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opens the account, presumably too quickly for the usual explanations to hold.

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Comp	licating this	s puzzle,	several	rigorous	studies or	n the imp	act of s	savıngs	accounts	have tour	nd a 'magic	
incom	ne' effect -	savings	and ho	usehold	investmen	t increas	e almos	st instar	itaneously	after th	e customer	

Our team of researchers aimed to conduct a study with enough detailed data to allow us to provide answers to some of these riddles.

## Savings accounts at your doorstep

In 2008, Sri Lanka's National Saving's Bank (NSB) offered a new remote deposit collection service targeted at business owners within one kilometre of the Banks' branches. For our project, they extended the service to rural households. These accounts were free, and bank agents came on motorcycles to collect deposits using wireless point of service (POS) terminals that could issue receipts showing the new account balance. So, customers were presented with a free and user-friendly way to save. Our study sample covered a total of 156 rural zones, randomly divided into treatment (those that received the intervention) and control groups (those that did not receive the intervention), with 389 individuals in the treatment and 406 individuals in the control group.

Starting five months before the savings account collections began and continuing 13 months afterward, we collected detailed high-frequency data on both sets of individuals – those offered the accounts, and those not. These data included income, expenditure, microenterprise, and labour market activity. Our results showed that treatment increased savings: The number of transactions with formal financial institutions per month quadrupled, the flow of savings into bank accounts almost doubled, and overall savings increased by more than 15% per month – about US\$7.

The treatment leads to a statistically significant and economically meaningful increase in total savings by the individual.

So, where did the money come from? While there is some evidence of the 'protection from self' channel (as depositors would have to travel to a branch to withdraw), the main source is a large increase in income. Personal and household income both surged in the months following the introduction of the treatment, by almost 1,000 LKR and 1,200 LKR, respectively per month, or about 5% of average monthly income in our sample. In keeping with the 'magic income' effect, the increase appears rapidly, within a month of being offered the account. This suggests that the mechanism at work was not the ability to make lumpy investments, which would appear over a longer time frame.

## Where, in turn, does the income increase come from?

- For the full sample of participants, we find an insignificant increase in the number of hours worked, but a significant increase in earnings.
- We also find a decrease in the rate of self-employment: just over 52% of households in the treatment group reported being self-employed in round 2; this fraction drops by 3.4 percentage points during the duration of the treatment.

Though this may not seem initially intuitive, it squares perfectly with predictions from standard macroeconomic models of intertemporal labour allocation (see <u>Blanchard and Fisher 1989</u>). These models suggest that when the effective interest rate changes – in this case by bringing secure formal savings accounts to a family's doorstep – the optimal amount of labour time should increase. Self-employment rates decrease and wage income increases after households gain access to the door-to-door savings accounts. (It is, of course, possible, we should add, that customers may re-invest savings into businesses over the longer run.) What is surprising about our results is that we reject the non-convex lumpy investment model and, yet, still find savings to have a transformative effect on income.

To summarise, after being offered a safe place to save their money, individuals increase their work hours, often at the expense of both their own leisure and investment in their business. While this is likely influenced by the high prevalence of active day labour markets in the study area, it adds a new perspective to the mounting literature on the channels linking new savings opportunities to income.

## Increased savings, formal and informal

One of the other possible sources of liquidity to increase savings is for the client to stop lending to friends and family. This possibility has long troubled financial inclusion practitioners because it could mean that the private benefit of those with a new formal savings account may imply a negative spillover to others within his/her informal network, and hence experiments not capturing this dynamic could lead to incomplete policy recommendations.

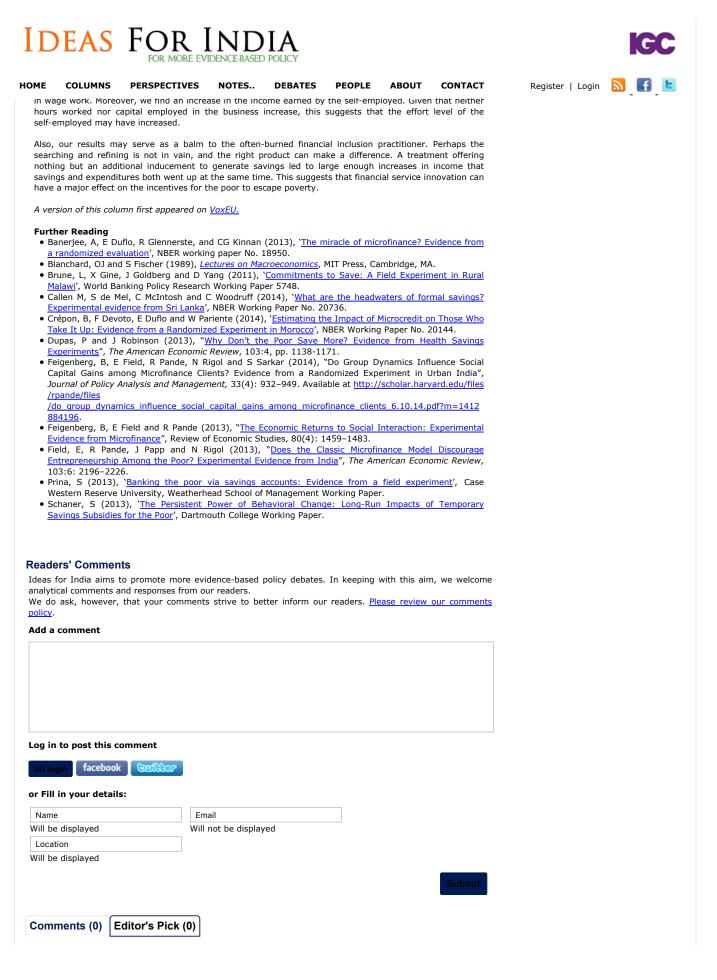
To tackle this issue empirically, we designed our experiment and data collection strategy to examine the interplay between our treatment and the rotating savings and credit associations (ROSCAs) in most of the world, and called seetus in Sri Lanka. Our experiment showed that the programme didn't divert subjects' contributions to seetus – surprisingly, it increased participation. Treatment on average increases the number of seetus in which a respondent participates by 0.293 over a base of 2, an increase of more than 10%.

Although these results must be interpreted with some caution, as the number of assignment units is small and the balance not perfect, they do suggest that far from posing a threat to them, bank-driven deposit collecting appears to be fortifying informal savings groups. This increasing participation in informal savings groups removes yet another of the usually cited channels for increased savings; it suggests that the accounts are not functioning as a way to hide savings from family members in this context.

## The power of the product

The results of our study, in line with standard macroeconomic models, suggest that the labour allocation







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