



#### Making credit work for smallholder farmers Policy insights from randomized evaluations

Becca Toole, Senior Policy Associate | J-PAL / ATAI / MIT

July 27, 2018



#### Intro to J-PAL and ATAI

J-PAL is a global research center anchored by a network of over 160 professors who conduct randomized evaluations to inform policy



J-PAL | ATAI

### J-PAL's mission is to reduce poverty by ensuring that policy is informed by scientific evidence



### acai AGRICULTURAL TECHNOLOGY ADOPTION INITIATIVE

- Co-managed with Center for Effective Global Action (CEGA) at UC Berkeley
- Mobilized the research community:
  - Funded 51 projects in 17 countries in South Asia and Africa since 2009
  - +100 researchers (nearly half had no previous agricultural research)
- **Policy outreach**: emerging insights briefs, matchmaking, customized trainings, evidence dissemination events
- **Scaling ongoing**: flood-tolerant rice, collateralized loans for watertanks, mobile-based extension, harvest-time storage loans

www.atai-research.org



### Developing research and policy partners

ATAI researchers have worked with over 50 partners on evaluations



### We conduct randomized evaluations to test the effectiveness of programs aimed at reducing poverty

Before the program starts, eligible individuals are randomly assigned to two groups so that they are statistically identical before the program.



## Policy insights from rigorous evaluations of credit for smallholder farmers



# Traditional microcredit has had limited impact in agricultural settings

Few farmers take up and use traditional microcredit

- Low take-up
  - Morocco: 17%
  - Mali: 21%
  - Sierra Leone: 25%
  - Malawi: 33%
- Not well suited to agriculture
  - Quick repayment
  - Group liability





### harvest-time storage loans (One Acre Fund)

Providing timely access to credit allowed farmers in Kenya to purchase at lower prices and sell at higher prices, increasing farm profits and generating a return on investment of 28%

Problem		Activities	Outcomes	Impact
Farmers face lumpy income, a lack of cash leads them to sell at low prices	Storage facilities	Farmers take out loans (to be repaid 9 months later)	Farmers use loans to finance current consumption or investment	Higher profits
	Loans offered immediately after harvest			Increased investment
		Stored grain serves as collateral	Farmers sell later at higher prices	

#### Burke et al. 2018

### Replicating harvest-time storage loans in Indonesia

- J-PAL Southeast Asia with support from J-PAL Global is currently advising the Government of Indonesia
  - Interested in boosting profits in agriculture sector among maize farmers in eastern Indonesia
  - Building on / tweaking existing Warehouse Receipt Scheme
- Collecting descriptive information in Indonesia and implementation details from original implementer now





### Key Resources for Evidence

- <u>ATAI website</u>
- J-PAL evaluation database
- J-PAL policy insights
- J-PAL policy briefs
- IPA evaluation database
- <u>3ie Evidence Gap Maps</u>
- <u>Givewell Intervention</u>
  <u>Effectiveness Reports</u>
- <u>Campbell Systematic Reviews</u>

- For doing research:
  - IADB's Evaluation Hub
  - J-PAL research resources
  - IPA Goldilocks Right-Fit Toolkit

### Thank you!

atai@povertyactionlab.org