



Innovations for food security

Research & Policy: two peas in a pod? A dialogue for food security impact

1 December 2017, The Hague



Session programme

- Introduction Innovations in food security
- Pitches by ARF & GCP projects
- World Café - table discussions
- Plenary exchange of actions
- Wrap-up and follow-up



Introduction

Innovations in Food Security

Worlali Senyo – Famerline



ARF & GCP pitches

- ARF “Water And Weather Monitoring Services in Ghana's Cocoa region: Innovative weather censoring and information services for local farmers” – Ellen van Andel (TU Delft)
- ARF “Safe and accessible greenhouse production of (fruit) vegetables in Ghana” - Tycho Vermeulen (Safi Sana)
- ARF “Ground cover app to drive an irrigation scheduling service in the delta region of Bangladesh” – Shahid Uddin Akbar (BIID)



- ARF “Safe and accessible greenhouse production of (fruit) vegetables in Ghana” - Tycho Vermeulen (Safi Sana)

Safe and accessible greenhouse production of (fruit) vegetables in Ghana (Fresh Green Ghana)

The theory of change

- Independent data collection and analysis
 - Peer-to-peer learning and expert input
 - Applied research on farms
 - Collective decision making on the relevant research questions and trials
-
- Connection with the challenges in post-harvest supply chain control
-
- 4 greenhouses
 - Larger second circle of growers
 - Interaction with 'market queens' and other stakeholders in the greenhouse supply chain.



- ARF “Ground cover app to drive an irrigation scheduling service in the delta region of Bangladesh” – Shahid Uddin Akbar (BIID)



Ground cover app to drive an irrigation scheduling service in the delta region of Bangladesh



Bangladesh Institute of ICT in Development (BIID)

www.biid.org.bd



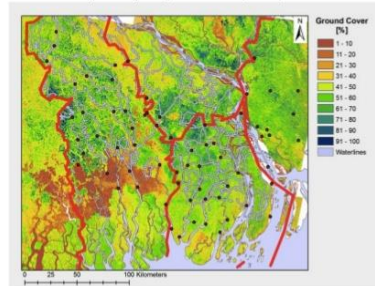
The Aim of the Project



Surface water based irrigation in the delta region opens up new opportunities for sustainable intensification by enabling the production of a high yielding crop.

Surface water irrigation to hedge risk

- Location and quantification of low intensity dry season land (following Maas and Rajan 2008)
- < 40% ground cover: Approximately 180,000 ha
- After surface water buffering: ~ 83,000 ha
- Surface water salinity sampling stations (dots)



The Objective



To optimize water resource management by enabling farmers to obtain field-specific irrigation advice, which when mobilized, will in turn will increase food production and food security.





The Policy Goal



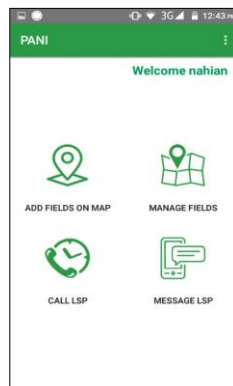
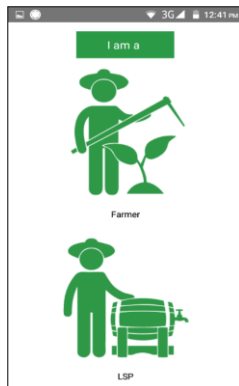
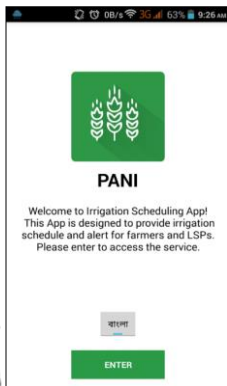
Increased sustainable agricultural production; and Improved access to better nutrition



The Tools and Methods



Developing an irrigation scheduling apps through validation and calibration of the new system and proper training of potential users, including women and illiterate farmers

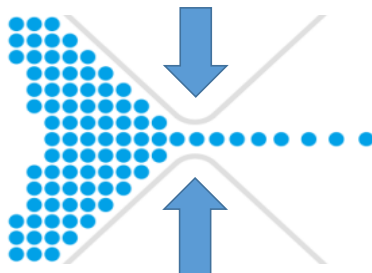




Major Bottlenecks



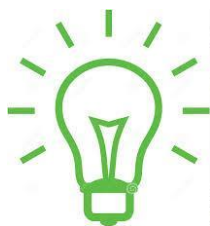
1. Adoption and Sustainability
(Institutionalization, Focus and Process)



2. Resource (Addressing the HUGE problem need bigger initiative)



Way Forward



The 3 R Model
(Research, Reach and Return)



**Developing an inclusive business model to
scale up the service and ensure
sustainability**





Thank You

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***Safe and accessible greenhouse
production of (fruit) vegetables
in Ghana (Fresh Green Ghana)***



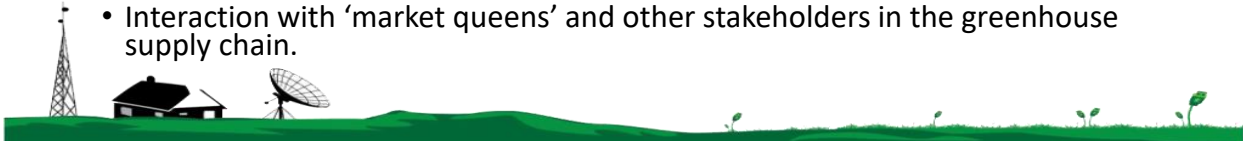
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World Café

One concept note statement / dilemma is discussed per table:

Round 1: What does this dilemma mean to you? (20min)

Round 2: What is the role of policy in this? Is change needed? (20min)

Round 3: What can you (as individual or within your organisation) do to contribute to this change? (20min)



Exchange of Actions

Round 4: What will you (as individual or within your organisation) do (differently) to contribute to this change?

> Post-it on the flipchart



Wrap up & Follow-up

How will the research – policy dialogue on Innovations be taken forward?