



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

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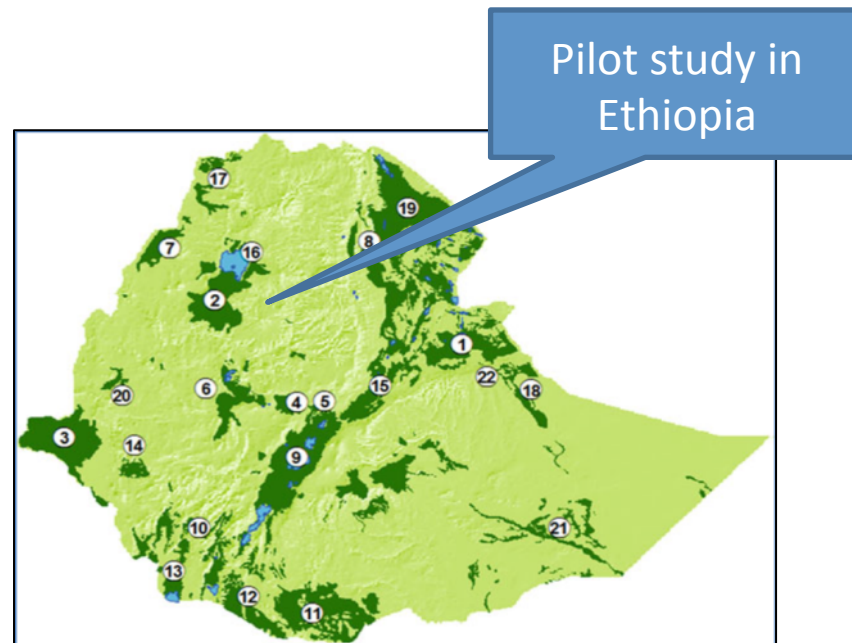
Many opportunities for productive use, but danger of uncontrolled expansion.

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

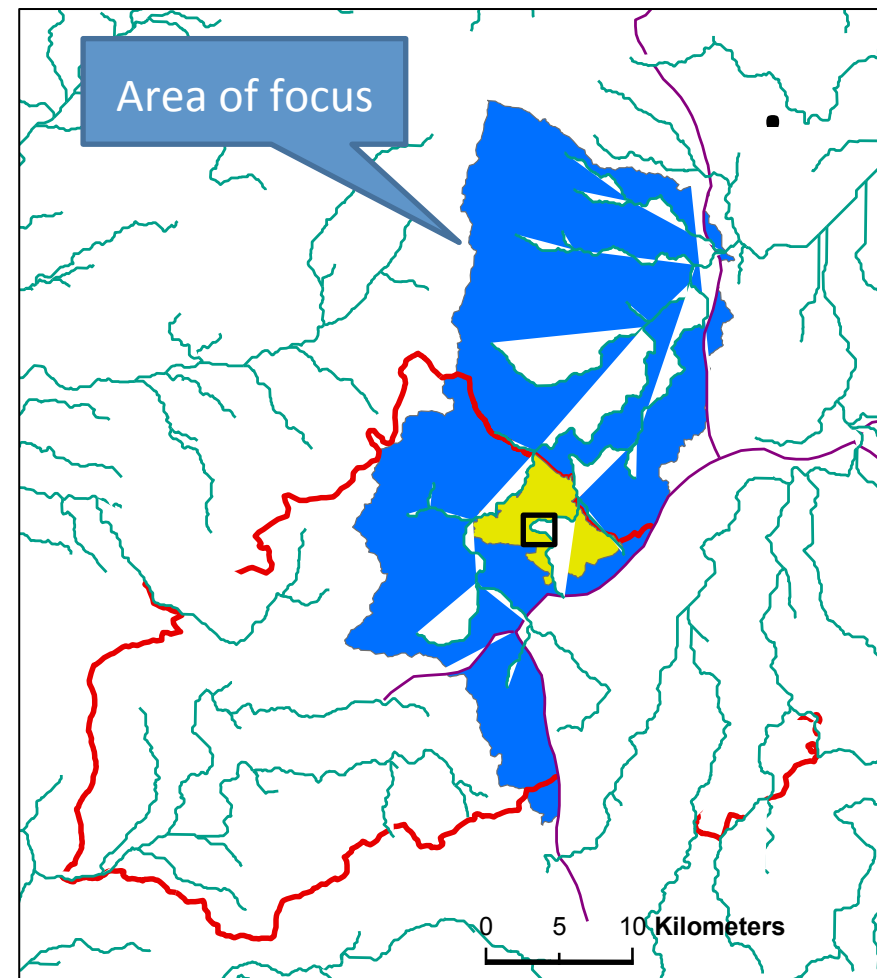
Need appropriate systems to support resource management at the local level



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

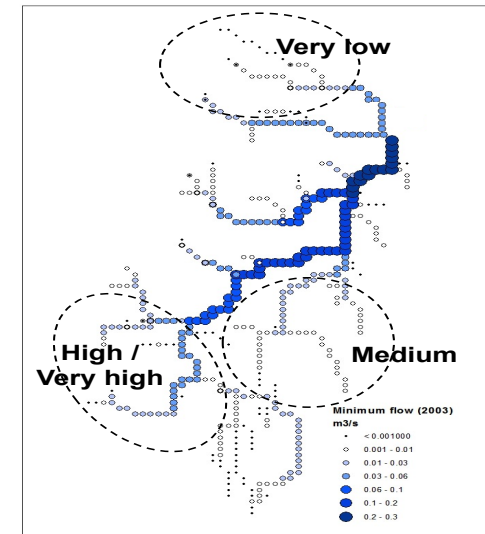


Dangila woreda,
Amhara Region, Ethiopia



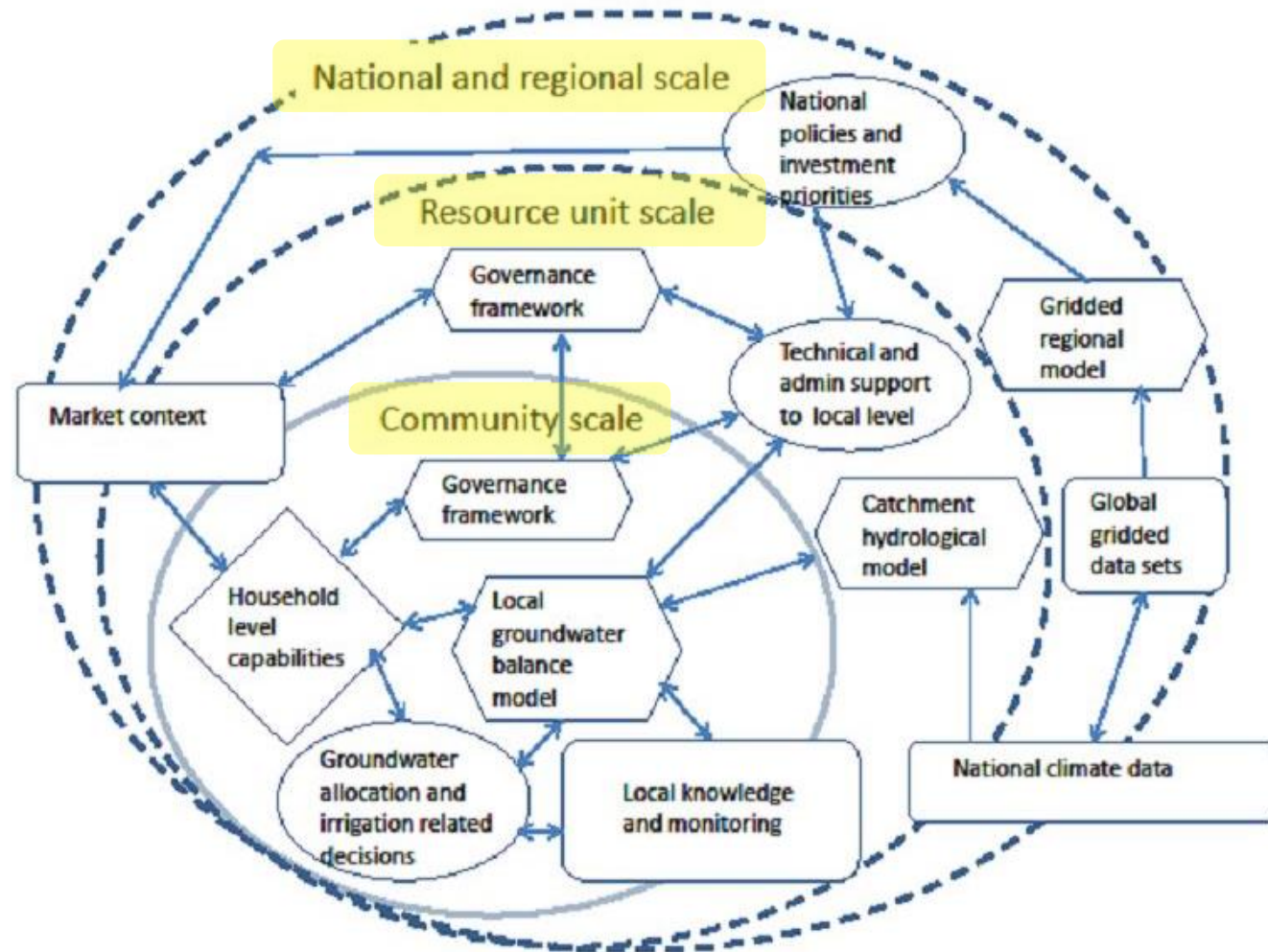


- Multi-scale analysis
- Multi-disciplinary
- Monitoring by community members
- Hydrologic modelling
- Social science studies





adaptive management of groundwater in Africa





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:

Water Research
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International Water
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