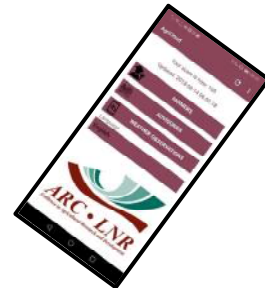


AgriCloud App



Prof Sue Walker

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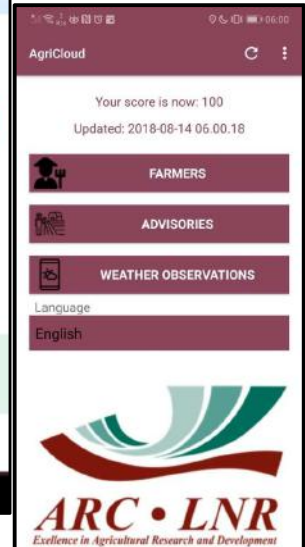
Rain for Africa (R4A) project developed

AgriCloud = a mobile phone 'Planting App'

- Addresses gaps in info relating weather to crop production
- AgriCloud App provides:
 - Planting advice
 - Spraying advice against pests and diseases
 - Collect current weather conditions by crowdsourcing.
- Farmers only need info for their own farm
 - Register with precise location on map
- Based on scientific information and weather forecasts from ECMWF using climate grid data from ARC-ISCW & SAWS & rainfall from NASA.
- Delivered via cellular telephone:
 - For smart phone – use "AgriCloud" from Google Play Store
 - For simple phone – use interactive "USSD" *134*8383#



- Download from Google App Store
- Search and install:
- “AgriCloud”



3

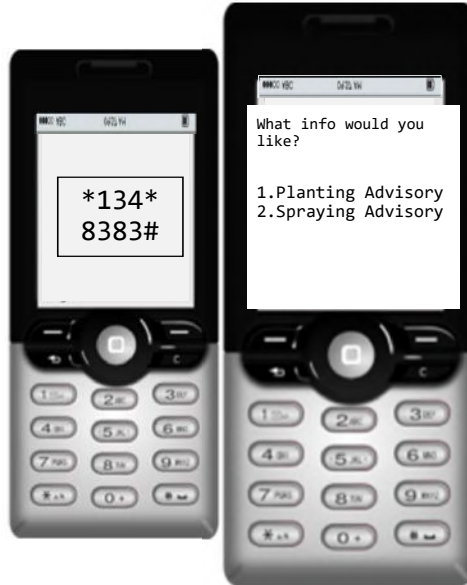


4

AgriCloud USSD to get Planting and Spraying info

Use *134*8383#

- Press call button
- Wait for reply
- Register with Tel# & town
- Follow instructions
- Choose advisory & send
 - 1=planting
 - 1=disease control
 - 2=weed control
 - 2=spraying
- Wait for sms to receive information for your area



Example of output for info about spraying for weeds

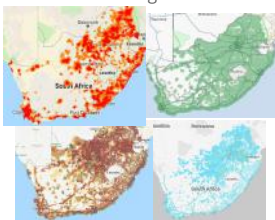


Mobile phone information services



Coverage

Large numbers of South African farmers have access to a phone & signal



Localised

Information is provided precisely for farm location



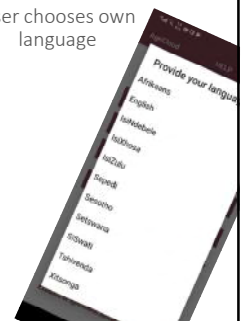
Timely

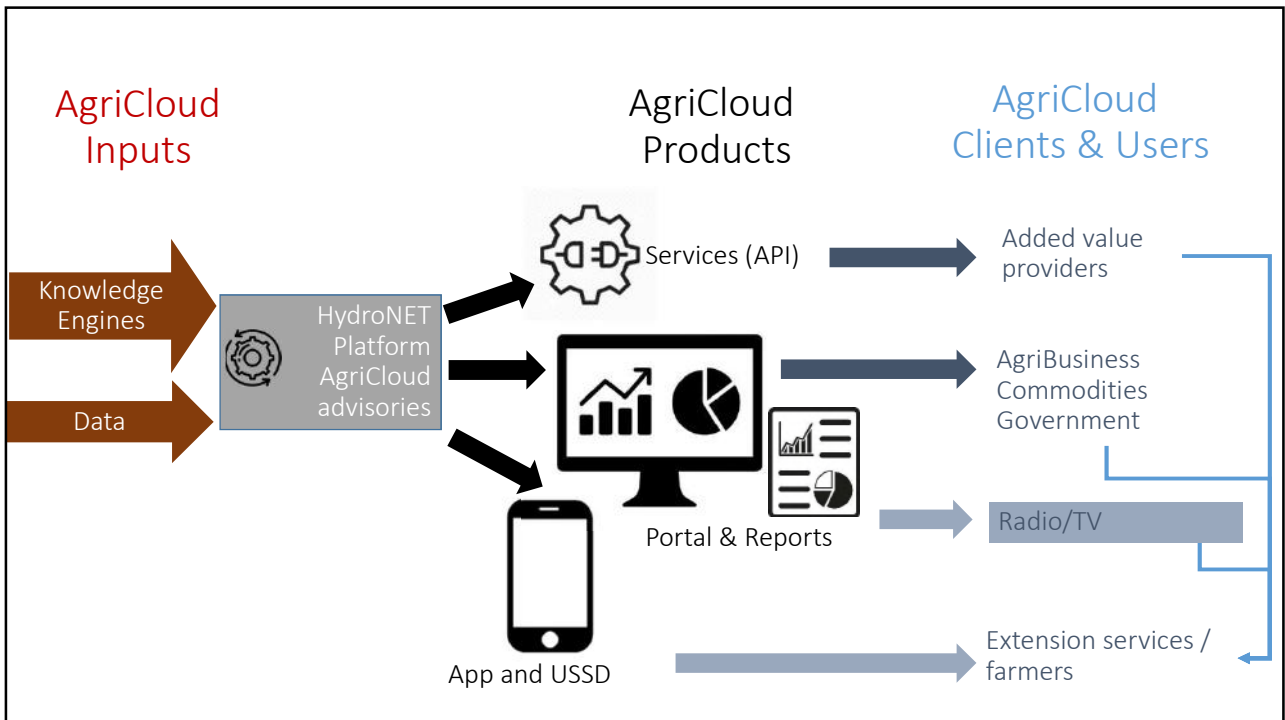
Information reaches farmer immediately



Local language

User chooses own language





7

New Additions

Wheat cultivar choice advisory (for seed purchase available Nov 2019)

- According to farm location using last 5 years information from ARC-SG cultivar trials to group cultivars according to yield potential.
- Details of yields, protein content, hectolitre mass, Thousand kernel mass, Disease resistance or susceptibility etc

Heat Stress for cattle & poultry

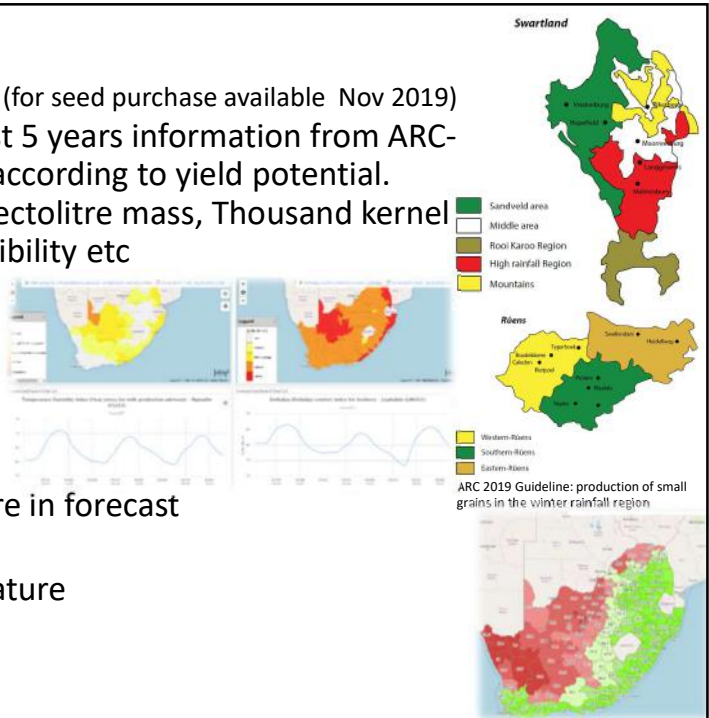
- Use temperature & humidity

Bee hive management

- According to maximum temperature in forecast

Heat units for crops

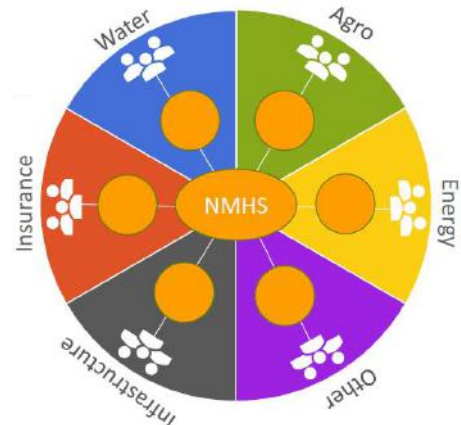
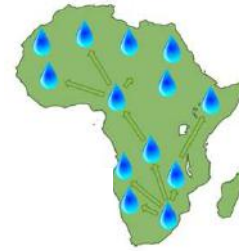
- According to daily average temperature and planting dates



8

Upscaling to Africa via NMHSs

- Success story for SAWS & ARC
- Co-design business case for weather and climate services with NMHS
- Make Water - Energy - Food Nexus calculations possible
- Dove-tails with other projects in West Africa

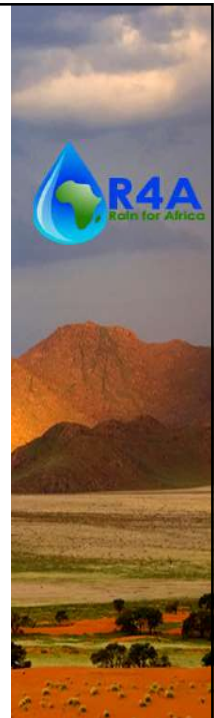


9

Unique aspects of “AgriCloud” mobile App

- For both Smart and Simple phones
- Available in 11 South African languages
 - English, IsiNdebele, IsiXhosa, IsiZulu, Sepedi, Sesotho, Setswana, SiSwati, Tshivenda, Xitsonga, Afrikaans
- Advice updated everyday
- Crop specific information – expanding each season
- Crowd-sourcing collection of weather observations
- Modular system to easily add new advisories
- For further information or possible combined projects fro other countries or regions contact:

WalkerS@arc.agric.za



10

Other Useful NEW Apps – from Google Play Store

- ARC-Hub: agricultural production info for South Africa



- WeatherSmart: SAWS weather forecasts for South Africa



- “AgriCloud” for farm specific advisories



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Sue: WalkerS@arc.agric.za