



Deltares

A DUTCH INDEPENDENT RESEARCH INSTITUTE
FOR WATER, SOIL AND SUBSURFACE ISSUES

SERVICES

- Water and soil quality
- Hydraulic engineering, including modelling of drainage and dredging
- Spatial planning and ecology
- Operational warning and management systems of water resources
- Integrated water resources management
- Integrated coastal zone management
- Climate change and adaptation including flood and drought management
- Innovation management & strategic studies in the Water-Energy-Food nexus

EXCELLENT KNOWLEDGE

Deltares supplies state-of-the-art consultancy and expertise about water, soil and the subsurface. We lead in the development and application of knowledge for the sustainable management of deltas, coastal areas and river basins. As such, we are a strategic partner to the food producing sector.

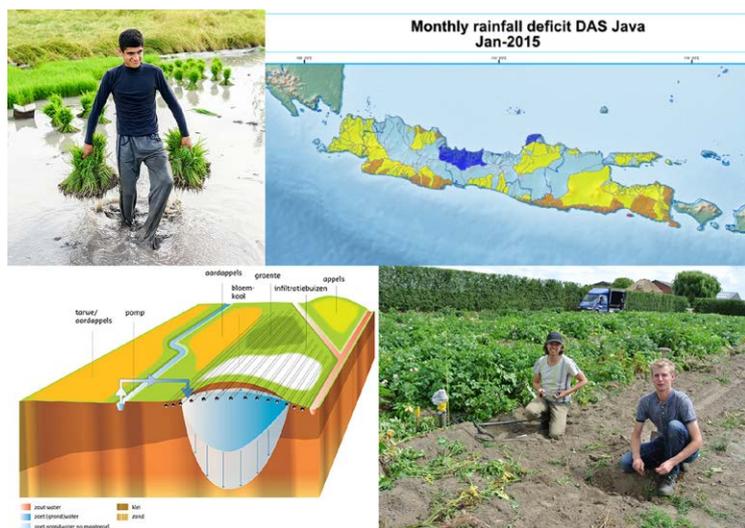


Enabling delta life

Climate change, subsidence, population expansion and environmental pressures all impact our food systems and living environment. Deltares stands for a good balance between specialist consultancy and applied research. Our strength is an integrated approach which brings together societal considerations and innovative technological solutions. For the Water-Energy-Food nexus this means taking into account spatial, economic and administrative consequences of the use and management of water and soil. Our work results in more sustainable, liveable, and often more economic solutions. We enable delta life with 'delta technology'.

Management and safety

We assess risks to crops and infrastructure using our own models and other research methods. We reduce uncertainty by integrating knowledge at local levels, river basin and global levels. We combine technical knowledge of the subsurface with knowledge of natural processes.



Open Source Software

Deltares develops and makes available a wide range of software and models which are relevant for the Water-Energy-Food nexus. Operational forecasts are for example facilitated by Delft-FEWS, while policymakers use Touch Table simulation products. RIBASIM for example, has been applied to model allocation of water between sectors, allowing farmers in Indonesia to monitor their expected crop yields.

EXCELLENT KNOWLEDGE

Facilities

Our research facilities range from laboratories and field studies to test arrays and simulators: we study the quality of water and the morphology of rivers, lakes and the coast.

We also study the strength of soil and the subsurface, and the effects of waves and currents on physical structures.

Our combined facilities allow us to conduct small- and large-scale integrated studies in these fields on your behalf.

In addition, our Biogeochemical laboratory Utrecht Castel allows the assessment of a complex range of microbiological and geochemical processes that have a major impact on the quality of soil and water. Monitoring, modelling and field studies have supported the development of salt-resistant potatoes and other crops in the Netherlands, while research on the flow of brackish and saline water continues to improve crop yields in Dutch polders.

NL-FSA

The NL-Food Security Alliance (NL-FSA) is a network of mainly Dutch companies and institutions developing exclusive and sustainable solutions in the agri-water-food-business.

NL-FSA is a Royal Eijkelkamp initiative



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