



Stimulating digital agriculture

Digital technology & geo-data
shaping our food system

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30-04-2026



Digitalization is everywhere, in different forms





Stimulating innovation in agriculture

- › A shift from “efficiency & maximizing production” to “sustainability”
- › Digitalisation and geo-data as enabling technologies



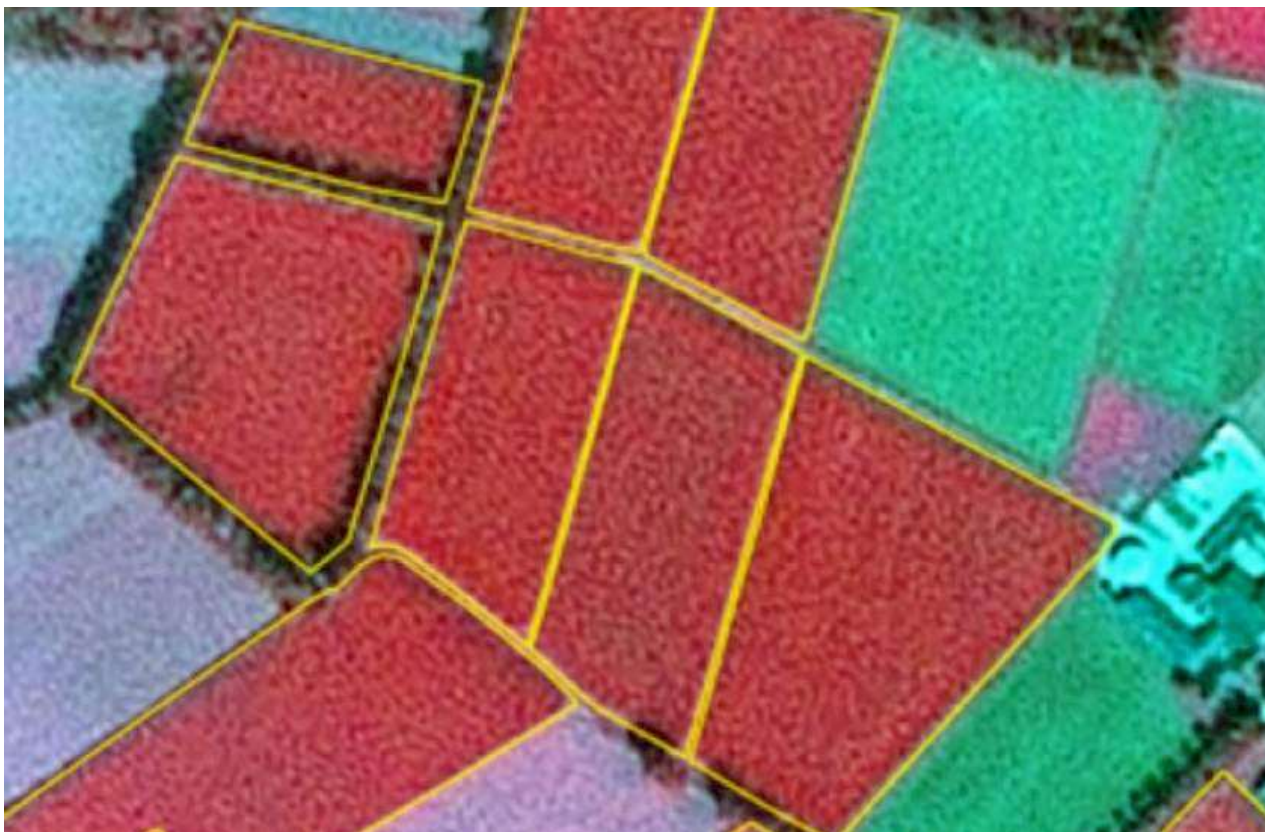


Government's role

- › Stimulate and facilitate innovation
- › Especially when it comes to societal challenges!
- › R&D programs
- › Infrastructure for testing and demonstration
- › Adoption of technology



Monitoring for Common Agricultural Policy



Increasing use of remote sensing and data-driven tools.

Area Monitoring System (AMS) used for checking parcel-level compliance



Programs & Initiatives

- › Action Program Digitalisation
- › National & EU subsidies
- › Innovation missions
- › Farm of the Future / Field labs



Agriculture, soil & land

- Land cover & use
- Subsidy compliance
- Precision agriculture
- Irrigation

SPATIALISE

OpenGeoHUB

eleaf

SAR VISION

NEO

IrriWatch

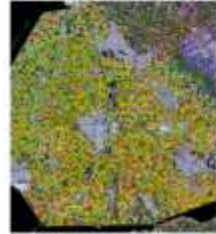
Hydrosat

GEO-A

bio scope

TerraSphere

Crop Type - Dry Season 2019



Forestry & land

- National baselines & changes
- Compliance (EUDR)
- Carbon credits

Rabobank

Growing the community you serve

The Asian approach to compare smallholder farmers for carbon sequestration

SAR VISION

FORESTER

OpenGeoHUB

Satelligence

Weather & Climate

- Weather and advisory services
- Air quality
- Climate scenarios

Koninkrijk Netherlands Meteorologisch Instituut

SRON

April mean 2019

April mean 2020

52impact

Risk & Opportunity Mapping

Impact Analysis

Scenario Modeling

Weather Impact



Early warning

- Drought
- Flood
- Typhoon
- etc.

HKV

HydroLogic

HydroNET

WISER Flood

River Alerts

Above Normal

Prepare for Flooding

Critical Status

EVACUATE

InfoSequia

FutureWater

Nelen & Schuurmans



The “Dutch Diamond”

- › Bringing together research, private sector, society and government
- › Share information between the different stakeholders, limit risk and create trust





G4AW

GEODATA FOR AGRICULTURE AND WATER

← ↻ https://www.nlsa.nl/en/

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Thank you!

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