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Assessment on the Complementing Support Services for Cassava on Selected Agrarian Reform Beneficiary Organizations of District 1 Pangasinan

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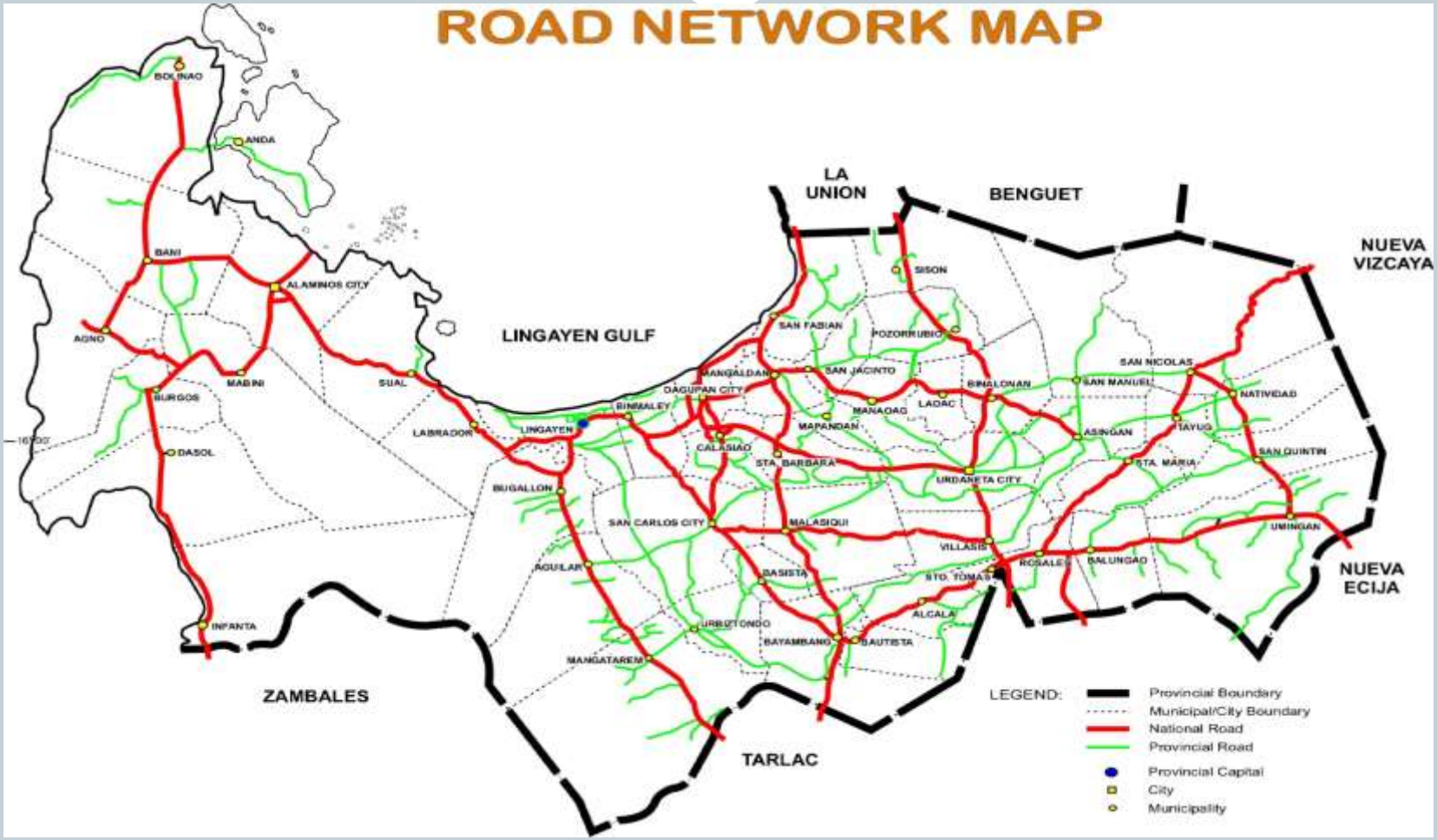
Locational Map of the Pangasinan Province

Panag asinan

“Where salt is made”

ROAD NETWORK MAP



LA UNION
BENGUET
Lingayen Gulf
NUEVA VIZCAYA
MABINI
PANGASINAN
ZAMBALES
TARLAC
NUEVA ECIJA

Introduction

- The Complementing Support Services for Cassava Production is proposed to reduce poverty incidence in the Agrarian Reform Communities (ARC) by creating additional income for Agrarian Reform (ARB) Beneficiaries in District 1 of Pangasinan through the production and processing of cassava
- Utilize idle land resources of the ARBs
- Additional Income in the form of:
  - Sale of fresh cassava root and/or dried cassava chips
  - Dividends and patronage refund (Agri/Agrarian-Based Cooperatives)

Components of the Project

- Delivery of Professional Service Providers
- Provision of Common Services Facilities
- Construction of Post-Harvest Facilities
- Credit Accessibility
- Marketing-partnership
  - Private companies (San Miguel Foods Inc.)

Objectives

Assess the feasibility of the Complementing Support Services for Cassava by DAR

Specifically, to assess the following :

- Organizational capacity of lead ARBOs and other ARBOs in terms of human resource; policy, systems and procedure; governance, financial/fiscal resource, and existing enterprises operations, among others;
- Access to credit and market;
- ARBO's enterprise capacities to implement the project;
- Crop and crop production suitability; and
- Suitability of the identified intervention requirements: business development; technology and extension; common service facilities; and other development opportunities.

Methodology

Organizational Enterprise – Needs Assessment and Design Assessment (OE-NADA)

- Organizational Capacity of the ARBO
  - Human resource; Policy; Systems & Procedures; Governance; Financial Resources; Operation
- Accessibility to Credit and Market
- Capability to Implement the Project
- Crop suitability and sustainable production & processing
- Suitability of the identified interventions
  - Business development; technology & extension services; common services facilities

Methodology

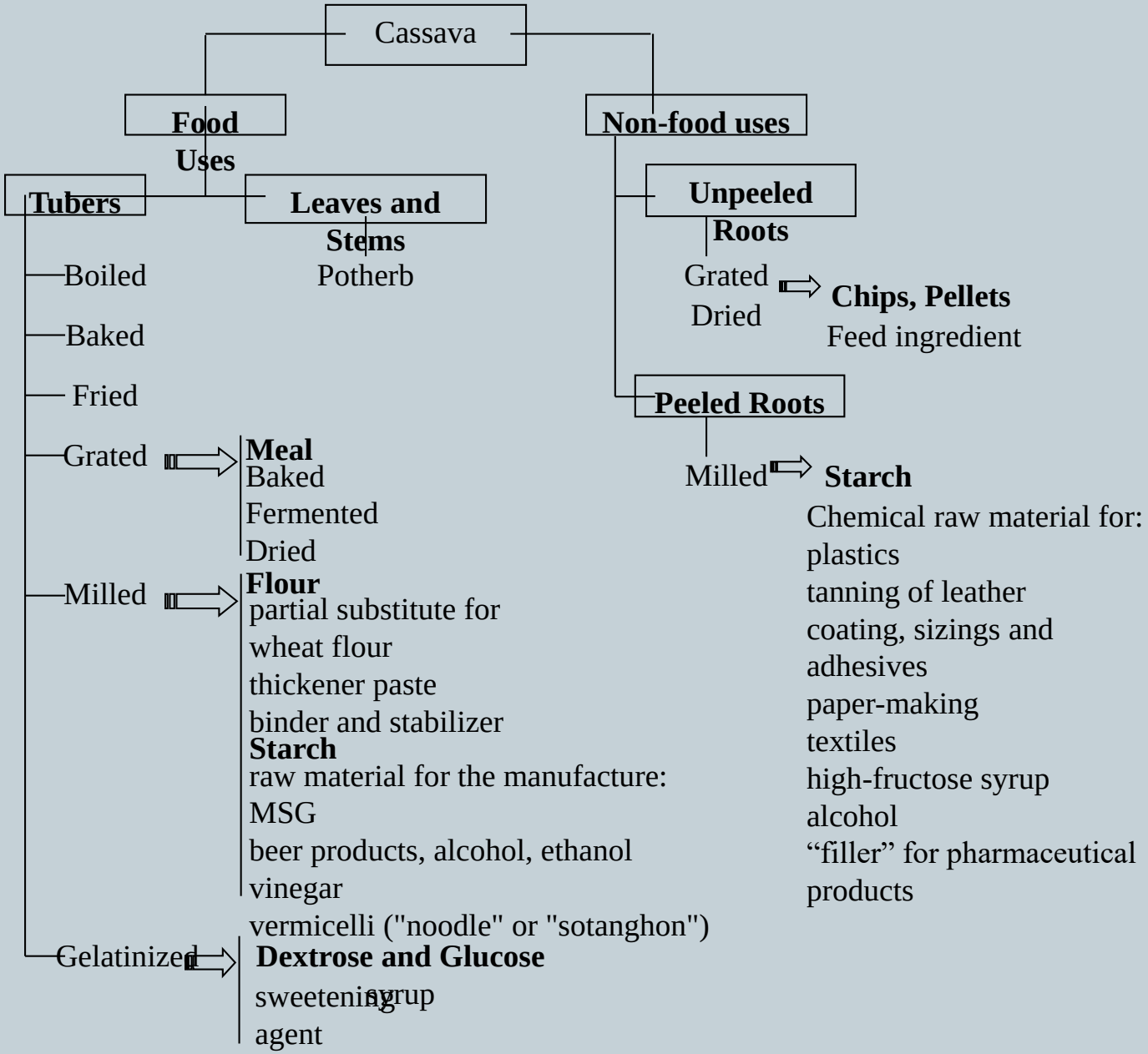
System Approach was used to assess the ARBO's:

- Organizational capacity,
- Production, Marketing and Financial capabilities.

In this approach, the feasibility of the project is evaluated according to the organizational capability and suitability of the ARBO

Results

- Cassava production is suitable in the Municipalities of Mabini, Dasol & Bani *(climatic & edaphic suitable)*
- Cassava is considered economically important among root crops because of its utilization as food, animal feed and raw material in industrial materials, and bio-fuel by the leading feeds and manufacturing companies in the country


Cassava
Food Uses
Non-food uses
Tubers
Leaves and Stems
Potherb
Boiled
Baked
Fried
Grated
Meal
Baked
Fermented
Dried
Milled
Flour
partial substitute for
wheat flour
thickener paste
binder and stabilizer
Starch
raw material for the manufacture:
MSG
beer products, alcohol, ethanol
vinegar
vermicelli ("noodle" or "sotanghon")
Gelatinized
Dextrose and Glucose
sweetening agent
syrup
Unpeeled Roots
Grated
Dried
Chips, Pellets
Feed ingredient
Peeled Roots
Milled
Starch
Chemical raw material for:
plastics
tanning of leather
coating, sizings and adhesives
paper-making
textiles
high-fructose syrup
alcohol
“filler” for pharmaceutical products

Results

- Average Farm Size: 2 -3 hectares
- 1 ha for rice production for 1 cropping only (rain dependent) / 2 ha idle
- Estimated income for 1 cropping of one-hectare rice at PhP 6,000 - 10,000
- *Remaining 1 - 2 ha can be utilized for cassava production instead of being idle*
- *Projected Net Income for 1 ha. Cassava Production*
  - *Fresh cassava roots – PhP 25,425*
  - *Dried Chips PhP 34,425*

Results

- Return on Expenses
  - Fresh Cassava Roots – 74%
  - Dried Chips – 79%
- Breakeven Volume
  - Fresh Cassava Roots – 17,287.50 kg/ha
  - Dried Chips – 6,703.85 kg/ha
- Breakeven Price
  - Fresh Cassava Roots – P 1.15 /kg
  - Dried Chips – P3.63/kg
- Net Profit Margin
  - Fresh Cassava Roots – 42%
  - Dried Chips – 44%

CRITERIAS / AREAS OF CONSIDERATION	Barlo - BCC	Malimpin - MMPC	Dacap Sur - CTCFMPC
1. Crop Suitability	Fairly suitable	Fairly suitable	Suitable
2. Farming System / Production Capability			
a. Current yield of cassava	Low	Low	Low
b. Existing farming method and technology adopted	Backyard scale	Backyard scale	Backyard scale
c. Existing farm equipment and machinery	Insufficient	Insufficient	Insufficient
3. Organizational Capacity			
a. VMOG	Yes	Yes	Yes
b. Organizational Structure	Yes	Yes	Yes
c. Participation	Yes	Yes	Yes
d. Fiscal Resources	No past due	No past due but has current payable	loans payable already settled/paid / No past due

CRITERIAS / AREAS OF CONSIDERATION	Barlo - BCC	Malimpin - MMPC	Dacap Sur - CTCFMPC
3. Organizational Capacity			
e. Community Network	Yes	Yes	Yes / with external linkages
f. Registration	Yes – CDA	Yes – CDA	Yes – CDA
4. ARBOs Agri-enterprise capacities			
a. Current level of information on potential agri-enterprise	Insufficient	Insufficient	Insufficient
b. Extent of interest on potential agri-enterprise	Interested	Interested	Interested
c. Production / Technology capability	Fairly capable	Fairly capable	Capable
d. Financial capability	Low capability	Fairly capable	Capable
e. Marketing capability	Low marketing experience	Fair marketing experience	Fair marketing experience

Results

- ARBO needs to develop their organizational maturity in terms of organizational structure; membership education and empowerment; leadership capabilities; and managerial skills development.
- No financial and risk policy; and poor record keeping skills.
- They have limited linkages with private institutions.

Results

- Risk of this agri-enterprise project
  - Uncoordinated production - oversupply of cassava - market value may decrease;
  - perishability of the cassava
  - susceptibility to natural calamities
  - long gestating period which will take 8-10 months before income will be generated hence payback period or return to operational expenses will be lengthy.

Results

- **Marketing capability** - need to improve their marketing aptitude by creating marketing strategies and expansion plans given that cassava has many uses, while considering the logistic and the standardization of quality of cassava production-processing.

Results

- **Common Service Facilities** is vital for the success of the agri-enterprise project, specifically the
- Warehouse facility
- Farm machineries (harvester–cassava lifter, chipper & granulator, and farm tractor).
- Recommendation: 1 building of warehouse/storage facility and 2 units of cassava chipper/peeler be granted to the lead ARBO, in addition to 3 units of cassava lifter/harvester and 3 units of 4-wheeled tractor be given to each ARBO.

Results

- **Professional Services** are essential
- Improving their farming system and post-harvest practices;
- Management skills: marketing aptitude; risk management; organization maturity - development of policy, procedures and regulations; financial management
- Value-adding techniques – women participation (housewives) – cassava processing;
- Certification process and requirements compliance / assist in complying to requirements

Conclusions

- The Project has shown potential, and has proven to be a usefulness mechanism in mobilizing community participation and obtain local and national government support because the project corresponds to the national development plan of livelihood opportunity, improvement of gender equality, while advancing the good agricultural practices for cassava production.

Conclusions

- Generally, the identified interventions or components of the project addresses the objective of reducing the poverty incidence in the Agrarian Reform Communities, improving the quality of life of the agrarian reform beneficiaries, by enhancing the cassava industry in Western Pangasinan

Components of the Project

- Delivery of Professional Service Providers
- Provision of Common Services Facilities
- Construction of Post-Harvest Facilities
- Credit Accessibility
- Marketing-partnership

THANK YOU