

DR. MAHENDRA LOHANI

*Senior Vice President of Programs
Heifer International, USA*

**LIVESTOCK DEVELOPMENT IN NEPAL:
WHAT WE HAVE LEARNED?**



@mnlohani

Commercial Poultry Industry (Mass Production)

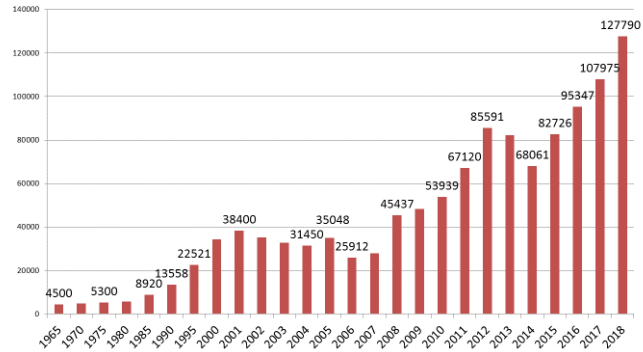


Smallholder Livestock Industry (Production by Masses)

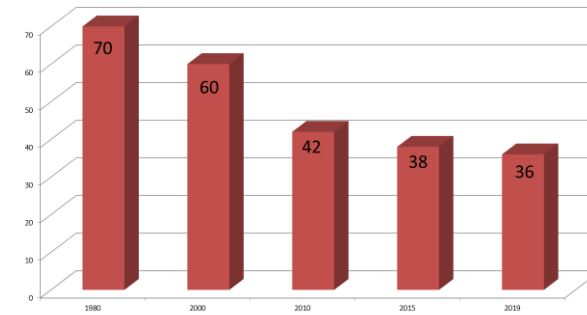


Production by masses requires special consideration- How do we deal with the masses (large no. of Smallholder Farmers) and energize them to work together like one enterprise so that their production will be collectively at scale, and can compete with mass production, effectively and efficiently?

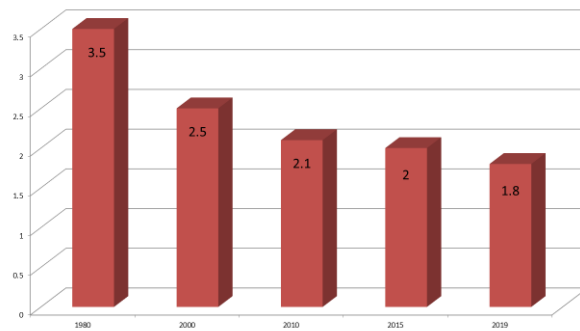
Poultry Population Trend



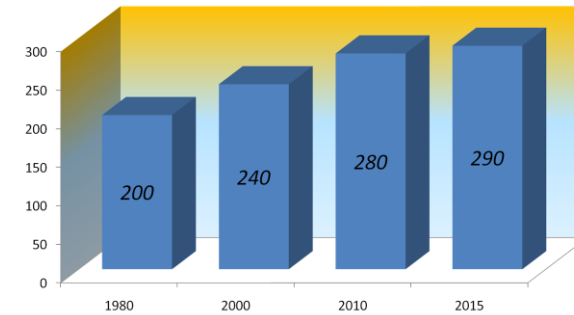
Average Productivity Days to reach 2 kg live weight

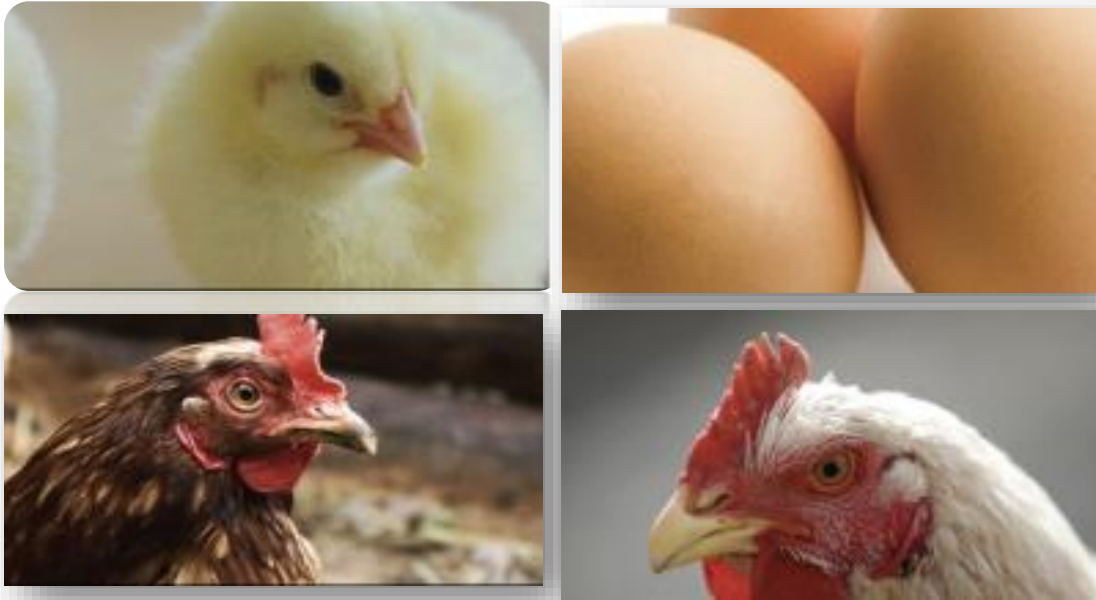


Feed conversion ratio in two kg body weight

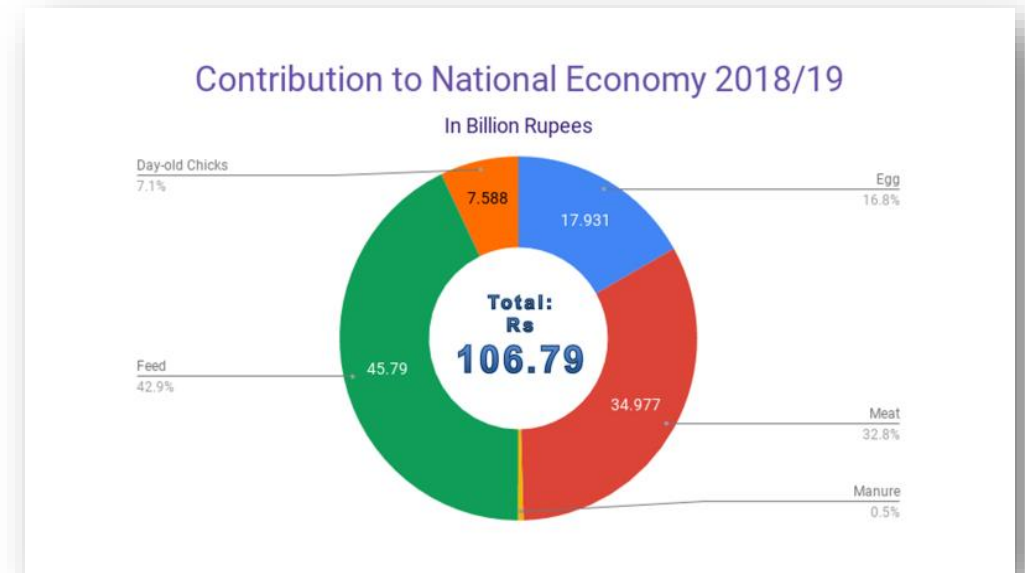


Brown egg production per Female (HH)





Per capita availability in 2019, of eggs is 70 & chicken meat is 6.7 Kg.





Smallholder Farmers of Nepal



“Social capital refers to institutions, attitudes, and values that govern interactions among people and contribute to economic and social development. Social Capital is not just the sum of the institutions which underpin a society – it is the glue that holds them together.”
(World Bank)

Components of Social Capital:

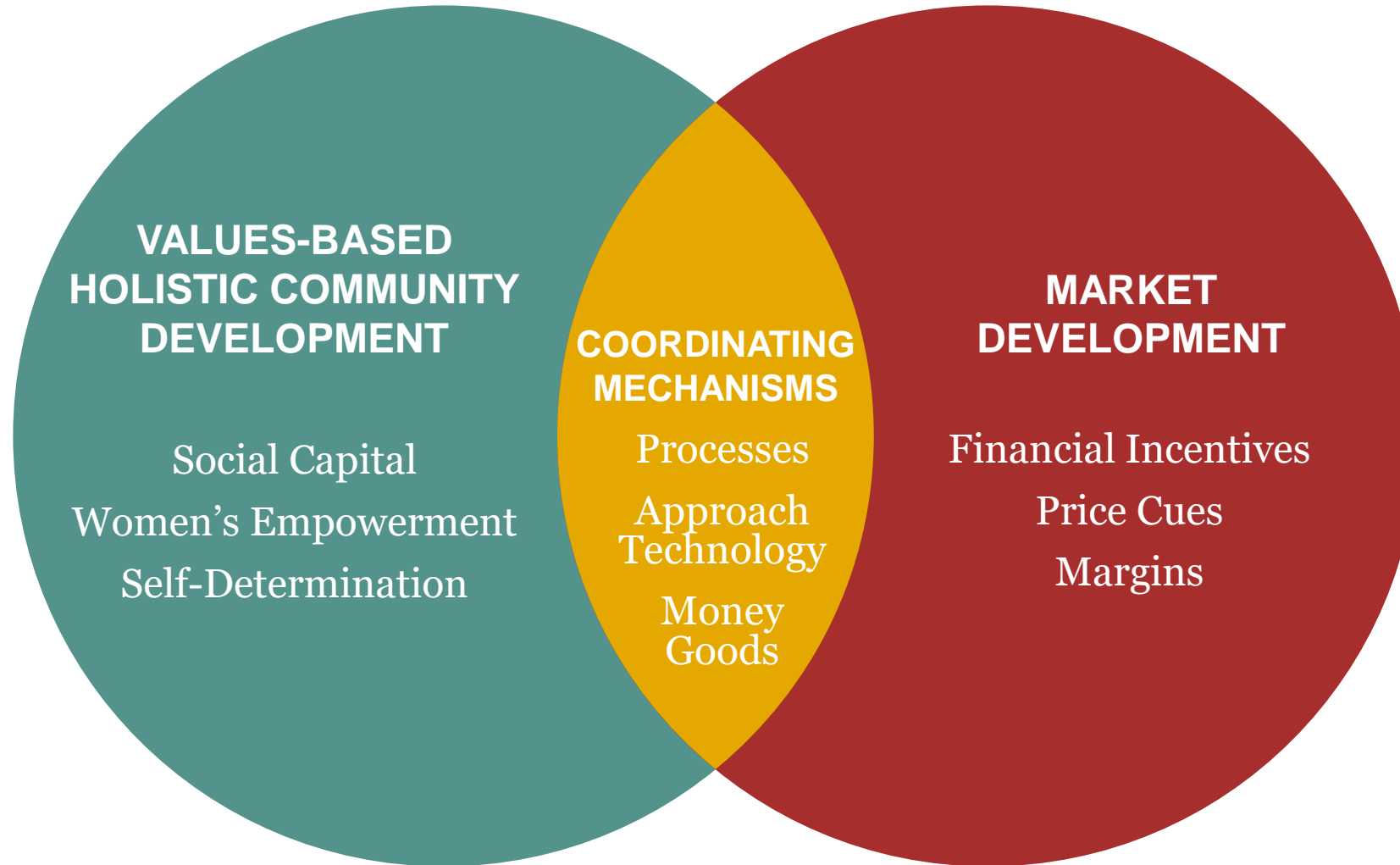
- Structural
- Cognitive

Inputs
Production
Producers

VALUE CHAIN

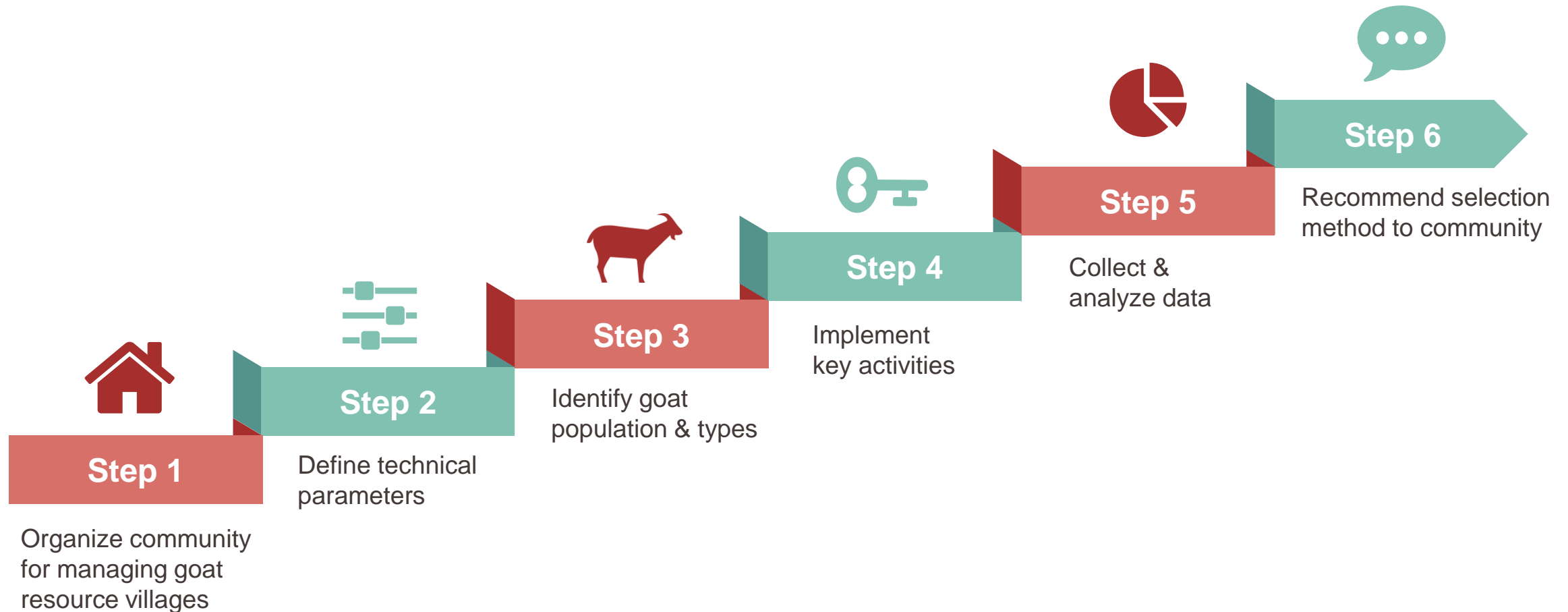
Consumer

ENTREPRENEURSHIP



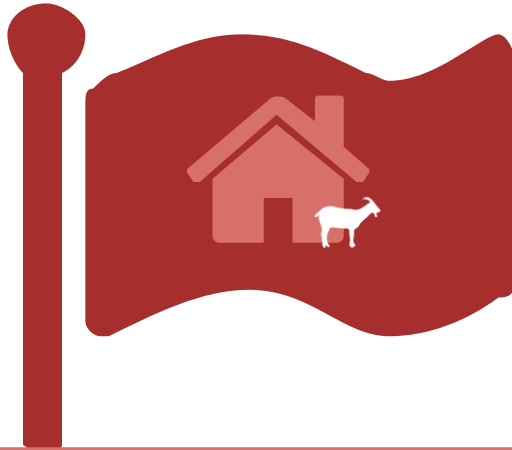
GOAT BREEDING

Community Initiated Genetic Improvement of Goats Program



KEY ACTIVITIES

Community Initiated Genetic Improvement of Goats Program



Program Orientation

- ✓ Identify participating households
- ✓ Train participating farmers
- ✓ Organize community and set the framework of goat population

KEY DATA:

- Kidding Interval
- Twinning Rate
- Kid Mortality
- Three Month Offspring Weight
- Body Weight Gain



Data Collection & Analysis

SELECTION:

Top 20%
Doe for Breeding Males

Top 50%
Doe for Replacement Female Stock

Identify goats for breeding program ✓

Improve production practices ✓

Identify superior breeding bucks ✓

Record and analyze data periodically ✓

PARAMETERS	YEAR 1	YEAR 2	YEAR 3
1. Average Daily Weight Gain Till 5 Months (g)			
Male Kids	81.90 ± 22.38	88.67 ± 21.93	95.23 ± 18.79
Female Kids	72.14 ± 13.80	81.21 ± 18.02	84.08 ± 17.01
2. Average Weight at Five Months (kg)			
Male Kids	14.12 ± 3.39	15.46 ± 3.52	16.36 ± 3.43
Female Kids	12.53 ± 2.06	14.14 ± 2.68	14.92 ± 2.59

Fodder and Forage Production

Fodder/Forage Cultivation	Area Covered in FY2020 (In Hectare)		
	Private Land	Public Land	Total
Perennial Fodder Trees (Silvi-pasture)	5,188	2,555	7,743
Annual Forage Crops	5,304	0	5,304
Total	10,492	2,555	13,047



Roadside Plantation



Around Irrigation Canals



Agricultural Land



Leased Land

COMMUNITY AGRO-VET ENTREPRENEURS (CAVEs)

Trainings to the CAVEs for supply of production inputs and services

1. VAHW training: 35 Days
2. Social Capital training: 5 days
3. Basic agriculture training: 7 days
4. Entrepreneurship Development and Business Development: 7 Days



Total CAVEs Trained	406
Male	224 (55%)
Female	182 (45%)
Active Sustained	Above 80%
Average Monthly Income	NPR 30,000 (8,000-100,000)

IMPROVED GOAT SHEDS

50,000 Goat Shed through passing on the gift model



Option 1: Community managed Goat Insurance Program



Option 2: Coops serve as Insurance Agents

Linked with 5 insurance companies, 60 coops serving as insurance agent

No. of Coop with positive (negative) profit margin

Averages	FY19		FY20	
	No.	Percent	No.	Percent
Coops with positive net profit	154	100	153	99.3
Coops with (negative) net profit	0	0	1	0.7



Six Monthly Net Profit of Coops (US\$)

Averages	FY19	FY 20	Percentage Change
Total of all 154 coops	\$ 463,667	\$ 1,279,198	176
Average per coop	\$ 3,010	\$ 8,306	176

SLVC-I

(2012-2017)

- SHFs: 140 K
- Baseline Income: \$1268/HH/Year
- End line Income: \$2270/HH/Year
- Value Chain: goats, dairy
- Resources:
 - Heifer: US\$ 13M
 - Local leverage: \$14 M

SLVC: Strengthening smallholder livestock value chain project

SLVC-II

(2018-2022)

- SHFs: 146 K
- Target Income: \$3,500/HH/Year
- Value Chain: goats, dairy
- Resources
 - Heifer: US\$ 12M
 - Government Grant to Heifer: US\$ 2M
 - Government investment in Abattoir Infrastructure: US\$ 8M
 - Coops' capital: US\$ 13M
 - Banks' capital: US\$ 36M

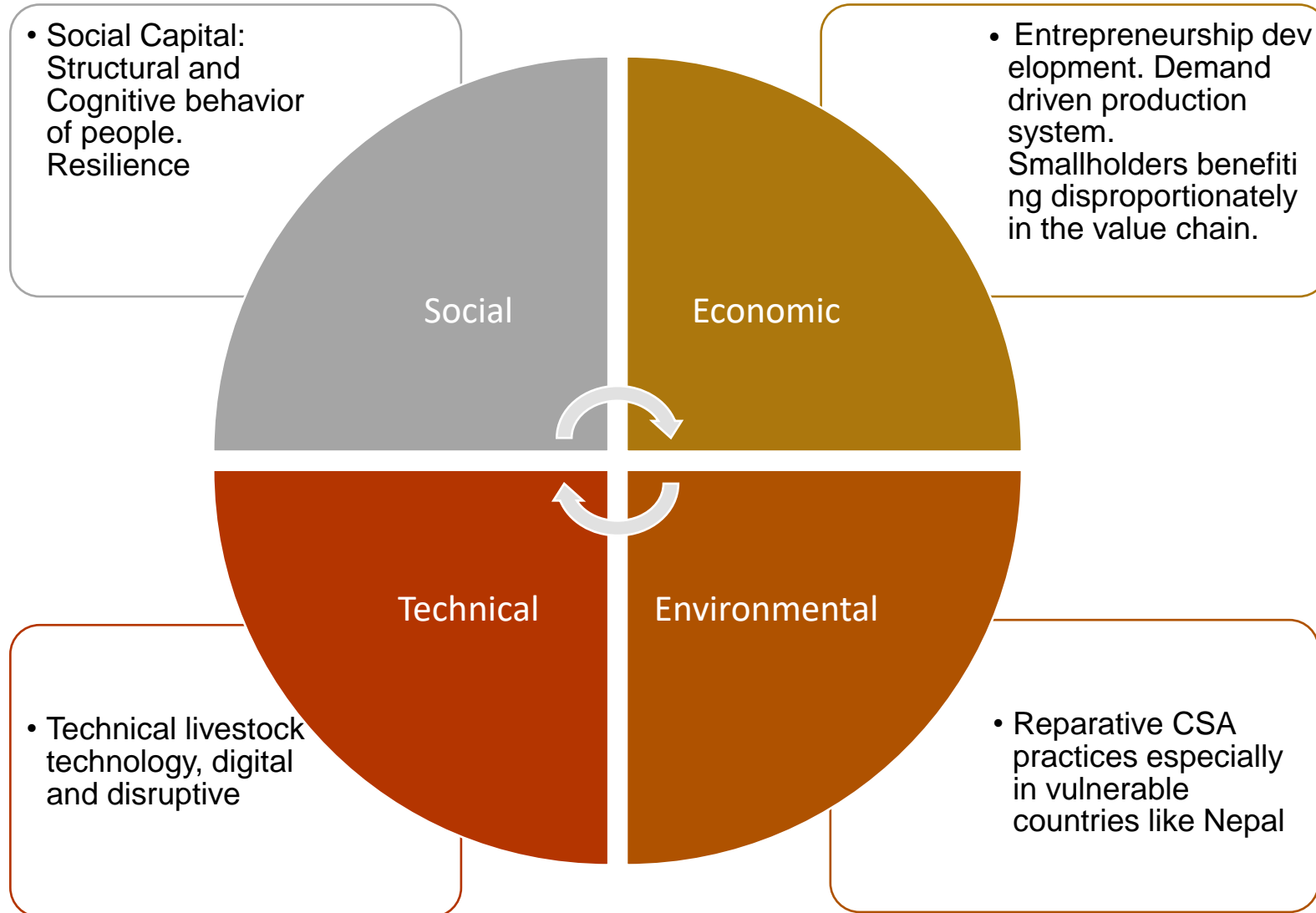
VITA

(2020-2026)

- SHFs: 120 K
- Value Chain: goats, dairy, fish, horticulture
- Resources
 - Heifer: US\$ 6M
 - Government Grant to Heifer: US\$ 9M
 - ADBL/IFAD/Government: US\$ 191M
- Heifer's role: Social capital and value chain development
- ADBL Role: Capital deployment
- Government Role: Market infra-structure development

VITA: Value chain for inclusive transformation of Agriculture project

Strategies for Sustainable Development





Questions?

THANK YOU