United Nations Conference on Trade and Development

National Workshop on

Fostering Integration of the Lao People's Democratic Republic Downstream Value Chain of Maize into Regional Value Chains

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Approach and Activities to improve the Maize Value Chain

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.
Approach and Activities to improve the Maize Value Chain

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The Project Development Objective (PDO) is to increase competitiveness of selected agricultural value chains in the project areas.

• Measured by 3 PDO-level indicators:

1. Change in agricultural land productivity of the targeted farmers
2. Increase in sales of farm produce as a share of production among targeted farmers
3. Increase in milling efficiency of the targeted rice mills
Component A: Improved Agricultural Efficiency and Sustainability

This component supports
• A1: SEEDS (increased adoption of improved varieties and high-quality seeds)
• A2: GAP (increased application of Good Agricultural Practices),
• A3: IRRIGATION (provision of critical productive infrastructure)
• A4: CAPACITY (strengthening of public services delivery)

Implemented by PAFO/DAFO with support from MAF technical departments:
1. DTEAP (Department of Technical Extension and Agro-processing)
2. DoA (Department of Agriculture)
3. DALaM (Department of Agricultural Land Management)
4. DoI (Department of Irrigation)
5. NAFRI (national Agriculture and Forestry Research Institute)
Component A2: Promoting Good Agricultural Practices

Objective

Establish FPGs and build their capacity to adopt GAP:
30,000 ha: 220 rice FPGs, 70 maize FPGs, and 50 vegetable FPGs

Progress so far 260 FPGs organized of (334) required (78 % reached)

- 179 Rice Production Groups registered
- 31 Maize Production Groups registered
- 43 Vegetable Production Groups registered
- 7 Organic Vegetable Production Groups registered
- Area covered FPGs is 20,129 ha, about 65 % of the target

Organic vegetable production in Bolikhamxai

GAP use of fertilizers
Promoting Good Agricultural Practices

Targets for maize

Establish 70 maize FPGs that
• cover 5,000 ha
• 2,476 benefitting households
• Contract farming with Agribusinesses for 53 maize FPGs
• covering 3700 ha

Achieved after 2.5 years:

31 Maize FPGs in Parklay District, covering 4228 ha

<table>
<thead>
<tr>
<th>Province</th>
<th>Dist.</th>
<th># Villages</th>
<th>FPGs</th>
<th>Households organized</th>
<th>Area (ha)</th>
<th>Women in Leadership</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Target</td>
<td>Progress</td>
<td>% vs Target</td>
<td>Target/Tot.</td>
</tr>
<tr>
<td>XYL</td>
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<td>1</td>
<td>70</td>
<td>31</td>
<td>44%</td>
<td>2,476</td>
</tr>
<tr>
<td>1</td>
<td>Paklai</td>
<td>10</td>
<td>70</td>
<td>31</td>
<td></td>
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<tr>
<td>Total</td>
<td></td>
<td>10</td>
<td>70</td>
<td>31</td>
<td>44%</td>
<td>2,476</td>
</tr>
</tbody>
</table>
Main problems of maize farmers in Parklay

- Insufficient production management,
- Low yields as a consequence of soil degradation,
- Insufficient and irregular technical extension.
- Insufficiencies of inputs and mechanized equipment
- Production losses in maize crops e.g. fall armyworm

**High production cost**
Renting machinery and services
- Soil preparation
- Direct seeding
Use of inputs
- Imported seeds
- Sub optimal use of fertilizers and pesticides

**Financial constraints**
- Shortage of funds
- Credit accessibility: Formal requirements hard to fulfil for farmer groups
- Informal loans with high interest rate resulting recurrent depth.
Main problems of maize farmers in Parklay (continued)

Lack of marketing skills
- Some groups have a fixed contract with one buyer.
- Ensuring that there is a market for the products.
- Possibilities for price negotiations limited
- Lack of alternative buyers.

Deficiencies in post-harvest management and timing of sales
- Lack of facilities for drying maize and beans.
- Groups are forced to sell fresh produce at a comparatively low price.
- Fresh sales increase the dependency from the buyer of the product.
- When buyers are not in time: quality losses and price reductions

Better post-harvest management:
- Reduce losses and
- Increase income: sale of dry Maize dry, off season in peak price periods.

Reasons for selling immediately after harvest
- cash needs of the families
- unavailability of drying and storage facilities.
Promoting Good Agricultural Practices

Activities of LACP for GAP promotion and enhancement of competitiveness

- GAP Manuals and trainings for Maize farmers → GAP certification
  - Technical extension
  - Correct use of fertilizers and pesticides
- Field demonstrations on GAP and fertilizer use → optimal use of resources
- Integrated pest management → reduce risk
- Support of legumes as a second crop after maize → optimal use of resources
- Link farmers to markets → reduce risk, increase competitiveness
- Access to critical investment through matching grants → increase competitiveness
Matching Grants for Farmer Groups

Content of an Investment plan:
- Group profile
- Problem analysis
- Strategy for cost structure improvement
- Business plan
- GAP adoption

MGs are up to 16,000 USD per group
A 20% contribution from the group is required
The final 10% are released after GAP adoption

Typically, MPGs invest in
Machinery: Walking tractors equipped for direct seeding
High quality seed
GAP Certification, Packaging Designs and Marketing

Expectations:
Decrease of production cost by about 20%
Increase in yield about 10%
Support to Agribusinesses

**Agro-processing and storage equipment are below regional standards**

Investment is needed

Commercial loans for purchase of new equipment and upgrades are not common

- Banks are reluctant to take on what they see as risky loans and
- Abs perceive bank interest rates as too high
- ABs are not sufficiently trained to present good business plans to banks or to the SME fund
- The SME Promotion Fund decree was signed in September 2019 by the PM. Release of SME funding must be through commercial banks or financial institutions based on sound business plans. The fund must prioritize low interest loans for the agricultural processing industry, handicrafts, agriculture and livestock businesses as well as tourism.
Support to Agribusinesses

Support to Agribusinesses in of LACP:

- Deliver Technical and financial services to agribusinesses (ABs)
- Improve operational standards and efficiency of ABs: rice, maize, and vegetables
- Provide training in business plan development, bookkeeping, financial reporting etc.

Technical assistance and matching Grants /matching grant approach in the project will lead to ABs investing in their own enterprises, upgrading their outdated and inefficient equipment/facilities and increasing their milling rates and/or reducing post-harvest losses.

Maize ABs have expressed interest for MGs to

- build drying space,
- building/improve storage, and
- working with farmer groups

The contribution of the AB to the MG is 50%
Agriculture Value Chain Facility Matching Grant Cycle

**AVCF MATCHING GRANT CYCLE**

1. **Calls for Business Proposals**
   - AVCF Management Team calls for business proposals on mass media and send invitations directly to potential ABs
   - First comes first serves

2. **Evaluation**
   - Screening of Business Proposals by AVCF Management Team
   - Evaluation by an Independent Committee

3. **Business Plan Development**
   - Preparation of a detailed business plan, assisted by local consultants.

4. **Approval / LoGA Signing**
   - Detailed Business plan appraised and recommended by AVCF Management Team and approved by Secretariat of MAF.

5. **Implementation**
   - ABs implement the approved business plan.
   - AVCF Management Team in collaboration with PAFO/PICO conduct supervision and monitoring
Agribusinesses and farmers as partners

ABs that receive matching grants are engaged in contract farming with farmers

Productive partnerships between ABs and farmer groups

→ about 6 partnerships per AB required

Sourcing of raw materials

→ Proportion of raw materials sourced by targeted ABs from farmers in the target areas increased by 30%

In addition, farmers benefit from GAP certification and packaging
Summary

Farmer groups
Technical assistance
Matching Grants
Market linkage

Agribusiness
Technical assistance
Matching Grants
Market linkage

Productive Partnership agreement

GAP certification
Productivity increase
Increase of sales

Value chain strengthened
More competitive Agricultural Production

Upgrading of Equipment
Efficiency increase
Business and management skills
Thank You very much for Your attention