



**Innovation Commission:**

Climate Change

Food Security

Agriculture

# Investing in Innovation for Climate Change, Food Security, and Agriculture

IX Programa Mujeres Líderes

Iberoamericanas

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# Scaling innovations is not trivial

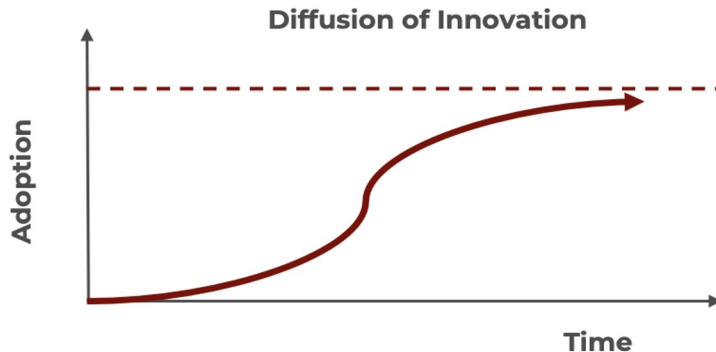
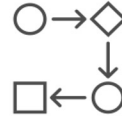
Basic science



Piloting



Scaling



## Challenges

- Failed diffusion
- Slow scaling
- Not reaching critical mass

# Priority innovation areas

## Selection principles

1. Applications to areas neglected by the market and institutions
2. Rigorous evidence of impact and cost-effectiveness
3. Credible pathways to scale
  - a. Demand from governments or households
  - b. Potential delivery channels at scale
  - c. Long-run financial sustainability



**Training for rainwater harvesting**



**Microbial fertilizer**



**Reducing methane emissions**



**Alternative proteins**



**Climate-resilient social protection**



**Digital agriculture**



**Improved weather forecasts**

# Climate-resilient social protection

Traditional disaster relief methods are slow and reactive.

- Weather-responsive anticipatory cash transfers before climate shocks occur.
- An investment of USD 15-72 million over the next five years could reach between 40,000 and 200,000 farmers in Bangladesh.

Graduation programs can lift small farmers out of poverty.

- Direct asset transfers, consistent financial or food aid, educational resources, and ongoing mentorship to ensure a steady transition out of poverty.
- In 2005-2006, in Nicaragua CCT of USD 145 + Productive Investment Grant USD 200 per household (*promotoras*) yielded income increases, higher school attendance, nutritious food consumption, and shifted household aspirations and investment behaviour.

