DEVELOPING SHALLOW GROUNDWATER RESOURCES FOR SMALL-SCALE IRRIGATION IN SUB-SAHARAN AFRICA

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Many opportunities for productive use, but danger of uncontrolled expansion.

Existing data focused on deeper groundwater, but shallow most accessible to communities

Need appropriate systems to support resource management at the local level

How local communities can **assess and manage their own resources** taking account of physical, socio-economic, and governance contexts?
Pilot study in Ethiopia

Dangila woreda, Amhara Region, Ethiopia
- Multi-scale analysis
- Multi-disciplinary
- Monitoring by community members
- Hydrologic modelling
- Social science studies
Local level participation is valuable, necessary and feasible.

Simple water balance models and community monitoring can assist BUT need appropriate tools and governance to be effective.

Best entry point is to build upon experience and existing local level governance structures:

(a) community-based catchment management

(b) farmer-managed irrigation
To be continued...

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Collaborators: