



Crop monitoring information services

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, maximizing social impact to a financially sustainable business case. This makes us a reliable and trustworthy partner for professional organizations.



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



VanderSat

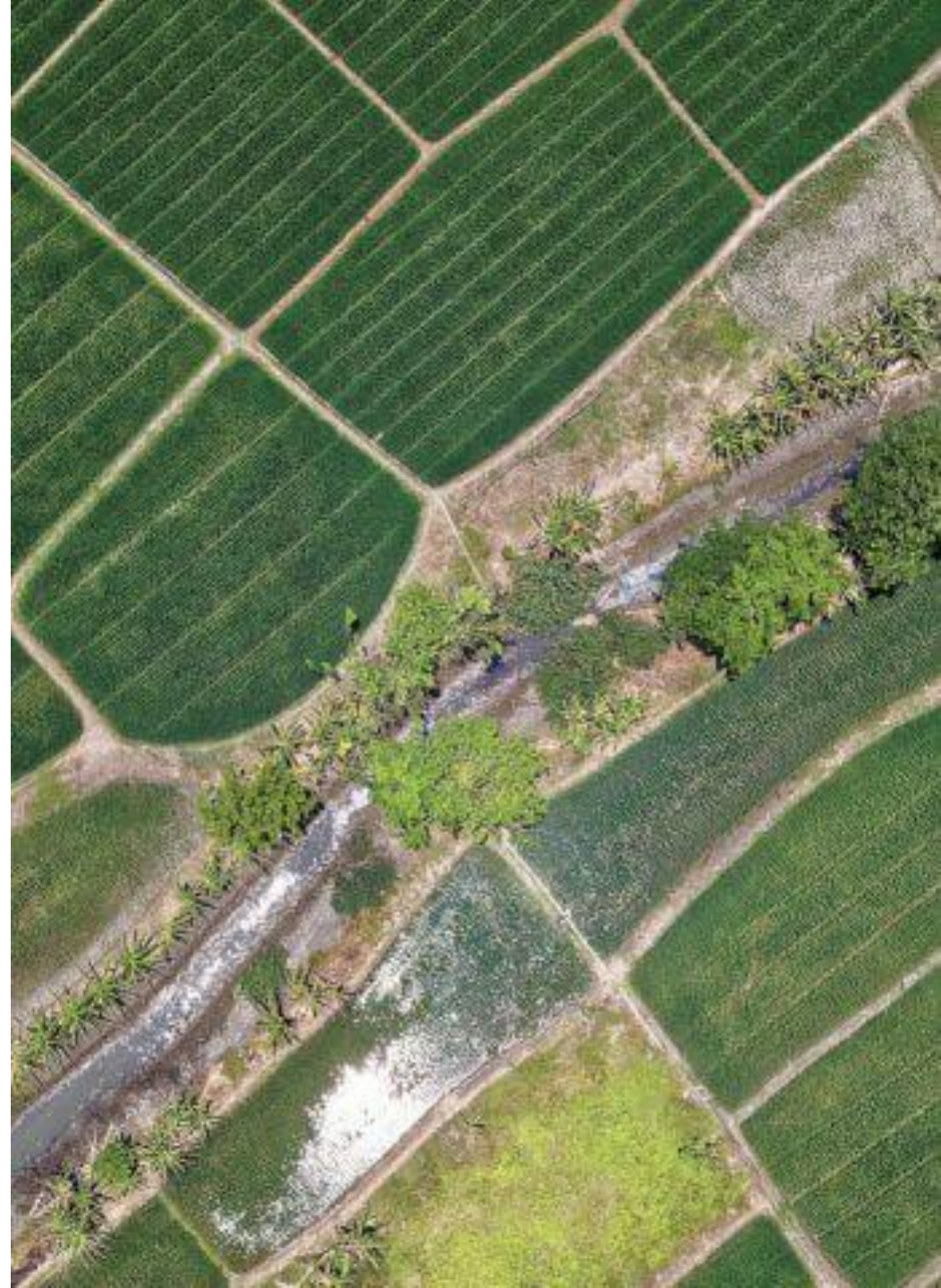




Our solution

Crop monitoring information services tell you where and how crops are growing. This is used in actionable advice for individual farmers and business intelligence to agribusinesses.

We use satellite data to monitor crop performance over large areas. In combination with geodata and observations from the fields, we create state-of-the-art information services. This provide detailed insights in both individual fields, and large regions. The service can be connected through corporate intelligence systems, but also to value chain partners.





The challenge

Global food production faces increasing climatological and environmental challenges. Efficient usage of water and chemicals is more important than ever, while the demand for improved quality and quantity continues to grow. Up to date and accurate information on the state of crops is essential in this process. It is difficult to take timely and adequate measures without the right information, therefore there is a clear need for information services that make this possible.

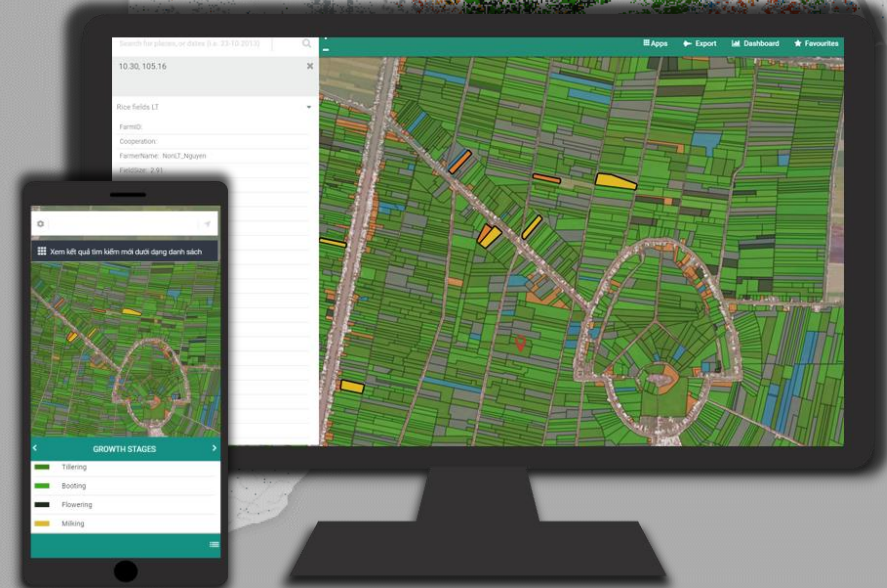
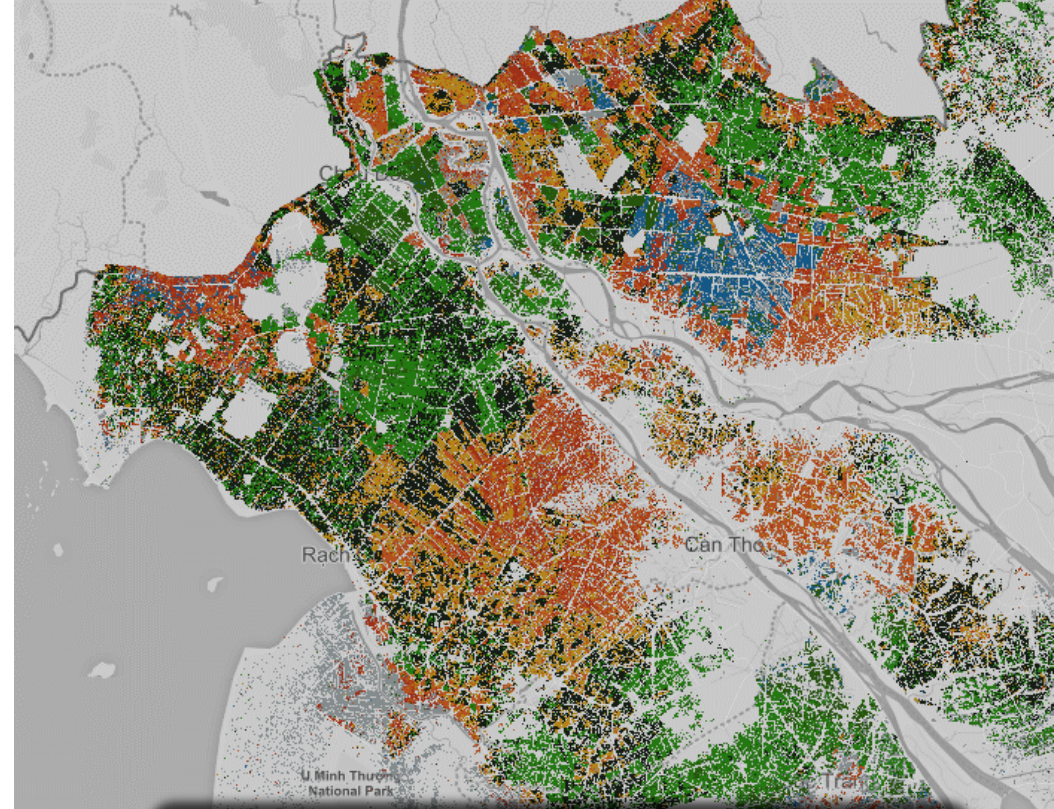




How we overcome this challenge

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.

The integration of data sources is essential to create the best information services. The systems and specialist knowledge we have developed can meet this challenge. We work with a strong network of knowledge and specialized technology partners. With this we deliver total solutions, from interactive dashboards to web applications and smartphone apps.

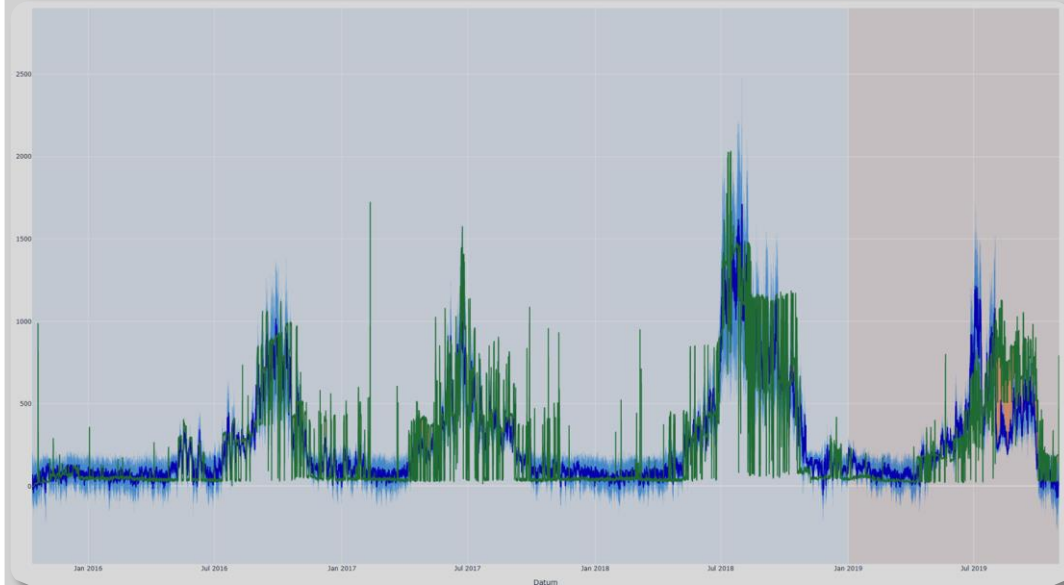




Real-time monitoring

We build advanced real-time monitoring information services. The Lizard geodata platform is the basis for our analysis. All available data sources are integrated in the platform, facilitating both static and dynamic operations.

The service provides multiple interfaces, as well as connecting to proprietary systems of value chain partners. We work with both open and commercial data collection initiatives, which are connected to the platform, providing the best and cost efficient service.





What can we do for your organization

We provide the most up to date information about the crops and fields.

- › All relevant data sources integrated in one central platform
- › Tools for data collection in the field
- › Monitor long term trends and patterns
- › Regional mapping

This information is provided in through our information service framework as:

- › Online dashboards
- › Automatically generated reports
- › Direct performance indicators





Want to know more?

Find us at:

nelen-schuurmans.nl/en/consultancy/water-agriculture/

Or contact us directly:

jelle.degen@nelen-schuurmans.nl

