



How to measure outcomes and impacts of adaptation interventions

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Guiding the Recovery

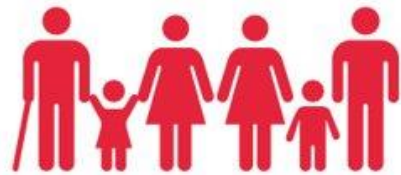


Trade-offs: scarce public funds, tough choices need to be made.

For example, Protecting People and Green Recovery are two of the five pillars for socio-economic response to COVID-19:

- How should we protect people while preserving the environment at the same time?

1 NO
POVERTY



13 CLIMATE
ACTION



An Example: Uganda



What works to reduce deforestation while not sacrificing welfare?

Payment for ecosystem services?

Or

Incentives to upgrade to more efficient appliances?

Evidence from an impact evaluation tells us:

Cost: US\$ 0.46 per ton of carbon delayed

Vs.

Cost: \$4.60 per ton of carbon delayed



UNDP CC Adaptation IE Portfolio



UNDP is evaluating...

... a range of **climate change adaptations...**

[irrigation] [women's empowerment] [weather information services] [asset transfers] [farmer field schools]

... across a number of **vulnerable countries...**

[Bangladesh] [Bhutan] [Cambodia] [Ecuador] [Georgia] [India] [Malawi] [Uganda] [Viet Nam] [Zambia]
[Zimbabwe]

... using a variety of **rigorous impact evaluation methodologies...**

[difference-in-differences with matching] [matching] [randomized controlled trials]

... coupled with **measurement and analysis work.**

[survey development and testing] [complex and challenging measurement environments]
[survey deployment] [statistical analysis]

UNDP CC Adaptation IE Portfolio



Diverse portfolio of adaptations, countries and methods which:

- Demonstrate UNDP's ability to **integrate a diverse set of interests, organizations and skills** to execute rigorous impact evaluation
- Showcase UNDP's ability to communicate and **develop local in-country capacity** to participate and execute technically challenging work of impact evaluation and measurement
- Demonstrate that UNDP has the **ability to execute impact evaluation** and feed that into the policymaking chain

Example from the UNDP IE Portfolio



Impact evaluation in Bhutan: "Supporting Climate Resilience and Transformational Changes in the Agriculture Sector"

Program:

- Agricultural extension services which include SLM, training on climate-resilient practices and provision of climate information.
- Program will be rolled out at the *gewog* level (think of the *gewog* as a local level unit such as a village).
- Program has enough resources to reach all 150 target *gewogs*.

Example from the UNDP IE Portfolio



RANDOMIZED ROLLOUT AT THE GEWOG LEVEL

Since all chiwogs cannot be served at once, we **randomly** select 75-chiwogs to get served in the first 1- to 3-years of the program. Randomly means as if by lottery. So, we put all 150-chiwog names in a bowl, reach in with out looking and pull out chiwog names until we have 75-chiwogs inside the bowl and 75 outside.

