



Science for Solutions decade: **HELPING**
Hydrology Engaging Local People IN one Global world
IAHS Scientific Decade 2023-2032
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Details of the Working Group – Drought in the Anthropocene

Describe the work and how your suggested working group will contribute to the goal(s): In this human-influenced era, we need to rethink the concept of drought to include the human role in mitigating and enhancing drought. One major challenge is the quantification of human adaptive behaviour on drought propagation. This is a basic prerequisite for the prediction of changes in risk and vulnerability in the future. The aim of the working group is to investigate and quantify the interactions between drought and people; and how that affects the effectivity of sectoral and holistic solutions for water challenges. This working group will contribute to creating guidelines and tools for assessing the (mal)adaptive effects of drought risk mitigation measures.

Describe the methods you will use to achieve the goal(s): We use integrated, interdisciplinary and participative methods to create system dynamic models or agent based models, linking behavioural sciences and ecological system knowledge to describe the human-water system, through a drought-lense.

Describe the (a) short-term, (b) the long-term and (c) the ultimate results you hope to achieve: Given that this is an extension of the successful, transdisciplinary Panta Rhei working group Drought in the Anthropocene, we hope to continue building and growing the network, finalise existing community papers and create new collaborative papers, ensure exchanges of state-of-the-art methods and knowledge on people-drought feedbacks. This will undoubtedly lead to a thriving community that comes up with interdisciplinary (tools for evaluating) solutions for water security.

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