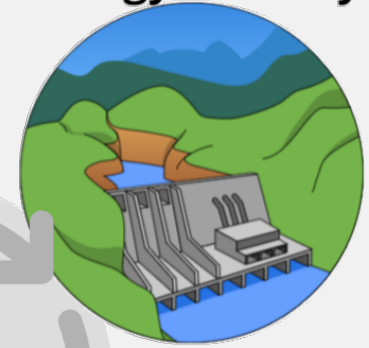




Water Security



Energy Security



NEXUS



Food Security



Ecosystem  
Resilience

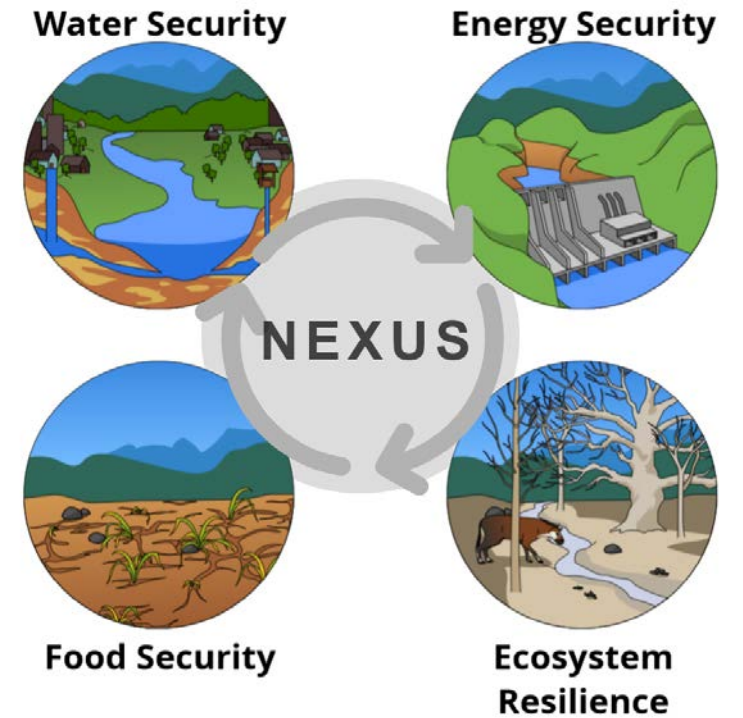
# The Water-Energy-Food-Ecosystem (WEFE) nexus: pathways to resilience

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IAHS

# WEFE Nexus - Goals

Adoption and implementation of integrated solutions that address the water-energy-food-ecosystem nexus challenges at different spatiotemporal scales and improve water security, energy efficiency, sustainable agriculture, and ecosystem health through holistic approaches.



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The WG seeks to build upon the collective strengths of its members to foster international research and educational opportunities related to the water-energy-food-ecosystem (WEFE) nexus.

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The WG promotes co-creation, systems thinking and holistic solutions for water security.

# WEFE Nexus - Goals

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## Short-term results

- **Bringing together** research groups and individuals by creating a platform for exchange and knowledge transfer.
- **Initiating new research collaborations** and concerted efforts to push the boundaries of nexus research, breaking disciplinary siloes and increasing the collaboration and knowledge sharing between hydrologists and other experts working on the WEFE nexus.

## Long-term results

- **Advanced modelling and prediction techniques** to address the diverse scales, high dimensionality, and vulnerability of the nexus to climate and land-use change
- **Enhanced ability to quantify and comprehend the complex interactions** between water and other sectors, as well as the challenges and opportunities within the WEFE nexus.