

Why Do People Stay Poor?

Maitreesh Ghatak

(with Clare Balboni, Oriana Bandiera, Robin Burgess and Anton Heil)

Presidency University, Kolkata

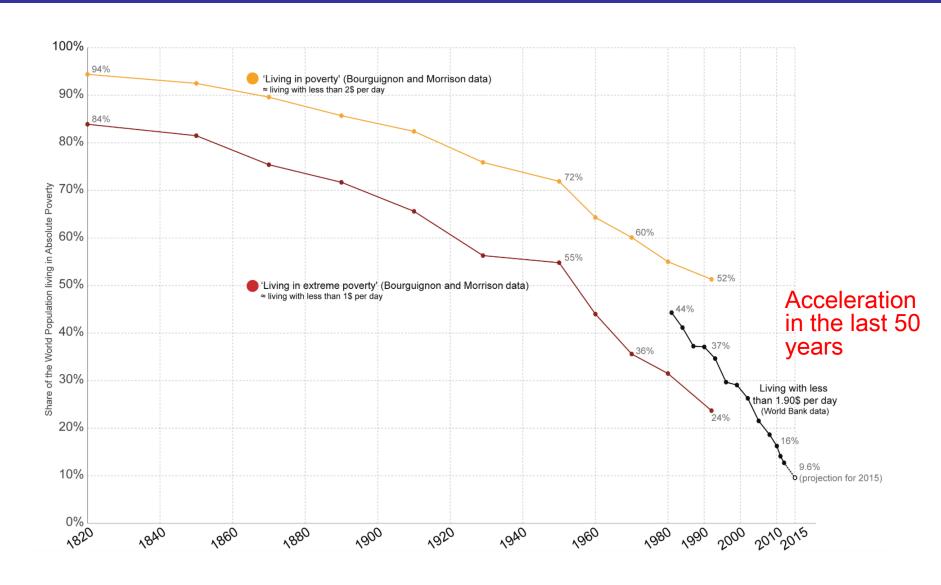
December 18, 2018

Introduction

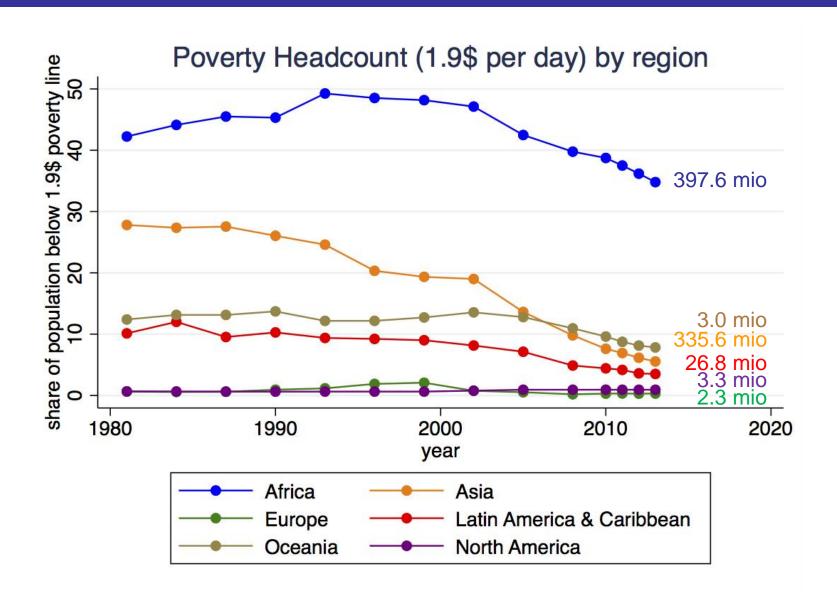
Poverty

- Global poor are those whose income falls below the global poverty line, the famous "Dollar A Day" line
 - nowadays \$1.90

The share of people living in absolute poverty has been dropping steadily in the last 200 years



Poverty has been decreasing but is still high in SSA and SA

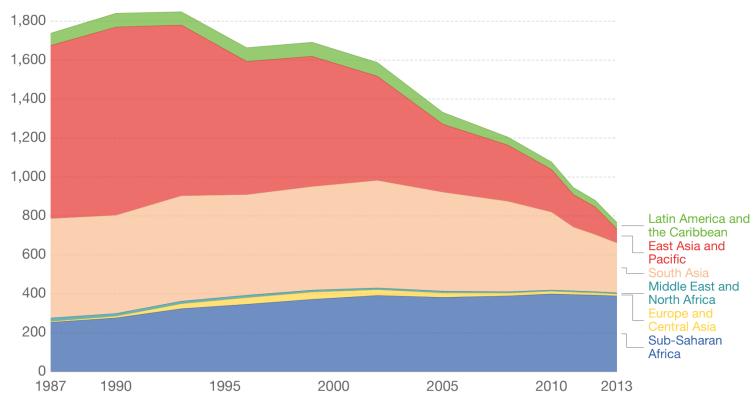


But numbers are stable in the poorest regions

Total population living in extreme poverty, by world region



Numbers are in millions of people. Extreme poverty is defined as living with per capita household consumption below 1.90 international dollars per day (in 2011 PPP prices). International dollars are adjusted for inflation and for price differences across countries.



Source: World Poverty Absolute Number by Region - PovcalNet (World Bank)

OurWorldInData.org/extreme-poverty/ • CC BY-SA Note: Consumption per capita is the preferred welfare indicator for the World Bank's analysis of global poverty. However, for about 25% of the countries, estimates correspond to income, rather than consumption.

Inequality and Intergenerational Persistence



1.2 COL UGA ECU GTM 1.0 PAN EGY Intergenerational income elasticity LVA 8.0 RWA ZAR MWI TMP ZAF • BRA 0.6 SVK CHL MYS CZE 0.4 GIN Correlation = 0.560.2 0.3 0.2 0.4 0.5 0.6 0.7 Income inequality (Gini coefficient)

FIGURE 0.11 Higher relative IGM in income is associated with lower income inequality

Source: Equalchances 2018, compiled from multiple studies; GDIM 2018 (World Bank); World Development Indicators for income inequality.

Note: Higher intergenerational income elasticity indicates lower relative intergenerational mobility (IGM).

Source: https://openknowledge.worldbank.org/handle/10986/28428

Eradicate extreme poverty by 2030 (SDG1)?

- Need to address the "stubborn poverty" problem: a lot of poor people are left behind even as countries grow.
- We need to understand why people stay poor in order to design policies that lift the poorest out of poverty
- 75% of extreme poor rural and of these majority work in agriculture (World Bank 2013)

Economic Lives of the Poor

 Labor is the sole endowment of the poor → we need to understand what determines earnings

- Earnings= wage X hours worked
- This comes down to the choice of jobs

Laborers represents a large part of the workforce

- Nearly a third of workers in India and a fifth of workers in Bangladesh and Pakistan are itinerant wage labourers (World Bank 2011)
- 67% of landless rural workers report casual employment as their primary source of earnings (Kaur 2017)
- 98% of agricultural wage employment in India is through casual employment typified by spot markets (Kaur 2017)

Informal/Casual jobs

- Offered on a daily/ hourly basis with no guarantee of further employment
- Very common: 98% of agricultural wage employment in India is through casual employment (Kaur 2017)
- Wage is low & elasticity to production shocks is high (Jayachandran 05)
- Demand during the lean season is very low (Khandker and Mahmud, 2012; Bryan et al, 2014; Fink et al, 2017)
 - → Hides a lot of underemployment

Two standard views – convergence vs poverty trap

Equal access to opportunity, different fundamentals

- People have different fundamentals (productivity, preferences) which determine their occupational choices and earnings
- In the long run people converge to a steady state determined by fundamentals

Unequal access to opportunity, similar fundamentals

- People have different access to opportunity which determine their occupational choices and earnings
- People with the same fundamentals may converge to different steady states, depending on initial endowments

Make precise the assumptions underpinning the two views

Equal access to opportunity, different fundamentals

- People have different fundamentals which determine their occupational choices and earnings
- Convergence to unique steady state occurs if either
 - DRS to factors that can be accumulated

Or

Perfect credit markets

Unequal access to opportunity, similar fundamentals

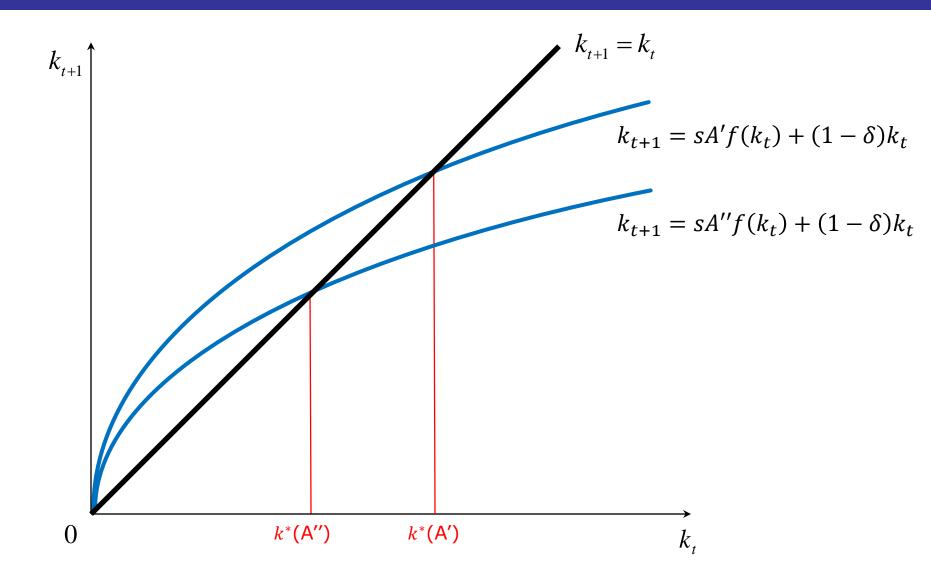
- People have different access to opportunity which determine their occupational choices and earnings
- Multiple steady states may exist if
 - IRS to factors that can be accumulated

And

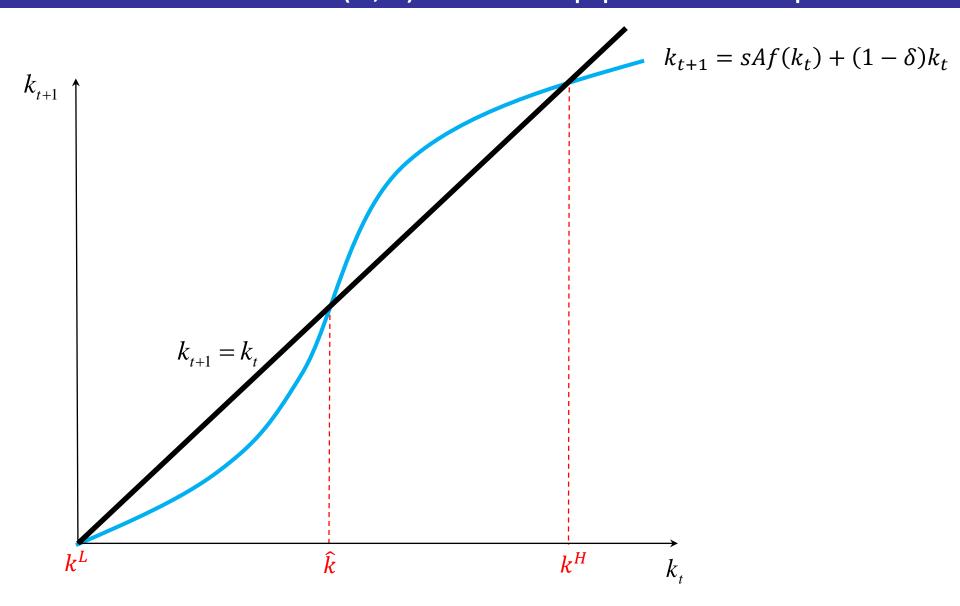
Imperfect credit markets

See Ghatak (2015)

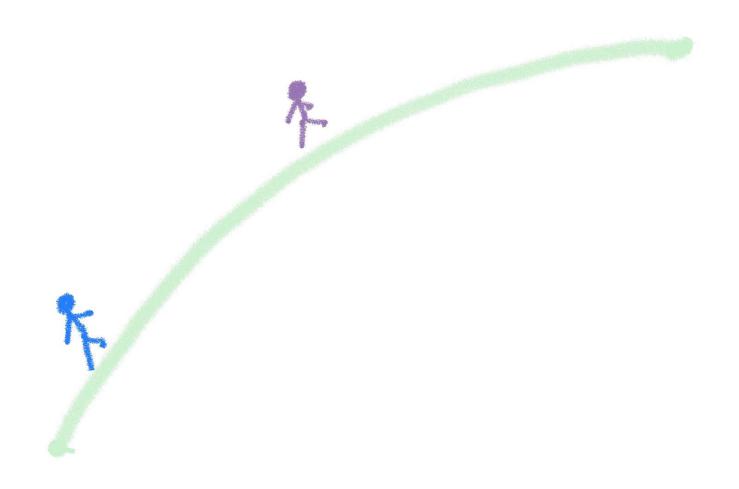
If opportunities do not depend on initial wealth, you need differences in innate traits (A, s) to explain poverty



If opportunities depend on initial wealth, individuals with identical innate traits (A, s) can end up poor or non-poor



View 1: A hill anyone can climb

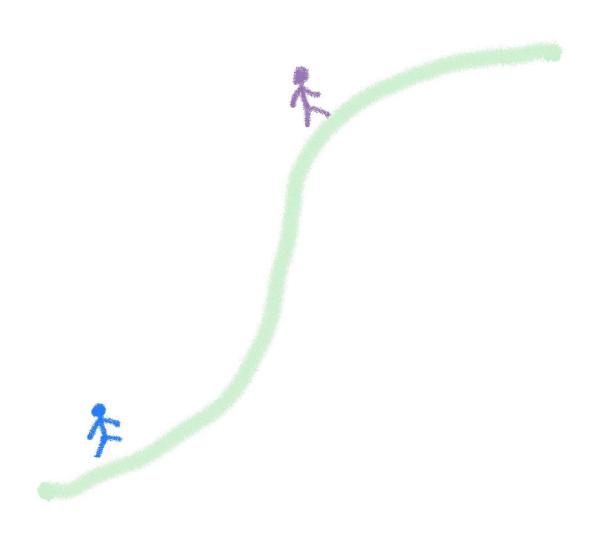


Animation credit: Oriana Bandiera!

The economics behind the hill

- A person is born with an asset –say a shop- that generates income
- She decides how much to consume and how much to save and reinvest in the shop
- You get a "hill" if it is easier to grow a small shop than a large one, because, for instance, the same level of investment is more valuable when there are many unexploited growth opportunities

A steep mountain face



Animation credit: Oriana!

The economics behind the mountain

- A person is born with an asset say a shop that generates income
- She decides how much to consume and how much to save and reinvest in the shop
- You get a "mountain face" if it is easier to grow a large shop than a small one, for instance because required investments are chunky
- This, combined with little access to credit can generate "poverty traps" → people with the talent to run a business, study for a degree etc end up not doing so

Poverty traps are both unfair and inefficient

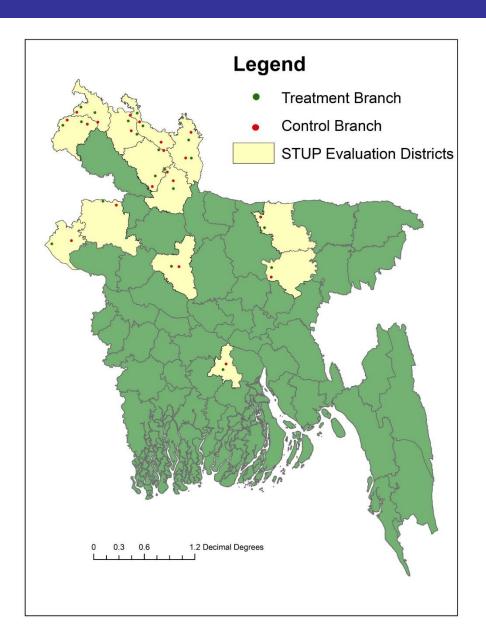
- Unfair because two people with the same potential end up with different standards of living because of accidents at birth poorer person faces higher barrier
- Inefficient because productive people who are born poor will not be able to exploit their productive potential and will be replaced by a less productive, richer, person
- Unutilized assets institutional frictions prevent surplus creation (credit markets, long term labour contracts)
- Not just wealth: gender, race, caste can all cause barriers

Can the poor do better jobs when given the chance?

- Study by Bandiera, Burgess et al QJE 2017
- Sample over 21k households in13009 villages in rural Bangladesh
- 6% are defined as ultra-poor (does not even qualify for microcredit)
- The poorest women in randomly chosen villages receive a large asset (a cow) with some training
- Over 4000 beneficiaries engaged solely in casual labor at baseline
- Asset transfer of approximately \$560 in PPP in 2007
- Near doubling of baseline wealth for the ultra-poor
- Surveyed again in 2009, 2011, and 2014

Study site: Bangladesh

Lack of demand for casual wage labor, higher grain prices, extreme poverty and food insecurity



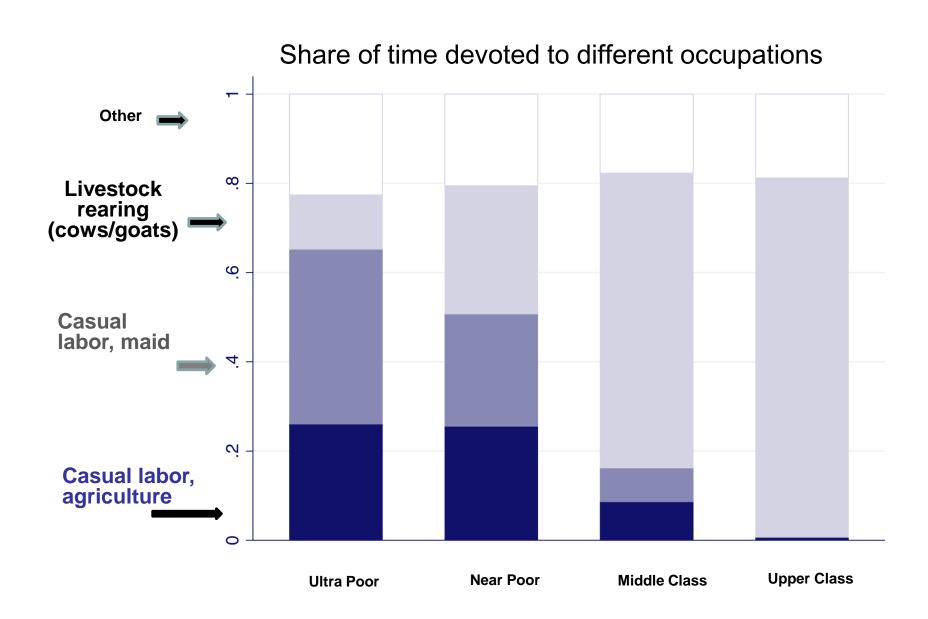
TUP targets the poorest women (but most are poor)

	(1) Ultra- Poor	(2) Near- Poor	(3) Middle Class	(4) Upper Class
Share of population in this wealth class	.061	.219	.585	.135
Primary female is illiterate	.929	.832	.736	.489
Household is below the \$1.25 a day poverty line	.530	.493	.373	.121
Consumption Expenditure (per adult equivalent)	627.8	645.1	759.5	1234.2
Household Assets [USD]	36.5	68.1	279.9	1663.4
Household savings [USD]	7.9	22.1	84.5	481.9
Household receives loans	.191	.393	.498	.433
Household gives loans	.012	.018	.030	.067
Business assets (excl. livestock and land) [USD]	22.9	54.4	286.1	1569.8

The poorest women have fewer productive assets

	(1) Ultra- Poor	(2) Near- Poor	(3) Middle Class	(4) Upper Class
Value of cows [USD]	33.8	120.2	633.8	1559.1
Value of goats [USD]	7.97	12.8	39.8	71.3
Household rents cows for rearing	.070	.148	.118	.030
Household rents goats for rearing	.111	.157	.102	.021
Household owns land	.066	.107	.487	.911
Value of land owned [USD]	200.0	491.2	6789.6	40125.1
Household rents land for cultivation	.060	.143	.276	.168

The poor do casual labor, the rich only livestock rearing



Casual labor pays less per hour and is available on fewer days

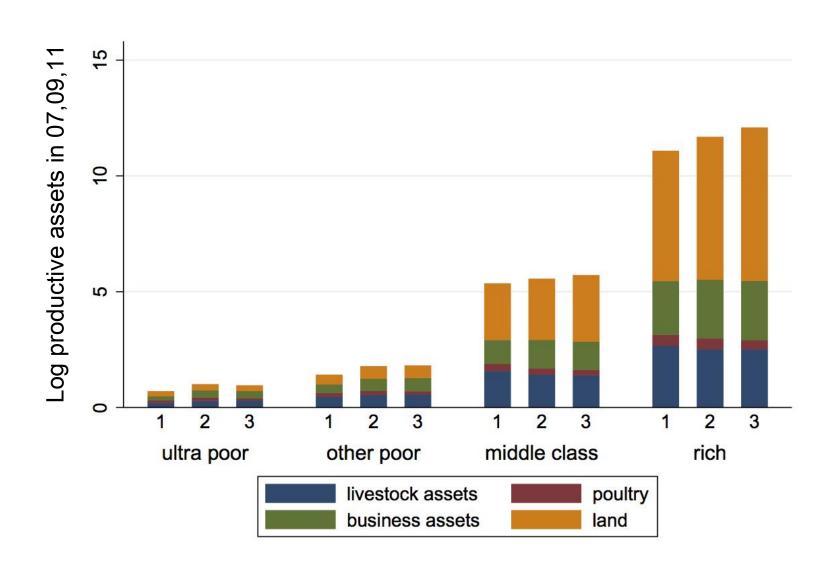
Village Level Statistics, Measured Pre-Intervention

Means, standard deviation in parentheses

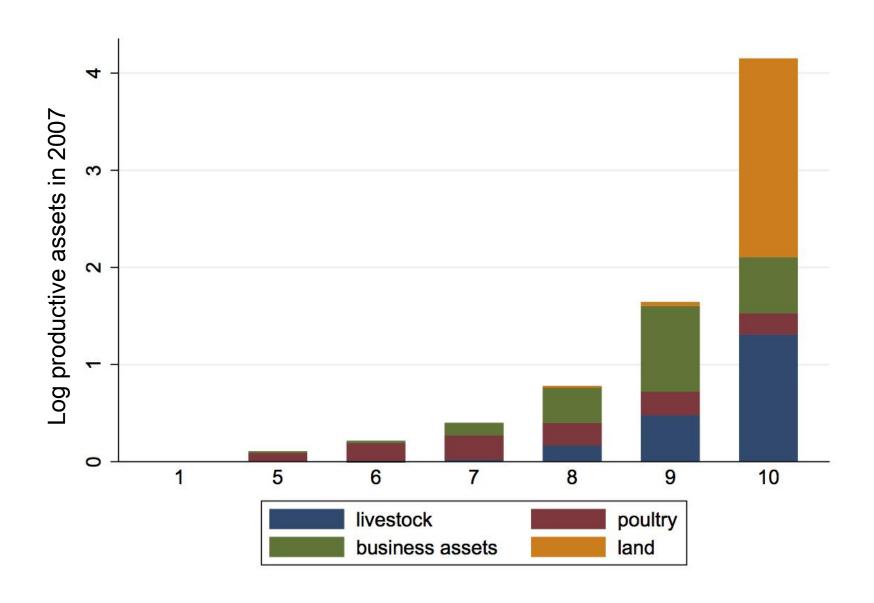
	Casual Wage Labor		Self Employment		
	(1) Agriculture	(2) Domestic Maid	(3) Livestock Rearing [Cows, Goats]	(4) t-test [Col 1 = Col 3]	(5) t-test [Col 2 = Col 3]
Days per year	127 (65.9)	167 (89.5)	334 (41.2)	[.000]	[.000]
Hours per day	7.62 (1.15)	7.04 (1.74)	1.83 (.771)	[.000]	[.000]
Hourly earnings [USD]	.344 (.102)	.268 (.109)	.719 (.779)	[.000]	[.000]

Notes: All statistics are constructed at the village level, using baseline data from both treatment and control villages. The number of villages is 1309. In Column 3, livestock comprises cows and/or goats. To reduce sensitivity to outliers, the hours per day and hourly earnings variables are computed by first taking the median value for each activity in a village, and then averaging these across all villages. Columns 4 and 5 report p-values on a t-test of the equality of some of these outcomes between the two forms of casual wage labor (agriculture and domestic maid work) and livestock rearing. All monetary amounts are PPP-adjusted USD terms, set at 2007 prices and deflated using CPI published by Bangladesh Bank. In 2007, 1USD=18.46TK PPP.

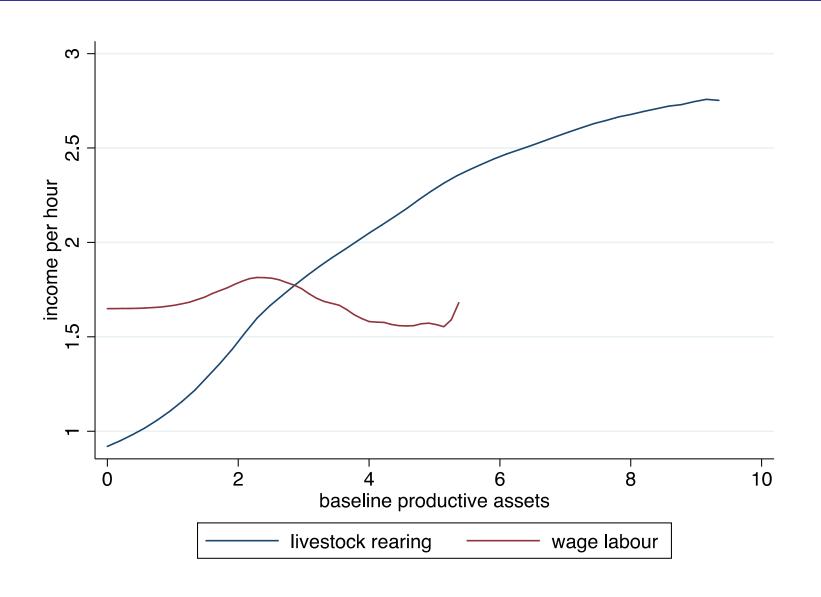
The poor have fewer assets and don't accumulate over time



Composition of assets at baseline by decile – ultra poor



Wage earnings are flat, livestock earnings increasing



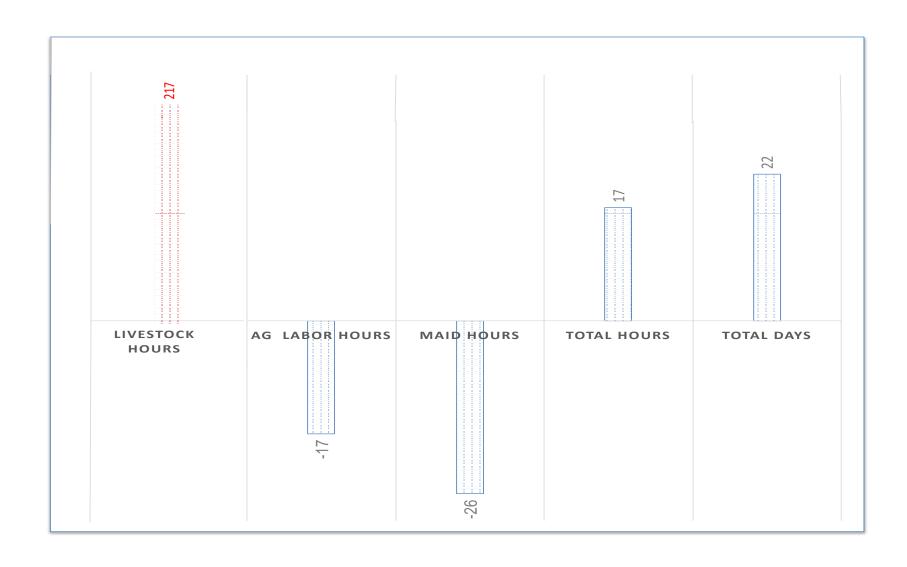
Snapshot

- Wage labor is uncertain, seasonal and pays less per hour
- Occupation correlated with ownership of productive assets (k): livestock, business assets (rickshaws, boats, sheds, agricultural machinery etc.) and land
- Asset holdings stable through time

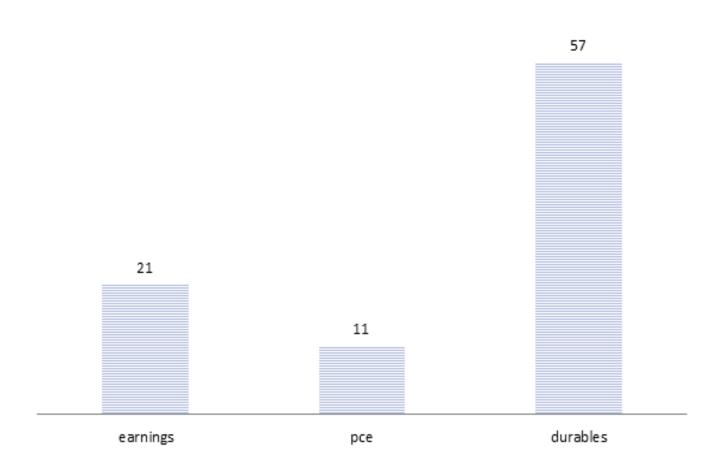
Can the poor do better jobs when given the chance?

• four years later after the asset transfer programme...

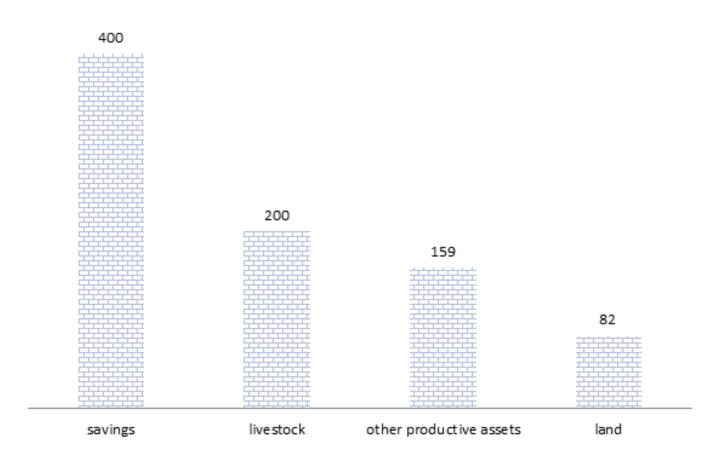
Ultrapoor women change jobs and work more hours



They earn more and consume more



and they save more and accumulate more assets



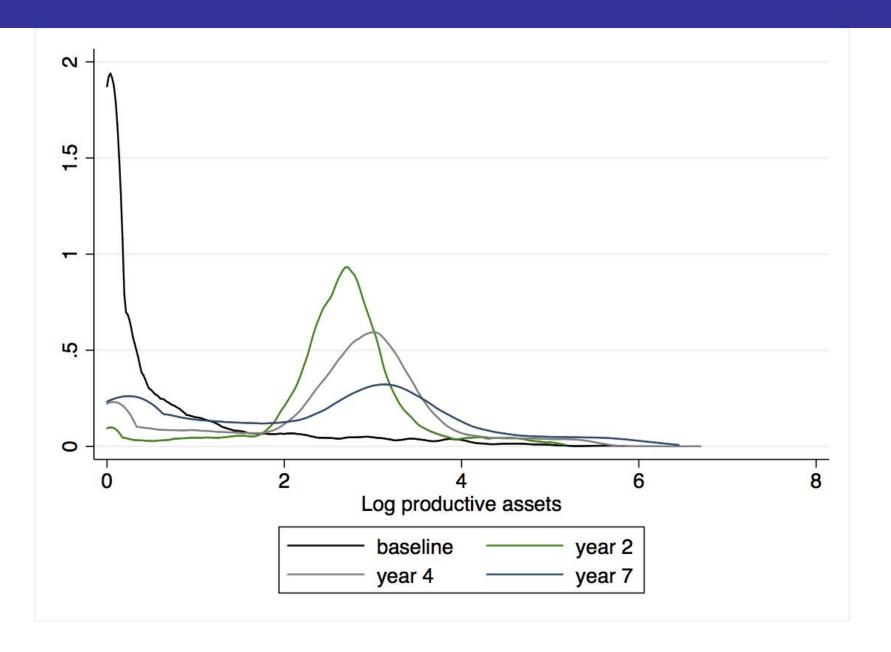
The poor can take on better jobs

- Both training and asset transfers transform the occupational choices of the beneficiaries
- Leading to more employment and earnings → more investment → sustainable poverty reduction

A poverty trap?

- Using our estimates of earnings the rate of return is 22%
- But the program is expensive: \$560 --GDP pc \$541
- Cost more than one year worth of consumption and cannot be bought in pieces > poor talented people cannot afford them
- Large transfer allows them to escape the trap
- But for some it is not enough & they fall back
- What determines this initial endowment level?
- Subject of current exercise

Preliminary evidence: some beneficiaries go back



Dynamics

- Heterogeneity in asset accumulation behavior
- What explains that?
- In a poverty trap world, initial endowment should play a key role

Outline of Rest of the Presentation

- Use theory to illustrate how response to exogenous shock to endowments can be used to test between the two views of poverty
- 2. Implement test using RCT in Bangladesh (Bandiera et al., QJE 2017) tracking 21k HHs across wealth distribution over 7 years
- 3. Inform the design of policies for poverty reduction

Theoretical Framework

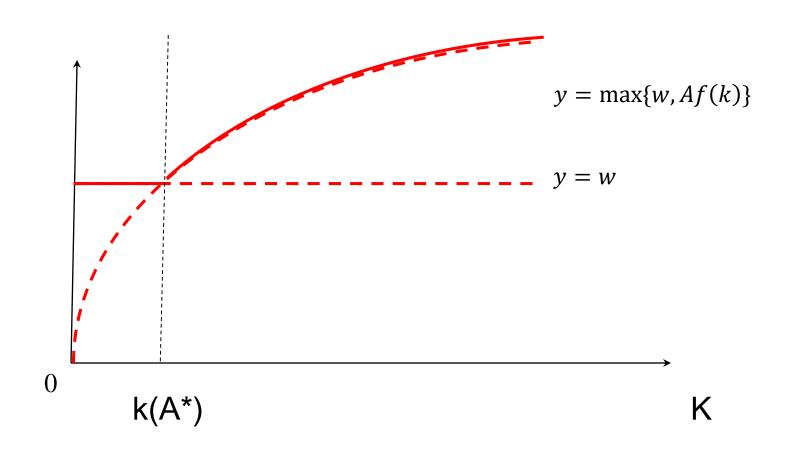
Occupational choice

• Each person i is born with one unit of time, wealth endowment E_i and talent A_i for self-employment

- 1 is wage labor, pays w
- 2 is livestock rearing, requires capital K and yields $A_i f(K)$

- Assume occupational choice is discrete
- Can allow for mixing

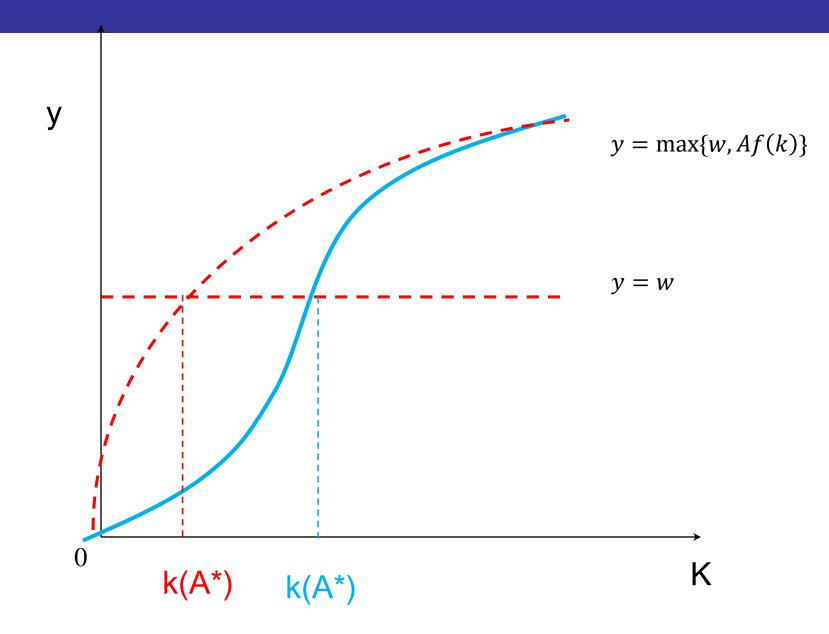
Perfect credit markets + DRS → equal opportunities



No credit markets → poverty trap?

- In a model with savings, individuals can save their way out of poverty as small investments at low K have high returns
- That is, as long as f(.) is concave, credit market imperfections cannot generate a trap

IRS at low K increase the minimum viable scale



No credit markets + IRS → poverty trap

We now have two groups of people for given talent A:

- those for whom $E_i > K(A_i^*) \rightarrow$ choose optimally
- those for whom $E_i < K(A_i^*) \rightarrow$ stuck in wage labor
- →endowments matter
- \rightarrow some people observed in wage labor actually have $A > A^*$
 - → misallocation

Developing a Test for a Pov Trap vs Equal Opp view

- Assume everyone has the same productivity A
- Everyone has a given $k_0 \ge 0$
- Everyone is given the same transfer $\Delta > 0$
- Then the transition equation is

$$k_1 = sAf(k_0 + \Delta) + (1 - \delta)(k_0 + \Delta)$$

We are interested in

$$\Delta_1 \equiv k_1 - (k_0 + \Delta)$$

Let us define the function

$$g(k_0) = sAf(k_0 + \Delta) - \delta(k_0 + \Delta)$$

- We want to know
 - If $\Delta_1 \equiv g(k_0)$ is positive or negative
 - ullet If Δ_1 is increasing or decreasing in k_0

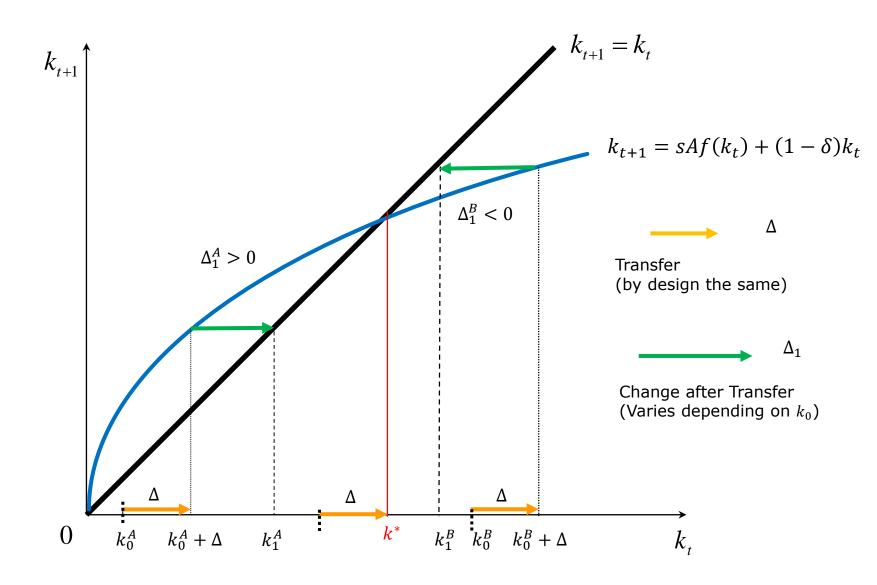
Convergence world

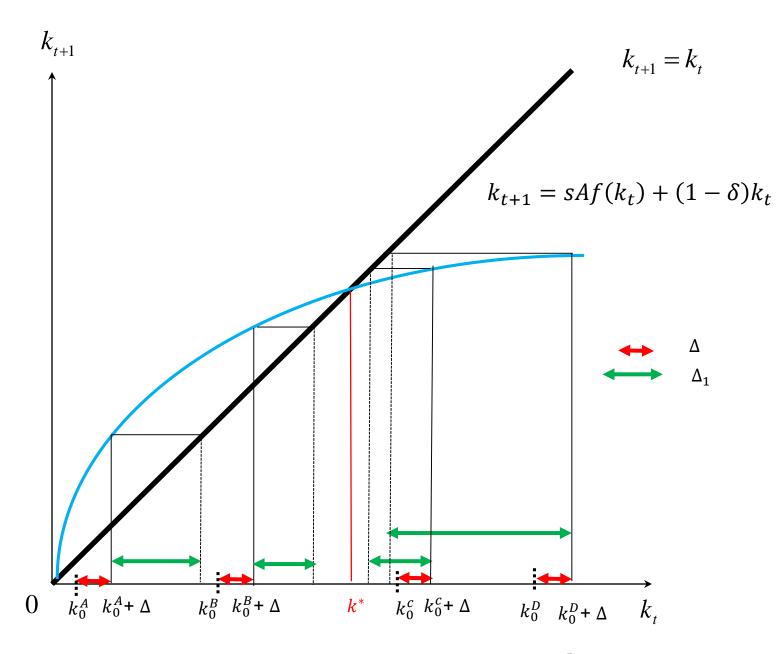
- $g(k_0)$ is strictly concave in k_0
- Depending on the size of Δ one of the following will hold regarding $g(k_0)$:
 - It will first increase, reach a maximum, and then decrease
 - Be decreasing
- It will reach the value 0 at $k_0 = k^*$ (the unique steady state) and after that will become negative

Poverty Trap World

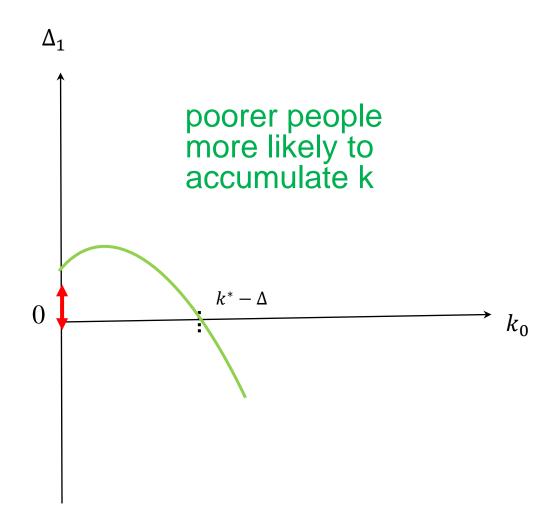
- Let us take the S-shaped production function
- $g(k_0)$ is strictly convex in k_0 for $k_0 \le \hat{k}$ and strictly concave for $k_0 \ge \hat{k}$
- Also, $g(k_0) < 0$ for $k_0 \le \hat{k}$
- If the transfer Δ is received for $k_0=\hat{k}-\Delta$ then the individual reaches the unstable steady state and stays there without further shocks
- However for $k_0 \ge \hat{k}$ the situation is similar to the case of convergence

Response to asset transfer in equal opportunity view



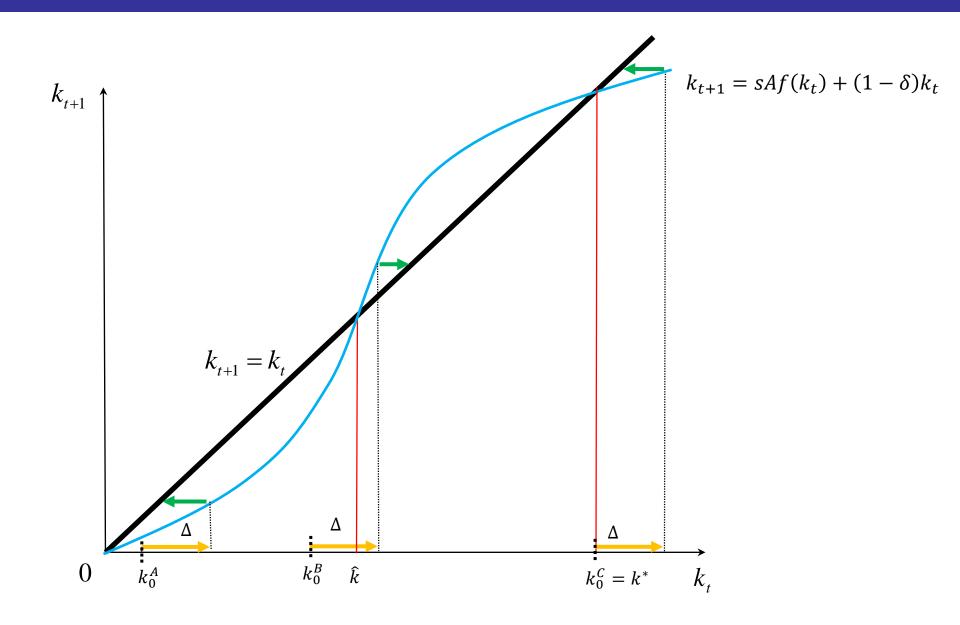


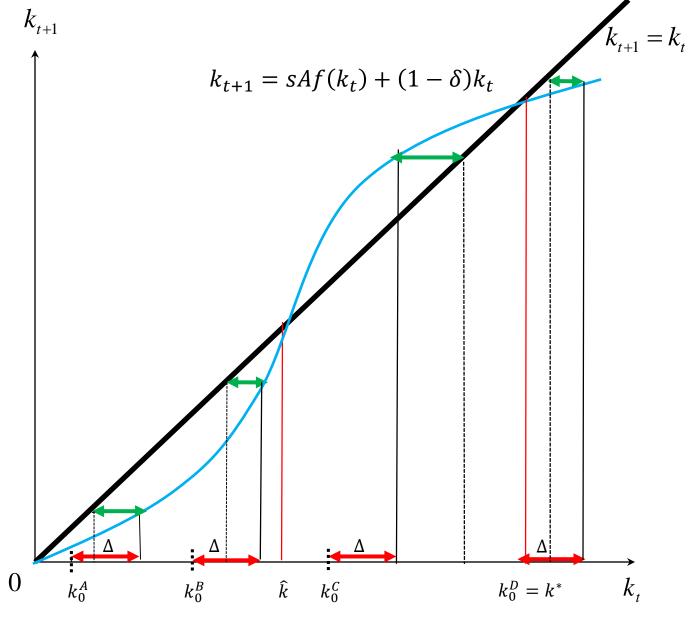
How changes in k depend on k_0



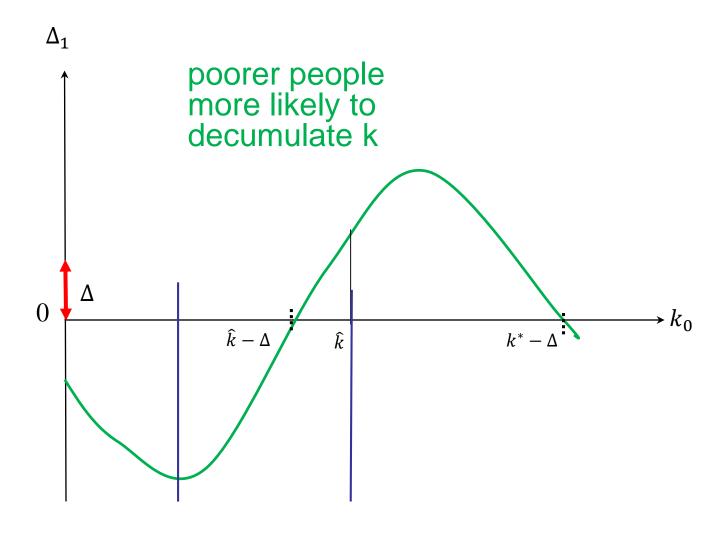
Changes in k plotted against k_0 in Solow world

Response to asset transfer in unequal opportunity view



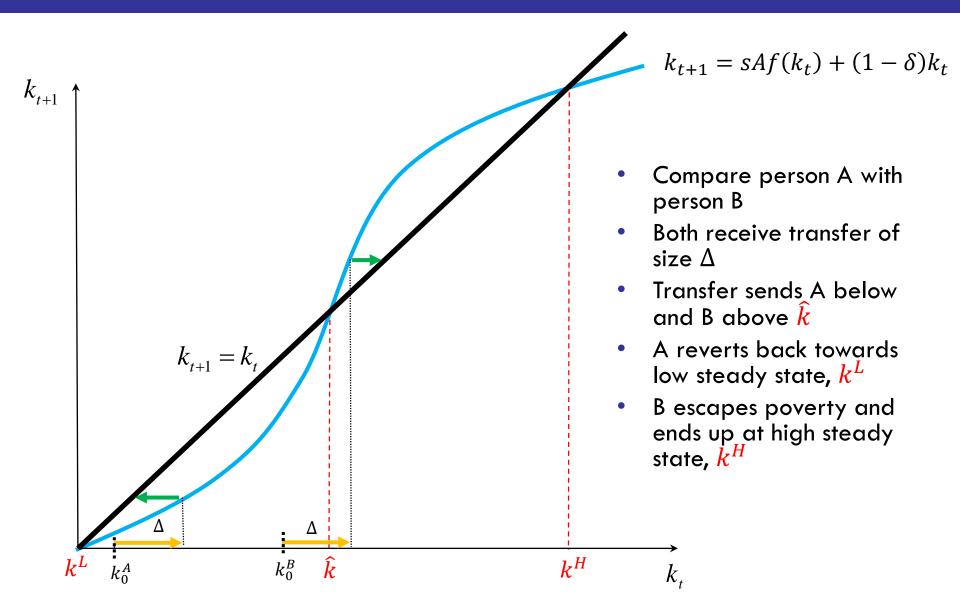


Asset Transfer in Poverty Trap Model

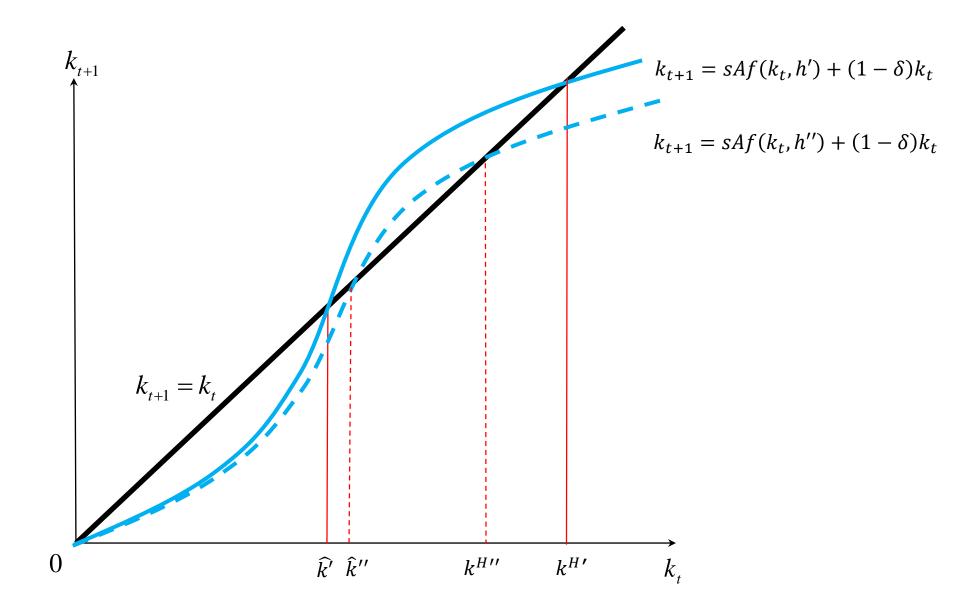


Changes in k plotted against k_0 in Poverty Trap world

We test the joint H0 that (i) there is a threshold and (ii) the program pushes some above and leaves others below



Role of Training? Shifts the threshold down & high s.s. up

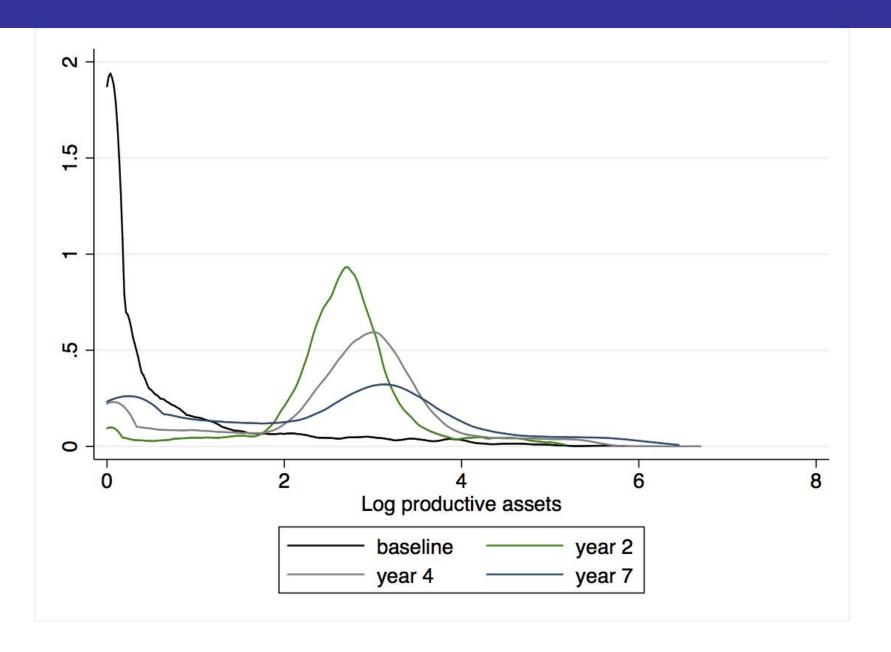


Empirical Analysis

We use BRAC's Targeting the Ultrapoor Program

- K shock: Asset transfer worth 1 year of PCE
- 4k HHs received the program at the same time
- By design all get a package of similar value
- But they start with different assets at baseline

Preliminary evidence: some beneficiaries go back

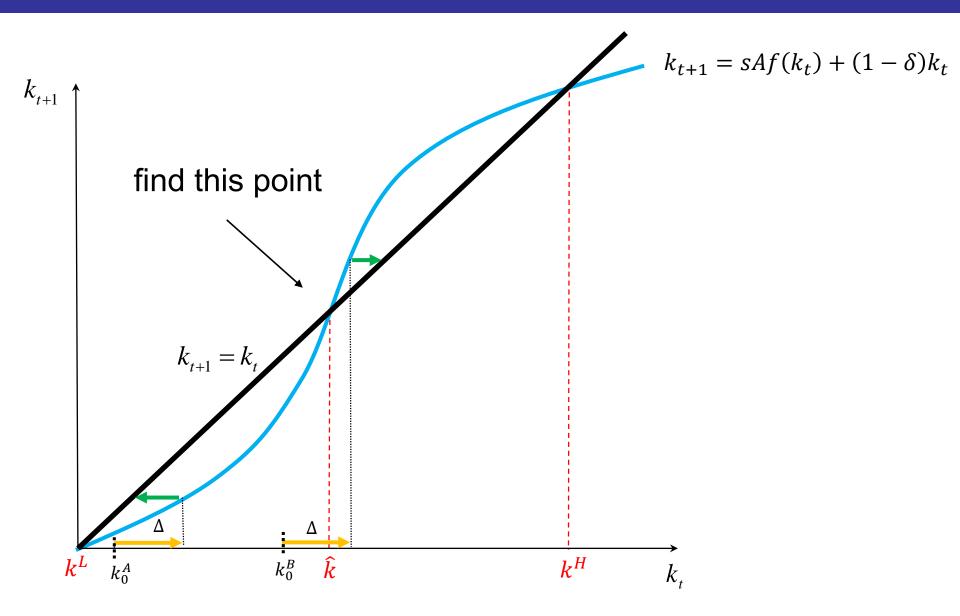


Identifying the threshold

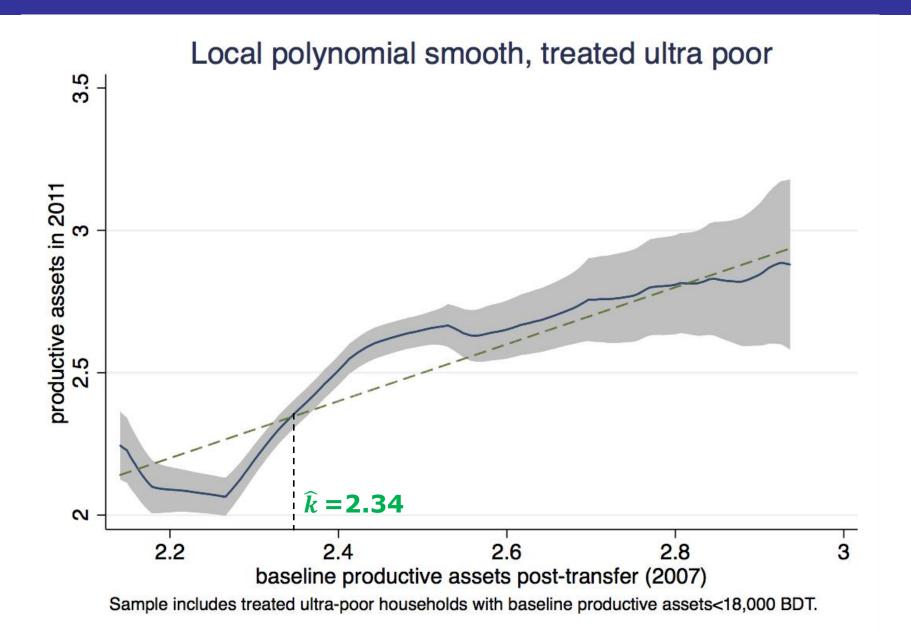
- Level of K such that those below fall back into poverty and those above escape
- This is identified by:
 - estimating the transition equation for K
 - finding the point, if any where it crosses the 45 line from below

Note: this estimates an average threshold

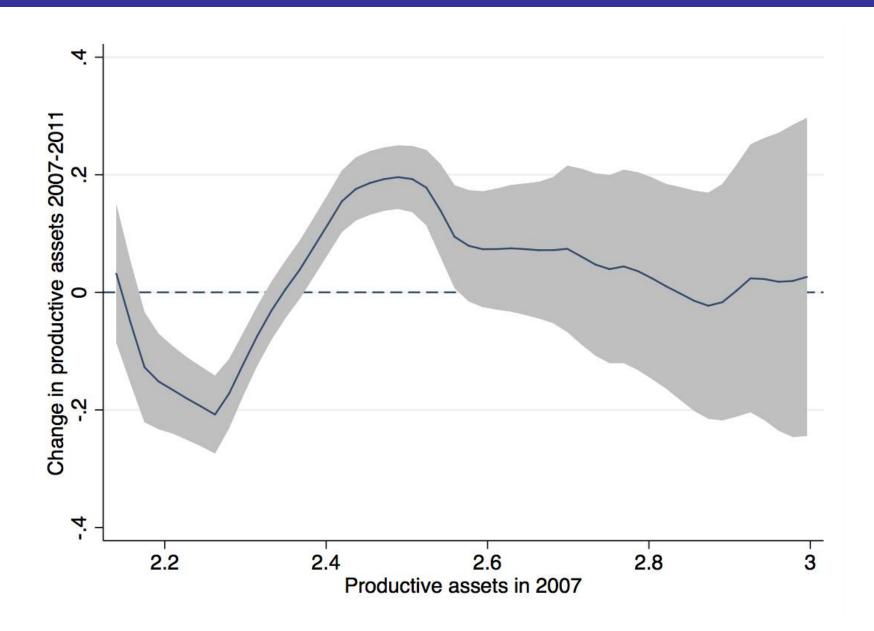
The transition equation



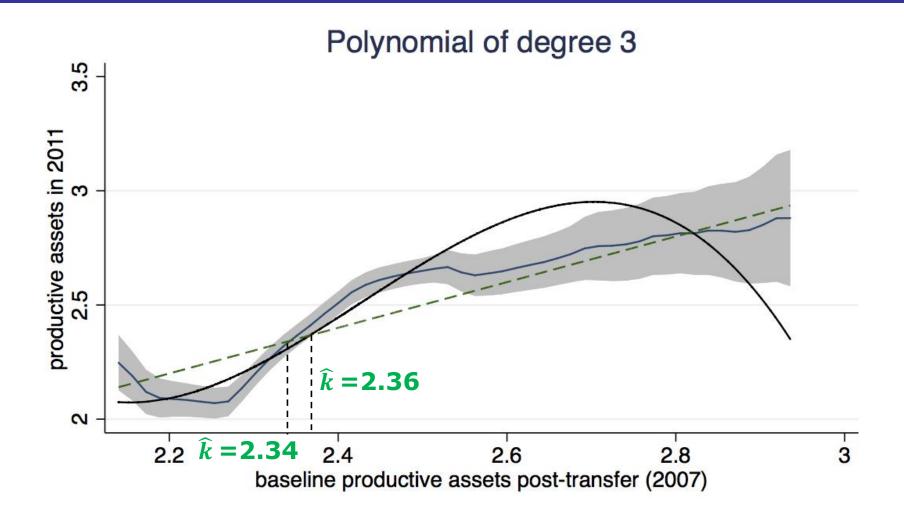
Non-parametric Identification of Transition Equation- Level



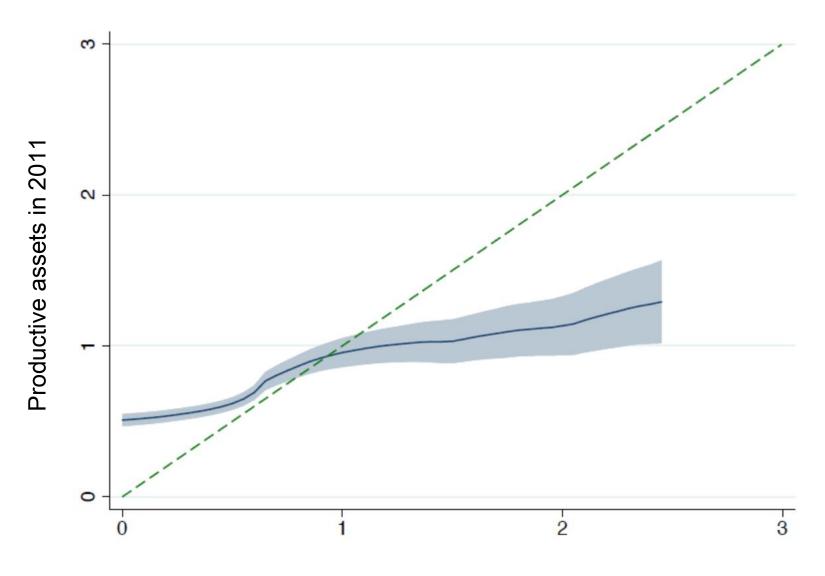
Response to asset transfer in data – Change



Parametric identification

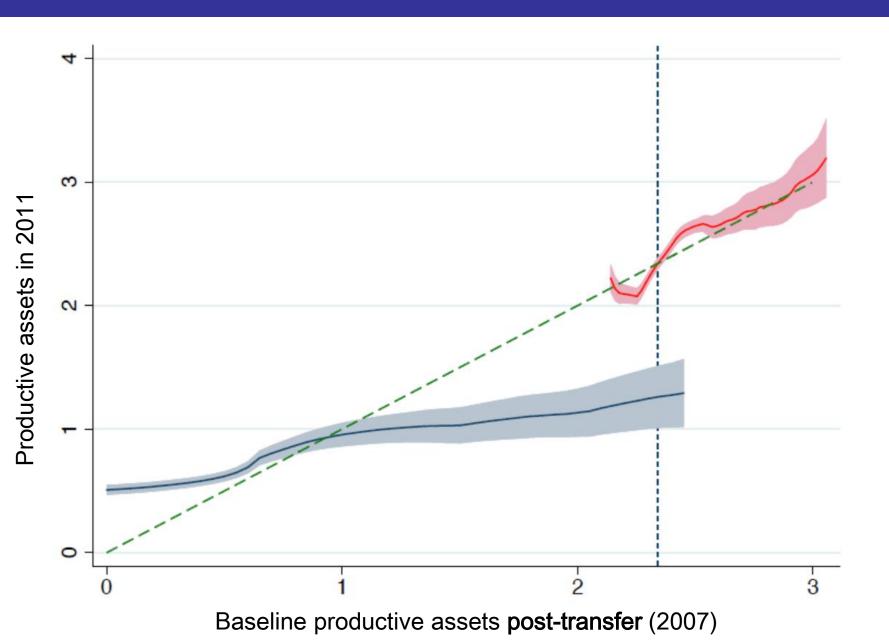


Transition equation for control group

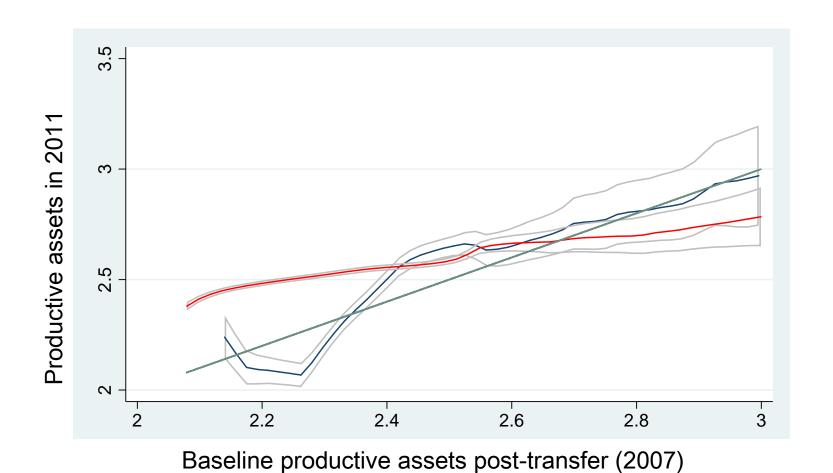


Baseline productive assets (2007)

Placebo (red) vs Treatment (blue) - Levels



Placebo (red) vs Treatment (blue) - Levels



Control artificially "given" same transfer in both years

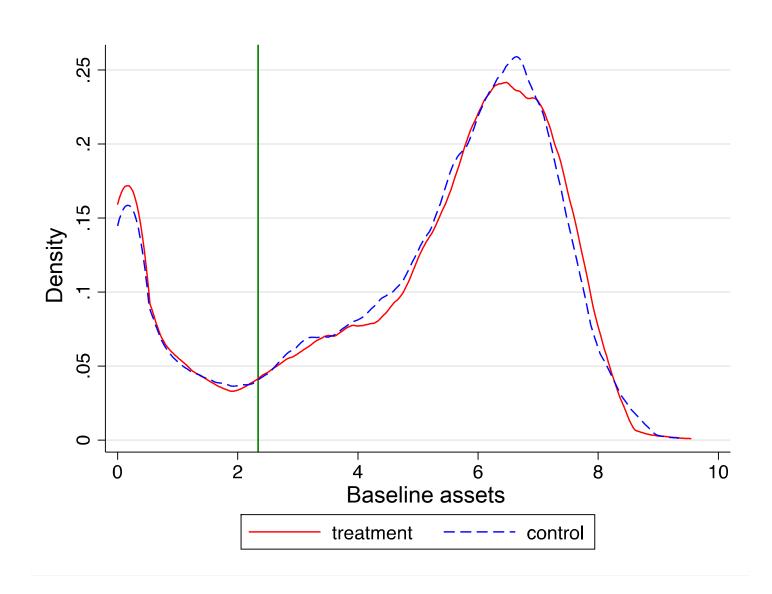
Further Implications of the poverty trap argument

Suppose \widehat{k} is an unstable steady state

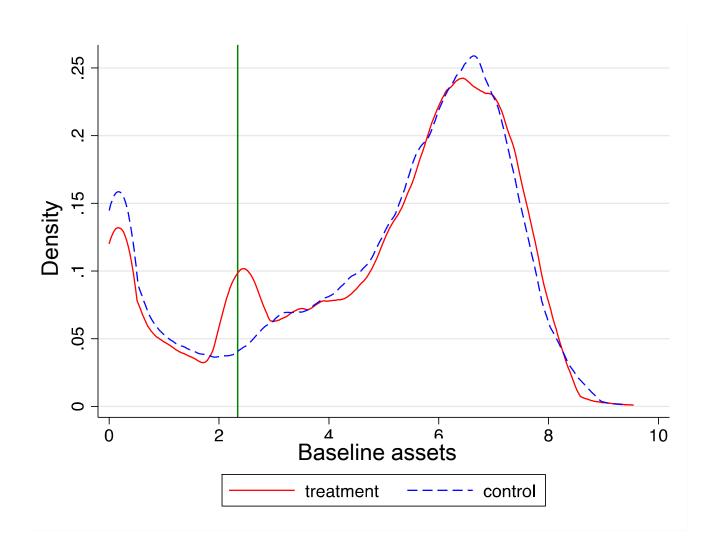
1. In equilibrium there should be no-one around it: people are either at the low or at the high SS

2. People brought by the program to the left of \hat{k} should lose assets, those to the right should accumulate

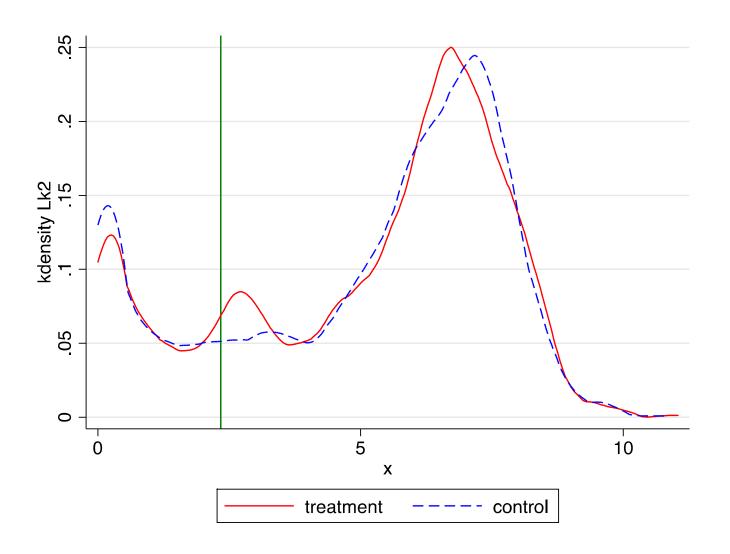
At **baseline** the distribution of assets is bi-modal and density around the threshold is low



After 2 years, some of the ultra-poor have crossed \hat{k}



After 4 years, more of the ultra-poor have crossed \hat{k}



Is this really a poverty trap?

Identification exploits differences in baseline assets

These could be correlated with

Traits - e.g. productivity - that determine the return to k

- the estimated \hat{k} is an average of different thresholds
- no guarantee that people below it would be able to escape poverty had they been given enough

Shocks that drive capital accumulation

Other explanations?

We consider some other explanations to assess whether the patterns we observe can be explained by differences in productivity correlated with baseline assets

1. Missing mass test

2. Sorting test

1. Missing Mass Test

Could Missing Mass be Driven by the A's?

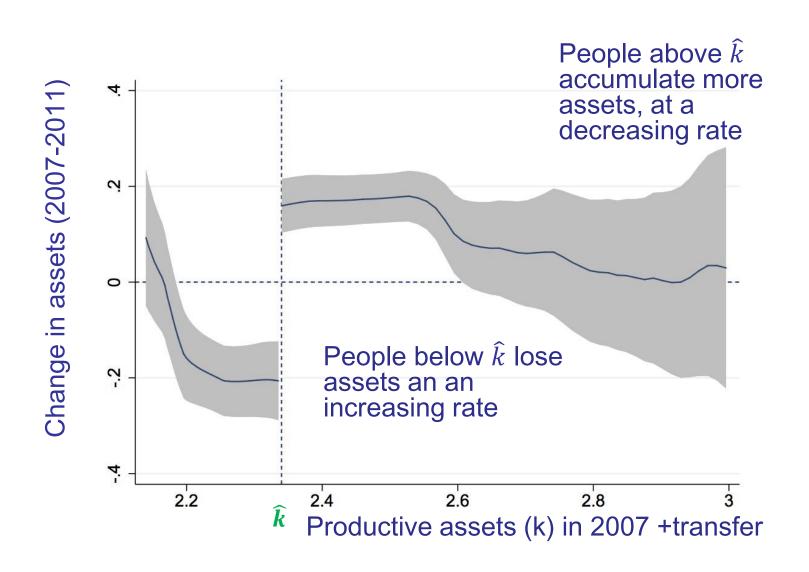
- One alternative explanation is that we are in the convergence world and A is correlated with baseline capital.
 - Individuals with low baseline capital have low A, and hence a low steady state, which they revert back to after the transfer.
 - Individuals with high baseline capital have high A, and hence a high steady state
 - They hadn't fully converged to it before the transfer, but the transfer accelerates their convergence (and training shifts the unique steady state)

Could Missing Mass be Driven by the A's?

• If this explanation was true, we would expect to see the change in assets to be increasing steadily in baseline assets, starting with negative change at low levels of baseline assets.

• Instead, we find the change to be decreasing in baseline assets below \hat{k} and then there being a discontinuous jump.

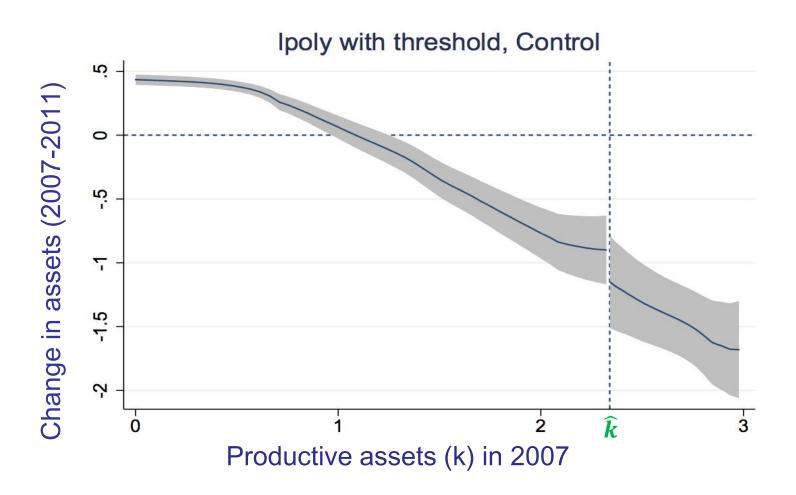
Response to asset transfer in data, allowing for discontinuity



For this to happen in the alternative explanation above, the relationship between A and baseline capital would have to follow a similar pattern, which is unlikely.

 Difficult to think of distribution of A that would produce the treatment pattern

Similar plot with the control group



Consistent with no evidence for PT in panel data from China (Jalan and Ravallion, 2004), Hungary and Russia (Lokshin and Ravallion, 2004), or Pakistan and Ethiopia (Naschold, 2013).

 Mean reversion - this is the pattern we would expect if individuals experience random shocks in each time period around some constant mean.

• Had it not been for the programme, people above \hat{k} would have experienced a bigger loss due to mean reversion

- If individuals with higher baseline assets have higher A, hence high steady state level of capital, which they are still converging towards, this graph should be increasing.
- For example, people with high baseline assets have experienced a positive asset shock just before baseline and are more likely to display lower asset level in the next survey round.
- Rules out the conditional convergence explanation

Difference in difference estimates

	above \hat{k}	below \hat{k}	
treatment	.109	154	262***
control	026	.219	.244***
	134***	.372***	507***

This shows that hadn't it been for the treatment pushing people above \hat{k} to the new high SS, people with higher k would have been more likely to lose assets (mean reversion to low SS)

Innate traits (A)

Assume a standard Cobb-Douglas production function:

$$y = AK^{\beta_1}L^{\beta_2}H^{\beta_3}$$

 We want to test whether under this assumption the distribution of A can explain the observed bimodal distribution of productive assets.

A is unobserved

estimate from panel of control HHs

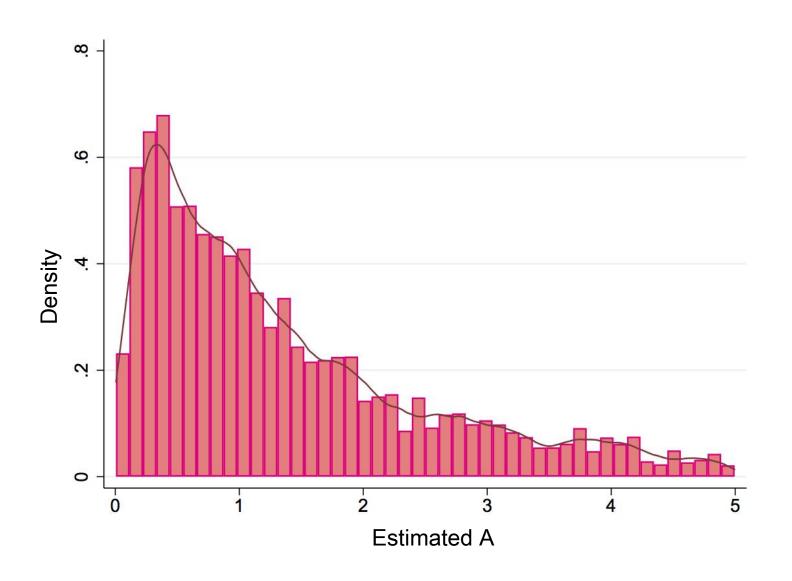
• $y_{i,t}$ is total income of the respondent, $K_{i,t}$ is productive assets, $L_{i,t}$ is total hours worked, $H_{i,t}$ is respondent's years of education, γ_i is an individual fixed effect, δ_t is a time fixed effect, $\varepsilon_{i,t}$ is an idiosyncratic error, and $t \in \{2007, 2009, 2011\}$.

Regression equation:

$$\ln(y_{i,t}) = \beta_1 \ln(K_{i,t}) + \beta_2 \ln(L_{i,t}) + \beta_3 \ln(H_{i,t}) + \gamma_i + \delta_t + \varepsilon_{i,t}$$

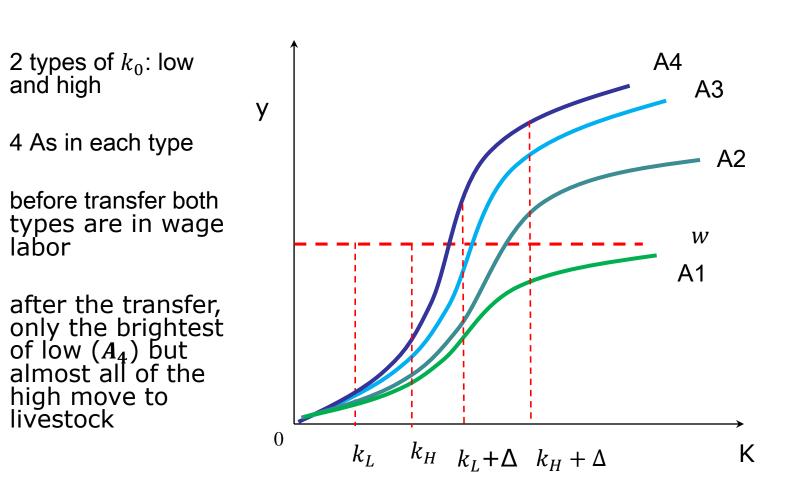
• We interpret $\exp(\hat{\gamma}_i)$, the individual fixed effect, as a measure of (unobserved) innate traits (A).

Could Missing Mass be Driven by the A's? But A is unimodal



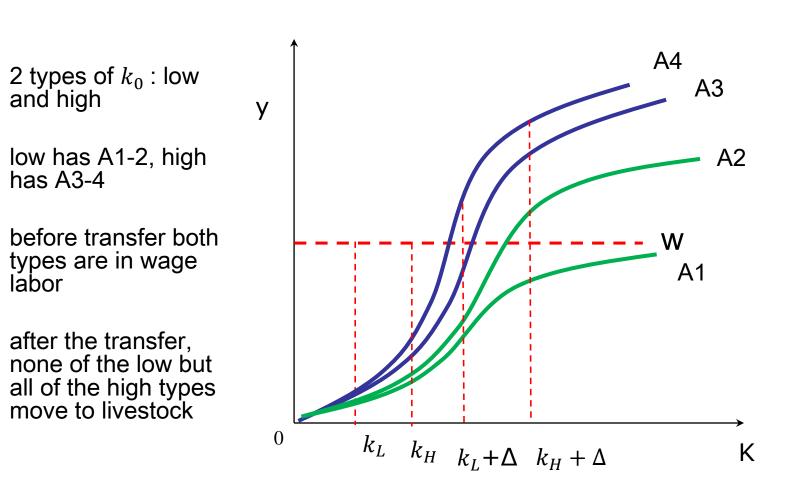
2. Sorting to Occupation Test

Sorting when A is uncorrelated with k_0



The average A for switchers is **decreasing** in k_0 The max A for switchers is **constant** in k_0 The min A for switchers is **decreasing** in k_0

Sorting when A is correlated with k_0

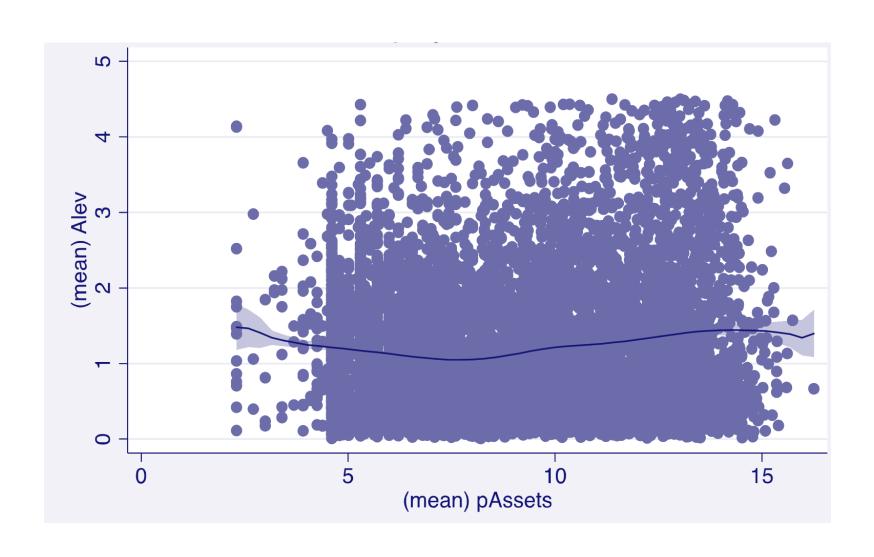


The average A for switchers is **increasing** in k_0 The max A for switchers is **increasing** in k_0 The min A for switchers is **increasing** in k_0

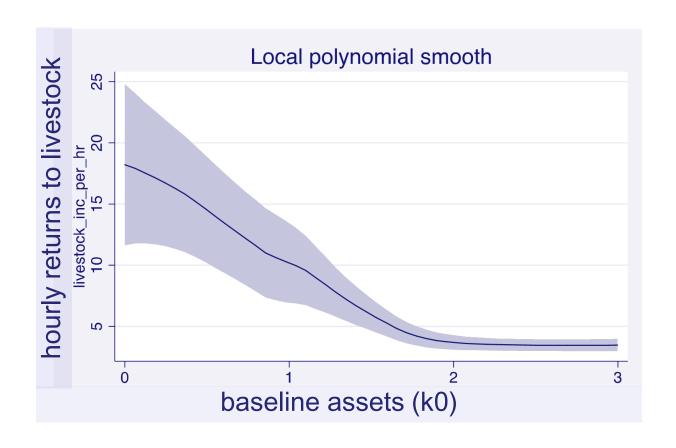
Implications of $cov(k_0,A)=0$ (vs $cov(k_0,A)>0$)

- 1. The average A for switchers is decreasing in k_0 (increasing)
- 2. The max A for switchers is **constant** in k_0 (increasing)
- 3. The min A for switchers is **decreasing** in k_0 (increasing)

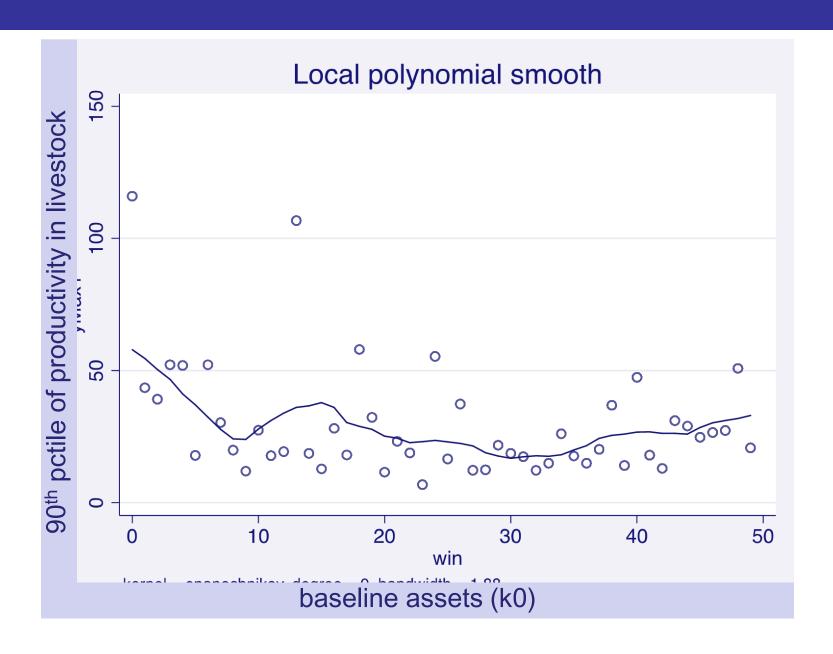
A is not correlated with k_0



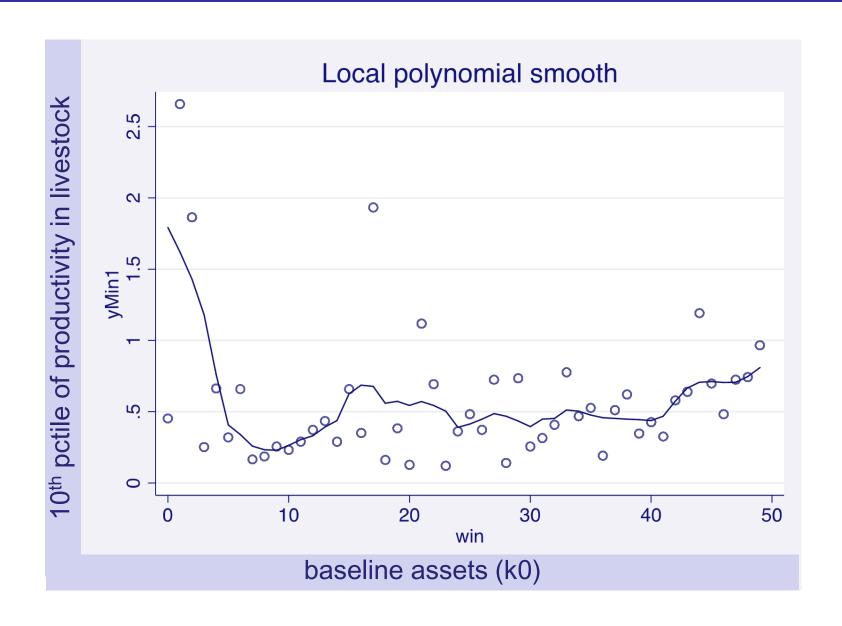
1. Average productivity of switchers is decreasing



2. Max productivity of switchers is flat



3. Min productivity of switchers is decreasing

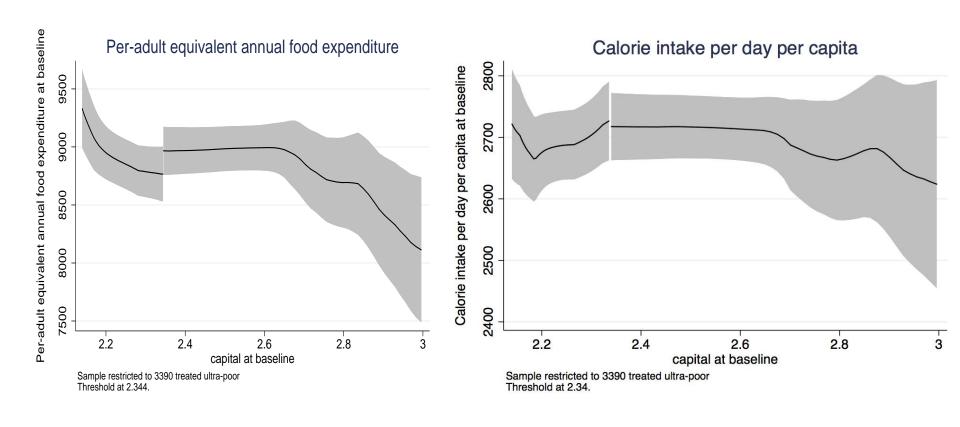


Implications of cov(k0,A)=0 (vs cov(k0,A)>0)

- The average A for switchers is decreasing in k0 (increasing) ✓
- 2. The max A for switchers is *constant* in k0 (increasing)
- 3. The min A for switchers is decreasing in k0 (increasing) ✓

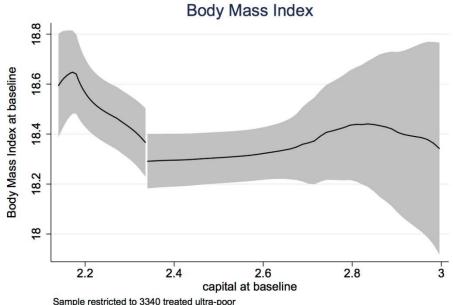
Mechanisms behind the Discontinuity

Nutrition

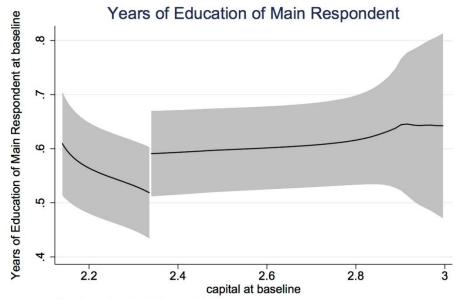


cost of calories low relative to income even of the poorest (Subramanian and Deaton 1997, Banerjee and Duflo 2011)

Human capital

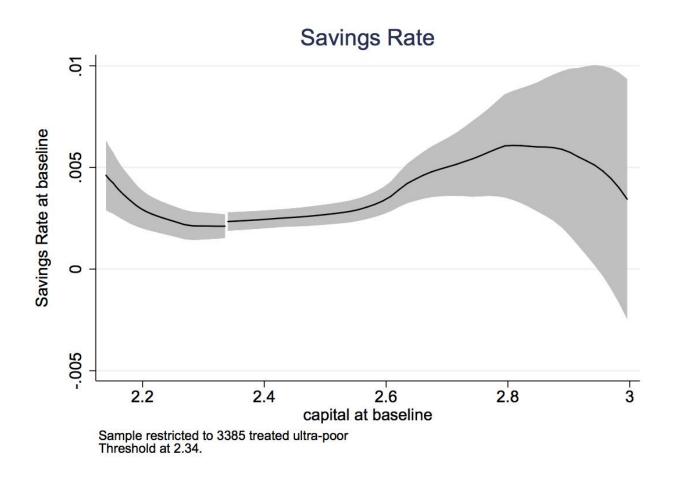


Sample restricted to 3340 treated ultra-poor Threshold at 2.34.



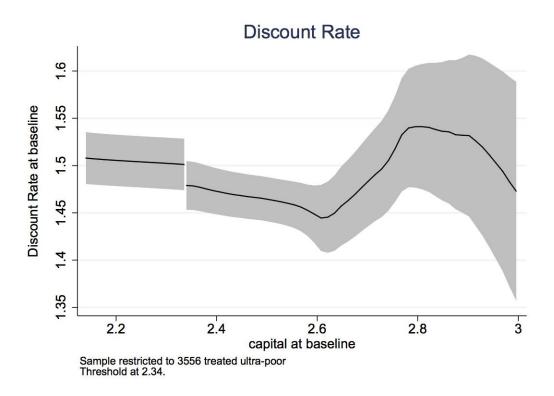
Sample restricted to 3540 treated ultra-poor Threshold at 2.34.

Behavioral 1: impatience



Temptation goods or limited attention lead the poor to make worse choices (Banerjee and Mullainathan, 2010; Shah et al., 2012).

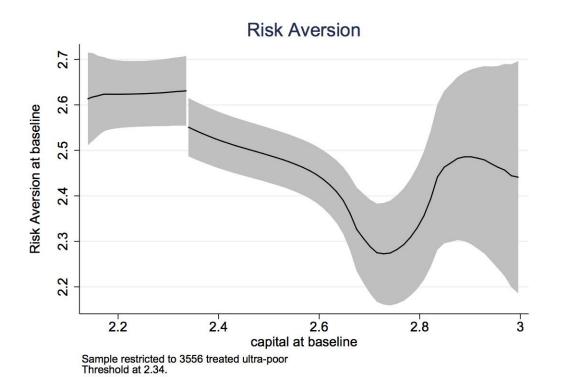
Behavioral 1: impatience



Suppose you have won 200 taka in a game. You can get this 200 taka today or get 250 taka instead in one month. Which one would you prefer?

- 1) 200 taka today
- 2) 250 taka in one month

Behavioral 2: risk aversion



Which payoff would you prefer?

- 1) 100 for winning, 100 for losing
- 2) 200 for winning, 60 for losing
- 3) 300 for winning, 20 for losing
- 4) 400 for winning, 0 for losing

Regressions: preferences and human capital

	(1)	(2)	(3)	(4)	(5) years of schooling,
VARIABLES	Savings Rate	Risk Aversion	Discount Rate	Body Mass Index	main female respondent
Baseline productive assets	0.0139	-1.434**	-0.0934	0.0678	-0.298
Daseine predactive accets	(0.00934)	(0.724)	(0.233)	(1.338)	(0.868)
(Baseline productive assets)^2	-0.00196	0.212*	0.00862	-0.00769	0.0415
	(0.00138)	(0.114)	(0.0365)	(0.213)	(0.137)
Above Threshold	-0.000724	-0.0313	-0.0199	-0.137	0.0758
	(0.000535)	(0.0767)	(0.0284)	(0.111)	(0.0828)
Constant	-0.0188	4.774***	1.672***	18.33***	1.005
	(0.0142)	(1.057)	(0.342)	(1.944)	(1.267)
Observations	3,385	3,556	3,556	3,340	3,540
Mean of dependent variable	0.00299	2.532	1.481	18.37	0.575

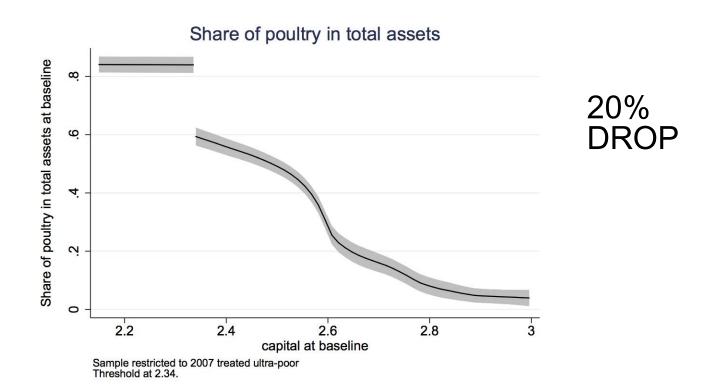
^{***} p<0.01, ** p<0.05, * p<0.1

Regression discontinuity around threshold of 2.34. Standard errors are clustered at the spot ID level. Risk aversion is measured on a scale of 1 to 4 with higher values corresponding to lower risk aversion. Discount Rate is a binary variable indicating whether the respondent prefers a payment of 250Tk in 1 month over 200Tk now.

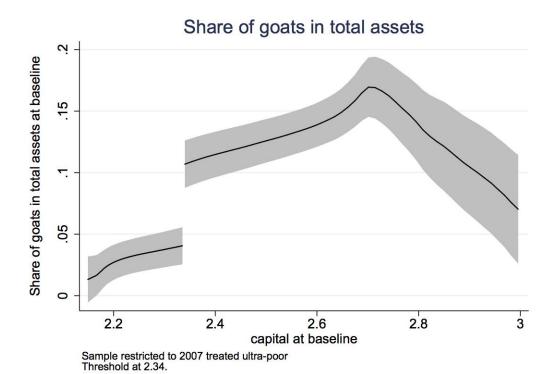
Technology

- Why can't the poor get past \hat{k} on their own?
- Indivisible investments: Given a limited set of production technologies and borrowing constraints, individuals face a non-convex production function (e.g. Banerjee and Newman, 1993; Aghion and Bolton, 1997).
 - Supporting evidence: Pastoralists in rural Ethiopia (Lybbert et al., 2004; Santos and Barret 2011) and Kenya (Barrett et al. 2006).
- Evidence for IRS
 - fixed factors/indivisibilities

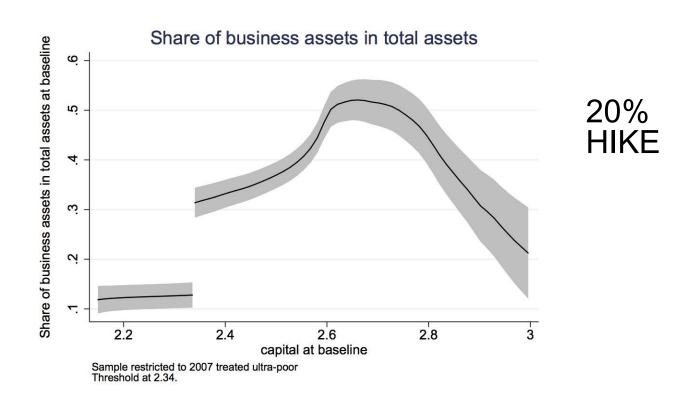
Asset composition differs: fewer chickens



More goats



More business assets (esp rickshaw and boats)



Regressions: composition of capital

,	(1)	(2)	(3)	(4) baseline
		baseline	baseline	share of
	Value of	share of	share of	business
	homestead	poultry in	goats in	assets in total
VARIABLES	land owned	total assets	total assets	assets
Baseline productive assets	13,375***	-0.390***	-0.0643***	-0.205***
	(2,715)	(0.0218)	(0.00785)	(0.0161)
Above Threshold	670.2	-0.323***	0.0970***	0.289***
	(889.5)	(0.0264)	(0.0124)	(0.0249)
Constant	-25,407***	1.730***	0.182***	0.592***
	(6,163)	(0.0542)	(0.0195)	(0.0420)
Observations	3,556	2,007	2,007	2,007
Mean of dependent variable	8239	0.483	0.0859	0.270

^{***} p<0.01, ** p<0.05, * p<0.1

Regression discontinuity around threshold of 2.34. Standard errors are clustered at the spot ID level. Capital shares are calculated as a fraction of total baseline productive assets.

Taking stock

- Evidence that rural poor are locked into low productivity occupations
- Sufficiently large transfers of productive assets (and training)
 can allow households to change occupation sustainably
- Those households who are elevated above a poverty threshold save and invest year after year and diversify into other assets (e.g. land)
- Alternative approach: Address households' autarky by infrastructure investments to reduce marketization/trade costs and allow rural households/regions to trade

Taking stock

- Beneficiaries who do not start with complementary inputs regress back to poverty despite the large transfers
- Those who do are elevated above the threshold and set on a sustainable path out of poverty
- They save and invest year after year
- They diversify into assets (e.g. land) that were not transferred by the program

Policy

The evidence in one slide

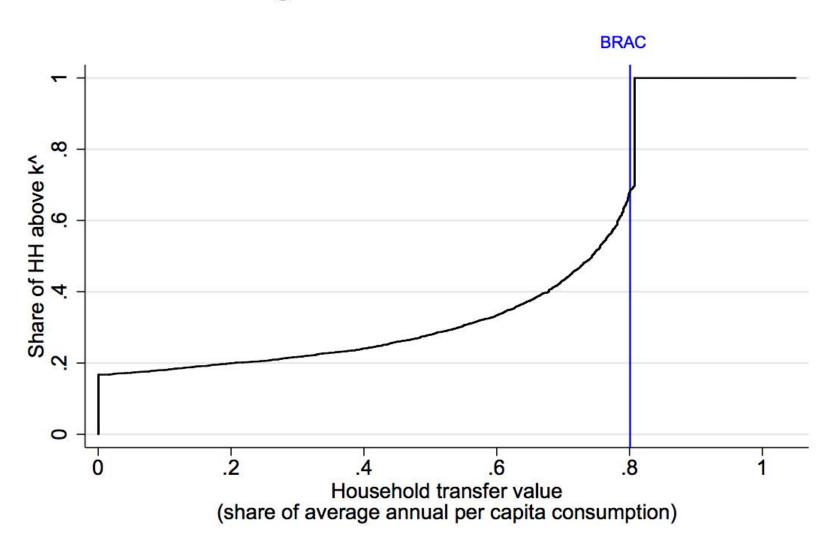
- Microfinance is cheap (even profitable) but ineffective at allowing access to more remunerative occupations (Meager 18, Banerjee et al 15)
- Vocational training programs typically have low take up if not they are effective, but expensive (McKenzie 17, Alfonsi et al 18)
- Large assets & cash grants are effective at promoting occupational change, but expensive (Banerjee et al 15, Blattman et al 14,16, Bandiera et al 17)

Policy implications

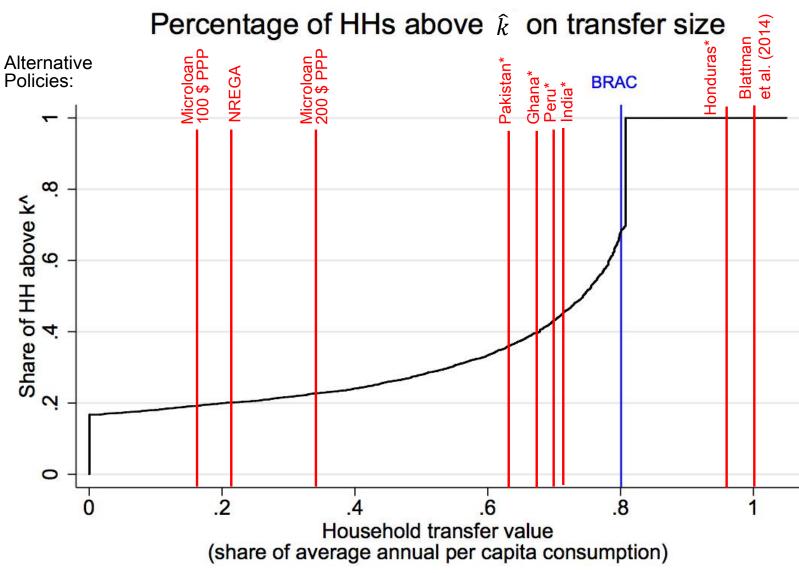
- The existence of a poverty threshold implies that only transfers large enough to push beneficiaries past the threshold will reduce poverty in the long run
- Smaller transfers might increase consumption for a short period but will have no long lasting effects
- BRAC asset transfer worth \$515 (1 year of PCE) was enough for 66% of beneficiaries
- Micro-loans are typically <\$200, which might explain the disappointing effects of microfinance
- For average effects to be high, need large number of people to cross the hump

A big problem requires a big solution

Percentage of HHs above \hat{k} on transfer size



A big problem requires a big solution



^{*} Country names refer to study sites in Banerjee et al. (2015)

Next steps - extended model

- We are currently extending the preliminary framework to allow for:
 - Individuals to split time between livestock rearing and wage labour
 - Change in total hours worked as a result of the programme
- These are both observed in the data
- In this setup, we can take FOCs to the data to:
 - Solve for each individual's productivity term A_i in livestock rearing
 - Quantify the extent of misallocation at baseline

Conclusions

- Poor people are not unable to take on more productive employment activities – they just lack the needed capital
- Program releases this constraint those closer to the threshold cross it and move out of poverty, those further away sink back into poverty
- Key policy conclusion need big push policies to tackle persistent poverty
- These policies need to focus on tapping into the abilities and talents of the poor rather than just propping up their consumption

thank you