LIVESTOCK DEVELOPMENT IN NEPAL: WHAT WE HAVE LEARNT?
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?
Performance of Nepalese Poultry Industry

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
ENTREPRENEURSHIP

VALUE CHAIN

INPUTS

PRODUCTION

PRODUCERS

VALUES-BASED HOLISTIC COMMUNITY DEVELOPMENT

Social Capital
Women’s Empowerment
Self-Determination

COORDINATING MECHANISMS

Processes
Approach
Technology
Money
Goods

MARKET DEVELOPMENT

Financial Incentives
Price Cues
Margins

CONSUMER

ENTREPRENEURSHIP
GOAT BREEDING
Community Initiated Genetic Improvement of Goats Program

Step 1: Organize community for managing goat resource villages

Step 2: Define technical parameters

Step 3: Identify goat population & types

Step 4: Implement key activities

Step 5: Collect & analyze data

Step 6: Recommend selection method to community
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

Data Collection & Analysis
- Identify goats for breeding program
- Improve production practices
- Identify superior breeding bucks
- Record and analyze data periodically

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

SELECTION:
- Top 20% Doe for Breeding Males
- Top 50% Doe for Replacement Female Stock
# GOAT BREED IMPROVEMENT


<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Average Daily Weight Gain Till 5 Months (g)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male Kids</td>
<td>81.90 ± 22.38</td>
<td>88.67 ± 21.93</td>
<td>95.23 ± 18.79</td>
</tr>
<tr>
<td>Female Kids</td>
<td>72.14 ± 13.80</td>
<td>81.21 ± 18.02</td>
<td>84.08 ± 17.01</td>
</tr>
<tr>
<td>2. Average Weight at Five Months (kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male Kids</td>
<td>14.12 ± 3.39</td>
<td>15.46 ± 3.52</td>
<td>16.36 ± 3.43</td>
</tr>
<tr>
<td>Female Kids</td>
<td>12.53 ± 2.06</td>
<td>14.14 ± 2.68</td>
<td>14.92 ± 2.59</td>
</tr>
</tbody>
</table>
## Fodder and Forage Production

<table>
<thead>
<tr>
<th>Fodder/Forage Cultivation</th>
<th>Area Covered in FY2020 (In Hectare)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Private Land</td>
</tr>
<tr>
<td>Perennial Fodder Trees</td>
<td></td>
</tr>
<tr>
<td>(Silvi-pasture)</td>
<td>5,188</td>
</tr>
<tr>
<td>Annual Forage Crops</td>
<td>5,304</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>10,492</td>
</tr>
</tbody>
</table>
COMMUNITY AGRO-VET ENTREPRENUERS (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

<table>
<thead>
<tr>
<th>Total CAVEs Trained</th>
<th>406</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>224 (55%)</td>
</tr>
<tr>
<td>Female</td>
<td>182 (45%)</td>
</tr>
<tr>
<td>Active Sustained</td>
<td>Above 80%</td>
</tr>
<tr>
<td>Average Monthly Income</td>
<td>NPR 30,000 (8,000-100,000)</td>
</tr>
</tbody>
</table>
IMPROVED GOAT SHEDS

50,000 Goat Shed through passing on the gift model
MANAGING RISK

Option 1: Community managed Goat Insurance Program

- Members develop guidelines, processes & templates
- Members set premiums
- Members develop mechanisms for verification & payment in case of goat death

Option 2: Coops serve as Insurance Agents

Linked with 5 insurance companies, 60 coops serving as insurance agent
### Averages FY19 FY20

<table>
<thead>
<tr>
<th>Averages</th>
<th>No.</th>
<th>Percent</th>
<th>No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coops with positive net profit</td>
<td>154</td>
<td>100</td>
<td>153</td>
<td>99.3</td>
</tr>
<tr>
<td>Coops with (negative) net profit</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0.7</td>
</tr>
</tbody>
</table>

### Six Monthly Net Profit of Coops (US$)

<table>
<thead>
<tr>
<th>Averages</th>
<th>FY19</th>
<th>FY 20</th>
<th>Percentage Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of all 154 coops</td>
<td>$ 463,667</td>
<td>$ 1,279,198</td>
<td>176</td>
</tr>
<tr>
<td>Average per coop</td>
<td>$ 3,010</td>
<td>$ 8,306</td>
<td>176</td>
</tr>
<tr>
<td>Project</td>
<td>Period</td>
<td>SHFs</td>
<td>Baseline Income</td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
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<td>----------------</td>
</tr>
</tbody>
</table>
Strategies for Sustainable Development

- **Social Capital**: Structural and Cognitive behavior of people. Resilience
- **Technical livestock technology**: Digital and disruptive
- **Entrepreneurship development**: Demand driven production system. Smallholders benefiting disproportionately in the value chain.
- **Reparative CSA practices**: Especially in vulnerable countries like Nepal

- **Social Economic Environmental Technical**