Further analysis on Bolivia

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Motivations

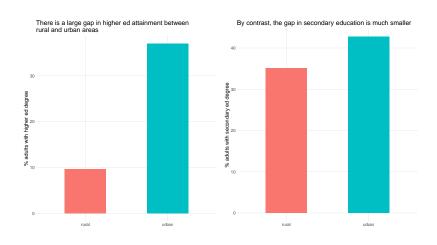
- ► Elaborate further on the rural/urban pillar
 - ► How does the rural/urban divide play out in one's lifetime?
 - ► When is the inflection point, if any? Does the impact of geography come earlier in life, during one's education, or manifest later, when one enters the workforce?
- ▶ Does the generational cycle of poverty really exist? How can we answer this question with cross-sectional data?
- ► What is the connection between the social class pillar and (in)formal employment? Disentangle the mutual influence between (in)formality and income

Main components

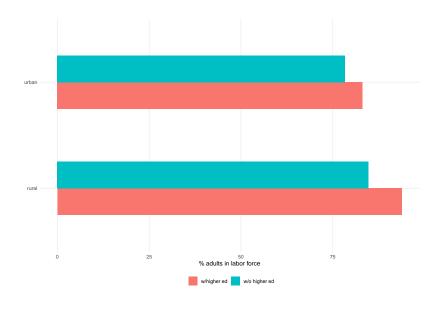
- Wage premium of higher education between rural and urban areas
- ▶ Differences between rural households with and without domestic remittances, which are presumed to come from family members in cities
- ► Different generations' incomes in multi-generational households
- ▶ Incomes of individuals working in formal vs. informal jobs

Wage premium of higher education between rural and urban areas

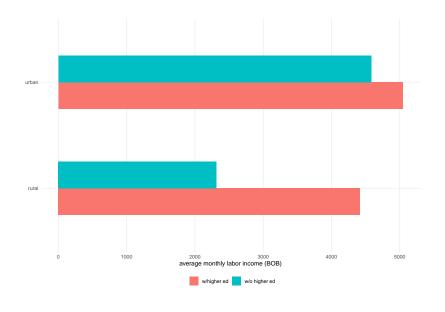
Percentage of adults with higher education



LFP rates among adults with higher ed, by area



Average labor earning by higher ed status and area



Inflection point: when rural residents migrate to cities?

Rural households with and without domestic remittances

- ► Households receiving domestic remittances are poorer and not that much smaller
- ► The per capita income gap is orders of magnitude greater than the gaps in percentage of working adults and per capita weekly work hours

Table 1: Rural households by remittance

has_remit	nhh	hhsize	remit	inc	pc_inc	lfp	lfp_paid	work_hr
FALSE	1599	3.78	0	4374	1513	85.7	66.4	45.3
TRUE	299	3.45	540	3172	1044	85.0	65.7	43.7

Examine the assumption: which way do remittances flow?

Table 2: Rural households by remittance

has_remit	nhh	hhsize	remit	inc	pc_inc	lfp	lfp_paid	work_hr
FALSE	1599	3.78	0	4374	1513	85.7	66.4	45.3
TRUE	299	3.45	540	3172	1044	85.0	65.7	43.7

Table 3: Urban households by remittance

has_remit	nhh	hhsize	remit	inc	pc_inc	lfp	lfp_paid	work_hr
FALSE	6325	3.71	0	7902	2521	80.5	73.1	47.1
TRUE	888	3.46	907	6258	2054	76.6	67.7	44.3

16% of rural households and 12% of urban households receive domestic remittances

Examine a deeper assumption: what is rural, what is urban?

- ▶ Bolivia's definition of "urban": Localities with 2,000 inhabitants or more (UN, World Urbanization Prospects, 2011)
 - ► The way a "locality's" boundary is drawn can determine whether it counts as urban or rural
- ► While on paper it seems like 80% of adults live in urban areas (EH 2018), trends like peri-urbanization, expansive urban growth, and diffusion of urban form in villages blur the rural-urban boundaries (O'Hare & Rivas 2007)





Examine a deeper assumption: what is rural, what is urban?

- ► We don't know which way the remittances really flow
- ► The summary statistics on households w/remittances could change if the threshold of rural/urban is moved
- ► Moreover, this calls into question the rural/urban pillar itself

Another look: there are still differences

 Table 4: Rural households by remittance

has_remit	nhh	hhsize	remit	inc	pc_inc	lfp	lfp_paid	work_hr
FALSE	1599	3.78	0	4374	1513	85.7	66.4	45.3
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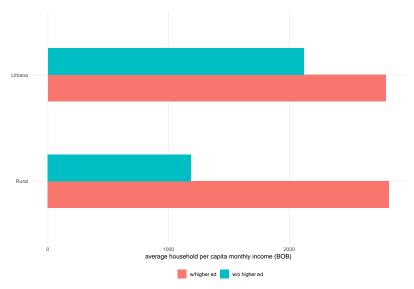
Table 5: Urban households by remittance

has_remit	nhh	hhsize	remit	inc	pc_inc	lfp	lfp_paid	work_hr
FALSE	6325	3.71	0	7902	2521	80.5	73.1	47.1
TRUE	888	3.46	907	6258	2054	76.6	67.7	44.3

► Remittances are higher among urban households

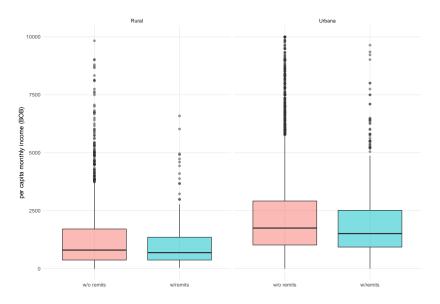
► Inflection point: higher education

Who are the migrants?

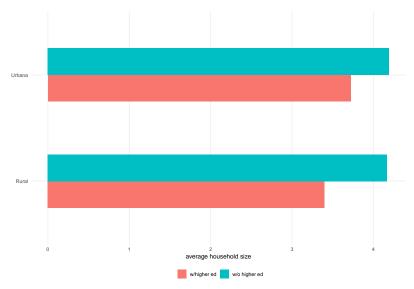


People without higher ed come from poorer families, aka families that are more likely to have remittances

Who are the migrants?



Who are the migrants?



People without higher ed come from slightly larger families, who are more likely to produce surplus labor who flows to cities

Who are the migrants? Urbana Rural

Think: women and girls also tend to be the ones doing unpaid labor

% women or girls
receives remittances FALSE

Connect the dots: extrapolate a "typical" migrant

- ► From a poor household in need of extra income
- ► A man
- ► Without higher education
- ► There are enough hands at home for subsistence farming or other unpaid family-based productive activities
- ► Drawn to lucrative jobs in the cities
 - ► Remember that even someone without a college degree in cities earns a bit more than someone with a college degree in villages
- ► Make it in the city? How does he stack up against other migrants from (smaller) urban areas, who are more likely to be college educated?
- ► Migration flow: rural villages -> small cities -> large cities

The bottom line

- ► The (first) inflection point comes earlier in life, in higher education attainment
- ightharpoonup While the premium for higher ed is high in rural areas, the educational opportunities are low: only <10% go to university
- ► The disadvantage in education is manifested later on whether one migrates to cities or stays in the countryside and takes on low-paid jobs
- ► But the educational discrepancy is also a structural issue, where university is reserved for the rich