

# The Design of Social Protection Programs for the Poor:

In-Kind Asset Transfers versus Unconditional Cash Transfers

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**Pakistan Poverty Alleviation Fund**

Restoring Hope, Securing the Future, Ending Poverty

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# Social Protection Programs

- **This study:**
- compare household responses to **in-kind asset transfers** vs. **unconditional cash transfers**
- design of SPP is a **key policy** issue for many countries:
  - evidence base on high returns to asset transfers [Banerjee et al. 2015, Bandiera et al. 2015]
  - emerging evidence on the efficacy of UCT [Blattman et al. 2014]
- Pakistan policy debate: BISP UCT, in-kind asset transfers...
- **Economic theory:** **with perfect markets and standard decision making processes**, always possible to **perfectly replicate** outcomes from in-kind transfers using UCT
- Implication: can never do worse with UCT

# Why Might Returns to In-kind and Cash Transfers Differ?

- **market imperfections** faced by the poor:
  1. transactions costs in accessing markets: distance/time
  2. missing/imperfect markets: skills, information [Das et al 2005, de Janvry and Sadoulet 2005]
  3. informal taxation by kin (imperfect market for social insurance)  
[Fafchamps et al. 2013, Angelucci et al. 2015]
- **decision making** of the poor:
  4. household decision making: marital preferences/bargaining
  5. individual (unitary) decision making:
    - labelling/mental accounting/flypaper effects
    - commitment/self-control
    - demand for control

# Policy Issues for Choice Between In-Kind and UCT

- **political support** among non-beneficiaries might hinge on in-kind over cash
- **endorsement effects** of in-kind (or labelled) transfers  
[Benhassine et al. 2013]
- in-kind transfers more **costly to implement** than UCT
  - parallels to literature comparing CCT and UCT
- Our study: understand how such concerns might need to be weighed against the differential effectiveness of the two types of SPP

# PPAF Intervention Components

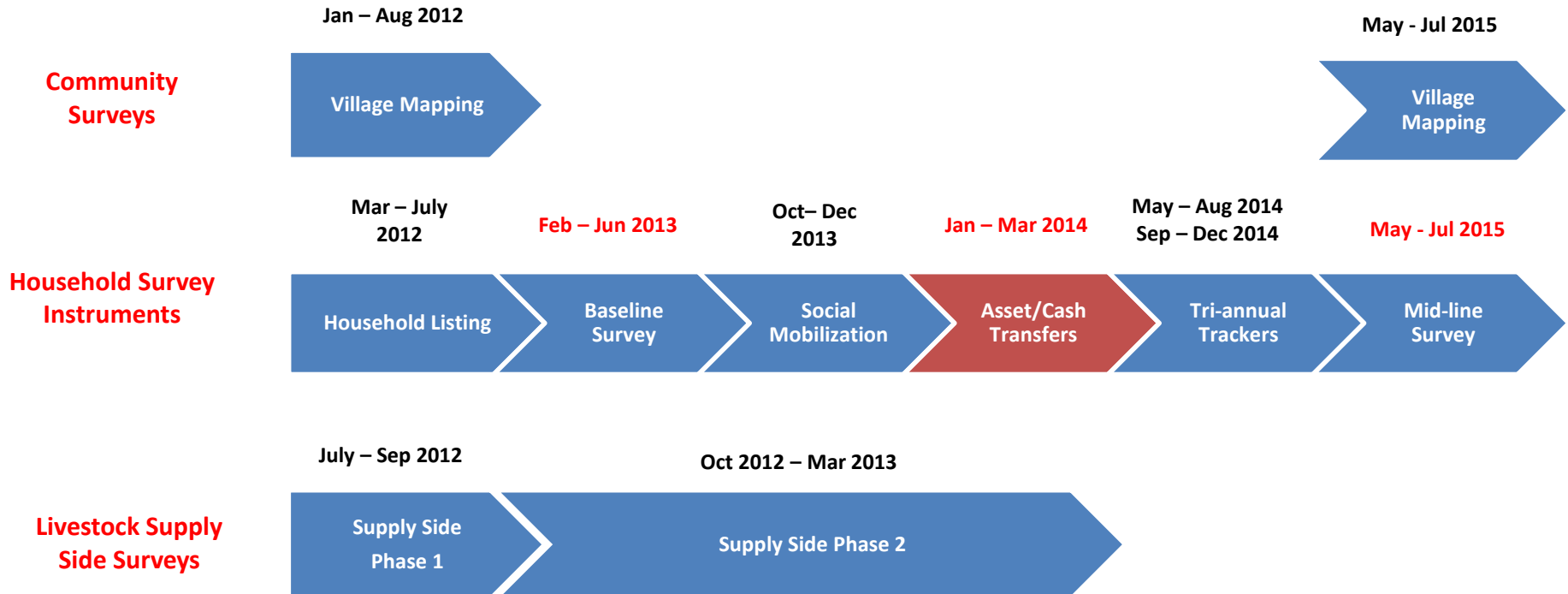
- HH listing in each village [poverty scores 0-100]
- Eligible households: poverty score 0-18
  - the poorest 30% of households
- Market assessment in all villages
- T1: choice of in-kind transfer from asset menu
  - household can choose **multiple** asset-skill bundles up to the value of PKR62K
- T2: same choice but with one more listed option
  - **equivalent valued UCT** [PKR62K]

# Example of a Village Asset List

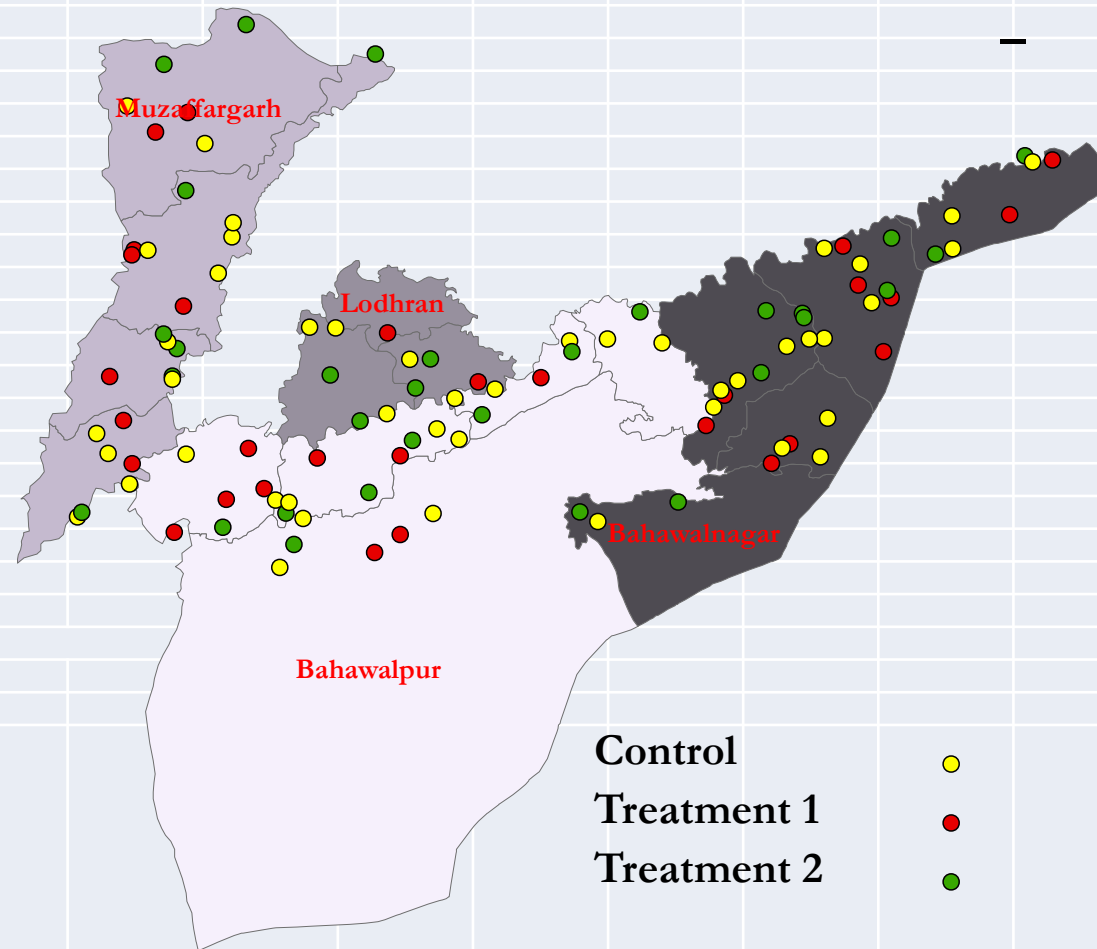
Livestock	Retail	Crop Farming	Non-Livestock Production
Goat Raising (One Goat @ 15k)	Grocery Shop (material up to 50k)	Cultivation of cotton (seeds 20k + fertilizer 15k)	Tailoring (Sewing machine 6k + table 4k)
Dairy Farming (One Cow @ 48K)	Fruit Stall (Stall @ 5k + Fruit up to 45k)	Pesticides @ 50k	
Calf Rearing (One Calf @ 25k)	General Store @ 50k		
Fodder @ 50k	Barber Shop @ 35k		
Veterinary Medical Store @ 50k	Carpenter Shop @ 30k		
Animal Breeding Shop @ 40k	Cycle Repairing Shop @ 35k		

- Household can choose **multiple asset bundles** up to the value of **PKR50K**
- Fine tuning:** prices shown are indicative average values, but lots of variation (e.g. depending on age and breed of cow: 30-70K)
- Associated training always valued at additional **PKR12K**

# Surveys and Timeline



**Fig 1: Study Area and Sample Villages, by Treatment Status**



Notes: The map shows the study area covering four districts in Punjab. There are 45 Control villages and 58 Treatment villages. Treatment villages are divided between 29 villages in Treatment group 1 (receiving the offer of in-kind asset transfers and associated training), and 29 villages in Treatment group 2 (receiving the offer of in-kind asset transfers and associated training, or the equivalent unconditional cash transfer).

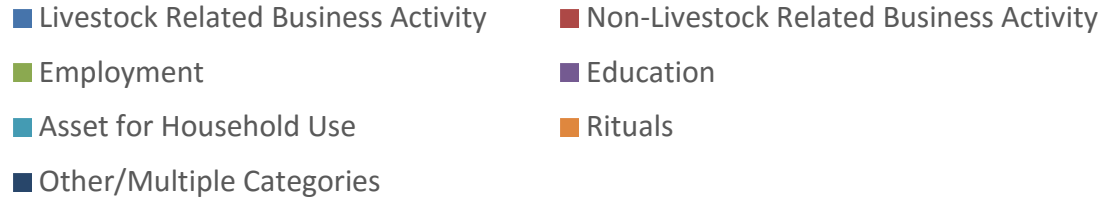
- Stratified random sampling: strata are geography and village size
- [\[Table 1: Random Assignment – villages and households look identical before the intervention\]](#)



# Asset Choices

Asset Category	Treatment 1		Treatment 2	
	Number of HHs	Percentage	Number of HHs	Percentage
Livestock: Productive Animals	518	58.5	18	1.9
Livestock: Draft Animals	222	25.1	10	1.1
Livestock: Combination	29	3.3	4	0.4
Retail	84	9.5	3	0.3
Crop farming	8	0.9	0	0.0
Other Asset Choices	24	2.7	0	0.0
<b>Cash</b>			912	96.3
Total	885	100	947	100

# T2: Intended Use of UCT



Not much intention to use UCT for assets we did not offer (e.g. education, migration)

# T2: Actual use of UCT

Livestock Choices/Purchases				
Means, standard deviation in parentheses				
Animal Type	Proportion of HHs that Chose Animal		Average Price per Animal (Rs)	
	(1) Treatment 1 [In-Kind]	(2) Treatment 2 [UCT]	(3) Treatment 1 [In-Kind]	(4) Treatment 2 [UCT]
Cows	.228	.201	48,643	50,810
	(.420)	(.401)	(2,372)	(16,264)
Calves	.447	.158	27,818	20,712
	(.498)	(.365)	(8,418)	(12,229)
Buffaloes	.060	.030	43,053	59,609
	(.237)	(.171)	(10,188)	(26,099)
Goats	.186	.145	14,898	10,919
	(.390)	(.353)	(10,389)	(7,621)
% HHs with livestock transfer/purchase	86.9%	46.1%		

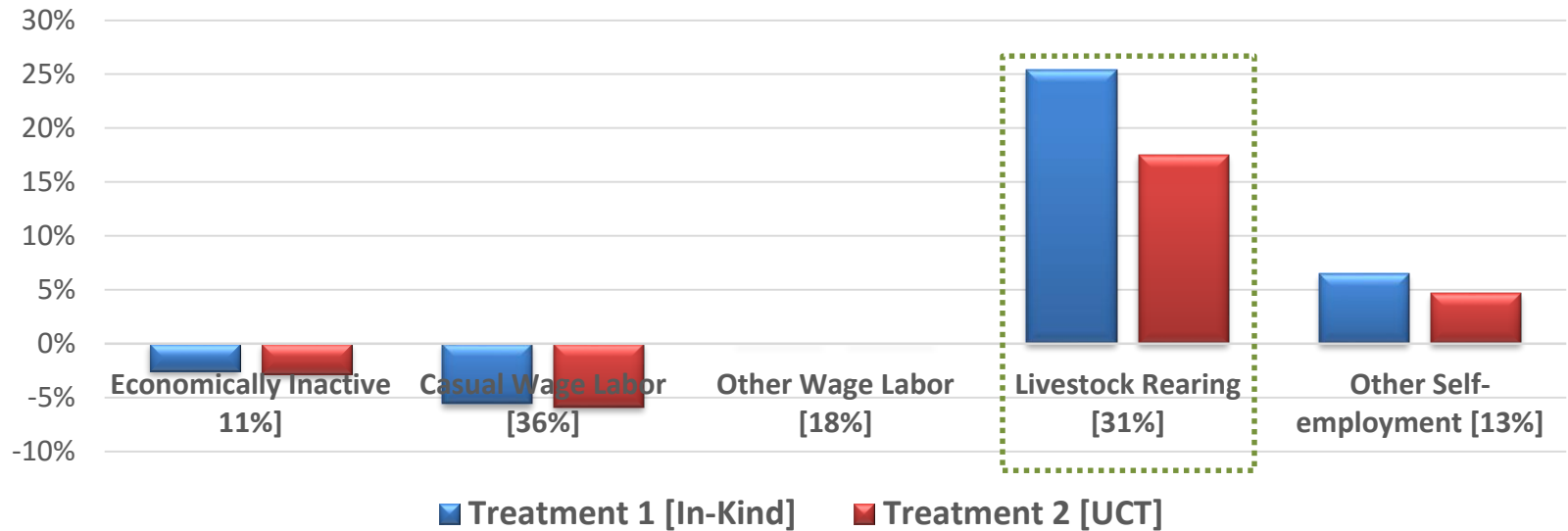
more variation in prices paid for livestock with UCT

# Very Short Run Impacts [one year]

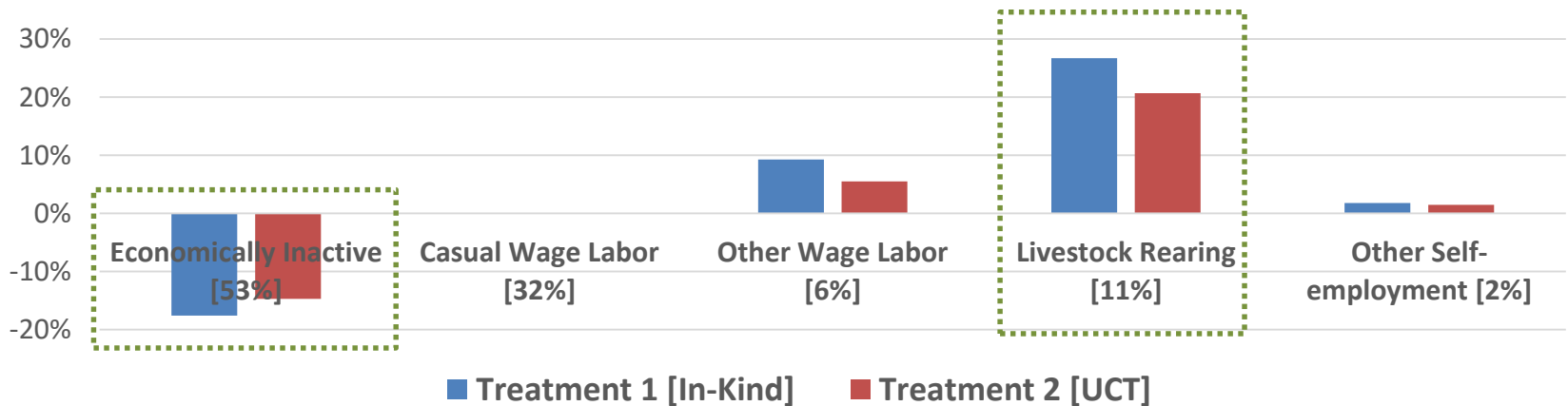
- Labor market activity by spouse:
  - extensive margin
  - intensive margin
- Expenditures:
  - consumption, savings, investment

# Labor Market Activity: Extensive Margin

## Men

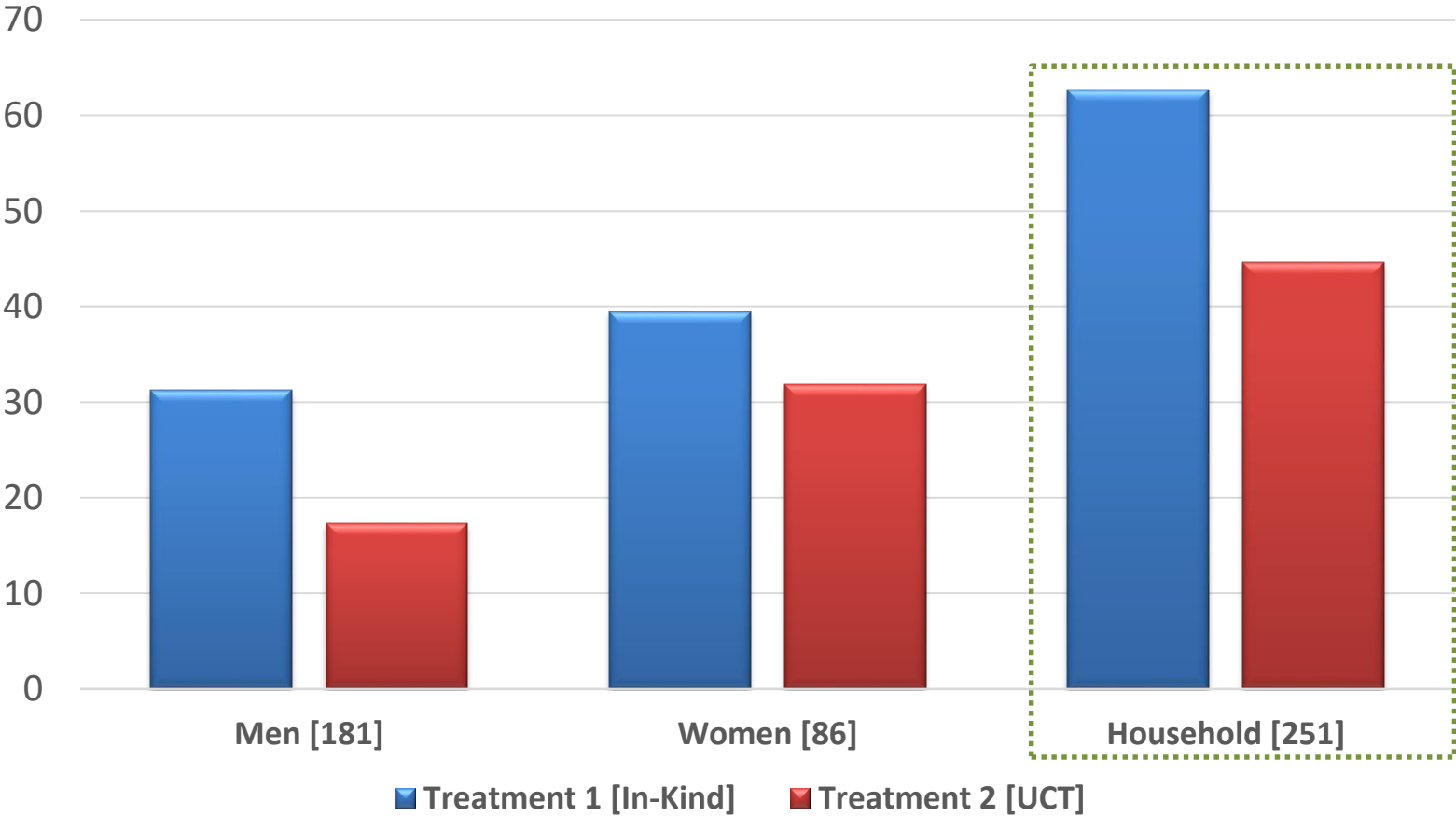


## Women



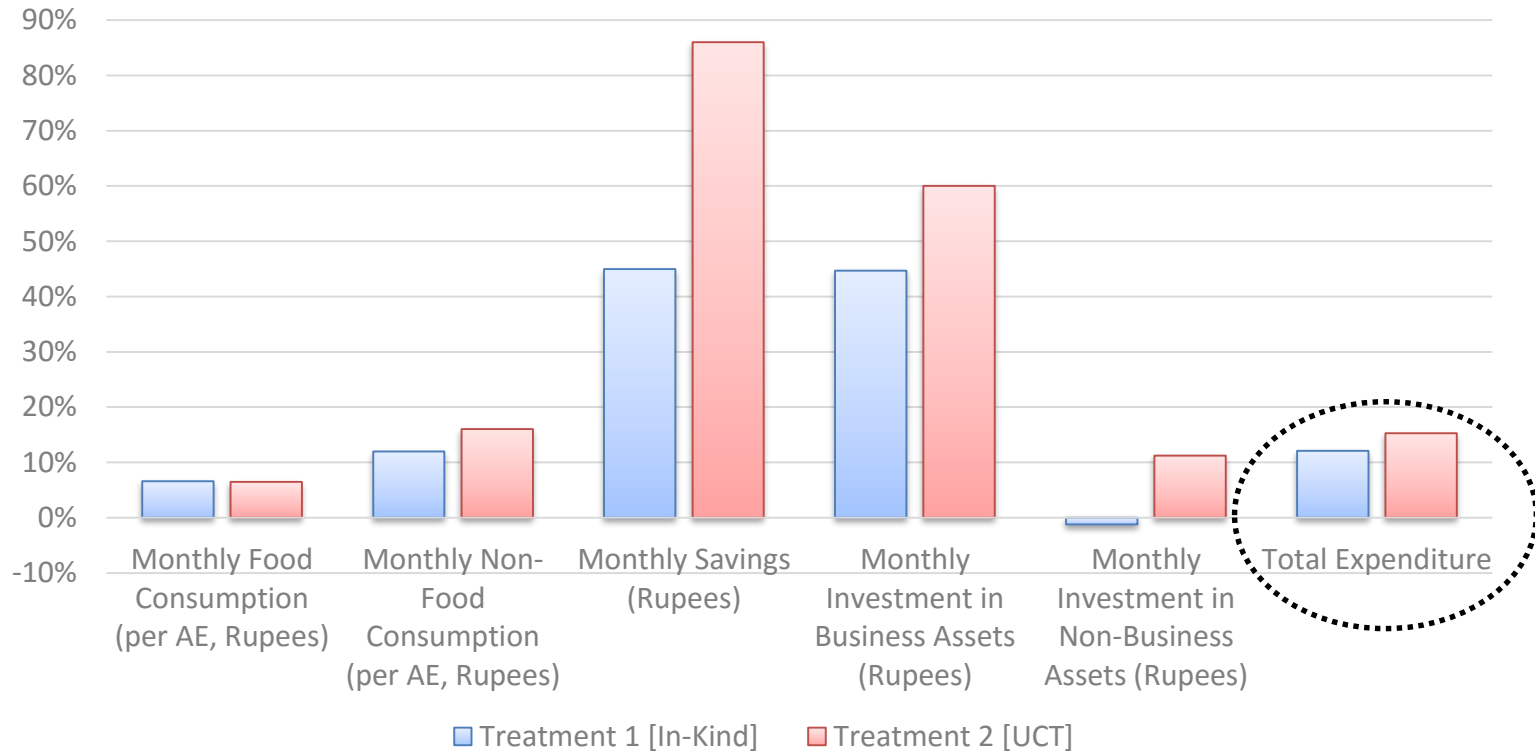
# Labor Market Activity: Intensive Margin

Total Hours per Month Spent Working in any Activity



# Expenditures

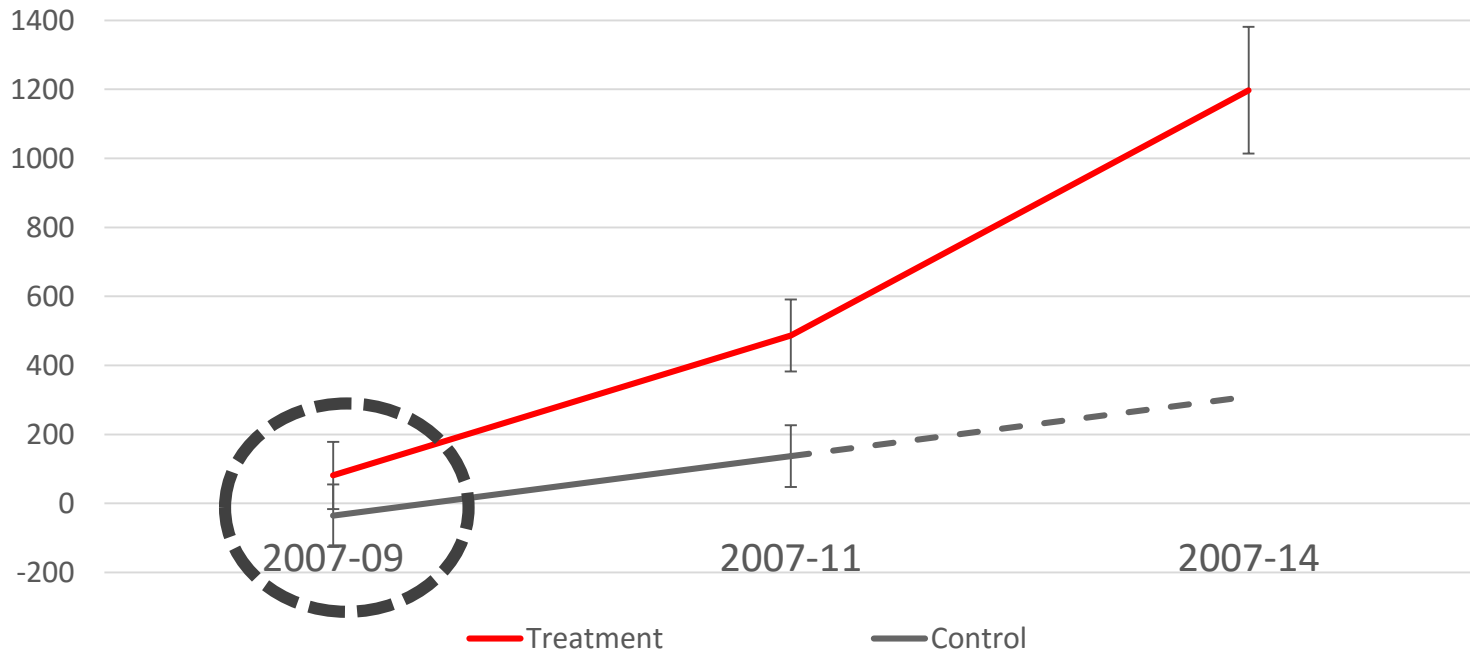
## Household Level Outcomes: % Change



# Next Step 1: Evolution of Outcomes

## Impacts of Asset Transfers Over Time: **Bangladesh**

Yearly changes in expenditure on non-durables after 2, 4 and 7 years  
(USD)



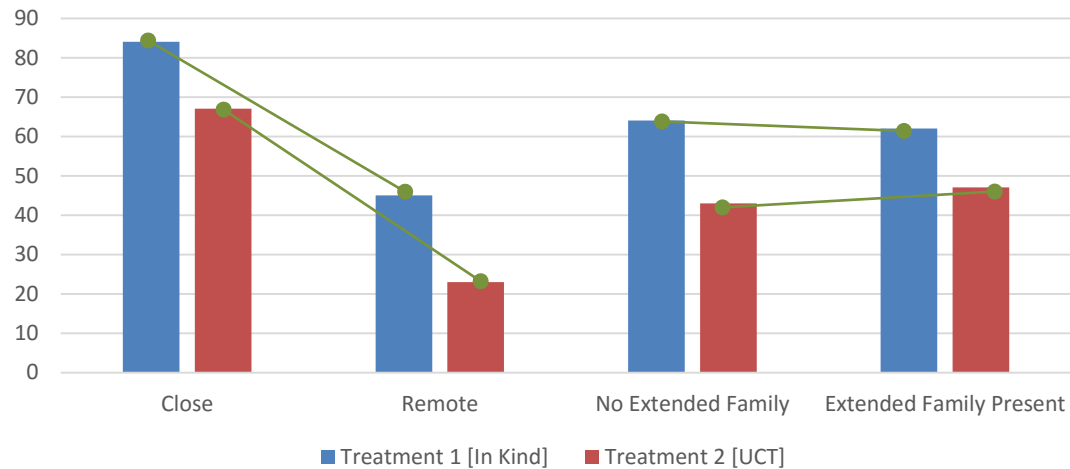
In Pakistan, even after very short run of one year, we see some important **wedges** opening up in differential responses to in-kind asset transfers and UCT:

- economic activity of women
- engagement in livestock rearing activities
- total hours of labor supplied across work activities

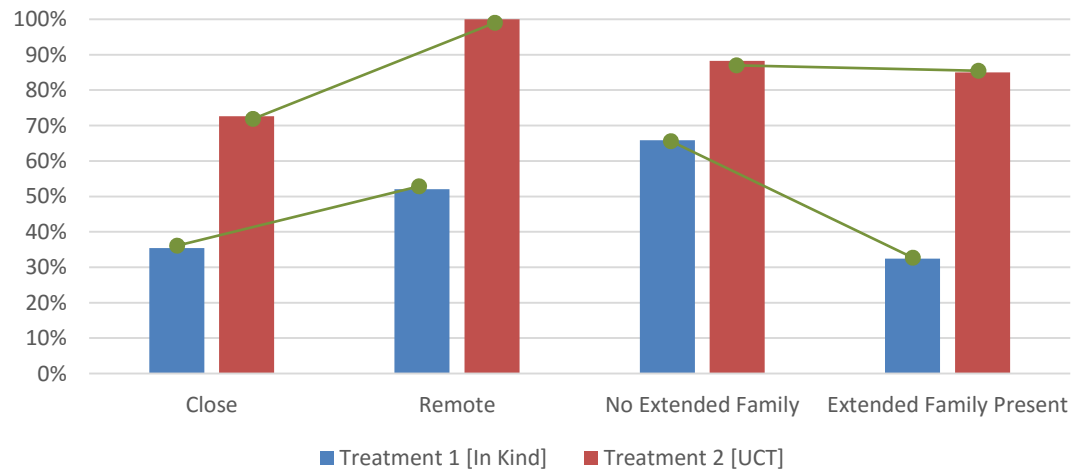


# Next Step 2: Heterogeneous Impacts

Change in Household Employment Hours per Month



% Impact on Household Savings



# Next Step 3: GE Effects

Evaluation Design: Household Sampling				
	Treated Ultra Poor	Non-treated Ultra Poor	Non-Poor	Total Households
Household Census	1832	7605	32061	41498
Baseline Survey	1688	1662	11063	14413
Livelihood Investment Plan	1832	0	0	1832
Tracker 1	1809	1554	0	3363
Tracker 2	1806	1518	0	3324
Midline Survey	1772	5917	10234	17923
	Evaluation of impacts of in-kind transfers versus UCT on Ultra Poor households			
	Spillover effects on other Ultra Poor households in the same village			
	Spillover and distributional effects non-poor households in the same village			

- Village wide spillover effects can differ between in-kind and UCT transfers targeted to the UP:
  - cash creates pure income effect on demand for goods
  - have differential price effects [Cunha 2013, Cunha, De Giorgi and Jayachandran 2014]