Effectively Targeting Anti-Poverty Programs in Indonesia

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Sector(s): Political Economy and Governance, Social Protection

Location: Jakarta, Indonesia

Sample: 5,756 households in 640 villages

Target group: Rural population

Outcome of interest: Citizen satisfaction Social service delivery

Intervention type: Cash transfers Targeting Community-driven development Unconditional cash transfers

AEA RCT registration number: AEARCTR-0000099

Dados: Download from Dataverse

Partner organization(s): Government of the Netherlands, Indonesia, Central Bureau of Statistics (BPS), Indonesian Ministry of Social Affairs, Indonesian National Team for the Acceleration of Poverty Reduction (TNP2K), Mitra Samya, SurveyMETER, World Bank

Targeted cash transfer programs have become an increasingly common tool for poverty reduction in the developing world, but identifying the people experiencing poverty can be challenging as governments often lack reliable information about incomes. Researchers in Indonesia compared the effectiveness of two methods of identifying the low-income households: a community method where villagers ranked households according to perceived wealth, and a proxy-means test which relied on measures of consumption and assets. The community methods of selecting who qualified for the cash transfer program were less accurate than proxy-means tests overall, but they greatly improved local satisfaction and better matched the low-income individual's own concept of poverty.

Policy issue

Around the world, governments aim to target essential social safety net programs to low-income households. One challenge low- and middle-income countries face is correctly identifying these households without reliable income data, as many people in poverty work in the informal sector and lack verifiable income records. Using unreliable information to identify eligible households can result in funds being diverted to richer households and leave fewer resources for the program’s intended beneficiaries.

To combat this problem, governments have typically selected program beneficiaries using two methods that do not require formal income records: proxy means tests (PMTs) and community-based targeting. A proxy means test predicts a household’s income by collecting simple information about the assets they own. In community-based targeting, governments allow local

community members to select beneficiaries, believing that they have better information about their neighbors' poverty levels. Yet, if elite community members use the targeting process to give transfers to their friends and relatives living above the poverty line, community-based methods could potentially increase the amount of funds diverted to ineligible households. The choice between the two approaches is generally framed as a trade-off between the better information that communities might have versus the risk of elite capture in the community approach.

Context of the evaluation

Indonesia is home to one of the largest targeted cash transfer programs in the developing world, the Direct Cash Assistance (Bantuan Langsung Tunai) program. The program provided temporary assistance of about US$10 per month to help 19.2 million households cope with rising fuel prices in 2005–2006 and again in 2008–2009. It targeted low-income households using a hybrid approach in which community leaders created a list of potentially eligible households and government surveyors performed a proxy means test to check that they fell below their location-specific poverty line. Yet, in 2008, over half of all households living below the poverty line were excluded from the program. Many citizens also voiced substantial dissatisfaction with the program's targeting method.



Indonesian villagers participating in a meeting.

Photo credit: Ritwik Sarkar

Details of the intervention

To improve the program's targeting, researchers worked with the Indonesian Central Bureau of Statistics, the NGO Mitra Samya, and the World Bank in 2008–2009 to test the impact of three different targeting methods on targeting error, the national poverty

rate, and community satisfaction. A one-time cash transfer of IDR 30,000 (Indonesian rupiah), about US$3, was provided to households that fell below location specific poverty lines in 640 sub-villages across North Sumatra, South Sulawesi, and Central Java provinces. Researchers randomly assigned the sub-villages to receive either PMT, community-based, or hybrid targeting for the cash transfer. Cash transfers were given to the poorest households identified under each method according to government-defined quotas for beneficiaries in each sub-village.

Targeting method

1. *Proxy means test method*: Surveyors recorded 49 indicators on household assets, composition, education, and occupations to determine a PMT score. Households with the lowest PMT scores in each sub-village received the cash transfer.
2. *Community method:* Residents ranked households from richest to poorest at a community meeting led by trained facilitators. The poorest households from the community ranking received the transfer.
3. *Hybrid method:* This method combined the community ranking meeting with PMT verification. After residents ranked all households, government surveyors visited the lowest-ranked households to verify eligibility using the PMT.

To test for elite capture, only elite community members were invited to participate in ranking meetings in a randomly selected subset of villages assigned to the community or hybrid methods, rather than the entire community. To compare targeting accuracy at the start and end of ranking meetings, researchers randomly assigned the order in which households were ranked.

Researchers conducted a baseline survey of 5,756 households in the 640 sub-villages in 2008 to collect data on their per capita consumption (a widely used measure of income in low- and middle-income countries), assets, demographics, and friend and family networks. They measured the accuracy of the PMT, community, and hybrid methods by comparing the list of households that lived on US$2 or less per day in the baseline survey to those that actually received the transfer under the three methods. They defined location specific poverty lines in terms of purchasing power parity (PPP) dollars, which adjust for differences in the price of goods and services within and across countries.

During the baseline survey, researchers also collected subjective measures of poverty by asking households to rank their neighbors from poorest to richest and to assess their own poverty level. Finally, after cash transfer beneficiaries were selected, researchers collected data on community satisfaction using suggestion boxes and household interviews.



Results and policy lessons

Among the three methods, the PMT had the lowest overall targeting error.

When poverty is defined as living on US$2 or less per day, the PMT outperforms the other methods. The PMT incorrectly classified 30 percent of households, while the community and hybrid methods incorrectly classified 33 percent, which is equivalent to about a 10 percent increase in the error rate. Yet the authors project that PMTs and community-based targeting would ultimately have similar impacts on poverty if they were used to select the beneficiaries of a national cash transfer program.

The community method led to greater community satisfaction and better selected households that self identify as poor.

Though the community method correctly identified a smaller percentage of households eligible for the transfer than the PMT, it correctly identified a greater percentage of those households that identified themselves as poor. Residents assigned to the community method also reported significantly higher satisfaction with the targeting process, cash transfer program, and the beneficiary lists. Higher satisfaction also led to a smoother disbursal process in villages assigned to the community method.

Rankings in community-method villages suggest communities share a concept of poverty that accounts for households' earning potential in addition to their consumption.

Beneficiary lists from community-method villages were more closely correlated with households' subjective assessments of their own poverty. Furthermore, community members cared about earnings potential and vulnerability rather than just consumption when ranking households from poorest to richest, ranking widow-headed households and households with less education as poorer regardless of their daily consumption level.

There was no evidence of elite capture.

Friends and relatives of elite community members were not more likely to receive a cash transfer when elites had greater control in the ranking process. This may change over time if the program is repeated, as individuals may learn to manipulate the system.

The hybrid method was less accurate than the PMT and resulted in lower satisfaction than the community method.

The hybrid method resulted in the same error rate as the community method (33 percent) and lower community satisfaction. While the hybrid method resulted in 0.55 fewer complaints than the PMT on average, the community method resulted in 1.09 fewer complaints.

The large benefits of community-based targeting in terms of community satisfaction may outweigh its small costs in terms of accuracy, especially given that proxy means tests and community-based targeting would ultimately have similar effects on national poverty.

The proxy means test (PMT) outperformed the community-based approach in identifying who was living below a set poverty line. But the community method excelled in other areas. It produced beneficiary lists that were more in line with low-income households' own concept of poverty. Involving the community also significantly improved satisfaction with the targeting process and cash transfer program. If community satisfaction is regarded as an important outcome of a social safety net program, community-based targeting may perform better than a PMT, especially since the authors project that the two methods would ultimately have similar impacts on Indonesia's poverty rate. While elite capture did not affect community-based targeting in this case, future research should explore whether this is true in other places or with repeated cash transfers.

Improved hybrid targeting methods need to be identified and tested.

One main benefit of a hybrid approach is that it could in principle allow the community to participate in targeting while minimizing the risk that elites might capture the targeting process. Since elite capture was not a problem in this one-time cash transfer, the hybrid method did not decrease targeting error. It also did not significantly improve community satisfaction, perhaps since communities were able to influence only the preliminary beneficiary lists. Future research should explore how other hybrid methods can be designed to combine the benefits of proxy means tests and community-based methods. The authors of this

study are currently conducting a follow-up evaluation that tests whether an improved hybrid method can increase community satisfaction and targeting accuracy.

Alatas, Vivi, Abhijit Banerjee, Rema hanna, Benjamin A. Olken, and Julia Tobias. 2012. "Targeting the Poor: Evidence from a Field Experiment in Indonesia." American Economic Review 102(4): 1206-1240.