

Capacity building on the water-energy-food security Nexus through  
research and training in Kenya and Uganda | CapNex

A partnership between Kenya, Uganda and Austria

appear



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Population and economic growth in the Kenya-Uganda border region has led to an increasing pressure on natural resources, affecting the future provision of water, energy, and food. The CapNex project aims to illustrate challenges and pathways for a sustainable use of these resources to provide water, energy, and food, and to build up capacities at university and non-university level.

To do so, four interrelated case studies are designed, focusing on

- the current and future water quantity available in the area,
- erosion and how it affects the surface water quality in the area,
- the adoption of soil and water conservation (SWC) in agriculture
- and the cascade utilization of cattle manure by vermicomposting

The relations between the topics covered in the case studies will be illustrated by a number of examples and methods (e.g. sediments in rivers from eroded soils affecting water supply; reduction of erosion and increase of food production by SWC and vermicomposting). These practical examples will help to illustrate the nature of the so-called water-energy-food-security nexus in order to build up capacities at university and non-university level. For the latter, non-university stakeholders are asked to participate and interact with university students in the research. In total, seven PhD and six Master students will be trained in the project.

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### Project Duration

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