



Irrigation advice for individual farmers

Water & Agriculture



**Nelen &
Schuurmans**



Water & Agriculture

The Water & Agri business unit at Nelen & Schuurmans provides innovative solutions for agriculture. We support development organizations and professional agribusinesses in improving their activities. We build integrated information services and provide consultancy supporting implementation, ensuring long-term sustainability. This ranges from alignment with user requirements and maximizing social impact to a financially sustainable business case. This makes us a reliable and trustworthy.



Partners

We work with various partners from different domains, fields of expertise and countries:

- > Knowledge institutes and universities
- > Satellite data providers
- > Agribusinesses
- > NGO's and development
- > Governments



European Space Agency



Enabling Delta Life



COOPERATION >



World Vegetable Center



Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



ITC

UNIVERSITY OF TWENTE.



Better farming
Better future



LỘC TRỜI



FEED THE WORLD



VanderSat



Verstegen

SPICES & SAUCES SINCE 1886



ACI Limited





Our solution

Irrigation advice for individual farmers

helps farmers to take the right actions at the right time to improve the quality and quantity of their yield. Different locations and the type of crop ask for different measure when it comes to irrigation. We are aware that the experience of the farmer is key to a successful agriculture. However, we are confident that data-driven consult supports farmers to an optimal use of water and other resources. We build interactive dashboards, online reports and web applications for local farmers. Beside improving their yield, we contribute to a sustainable agriculture.





The challenge

Increasing drought issues impose a threat to farmers and food security worldwide. Many farmers lack access to reliable irrigation advice. This leads to heavier impact on already devastating effects on drought caused by climate change. State-of-the-art irrigation recommendations for smallholder farmers is therefore crucial for improving food and financial security of the region.

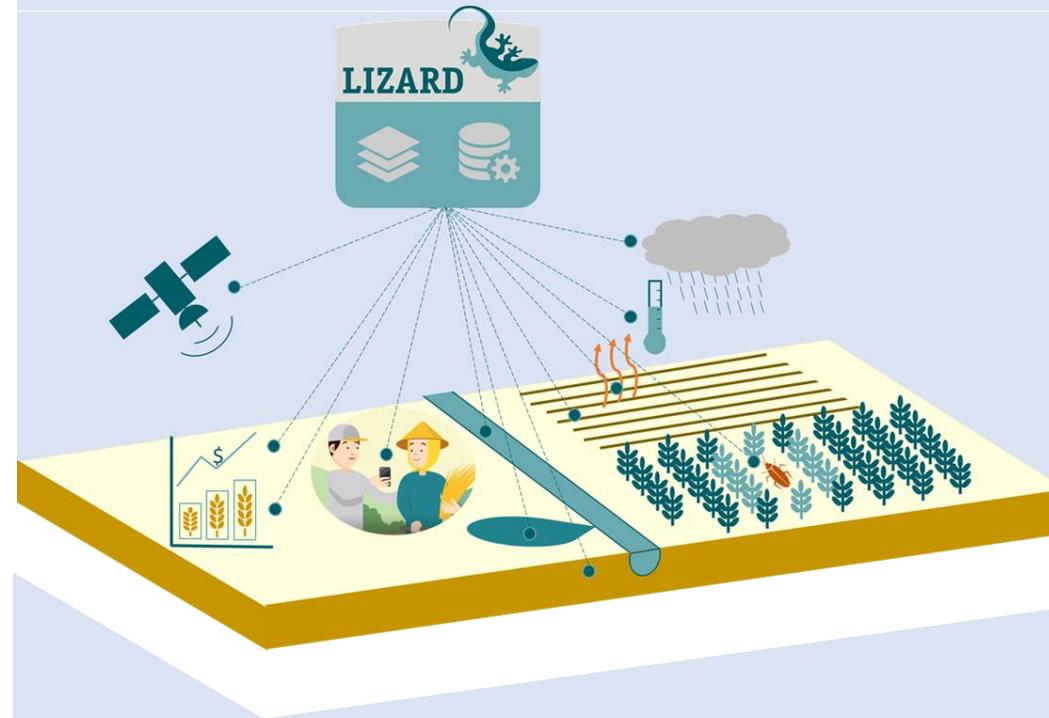




How we overcome this challenge

An enormous amount of data is available about the rural area: from sensors, satellite images and numerous open data sources. New techniques in data science, artificial intelligence and machine learning allows to now use this data.

We use hydrological models to predict water availability on plot level. The software systems and specialist knowledge we have developed can meet this challenge. We work with a strong network of knowledge and technology partners to make this possible. Our clients get access to this through interactive dashboards, web applications and smartphone apps.

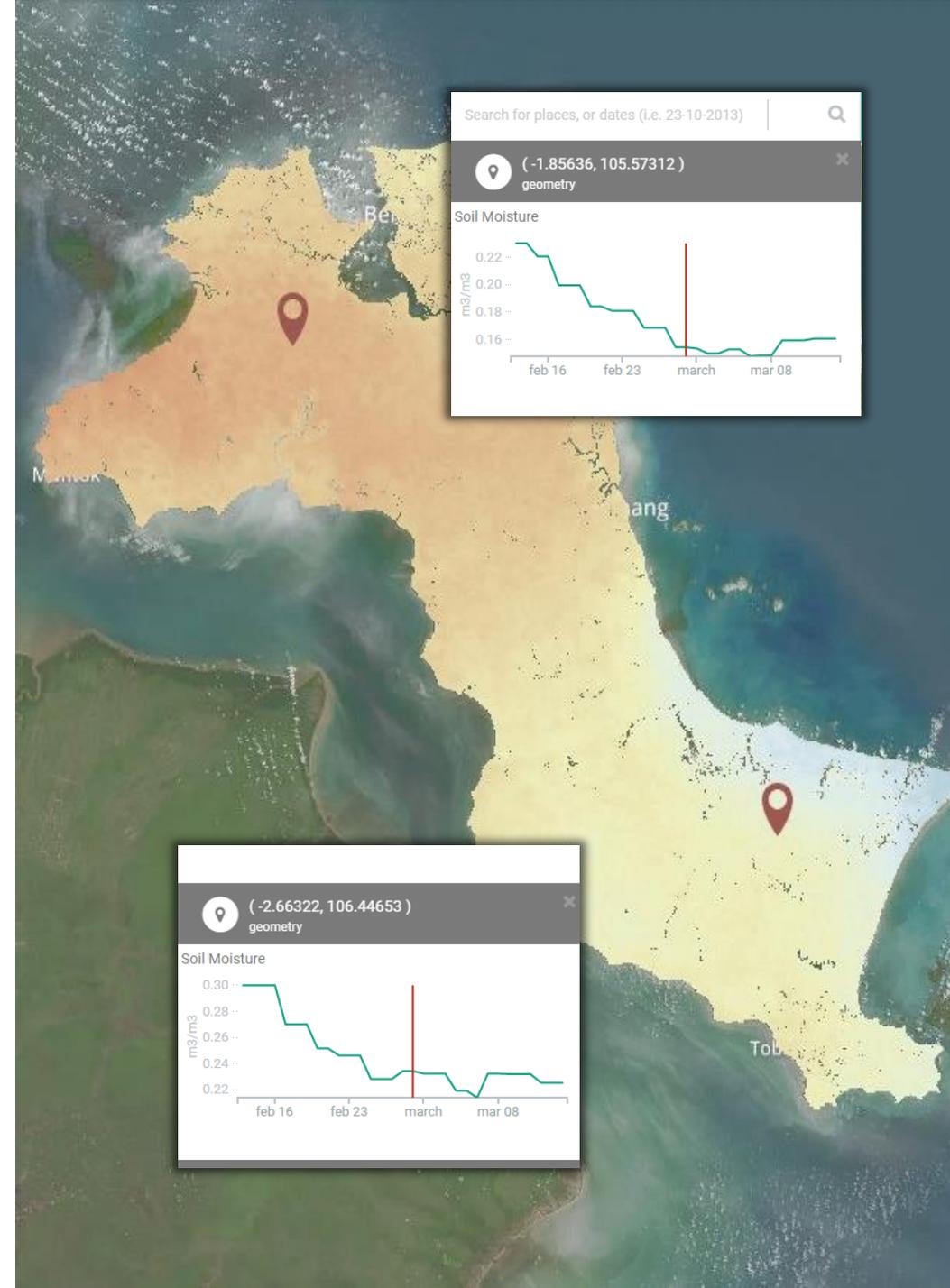




Personalized advice

We conduct state-of-the-art scientific substantive hydrological analysis. Our water balance models quantify every in- and outflow of water on plot, catchment or regional level. The Lizard geodata platform is the basis for our analysis. All available data sources are integrated in the platform and post-processed.

This allows for accurate and real-time information on water, soil and weather for a specific location. Real-time and location specific information enables personalized advice that greatly help farmers in their daily practices.





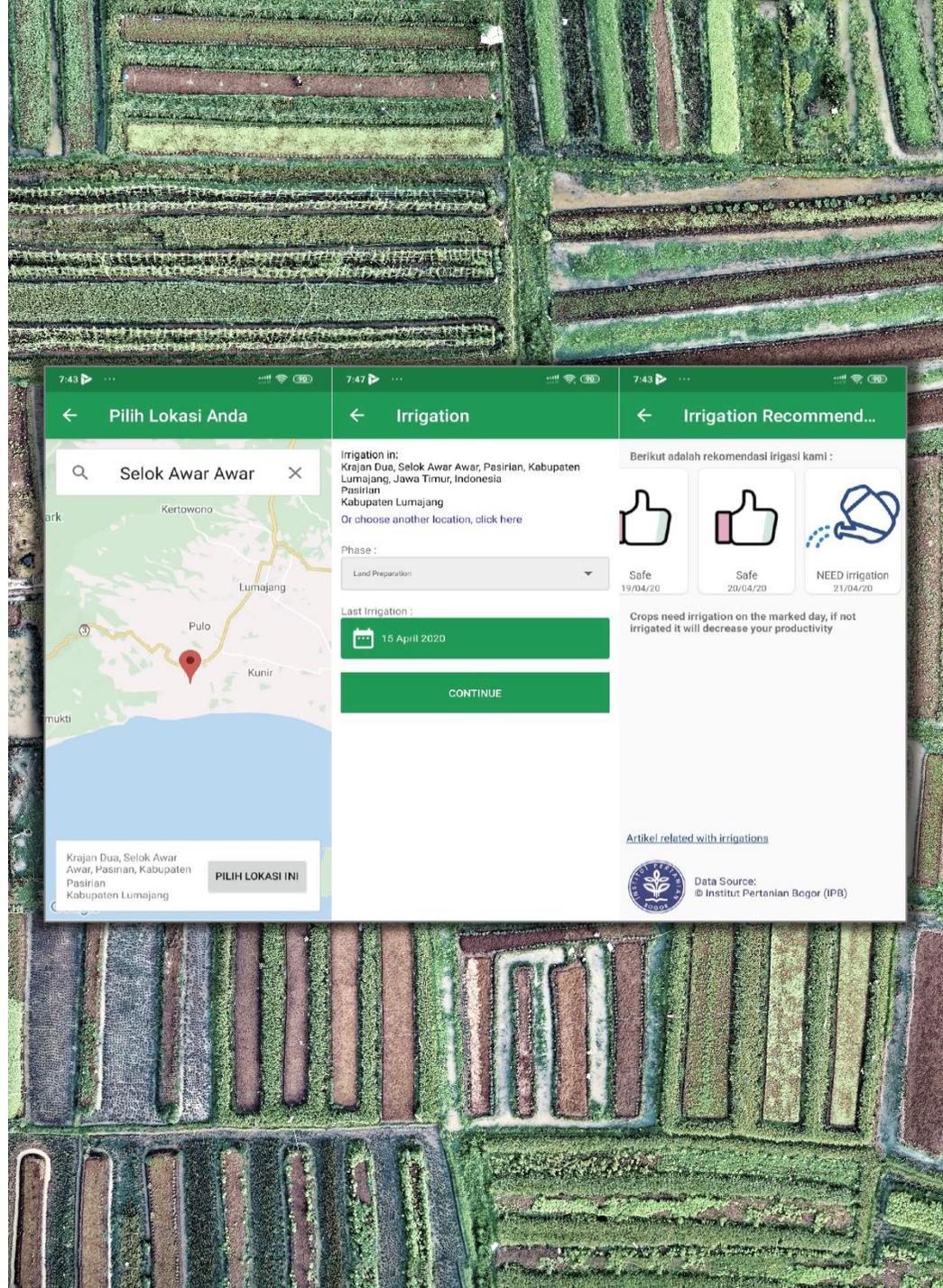
What can we do for your organization

We provide the most up to date information about the individual parcels.

- › Plot-level personalized advice
- › Key crop performance indicators
- › Tools for risk mitigation

This information is provided through our information service framework like:

- › Mobile & web-based apps
- › Seamless integration in existing services
- › Direct performance indicators (API)





Want to know more?

Find us at:

nelen-schuurmans.nl/nl/advies/water-agri

Or contact us directly:

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