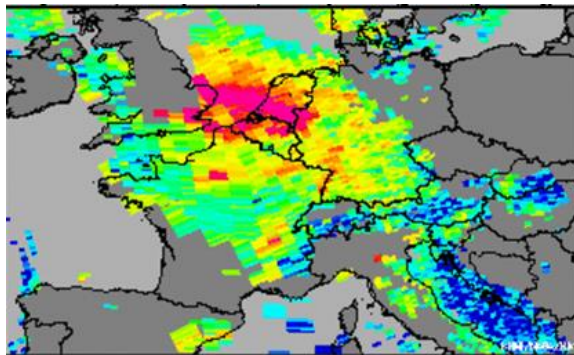


4857 satellites currently orbiting the planet

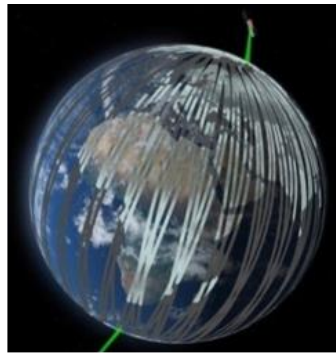




Added value of satellites



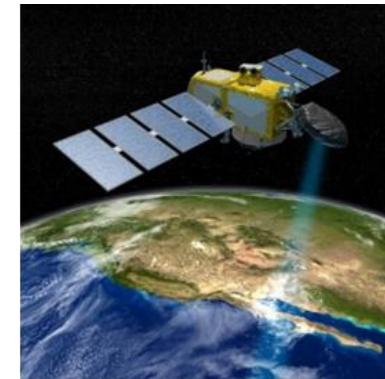
Large regions



Global coverage

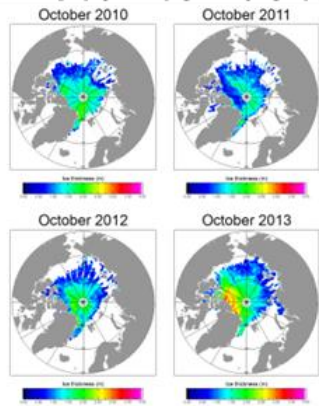


Global access



Homogeneous data

Repeated obs
Historical data



Copyright: Robert King, University College London

Integration



Multiple users

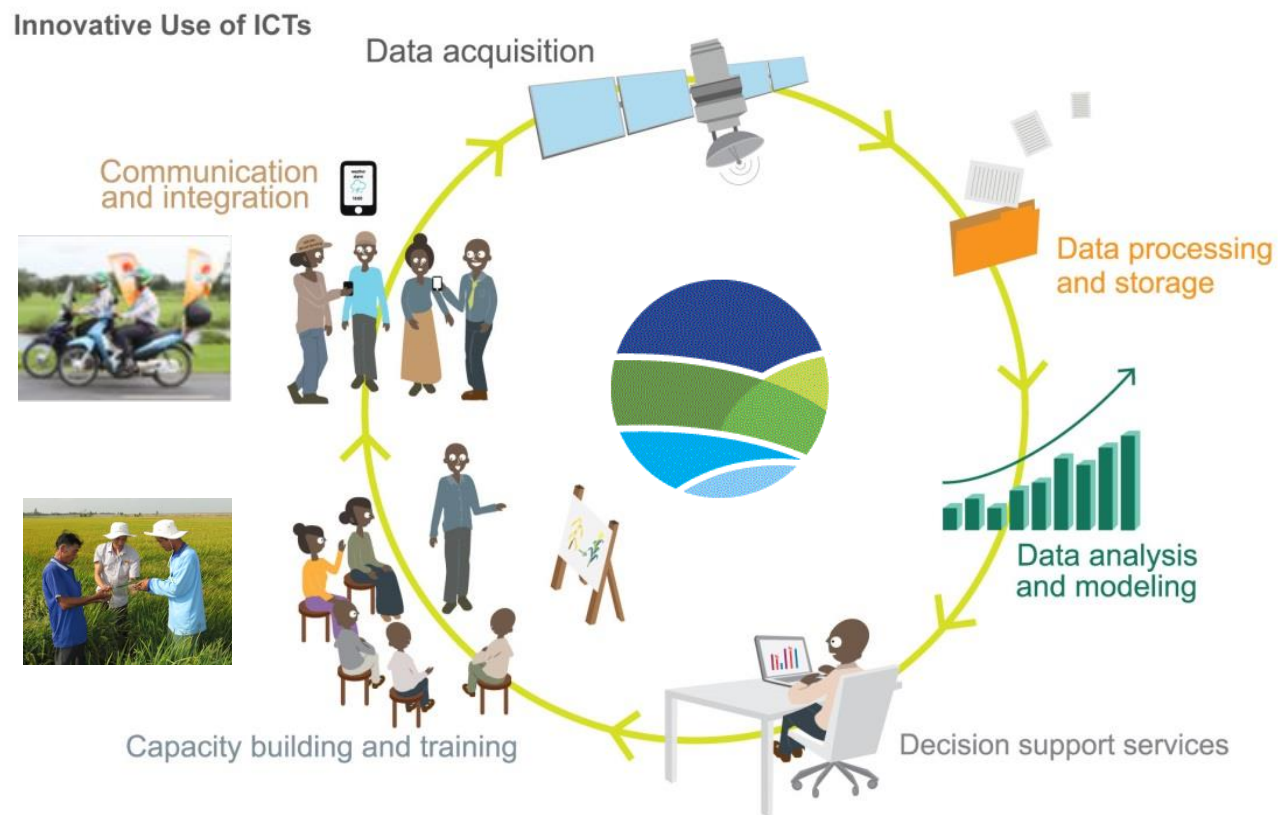


Near real time





Information chain





23 projects running in 14 countries

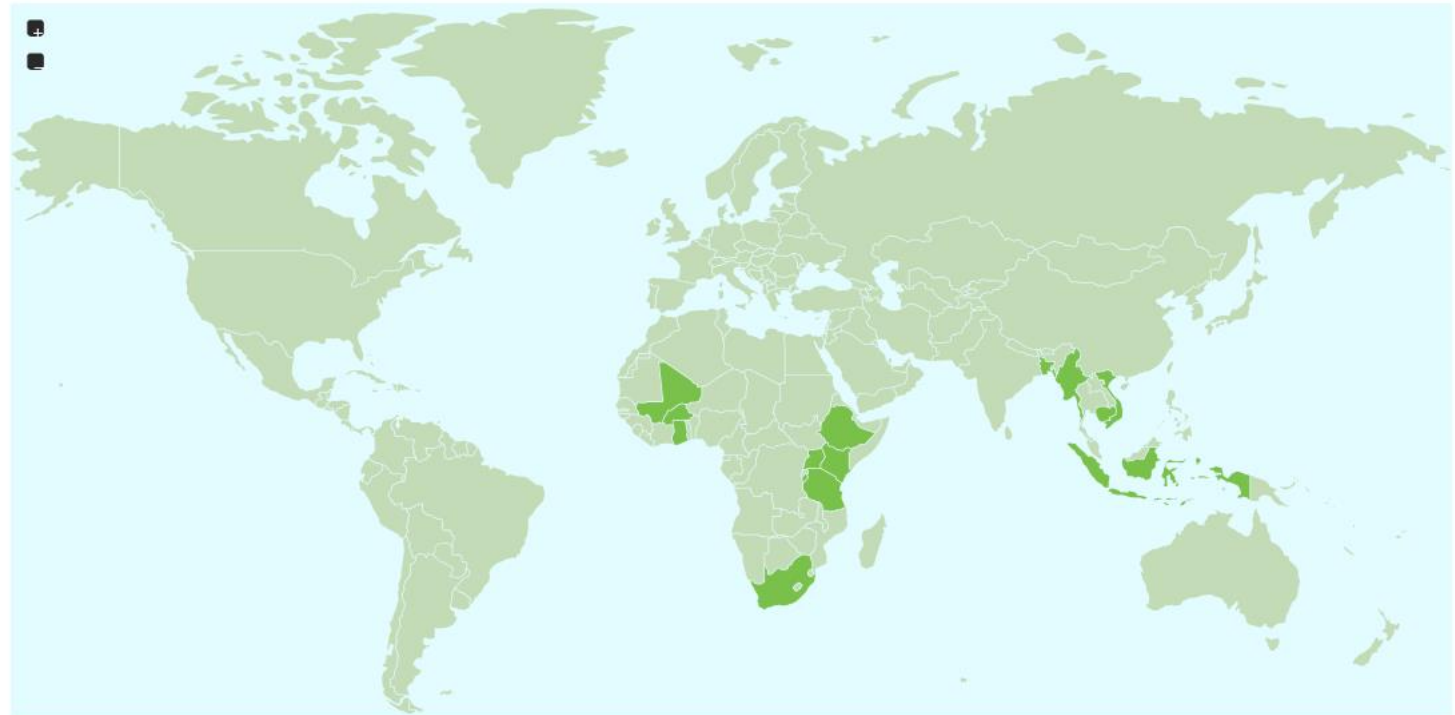
Reaching 10 million farmers

With a wide variety of services:

- Weather forecasts
- Agronomic advice
- Market information
- Index-insurance
- Micro-finance

[Home](#) / [Projects](#) / G4AW projects

G4AW projects





Main results

- **Higher yields and incomes:** better use of inputs, crop loss reduction, market linkages
- Better **resource efficiency** (water savings)
- **Job creation:** software developers, business managers, agents in the field



Lessons learned

1. Make the business model work
2. You need strong local partners
3. Always put the end user at the centre
4. Don't forget about women





Principles for Digital Development



Design with the User



Understand the Existing Ecosystem



Design For Scale



Build For Sustainability



Be Data Driven



Use Open Standards, Open Data, Open Source and Open Innovation



Reuse and Improve



Address Privacy and Security



Be Collaborative

Stewarded by **dial** Digital Impact Alliance

digitalprinciples.org

#DigitalPrinciples 



Thank you for your attention
Merci beaucoup pour
votre attention

For more information, go to:
Savoir plus? Visitez:

<https://g4aw.spaceoffice.nl/en/>



G4AW
GEODATA FOR AGRICULTURE AND WATER

Netherlands
Space
Office