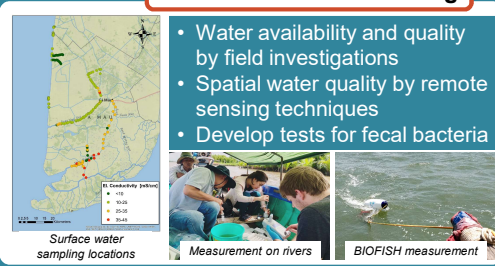




GROUNDWATER AND SURFACE WATER DYNAMICS

SURFACE WATER

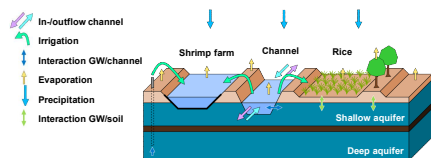
Surface water screening



- Organic and inorganic pollutants
- Salinization and isotopic signature
- Anthropogenic pollution, germs, xenobiotics and algae

Modeling

Modeling of water balance to estimate water availability



- In-situ and online multi-sensor monitoring stations for surface water and groundwater wells
- Radar reflector field
- Land subsidence observation wells

Utilization concepts

Stationary observation

- Identification of alternative water resources and development of sustainable utilization concepts
- Identification of areas with the most urgent need for ground water substitution
- Improvement of water quality monitoring and forecast technologies in Vietnam

Measures for treatment of water from different resources



Data Management

General information
Groundwater well

information

People habit

Awareness of the impact of groundwater extraction



Group interview with local family

Develop a software prototype with interfaces for all project partners and stakeholders

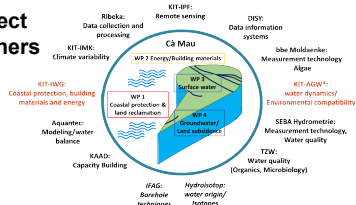
Examples of data management software from Riheka and Disv

Acknowledgements

The ViWaT-Engineering project (02WCL1474A-H) is funded by the German Federal Ministry for Education and Research (BMBF). Our Vietnamese partners under the leadership of the Ministry of Science and Technology (MOST) are gratefully acknowledged for their support.



Project partners



Contact

For further information please visit
www.viwaat.info or contact us at KIT:
 Prof. Dr. Stefan Norra (stefan.norra@kit.edu)
 Dr. Nicolas Börsig (nicolas.boersig@kit.edu),
 Dr. Vu Duong (hoang.vu@kit.edu),
 Dr. Moritz Zemann (moritz.zemann@kit.edu)