Timber VALUE CHAIN ANALYSIS

AGRICULTURE SECTOR

Sub Sector: Crop Production

timber production Value Chain

OBJECTIVE

- Generally, the study was conducted to determine the present farming practices in timber production in Wereta District, Amhara region.

  Specifically, this aims to:

  - Discuss the present cultural farming practices in timber production both for upland and lowland.
  - Identify the Value Chain (AS IS) in Fogera timber production.
  - Compare the Value Chain (AS IS) to that of the benchmark.
  - Identify the gaps and constraints in attaining high yields.
  - Identify and recommend technologies that will improve farmers practice & increase productivity.

timber Production Value Chain (As is)

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Input

soil test manully

SEEDS
wanza

FERTILIZER
urea&dap

incecticide

FARM TOOLS & EQUIPMENT
shovel pit axe

Cultivation

SITE SELECTION
- rainfed

Land Preparation
- Traditional
- Manual
- 1times digging

Planting

Seed Variety
- Wanza oldy (traditionally)
- Long maturity age
- low sed quality

Planting
- direct method
- 50-75kg/ha seeds used

Production & Management

Growth Monitoring
- Rain feed
- 24 cropping/yr
- monitoring every 2 in month

Fertilizing
- In organic
-

Weeding
- 3 times per year

Insect & Pest Control
Traditional(ash)
-

Rip cutting
- axe
- 10men 15 day harvesting time
- Low yield (2000 qu/Ha)

Rip cut

Rip cut
- Divide in to many parts

Storage
- Local (megazen) ,

Milling
- cutting

Transporting
- men
- Pulled cart

pressing

Farming
- personally(private)

draying
- By natural light only

Press in manually
- By stone
- By clamp

Retailing
- By accepting customers question

Timber Processing

Purpose
- for house & office equipments

products

Bed,bufa table….

ber Production Value Chain (To Be)(bench mark)

Input

- Site selection
- Seeds wanza
- Fertilizer urea&dap
- insecticides
- Farm Tools & Equipment
  vehecle (tractor)

Cultivation

- Soil Testing
- Land Preparation
  - Land soaking
  - Mechanized
- Cropping Calendar
  - Synchronous planting

Planting

- wanza Seed Varieties
  - **new and high yielding varieties**
  - **Early/medium maturity**
- Seed Quality
  - Dried and clean
  - Pure & healthy
  - Certified seeds from seed growers
  - Naturally collect the seeds
- Seedling Preparation
  - Seed soaking& incubation
  - Seedling prepared in seedbed
  - pulling of seedling
- Transplanting
  - Manual
  - Mechanical transplanting
  - Plant spacing

Production & Management

- Growth Monitoring
  Daily Monitoring
- Irrigation & Drainage
  - Water at the right amount at the right time
- Weeding
  - Mechanical
  - Manual (once)
- Fertilizing
  - Organic
  - Inorganic with rate of application followed
- Insect & Pest Control
  - Integrated Pest Management (IPM)
- Rip cut
  - On time Harvest
  - High yield 5000 /ha
  - Mechanized Harvesting
  - Manual

Post-Harvest

- Threshing
  - On time (w/ in 24hrs after harvest
  - Mechanized thresher
  - with wide plastic sheets
- Drying
  - solar drying (concrete pavements or plastic sheets)
- Storage
  - Clean & dried place
- Transporting
  - Tractor cart
  - truck
  - With road & bridge
  - ships
- cutting
  - By using different types of machens
  - OHS

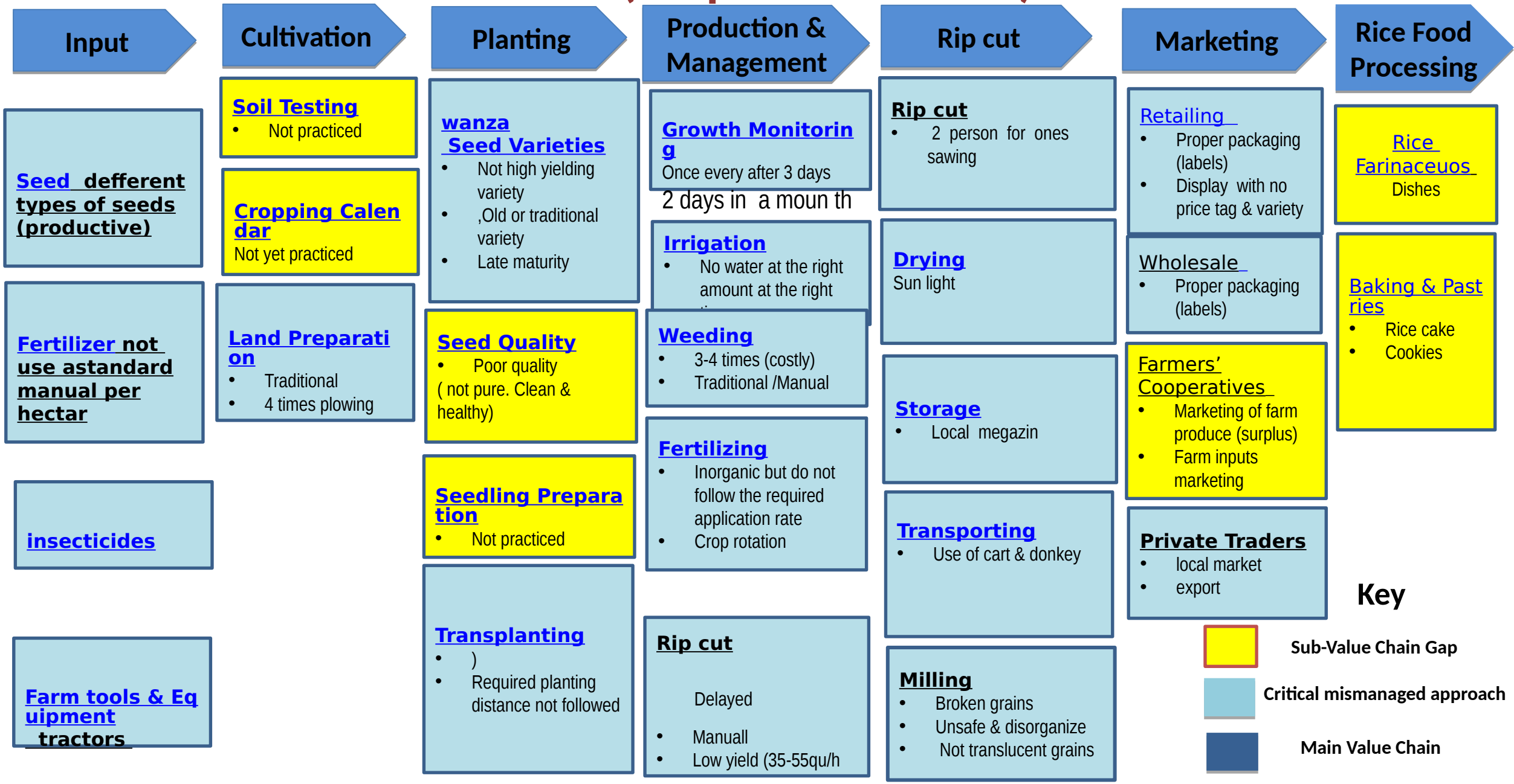
Marketing

- holeselling in different size& thickness
- Farmers' Cooperatives
  - Marketing of farm produce (surplus)
  - Farm inputs marketing
- **Private Assemblers/ Traders**
  - Local market
  - Export

timber Processing

- timber
  Bed, table , control wool,bufa....

timber Production Value Chain(Gaps/Constraints)



TECHNOWARE		HUMANWARE	INFOWARE	ORGAWARE
IRRIGATION	1. Irrigation & drainage infrastructure (dam, canal system)	Units of Competencies on: • Schedule irrigations	• Water Management Manual • Cropping Calendar Manual	• Bureau of Irrigation to develop & construct irrigation infrastructure • Irrigators Association or Cooperative – government partner in IDP
SEED QUALITY	2. New improved Seed Varieties		• Seed Quality Manual • Rice Seed Production Manual	• Rice Seed testing Center • Rice Seed Growers • Rice Research Center
LAND PREPARATION	3. Moldboard Plough & Harrow	• Prepare land for agricultural crop production • Operate specialized machine and equipment • Supervise crop maintenance	• Land Preparation Manual • Farm Power Operation Manual	• Rice Demonstration Farms • Rice MSE
	4. Hand Tractor/Power Tiller		• Hand Tractor Operation and Maintenance Manual	• Training center for rice production • Rice Research Center
	5. Mud boat/turtle tractor			
Seedling Preparation		• Establish agronomic crops	• Seedling Preparation Manual • 12 Steps in Successful Rice Production	
Planting	6. Wooden marker	• Transplanting seedlings • Undertake crop maintenance activities • Supervise crop maintenance • Implement Plant Nutrition Program	• Methods of Planting Manual • Water Management Manual • Pest Control Manual	
THRESHING	7. Thresher with blower		• Threshing Manual	• MSE to manufacture thresher, harvester & other farm machines
HARVESTING	8. Harvester	• Undertake agronomic crop harvesting • Monitor crop harvesting program	• Harvesting Manual	
MILLING	9. Rice Mill (cono type)	• Save, prepare and store agricultural seed	• Milling Manual • Rice Storage Manual	
TRANSPORTING	10. Tractor Cart, Hauler Truck, Farm to market road			• Farm to Market Road &Bridges
WEEDING	11. Rotary Weeder	• Control weeds, pests and diseases in crops • Prepare and apply chemicals	• Weeds control Manual • How to Spray Pesticides	
SOIL TESTING	12. Soil test kit/ pH meter	• Soil sampling and analyze results	• Soil Sampling Manual	Soil Analysis Center /Bureau of Soils

OTHER TECHNOLOGIES

- TECHNOLOGIES

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