



# Africa RISING phase 2 monitoring and evaluation framework

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# Overview

1. Summary of Phase I achievements
2. Phase I challenges and lessons learned
3. M&E for Phase II: monitoring
4. M&E for Phase II: evaluation
5. Conclusions



## 1. Summary of Phase I achievements/1

- Project Mapping and Monitoring Tool (**PMMT**): two rounds of in-country trainings (70+ researchers and 3 rounds of FtF data reporting)
- **AR data management** and accompanying tools in **CKAN** (with ILRI) (65 uploads so far) 
- Africa RISING Baseline Evaluation Surveys (**ARBES**):
  - Quasi-experimental design; 5 countries; 4,510 hhs; 81 program and 76 control villages
  - 30+ *program* beneficiaries/requestors of ARBES data (+ hundreds downloads)



## 1. Summary of Phase I achievements/2

- ARBES survey reports (comparable snapshots of farming systems/livelihoods in 5 countries)
- ARBES-based household typologies
- ARBES-based research studies
  - MWI and TZA: Targeting, bias, and expected impact
  - MWI and GHA: Nexus between production diversity and dietary diversity
  - MWI: Economic, risk, and labor effects of different legume and fertilizer practices
  - TZA: Determinants of technology “adoption”, willingness to pay for improved technologies
- Phase II targeting exercise




## 2. Phase I challenges and lessons learned

- Staffing → local M&E coordinator/s
  - data managers to be hired locally
- Timing and scale of ARBES → reduced scope of mid-line surveys and better coordination with AR researchers (through the local coordinator/s)
- Communication of research findings and main M&E activities
  - better coordination with comm. team
- Need of monitoring SI indicators → template
- Need of data interoperability → BTS/BTTT
- Need of a beneficiary tracking tool → BTTT



### 3. M&E for Phase II: monitoring/1

- **FtF indicators:** Continuous updates/supervision to the PMMT for uploading onto the FtFMS
- **Beneficiary and Technology Tracking Tool (BTTT):** cataloguing of AR innovations and beneficiaries
  - Offline excel-based tool with unique household ID!
  - Tracking beneficiary households and technologies
  - Audio tutorial here: 
- **M&E data guide and tools:** guideline for monitoring data needs (type, frequency, responsibilities, etc.)
  - Inputs, outputs, outcomes, and contextual factors (e.g., prices)



### 3. M&E for Phase II: monitoring/2

- **AR data supervision** (jointly with ILRI-managed CKAN):
  - Confidential data
  - Embargo period monitoring system
- **(Refresher) trainings:** PMMT, CKAN, BTTT, etc.
- **Cataloguing** of AR technologies and practices
- **Data monitoring** (through data managers)
- ***SI indicators: identification of relevant SIIF indicators and data collection tools (jointly with AR researchers)***



### ***3. M&E for Phase II: monitoring/3***

- ***SI indicators: to be guided by MSU/Columbia U's sustainable intensification indicators framework (SIIF)***
  - *Provides guidelines on how data may be collected to construct SI indicators and monitor progress (productivity, economic, environment, social and human domains at farm-, hh-, landscape-, or admin-level)*
  - *Use of SIIF is the responsibility of AR researchers (including indicator selection, data collection, etc.)*
  - *SI data to be reported to Chief Scientists*





## 4. M&E for Phase II: evaluation/1

- **Characterization:** AR households, farming systems, typologies, livelihoods
- **Ex-ante evaluation:**
  - Integrated crop and bio-economic modelling
  - APSIM (with ICRISAT), DSSAT, DAHBSIM (with IAMM)
- **Ex-post evaluation:** agro-economic effects
  - Quasi-experimental evaluation design
  - Correlates of AR technology adoption and agro-economic evaluation
  - Cross-sectional and panel data analysis
- **Comparative analysis:** returns and risks with AR technologies (TZA and MWI)



## 4. M&E for Phase II: evaluation/2

- **Targeted case studies:** willingness to pay, risk rationing, access to credit and risk-contingent credit, adoption (TZA)
- **AR technology diffusion and scale-up:** effects of technologies upon scaling up within the FTF Zol?
- **AR Midline Evaluation Surveys (ARMES):**

Country	Scope	IFPRI baseline	IFPRI midline
Malawi	450 AR hh, 26 AR villages + more	Aug - Oct, 2013	Aug - Oct, 2017
Tanzania	126 AR hh, 11 AR villages + more	Feb - Mar, 2014	Feb - Mar, 2018
Zambia		None	TBD



## 5. Conclusions

- Decentralized monitoring
- Stronger presence in the field
- BTS/BTTT set-up and monitoring
- Continued supervision of PMMT, CKAN
- M&E data guide and tools
- (Refresher) training for PMMT, CKAN, BTTT
- Cataloguing of AR innovations
- ARMES
- Ex-ante and ex-post evaluation
- Targeted case studies and research activities



# Acknowledgements





# Thank You

*Africa Research in Sustainable Intensification for the Next Generation*

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