furniture productions VALUE CHAIN









Industrial development SECTOR

Sub Sector: -furniture making

Value Chain furniture production

OBJECTIVE

- Generally, the study was conducted to determine the present wood practices in furniture production Derje home and office enterprise in debar tabor District, Amharic region.

  Specifically, this aims .

  - Identify the Value Chain (AS IS) in furniture 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 furniture practice & increase productivity.
  - To Substitute import production

Furniture Production Value Chain (As is)

Input

Log
- wanza
- tide

Manufacture board

Tools &equipment

Machine
- Combination machine

Finishing material

Fastening material

Shop organization

Traditional shade

design
- photo
- Over view observation

manufacturing process

Material selection
- traditional

Machine operation
- All process Use only combination machine

Laminating
- traditional
- 48 h for air draying

Squaring
- Use only combination

Assembling
- Manually
- Nail & glue

Maintenance
- Monthly

Finishing

filler
- Use sawdust

Sanding
- Manually
- Using 60-120 grad e paper
- Time taken

Painting
- Traditional

Marketing

Advertizing
- Bill board

Retailing
- Direct to customer needed

furniture Production Value Chain bench marks china

Input

log
•More than 30

Manufacture board

Tools & equipment

Different Machines

Finishing material

Fastening material

Shop organization

- Modern
- Kaizen apply

Design

Free hand sketch

Working drawing

Auto cad & catia

manufacturing process

Material selection
•Depend in on moisture content
•25 min

Machine operation
- **Cutting**
- **ripping**
- **squaring**

.....With different machine

Laminating
- **Mechanical**
- **20 min for draying**
- **Hot pressing**

Squaring
Use different machines

Assembling
.Mechanical
.Pneumatic taker

Maintenance
.Daily

Finishing

filler
- deferent

Sanding
- Mechanical
- Using 0-grad e paper

Painting
- Scientific

Storage
- Kaizen

Quality control

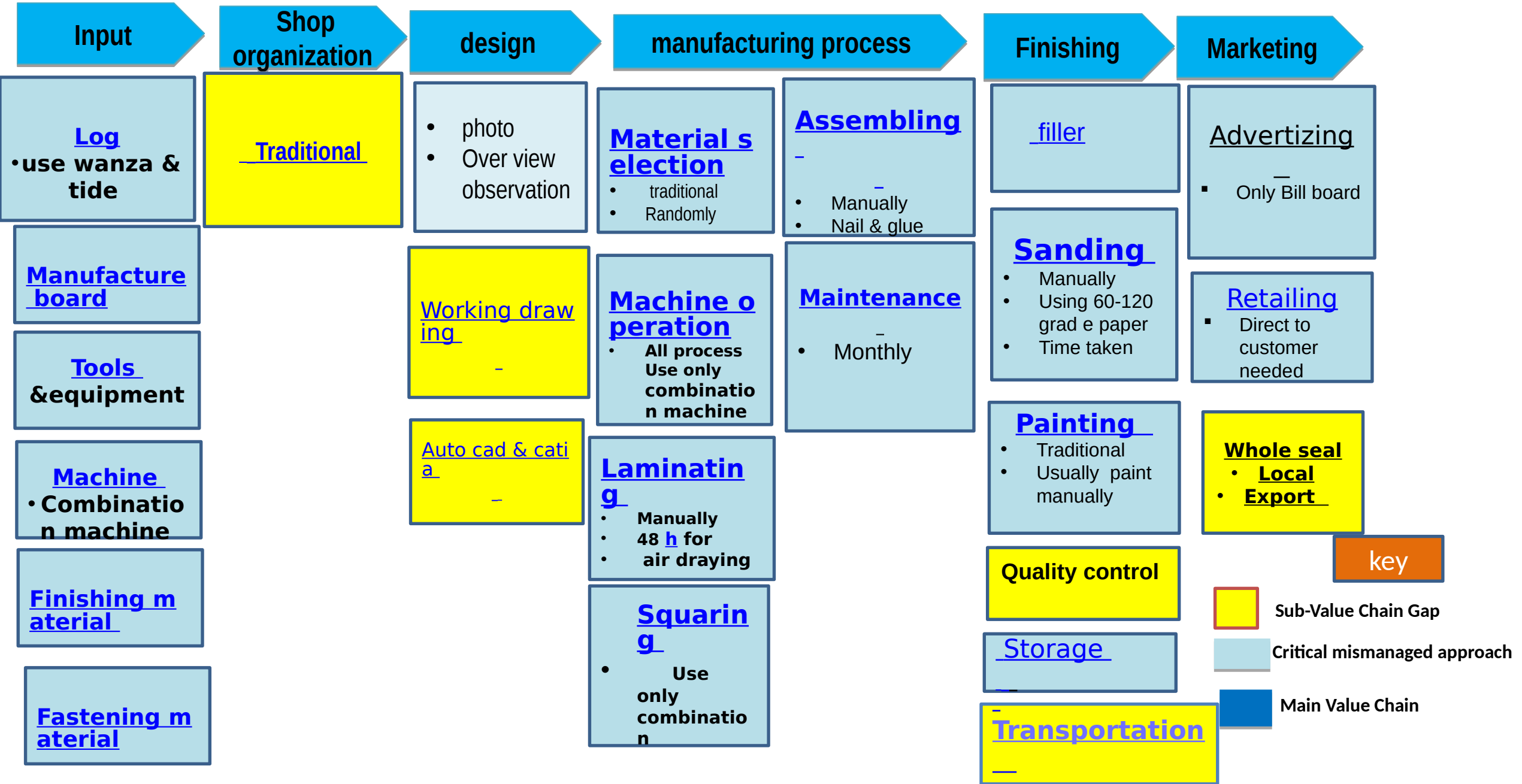
Marketing

Advertizing
- TV
- Radio
- Brusher

Retailing
- local

Whole seal
- **Local**
- **Export**

Furniture Production Value Chain(Gaps/Constraints)

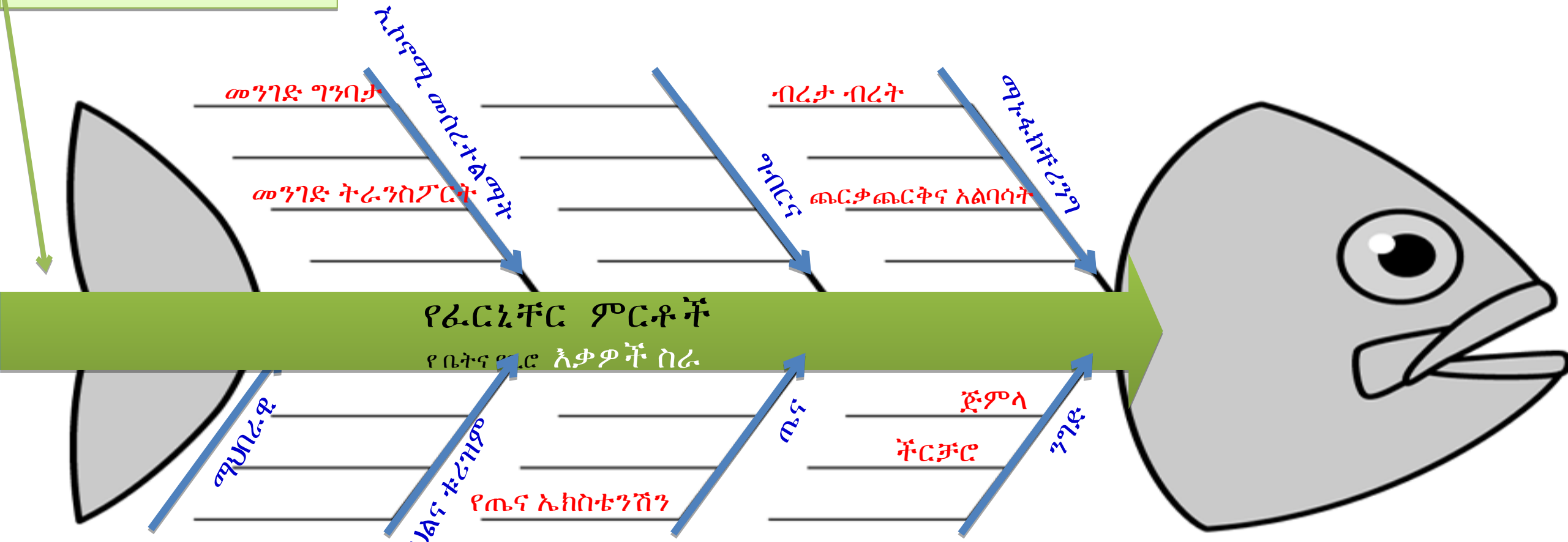


Technology components

TECHNO WARE	HUMAN WARE	INFO WARE	ORGA WARE
Jointer Machine	Jointing ability	Free hand sketching	Office room
Thicknesser	Edge squaring ability	Working drawing	Work shop room
Edger	Ripping ability	Auto cad, catia catalog	Client service room
Circular Machine	Cross cutting ability	model	Display room
Cross cutting & Ripping	Laminating press ability	Oriented information	Material room
Laminating Machine	Machine maintaining experience ability	Working process	Assembling room
Cold pressing	Finishing material selection ability		Finishing room
Hot pressing	Sanding ability		
Electrical pressing	Painting ability		
Mechanical pressing	Assembling ability		
Finishing Machine	Joint making & fitting ability		
Compressor Machine			
Roller Tool			
Driving power tool			
Pneumatic taker			
Pneumatic nail			
Types Of Joint			
Dado ,rabbit ,dovetail, grove ,finger ,mortise, dowel etc...			

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OTHER TECHNOLOGY

No	ECHNOWATRE	PHOTO	Metal	AUTOMOTIVE	ELECTRICAL	AGRICULTURE	CONSTRUCION
1	Log					plantation	
	PORTABLE CUTTER		body part		ELECTRICAL part		
	SAWMILL		body part		ELECTRICAL part		
	tracker		body part	mechanical part	ELECTRICAL part		Road part
2	Shop building						construction
3	Machine		body part		ELECTRICAL part		
	Press machine		body part		ELECTRICAL part		
	Shaper machine		body part		ELECTRICAL part		
	Jointer machine		body part		ELECTRICAL part		
	Pneumatic power tool		body part		ELECTRICAL part		
4	Electrical installation		body part		ELECTRICAL part		
5	Lumber drying		body part		ELECTRICAL part		
	Oven drying		body part		ELECTRICAL part		
	Kline drying		body part		ELECTRICAL part		
6	Maintenance			mechanical part	ELECTRICAL part		

No	Measurement	Figure debretabore	Fact china
1	Quality	Less quality	High quality
2	Maintenance	Per a month	Per a day
3	Assembling	Lack of skill	High accurate fitting
4	Paint	Poor painting mechanism	High attractive
5	Laminating	Using c clamp ,stone	20 min for daring
6	Sanding	Poor sanding apply	Fine sanding apply
7	Advertizing	Only bill board	TV ,website ,radio etc
8	Customer	Lack of customer attractive appearance	Very good customer appearance
9	Kaizen	Less kaizen apply	Sustainable apply kaizen

The change that comes from bench mark

R.N	Indicators	Measurements	Bench Marks	As Is
1	High furniture production	Number of products	High	Low
2	High customers need to buy furniture products.	Strength	High Durability	Less Durable
3	Increase skills for the person	Ability	Skill full ability	Unskilled man power
4	Save product cost & increase production	Time	Less	High
5	Quality of furniture products	Quality	High quality	Less Quality

The Results that come from bench marking

R.N	Outputs	Outcomes	Impact
1	Increased furniture products	Higher market needs	Increase market linkages
2	Produced attractive designs	Attractive designs	
3	Higher job opportunity	Create new job	Reduced jobless powers
4	Quality finishing	Attract customers	Increase market linkages

Evaluation

Time consuming product, poor quality finishing, poor assembling system, lack of skill,
un organized shop and traditional work practice and poor product distribution system.

Planning

Acquiring technology, preparing working drawing by software such as Auto Cad,catia,solid work, arrange all activities, good marketing distribution system .

THANK YOU VERY MUCH!!