



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 – Sensors For & By the People

Describe the work and how your suggested working group will contribute to the goal(s):

Develop relatively low-cost / potentially self-made sensors to monitor local hydro-climatology, and simultaneously (improving/extend an existing) open-source database to include this new data and corresponding basic and accessible analysis tools.

Describe the methods you will use to achieve the goal(s): Develop and conduct workshops or courses to guide interested user groups in the development and installation of sensors for monitoring their resources. The sensors etc. would be developed through these workshops. There would be a considerable outreach component to find groups that are motivated to collaborate. Targeted areas would be places downstream of huge land use change (deforestation, mining, etc), at risk for disaster, or with considerable climate change impact on the water resource.

Describe the (a) short-term, (b) the long-term and (c) the ultimate results you hope to achieve:

(a) Short-term: training modules for building and using hydrologic sensors, a few trial courses, an improved module, and data repositories identified.

(b) Long-term: data from all successful training locations in real-time in a common, improved database, regular communication between the communities and collectors.

(c) Ultimate: a “sensors everywhere” approach to hydro(-meteo-)logic information collection that empowers people.

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