



Science for Solutions decade: **HELPING**  
**Hydrology Engaging Local People IN** one **Global** world  
IAHS Scientific Decade 2023-2032  
[IAHS Scientific Decade](#)

**Details of the Working Group – Ensuring evidence-based findings**

**Describe the work and how your suggested working group will contribute to the goal(s):** To ensure evidence-based findings, the group will have to collaborate to carry out results-oriented research to understand the local hydrological dynamics through leveraging recent innovative techniques as methodology.

**Describe the methods you will use to achieve the goal(s):** Geospatial/Machine Learning techniques would be paradigm shift in hydrological research to increase the ability of modelling large size data. This will aid in understanding the dynamics within the local communities.

**Describe the (a) short-term, (b) the long-term and (c) the ultimate results you hope to achieve:**  
(a) Understanding the dynamic floods conditioning factors, and groundwater recharge correlation (Short term). (b) How this information would help local farmers in term policy development and implementation. (c) Replication of such projects in other part of the globe.

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