SHui

Managing water scarcity in European and Chinese cropping systems

SHui aims to provide solutions for, and contribute to, promoting dynamic agricultural development in rural areas of the EU and China. It will help improve the implementation of EU policies and Chinese plans on enhanced food production and environmental sustainability.

SHui will validate strategies to manage water scarcity in European and Chinese cropping systems. Using a suite of technologies and tools developed and validated during the project, SHui will work with stakeholders (individuals and organizations) to make informed decisions on the best use of soil and water resources.

Multi-disciplinary research

Working within cognate cropping systems across the EU and China, the SHui consortium combines expertise across multiple disciplines including agronomy; irrigation technology; digital agriculture; hydrology; soil and water conservation; remote sensing; plant physiology; soil science and socio-economics.

Contact

https://www.shui-eu.org

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中欧SHUI⊠新研究平台

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Managing Water Scarcity in European and Chinese Cropping Systems

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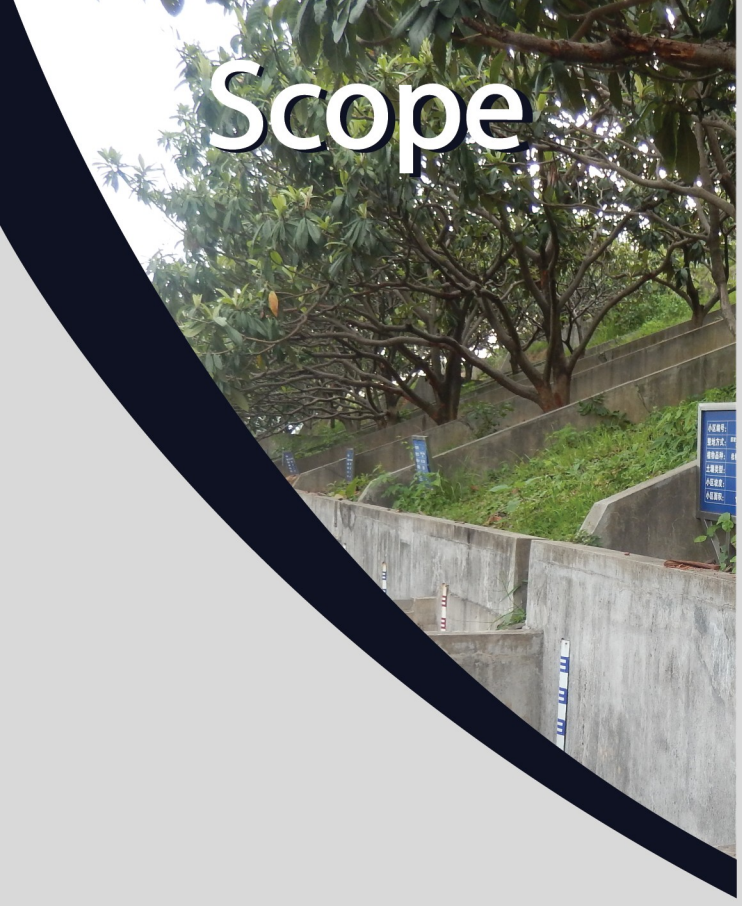
Scope



Cropping System Focus

Both continents

Cereal-based crop rotations
Irrigated or rainfed tree crop production

China

Irrigated summer vegetable production
Alternate wetting & drying of rice

Partners

- The European Comission
- Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC)
- Agricultural Research Organization (ARO)
- Beijing Forestry University (BJFU)
- Beijing Normal University (BNU)
- University of Natural Resources and Life Sciences (BOKU)
- China Agricultural University (CAU)
- Changjiang River Scientific Research Institute (CRSRI)
- Hong Kong Baptist University (HKBU)
- Czech Technical University (CVUT)
- Fujian Agriculture and Forestry University (FAFU)
- Fondazione per lo Sviluppo Sostenibile del Mediterraneo (Fondazione MEDES)
- Catholic University of Leuven (KU Leuven)
- Nanjing Agricultural University (NAU)
- Northwest A & F University (NWAFU)
- Terra Noval Ltd
- TerraVision Lab
- Universidad de Córdoba (UCO)
- University of Göttingen (UGOE)
- Lancaster University (ULANC)

Tools

Action Orientated Deliverables

SHui will:

- Provide strategies validated in a broad range of field conditions, starting from a network of long-term experiments.
- Develop and demonstrate a methodology for use by regional policy makers in SHui study areas, by upscaling crop and hydrological model analysis from small to large scales.
- Deploy user-friendly decision making tools, incorporating social and economic considerations.
- Deliver and test strategies for stakeholders that increase resilience of cropping systems under extreme weather events and climate change.