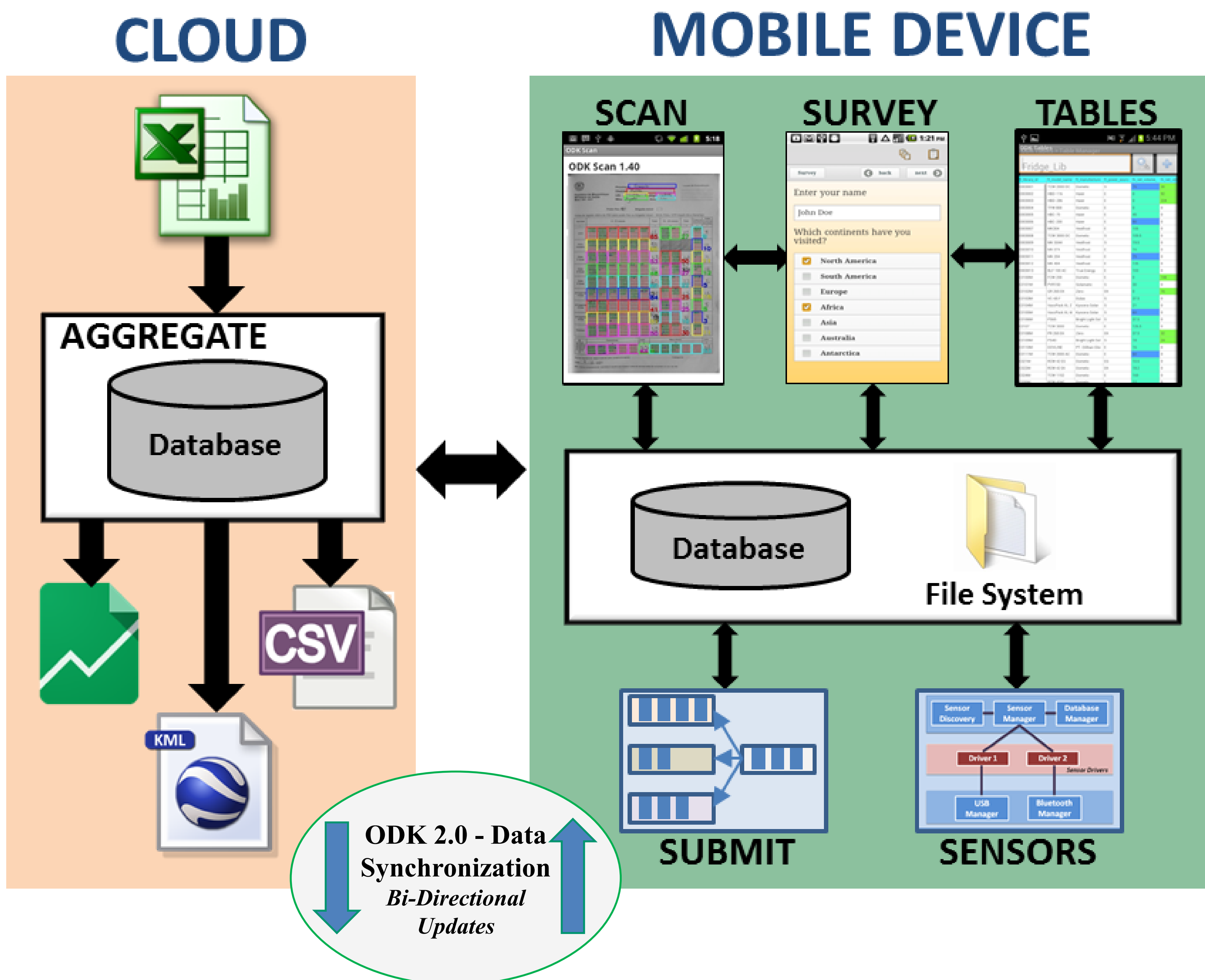


OPEN DATA KIT 2.0:

Expanding Information Services for Resource-Constrained Environments

Waylon Brunette, Richard Anderson, and the ODK Team

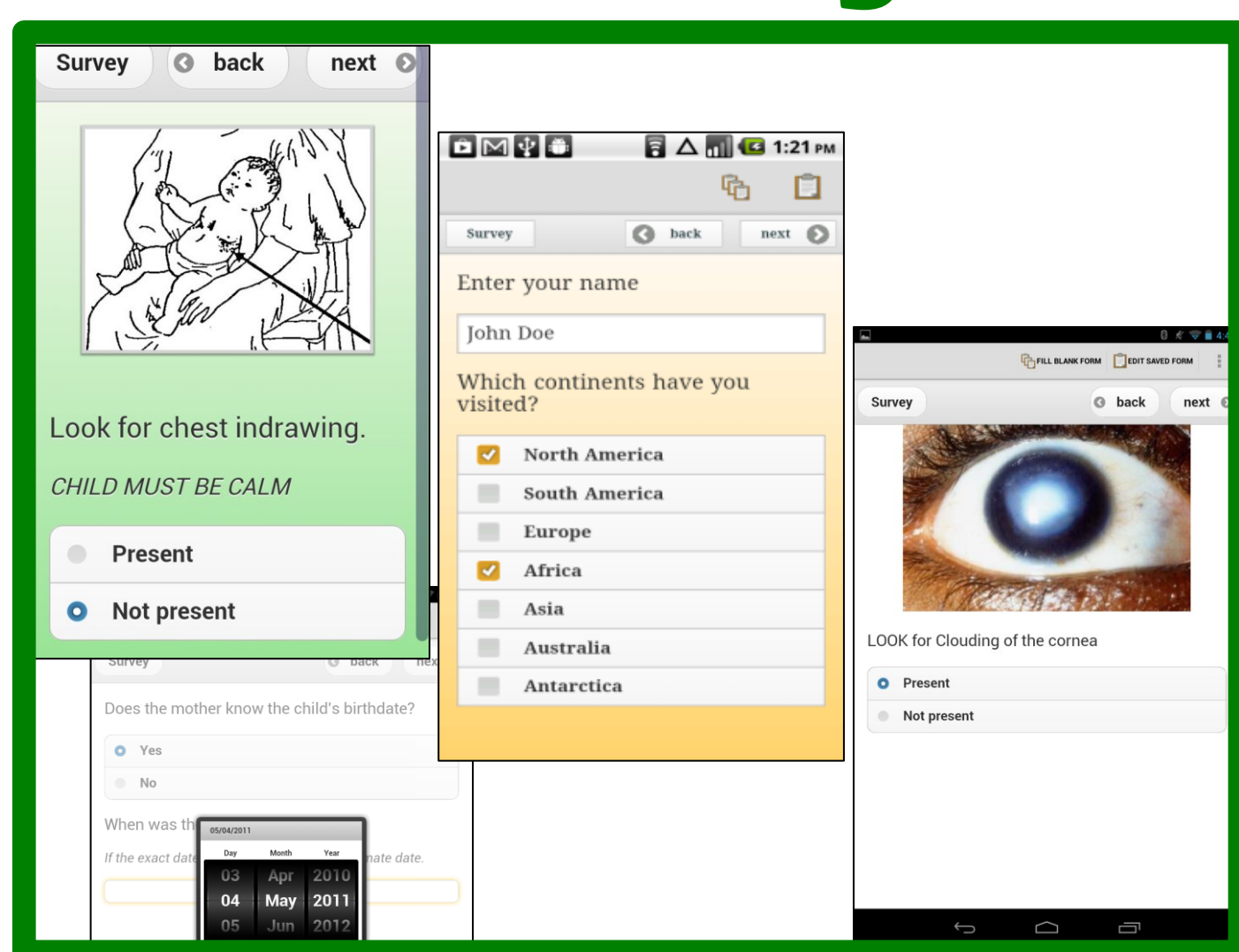
Open Data Kit (ODK) is an extensible, open-source suite of tools created to build information services for in resource-challenged environments with limited infrastructure. ODK tools are designed to be used together or independently and are supported by a community of developers and users. The ODK 2.0 tool suite was developed to offer an expanded feature set to users with more complex deployment requirements.



- **Improve data management on mobile device**
 - Better ability to modify previously collected data
 - Custom data views on mobile device (no PC)
- **Use a row as the basic data structure**
 - Flat data structures (eliminate xml)
 - Synchronize data between devices and cloud
 - Data should be easily exportable to common formats
- **Favor runtime languages**
 - ODK 1.x separated the business logic from the rendering Android app
 - However some organizations want to customize
 - Easier to deploy customizations (no recompiling)
 - Easier for users with limited programming experience
- **Increase diversity of input types**
 - Enable new data input methods from sensors
 - Reduce human data entry

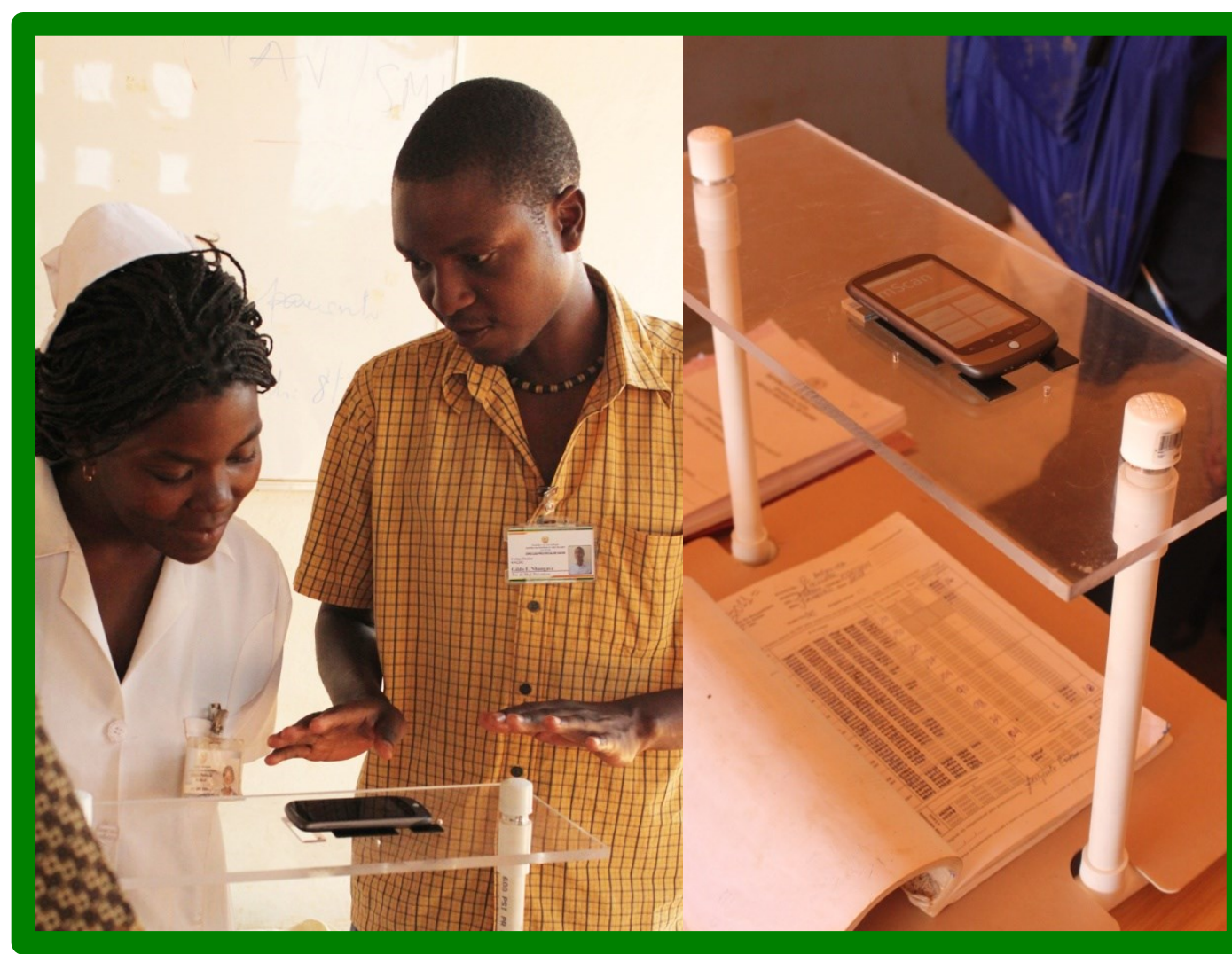


Survey



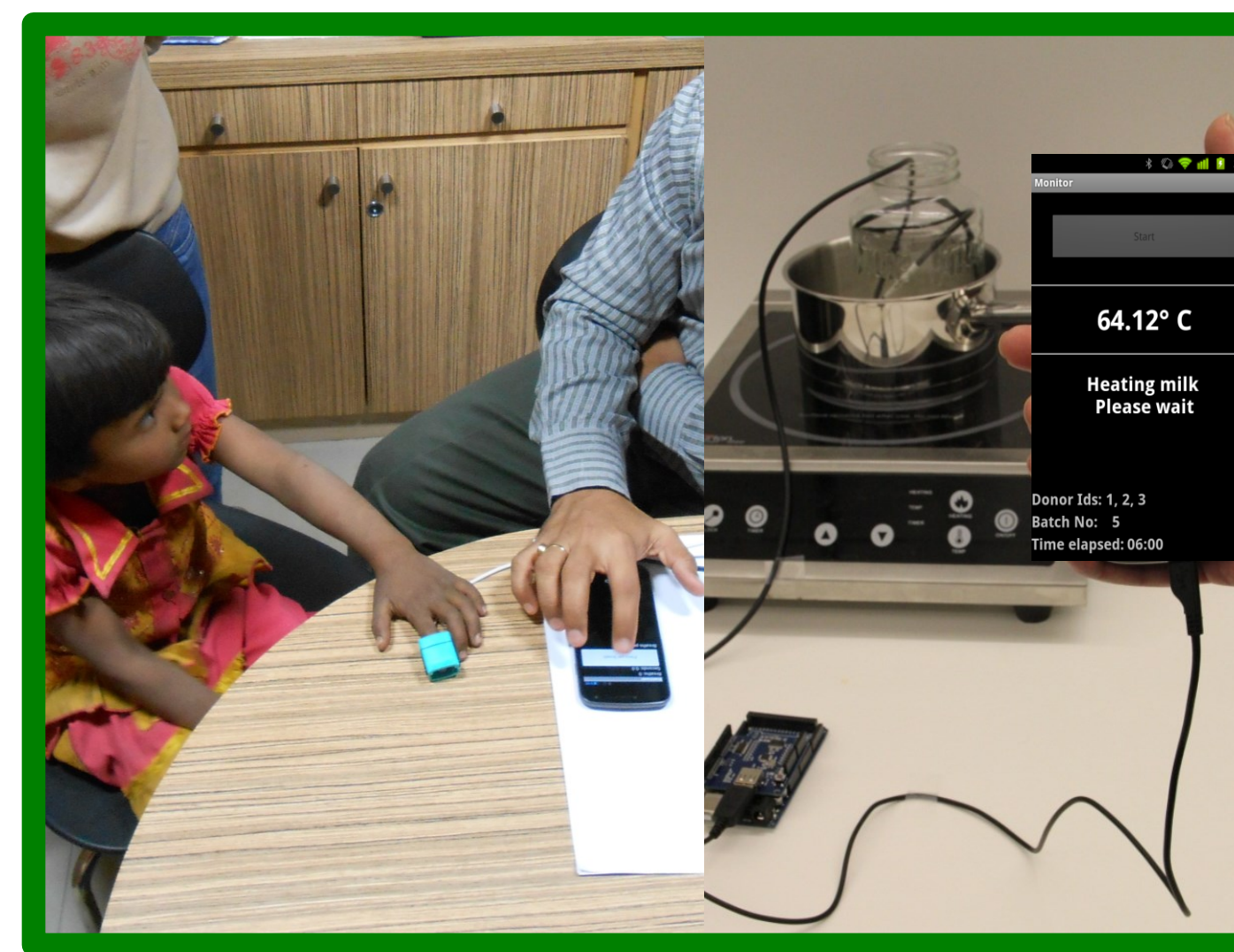
Survey renders application logic as prompts to user's to collect data and navigate complex workflows. Supports rich data types (e.g., photo, gps, barcodes) and external sensors.

Scan



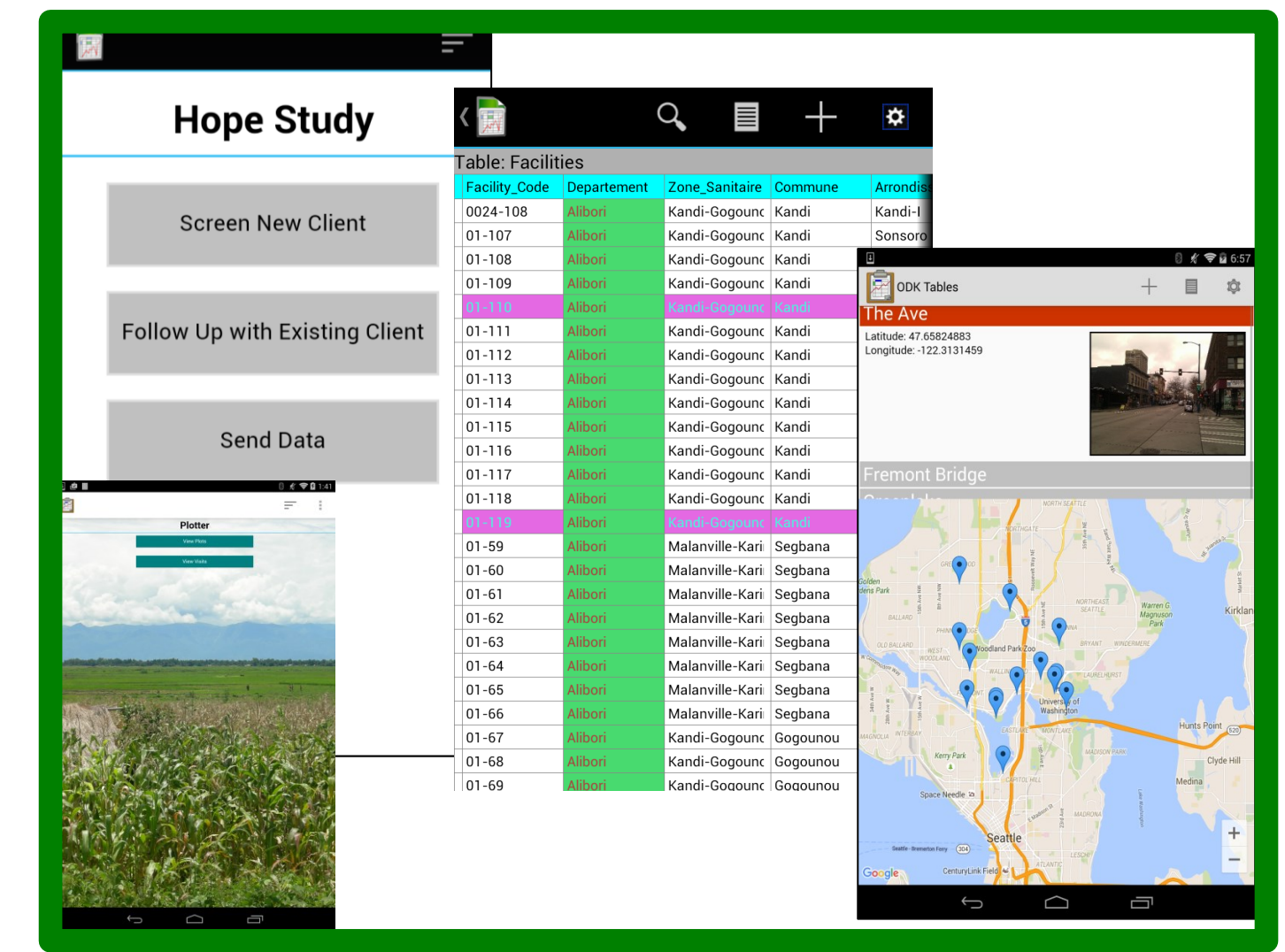
Scan enables users to digitize designable paper forms using computer vision (OMR) without requiring connectivity.

Sensors



Sensors provides a user-level driver framework to simplify attaching wired and wireless sensors to Android devices.

Tables



Tables enables users to view and curate the information stored in the database. Designed for deployments where workers often revisit previous pieces of information for updates.

STATUS: Monthly releases with ongoing pilot deployments

The ODK project aspires to magnify human resources through technology by creating a set of tools that are easy to use, easy to modify, and easy to scale.

