



The question to... Eric Teschke

How can governments target social policies to those most in need







When social programs prioritize the poorest, economists call this targeting.

Q Why target?

FOR EQUITY

Targeting leads to redistribution and reduces inequalities.

TO OPTIMIZE RESOURCE USE Government budgets are limited, targeting directs resources to those who need them most.



Many economists study the effect of social policies, assuming that they are well received.

But studying targeting is important: no social policy can work if it does not reach those it is intended for.

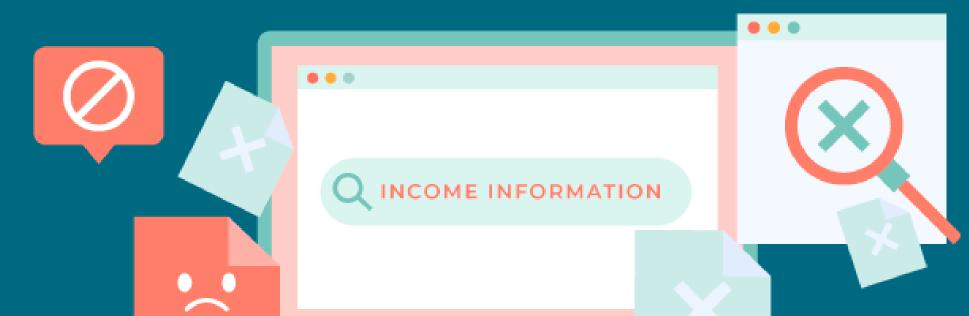




In developing countries targeting is a huge challenge.

Q The economy is informal

Key targeting data, such as income information, is often unavailable – particularly for the poorest populations.





Targeting is even more important: GOVERNMENT BUDGETS ARE MUCH SMALLER POVERTY LEVELS ARE MUCH HIGHER







In the absence of formal income/wealth data, governments use approximative targeting methods, like Proxy-Means Tests (PMTs).

Conduct surveys on poverty and household characteristics (housing, demographics, assets) for a subset of the population.

Base targeting on these predictions and implement policies for several years without updating. Use these surveys to build a statistical link between characteristics and poverty, and **predict poverty levels** for everyone.



But, current evidence suggests that these approaches lead to **large targeting errors**.

This questions the effectiveness of social protection in developing countries.

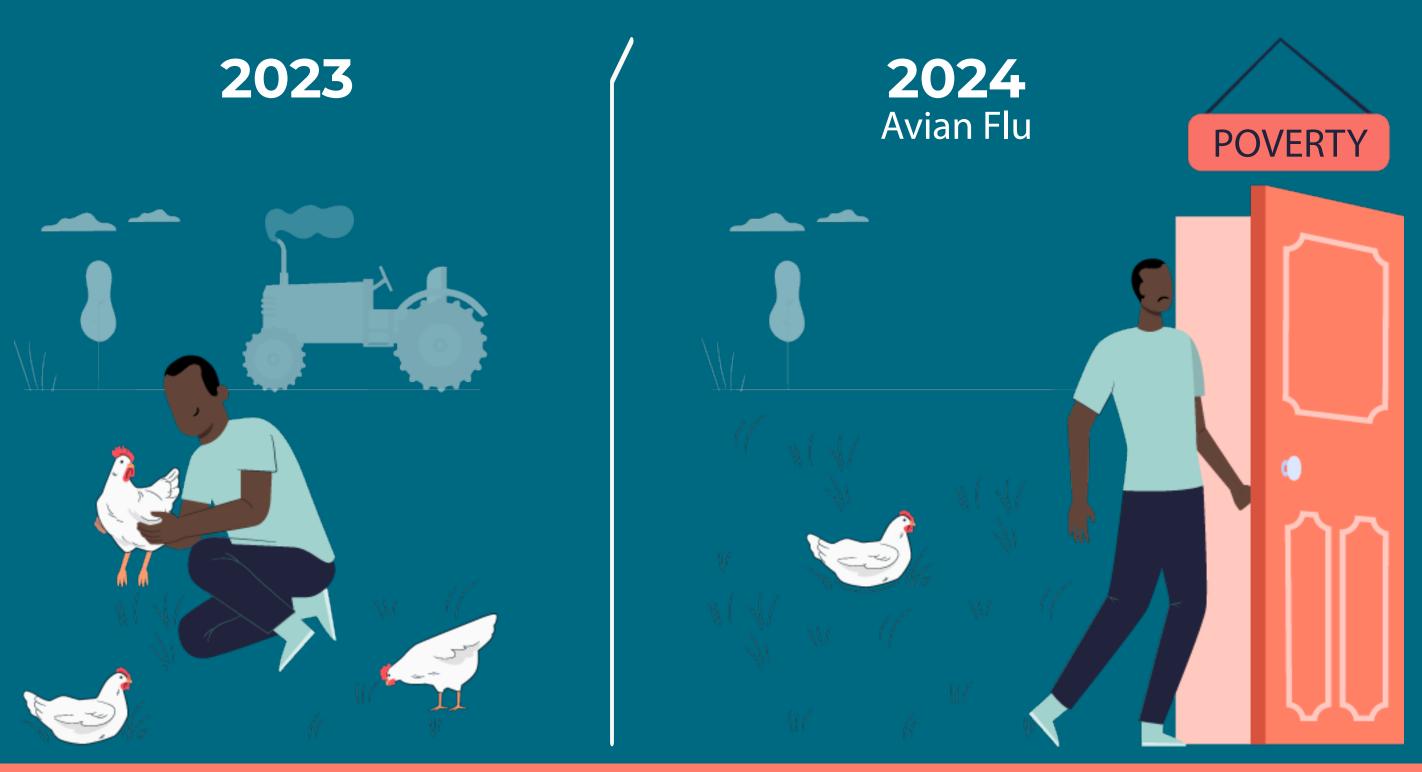


Is targeting evaluated correctly?

Q The existing methodology assumes that:

- Observed poverty is true poverty.
- Targeting errors are stable over time.

But poverty is measured with errors and it might be dynamic over time.





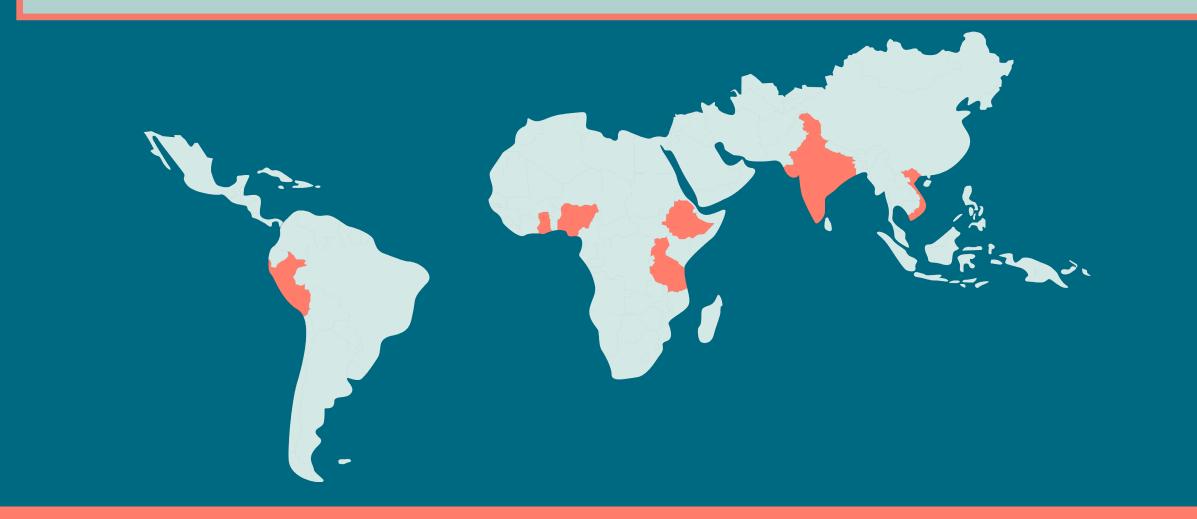
Research Question and Data

If we would have the data to evaluate targeting over time, what would we find?

Do targeting errors increase over time, excluding even more poor people? Can we design better targeting that optimizes accuracy over time?

Q Data used

Large household surveys from 8 countries across 3 continents that track households over several years, recording both their poverty status and key characteristics.





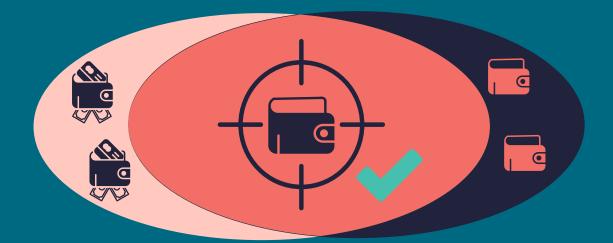
Targeting outperforms expectations

Existing evaluation methology

Comparing PMTs to "perfect targeting" (observed poverty in one period) shows high targeting errors across all countries: 25% of the population is wrongfully excluded or included.

Introducing time

But after one period, "perfect targeting" also has large targeting errors. This is because observed poverty is very dynamic due to transient shocks and measurement errors.



Targeted but not poor households
Poor households correctly targeted
Poor households but not targeted

Additionally, the PMT's performance remains remarkably

stable over time, because it successfully:

- Includes chronically poor households.
- Excludes permanently non-poor households.

When evaluating targeting over the relevant time period and when focusing on the groups we care most about, the PMT performs **much better than expected**.



Can targeting be further improved?

Updating the PMT

Alternatives

π=3,14 . 3×/У Fully updating the PMT in every period **eliminates the small error increase** over time.

But full updates are expensive. Partial updates—only the predictive function or population characteristics—bring **limited improvements**.

Alternatives, such as targeting households based on their average poverty in the past, show **no major gains over the PMT**. Neither does predicting future poverty to target vulnerability nor Machine Learning.

The standard PMT is highly effective in targeting the chronically poor and excluding the non-poor.







On the way to universal social protection, developing countries should:

Use PMTs to target chronic poverty.

Rely on additional programs—like disaster relief or insurance against shocks—to address transient poverty.



Teschke E., Willis J., 2024, *Targeting Dynamic Poverty*, PSE Manuscript.