**Motivation:**
- National index insurance policies can protect millions of small-holder farmers across Africa.
- Proven strategies rely on customized visualization dashboards that empower farmers to design and assess policies that would be good for them.
- But rapidly building new interfaces is hard.

**Challenges:**
- Data in interface based on complex and dynamically changing SQL queries
- Complex data dependencies: a slider’s state is per-village; a dropdown sets the village.
- Want to record state of all user interactions to reproduce, analyze, & inform national policy design

**Previous interface for a single deployment in Ethiopia took 6 months due to these challenges.**

**Project:**
- Augment a new framework called Magic to manage data dependencies and recording state automatically
- Use the framework to rapidly develop new policy design interfaces

**Conclusion**
- Used the Magic framework to successfully generate an interactive dashboard, with defaults, state-saving by login, and data dependencies.

**Next Steps:**
- Develop interfaces for new deployments, such as in the Democratic Republic of the Congo
- Study reduction in development time