

A photograph of a smiling woman with a black headband and a red top, holding a young child in a red and black striped shirt. They are standing in a dry, open field under a cloudy sky. A semi-transparent grey box is overlaid on the image, containing the text.

**Micro-Irrigation Experience in Ethiopia**  
**Presented on NASA-GHA Meeting**  
**August 12, 2014**  
**Addis Ababa, Ethiopia**

# About iDE

- International NGO
- Founded in 1981 by Dr. Paul Polak
- Pioneered a market-based approach to smallholder farmers' *Wealth Creation*
- Comprises an IDE umbrella organization (Secretariat) and 2 NIOs (IDE-Canada & IDE-UK)
- Works in Asia, Africa & Latin America



# iDE Ethiopia

- Started in 2007
- Working in 4 regions with multiple projects
- Has 4 core thematic focus areas

**IRP:**  
Innovation for Rural Prosperity  
(4 woredas)

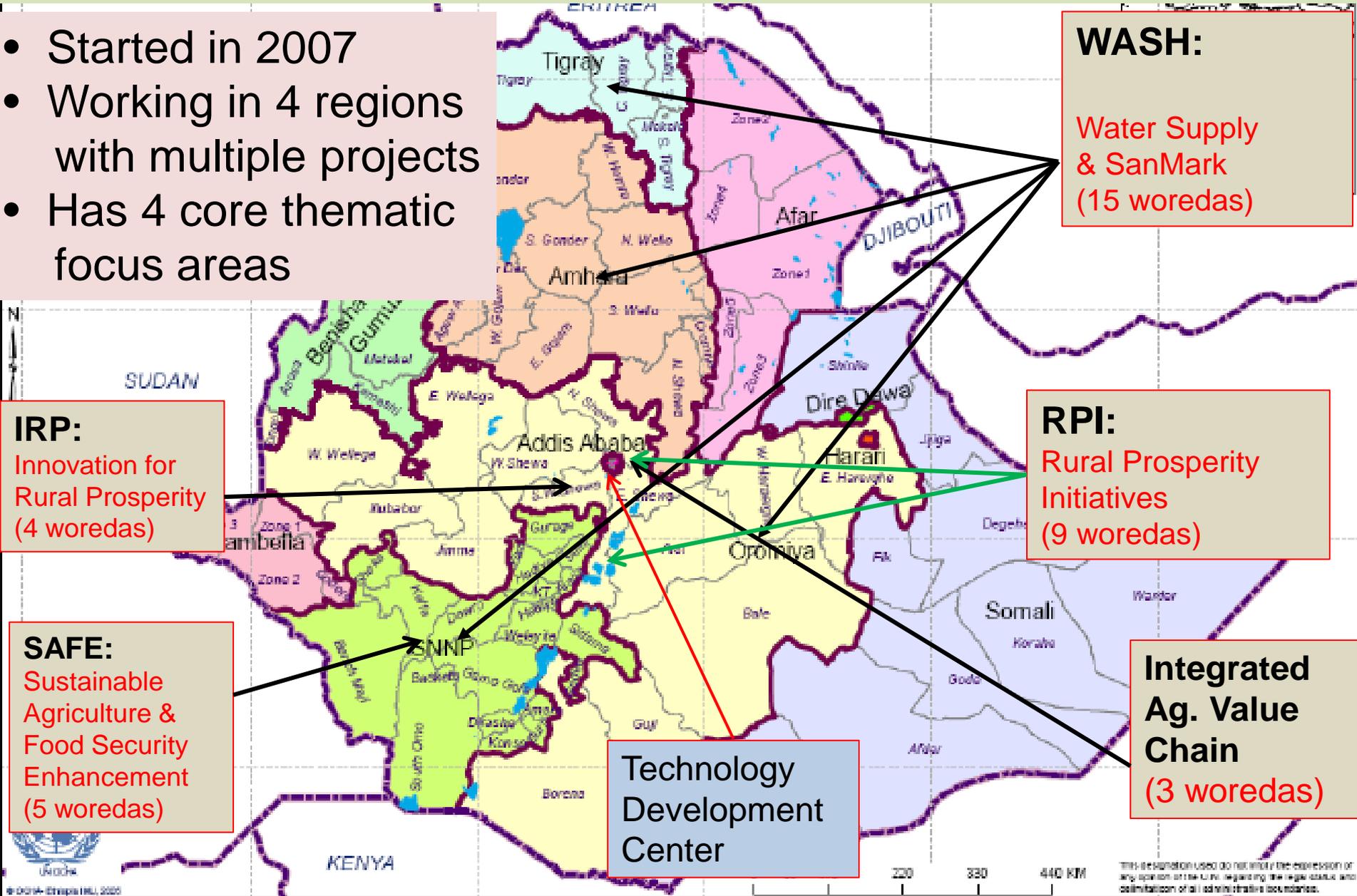
**SAFE:**  
Sustainable Agriculture & Food Security Enhancement  
(5 woredas)

**WASH:**  
Water Supply & SanMark  
(15 woredas)

**RPI:**  
Rural Prosperity Initiatives  
(9 woredas)

**Integrated Ag. Value Chain**  
(3 woredas)

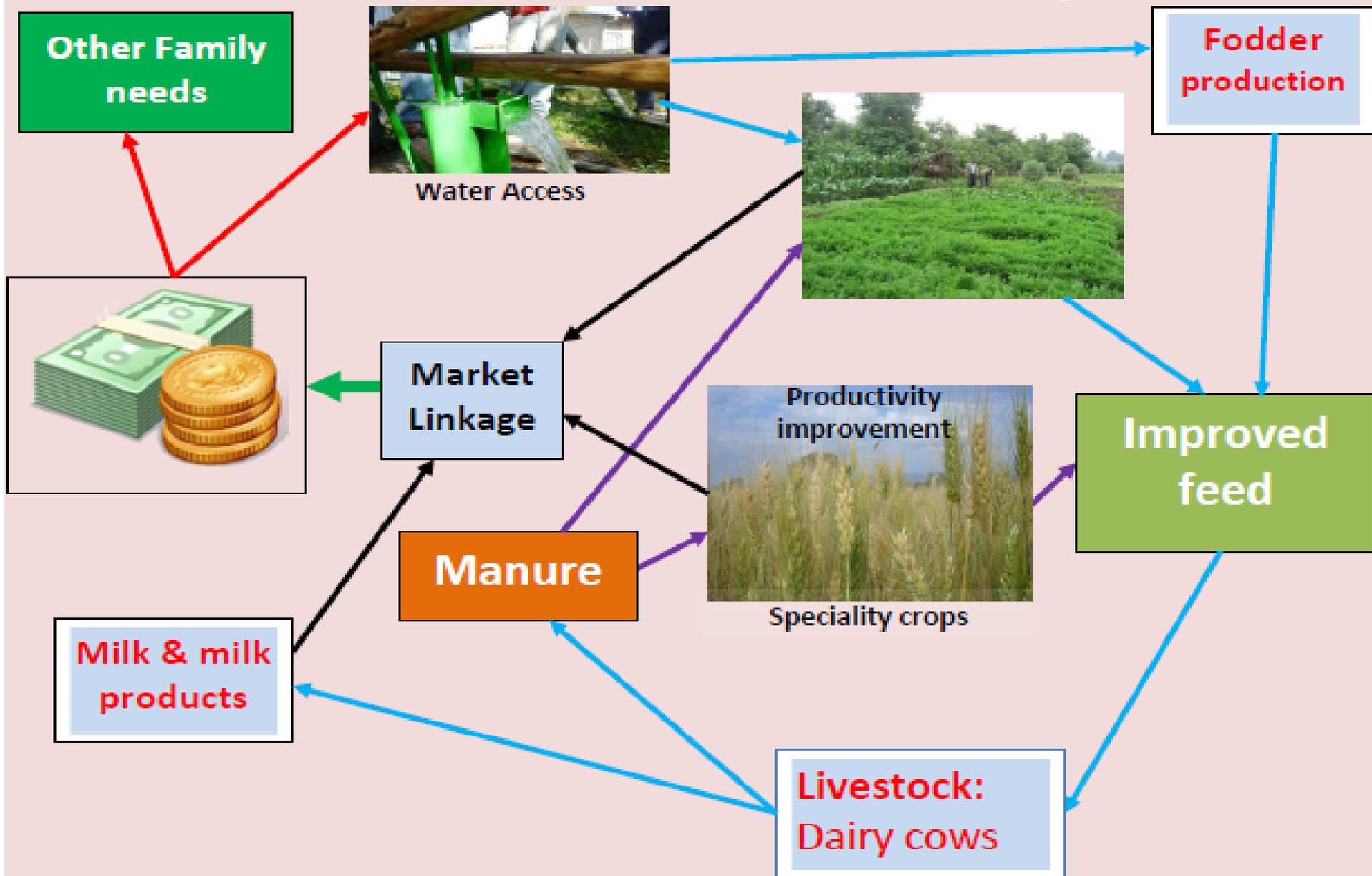
Technology Development Center



# Challenges to the poor rural people

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- A man in a white shirt and blue pants is using a hoe to till the soil in a rural field. The background shows a lush green landscape with trees and a fence. The text is overlaid on a semi-transparent dark grey box.
- Reliance on subsistence farming & lack of alternative livelihood opportunities
  - Lack of access to agricultural technologies and inputs = Low productivity
  - Rainfall variability & recurrent drought (poor farmers the first victims of climate change)
  - Lack of access to finance
  - Rapid population growth and pressure on scarce resources (land, water, forest)

# Addressing the challenges through water-crop-livestock value chain integration



**iDE's Low-cost  
Water access & control  
technologies**



# Pressure Treadle Pump



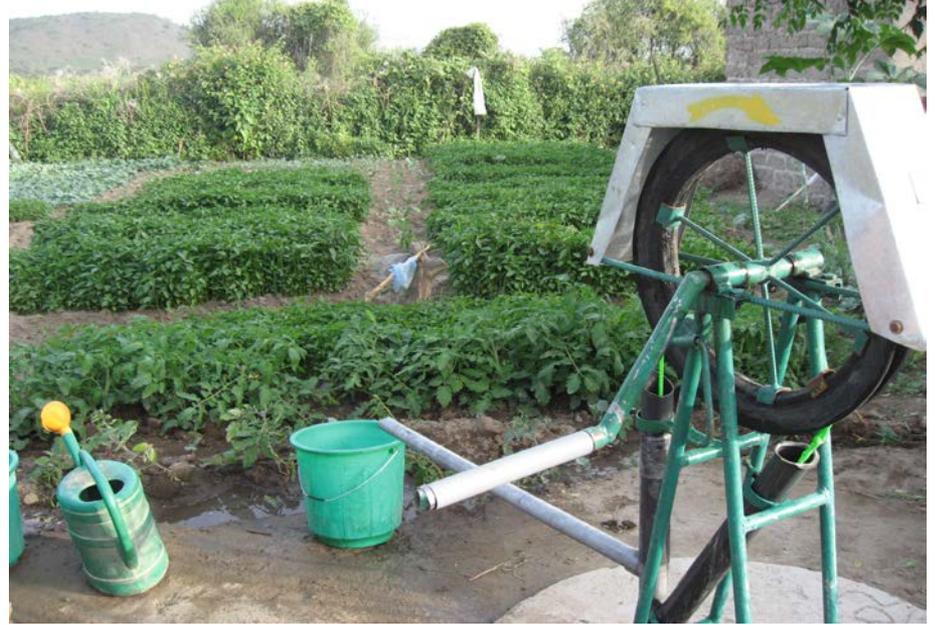
# Suction-only Treadle Pump



# River Pump



# Rope & Washer Pump



# Canal & Drip Irrigation



# Rainwater Harvesting: insitu conservation



# SUPPLY CHAIN DEVELOPMENT

- MANUFACTURERS TRAINING
- WHOLESALE /WAREHOUSE
- RETAIL
- INSTALLERS
- ACCESS TO FINANCE



- DEMONSTRATIONS
- MEDIA
- CMF

# MARKET ACCESS: HIGH VALUE CROP PRODUCTION



# Market access – facilitating the Linkages

Marketing groups & cooperatives

Collection centers /retail shops (pictures)

Direct linkages with commercial enterprises & institutions (traders, wholesalers, processors, hotels, universities, hospitals and supermarkets)

Market information

Contract farming

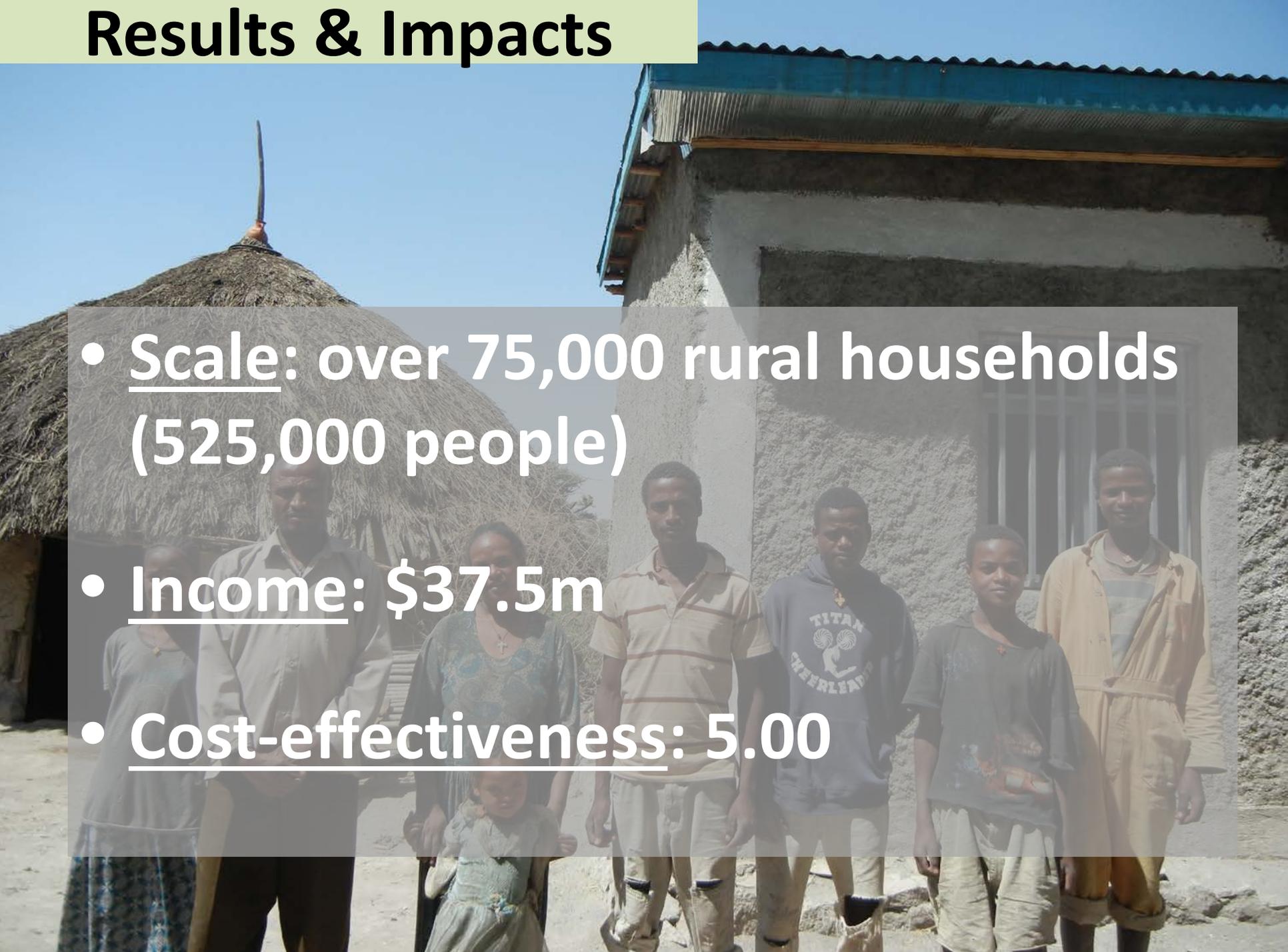
**(Constraints:** information, transport, mistrust between producers & traders/business people, not honoring contracts.....)



*Creates Income & Livelihood Opportunities for Poor Rural Households*

# Results & Impacts

- Scale: over 75,000 rural households (525,000 people)
- Income: \$37.5m
- Cost-effectiveness: 5.00



# Results and Impacts cont'd (case studies)



# THANK YOU!!!

