

Technical Innovations for Female Entrepreneurs in the Livestock Value Chain in Rural Nepal

Neena Gorkhali (Nepal Agricultural Research Council), Sarah Janzen (Kansas State University), Nicholas Magnan (University of Georgia), Conner Mullally (University of Florida), Sudhindra Sharma (Interdisciplinary Analysts), Bhola Shrestha (Heifer International), and Bhawna Thapa (University of Florida)

Research Objectives

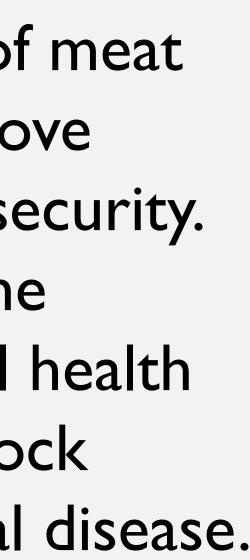
- I. Marketing: Increase access to markets of meat goats for smallholders in order to improve household income, nutrition, and food security.
- 2. Extension and animal health: Increase the percentage of female community animal health workers (CAHWs) for improved livestock productivity and the reduction of animal disease.

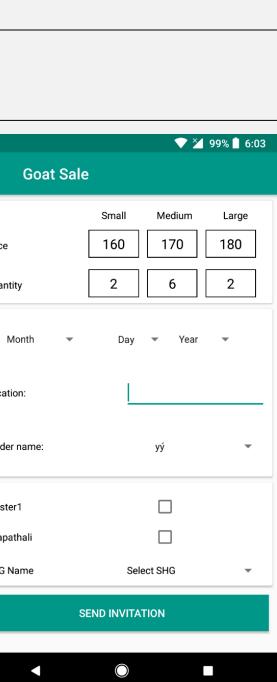
Methods

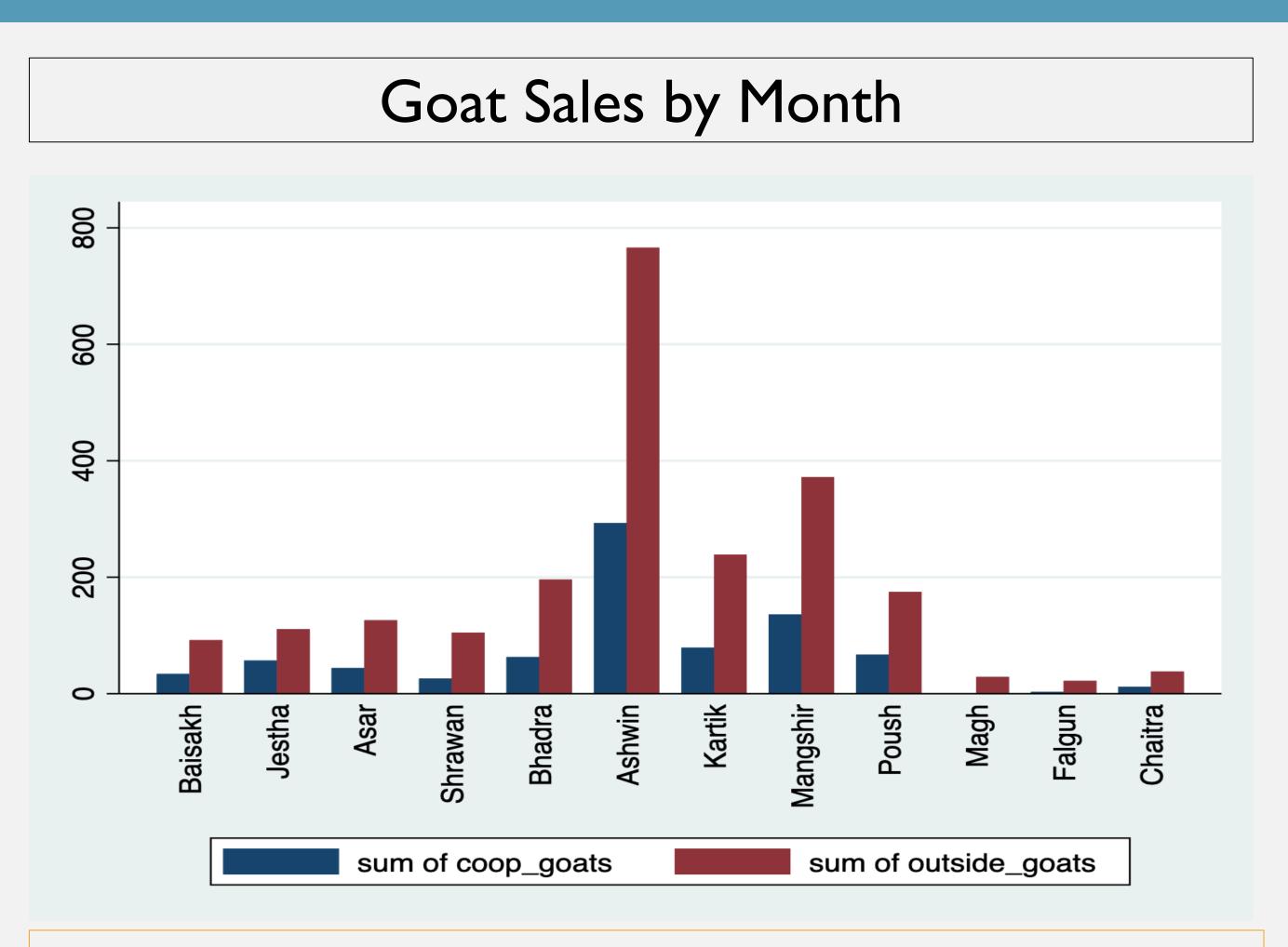
- I. Marketing:
 - Develop smartphone marketing app ("virtual collection center" or VCC)
 - Evaluate through RCT with 92 cooperatives. • Estimate effects on cooperative performance and
 - household-level outcomes
- 2. Extension and animal health: Develop tablet-based "distance learning" Community Animal Health Worker training platform.
 - Evaluate with RCT of 300 women.
 - 150 invited to training (75 distance/75 classroom), 150 control group members.
 - Evaluate effects on training completion, livelihoods, and empowerment.

Marketing app screen shots							
	💎 🎽 100% 🗋 5:56			💎 🎽 100% 🗎 5:56		💎 🎽 100% 🗎 5:57	
Heifer		÷	Member List		← Edit Inventor	y .	÷
Name	Ashish		Select member and en	ter number of goats	Member Name	Ashish	
Address	ktm	-	Ashish	9801051695	Last Update :	Jan 08, 2018	Pri
Enter data	Add Member	-	Rajan	9851094030	Small Goats (Under 25 kg)	10	Qu
		-	Naram Uncle	9841700425	Medium Goats (Under 25 - 35 kg) Large Goats	20	
Messages	Goat Inventory	-	Test Shg Member	9841951695	(Over 25 kg)	30 MPLETE	Loo
		-	Member Test	9841951695		WPLETE	Clu
Report	About	-	Umesh Mrmbrr	9841951695			Tha
		-	Naram Uncle	9841134967			SH
< (◀ ()		•	○ ■	









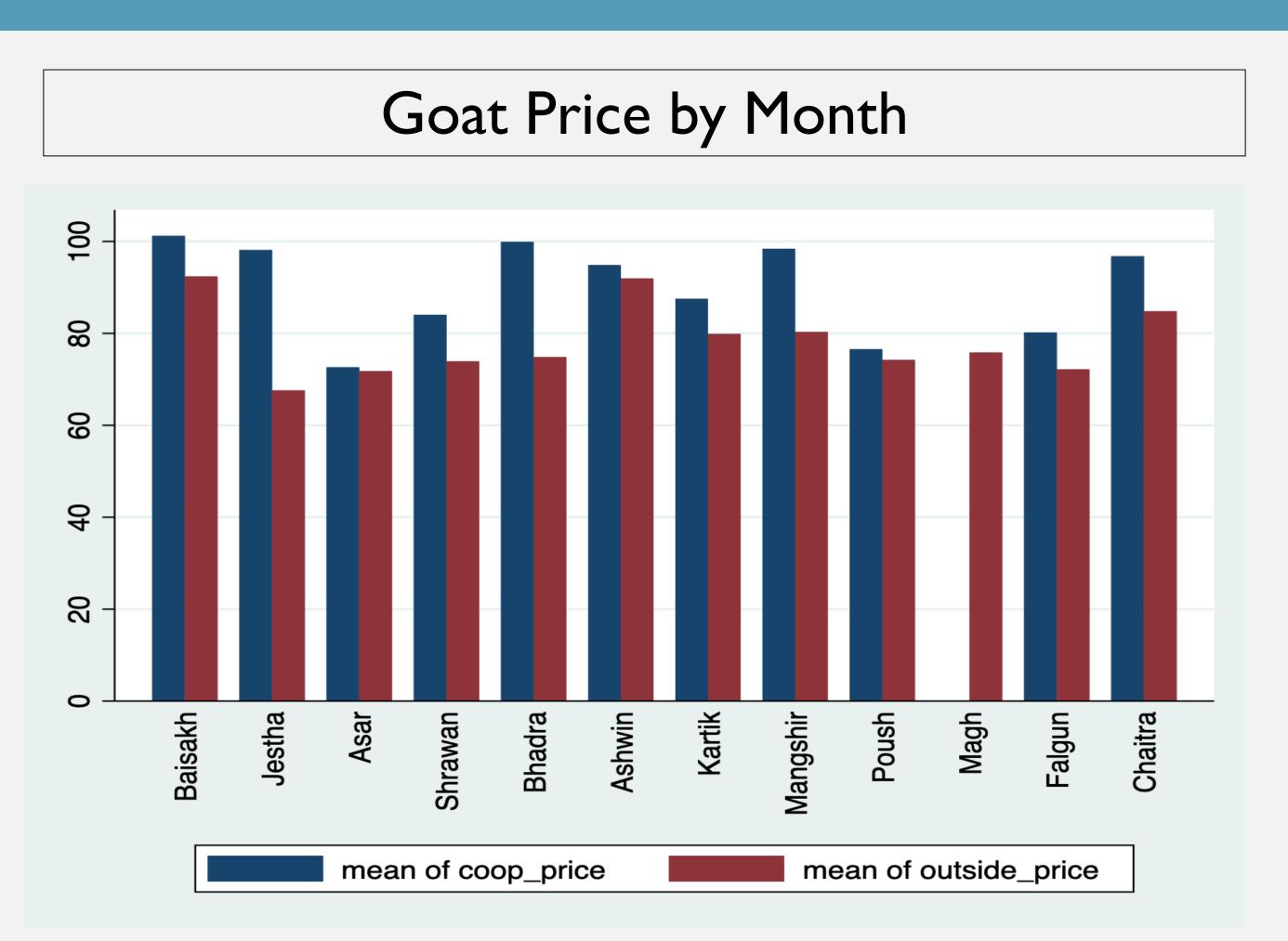
Results

- **I.VCC app:** 241 goats sold through app from February through 19 April. 18% of treatment cooperatives have sold at least one goat through the app so far.
- **2. Distance learning**: being offered distance learning increases training enrollment by 18 percentage points relative to traditional training (p = 0.015), from 53% to 71%.



ECONOMIC

DEPARTMENT



Cooperative Goat Marketing

- (September).
- outside goat prices.

- cooperative worthwhile.

- 3. Plan endline data collection



• Just 11% of cooperative members who sold goats at baseline did so through their cooperative.

The largest presence of 'side-selling' occurs in Ashwin

• However, cooperative goat prices remain higher than

• What does this mean? Two interpretations:

I. Cooperative sales are more desirable (higher price), but cooperatives are unable to coordinate a large number of sales, leaving most members to sell elsewhere.

2. Cooperative sales are often not desirable, so we only observe the small number of cases where the price difference is high-enough to make selling through the

Next Steps . Monitor CAHW trainees, enroll next cohort 2. Improve adoption rates for VCC app



