OPEN TALKS Data Science for International Cooperation: Good practices from the World 2021

Data for Development
Agriculture 2.0 – promoting a hi-tech approach to agricultural development in Zimbabwe
Technology vs Rural
What Data has been collected for the Project?

**Automated Data**
- Hourly Weather Data
- Hourly Irrigation Data
- 10 Day Spray Planner
- 10 Day Weather Forecast for region

**Manual Data**
- Soil Analysis Data
- Precipitation
- Temperature data
How is the Data collected?

**Manual Data**

- Soil Data is collected in the field through soil sampling for analysis in the Lab
- Precipitation and Temperature are recorded at Schools and selected points

**Automatic Data**

- Satellite imagery
- Automatic Weather stations
- Soil Moisture sensors
How is the Data collected?

Application Data

- Individual users searching and/or contributing
- Traders/input suppliers/buyers searching and/or contributing
- Companies/Market Traders
How is the Data conveyed to Stakeholders

01 **USSD**
Text or SMS based information. Basic information such as weather and irrigation forecasts.

02 **WEB BASED**
Simple and practical web based platform for easy access.

03 **MAIN APP**
In-depth and interactive information via multimedia platform
How is data conveyed to the Stakeholders

- All data presented online in a simple and practical format
- Data then used in various means and format

Important issues

- Educating and training of key stakeholders on the use of the equipment.
- Irrigation schemes utilise tablets
- District stakeholders access data
- In close liaison with the Weather and climate information centre (District level)
Training

Workshops
How do Farmers use the Data to improve production capacity?

- Applying the correct amount of water at the right time (huge water saving)
- Forecast on natural calamities that can damage crops in their vicinity e.g. frost, floods and wind
- Correct spray timing (efficacy in chemical efficiency)
- More crop for every drop
- Disease warnings
- Planting advice
- Insurance issues with contractors
- Global gap accredited for export potential