

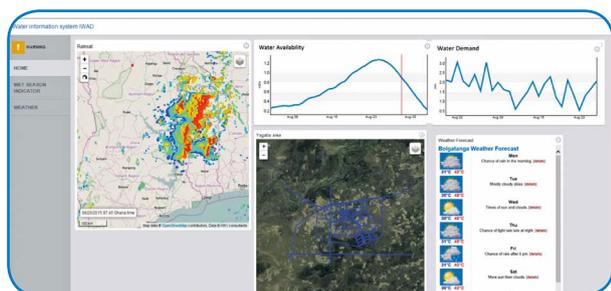
SHIFT

Short Term Irrigation Forecast

SHIFT provides information that supports the irrigation decision making process. The water availability forecast of the irrigation source is presented in such a way, that the irrigation manager can better decide if, when and how much water can be used to irrigate crops.

SHIFT is a dashboard application, meaning it is possible to add and tailor multiple information sources on a web page or mobile phone app like weather forecast or crop prices.

SHIFT is beneficial for farming cooperations, managers of large farms and irrigation companies.



Water availability forecast

Crops that are irrigated have a much higher yield compared to rain fed crops in the same area. However when water is scarce, irrigation should be applied carefully. Rivers are often used to extract irrigation water directly from, or they provide water to a reservoir or dam from which water is extracted. SHIFT can forecast the river flow several days or even more than a week ahead depending on the river characteristics. SHIFT uses open source satellite based rainfall data and hydrological routing and is therefore completely independent of data availability on the ground and applicable wherever the service is required.



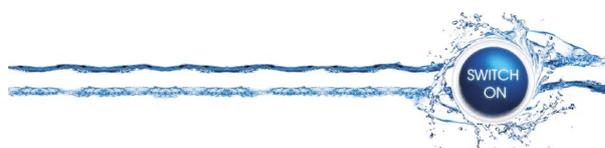
SHIFT dashboard: multiple information sources

Like a dashboard in your car SHIFT is able to present different types of information that can be used to make your decisions on irrigation farming. Besides water availability, SHIFT can also present the water demand, based on evaporation deficit, real time or historical rainfall patterns and local weather forecasts. SHIFT is especially equipped to extend the dashboard with other relevant information, like reservoir or river water levels and current crop prices. Farmers that don't use irrigation will also benefit from this information.

Reduce your uncertainty

Farmers know the crops they plant, the land they farm and character of the local climate. They use their knowledge and experience to optimize the crop yield. SHIFT does not replace this knowledge and experience, but it reduces the uncertainty under which decisions need to be made. The uncertainty is reduced by bringing information together and providing an overview in a clear way, tailored to the needs of the user which enables farmers to apply their farming experience and irrigate their fields in a more effective way.

Further information and documentation available upon request: j.udo@hkv.nl



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