

Research Toward Impact:

How Innovation Labs are designed with
impactful outcomes in mind

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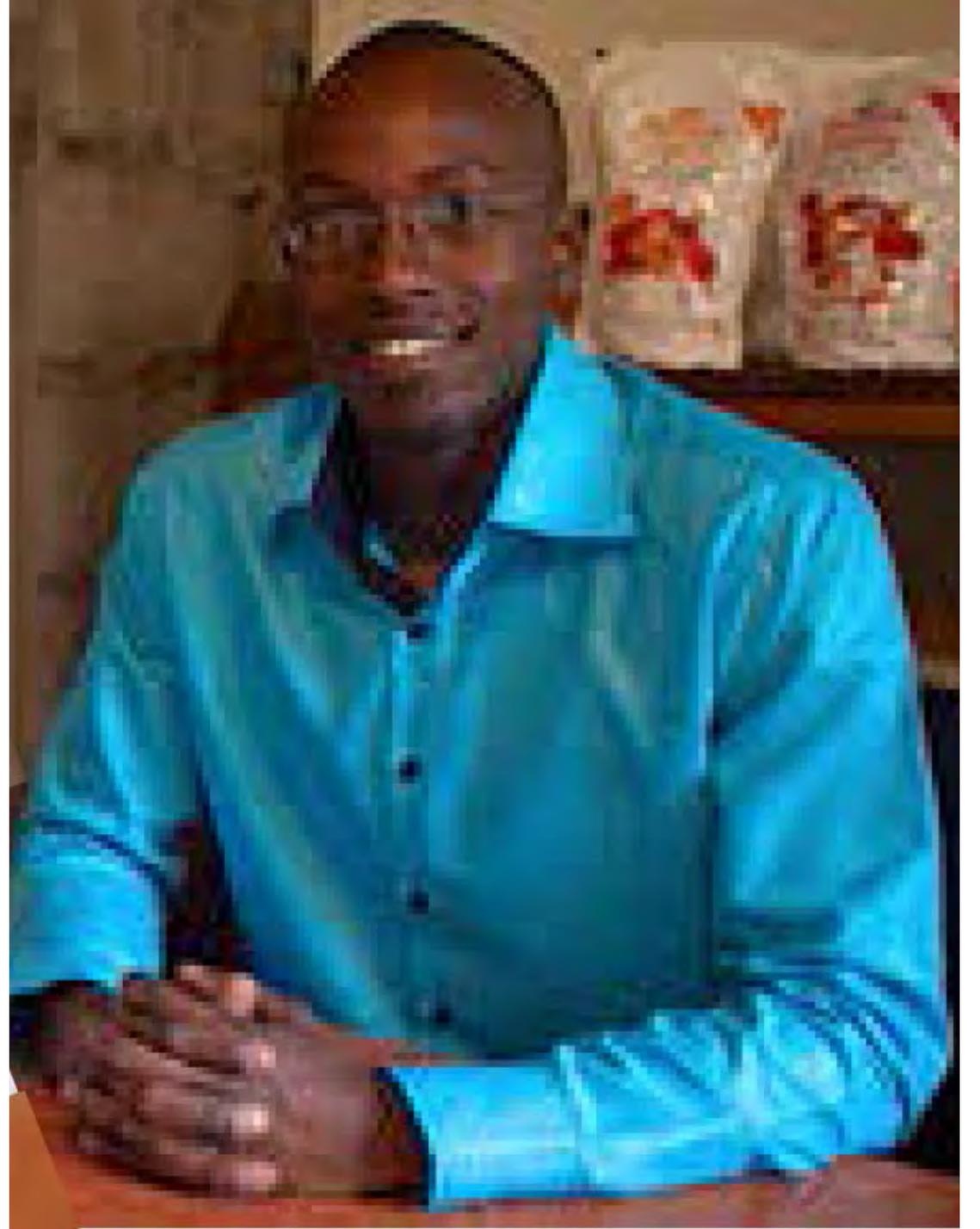












High yielding climate resilient cowpeas

Mobile App for soil fertility management

Index based insurance

Hermetic storage



Fundamental Research

Adaptation

**Pilot scale testing/
technology transfer**

Scaling up

Impact



New castle disease resistant chickens

Mobile based cess payment system

Dry blanching technique

Trichoderma

$$\text{Impact} = f(\text{A} \times \text{B})$$

- Two key parameters determine ‘impacts’ of research
 - Adoption (A) -- the **use and uptake** of research outputs
 - Effect size (B) -- the **benefit** per unit of adoption of a research output in relation to an existing practice / technology
- Larger the values of these two parameters (A and B), larger will be the ‘impact’
- If zero or low effect size (benefit) per unit of adoption → No adoption → No impact

Research towards impact:

1. Ensuring a positive Effect Size (B)

Requires:

- **Good science** embedded in the research output (i.e., the breakthroughs, the inventions and discoveries, etc.)
- **Performance at the end-user level** (i.e., socio-economic conditions, and policy environment, etc.)
- Relative to existing or alternative practice / technology available to them (**the counterfactual**)

How? (Metrics)



- On-farm trials
- Efficacy studies
- Randomized controlled trials
- Pilot studies

Research towards impact:

2. Ensuring large scale adoption (A)

Requires

- Awareness
- Access
- Availability
- Affordability
- Demand



How?

- Conferences, policy forums
- Sensitization and learning events
- Partnerships
- Innovative (and low-cost) methods for extending technologies
- Communication

Research

Partnerships

+
= Impact

Universities,
NARS, IARCs,
private sector

Government,
NGOs, private
sector, farmer
organizations,
entrepreneurs,
consumer groups



Research

Adaptation

Pilot scale testing

Scaling up

Impact

Discovery
(B)

Dissemination
(A)

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Thank you

