SOIL AND WATER CONSERVATION VALUE CHAIN ANALYSIS







Sector:- Agriculture

Sub sector:- Natural resource

value chain Soil and water conservation at Farta werda

የዕድገትና ትራንስፎርሜሽን ዕቅድ ዘርፎች

1	ግብርና **Natural resourse** አፈር እና ውሃ እቀባ ስራ እሴት ሰንሰለት
2	ኢንዱስትሪ ልማት
2.1	ጨርቃ ጨርቅና አልባሳት
2.2	ቆዳና የቆዳ ውጤቶች
2.3	ስኳርና ተጓዳኝ ምርቶች
2.4	ሲሚንቶ
2.5	ብረታ ብረትና ኢንጂነሪንግ
2.6	ኬሚካል (ፋርማሲቲዩካል፣ ህትመት፣.....)
2.7	አግሮ ፕሮሰሲንግ
3	ማዕድን
4	ኢኮኖሚ መሠረተ-ልማት
4.1	መንገድ ግንባታ
4.2	ባቡር ትራንስፖርት
4.3	መንገድ ትራንስፖርት
4.4	ባህር ትራንስፖርት
4.5	አየር ትራንስፖርት
4.6	ኢነርጂ
4.7	ውሃና መስኖ
4.8	ቴሌኮሙኒኬሽንና አይሲቲ
4.9	ከተማ ልማትና ህንፃ ኮ/ን
5	ንግድ
6	ጤና
7	ባህል፤ ቱሪዝምና ስፖርት
8	ማህበራዊ

OBJECTIVE

Generally, the study was conducted to determine the present farming practices in soil and water conservation work at Farta worda, Amhara region.

Specifically, this aims to:

Main:- to conserve natural resources or to conserve soil ,water and other natural resources

Specific:-

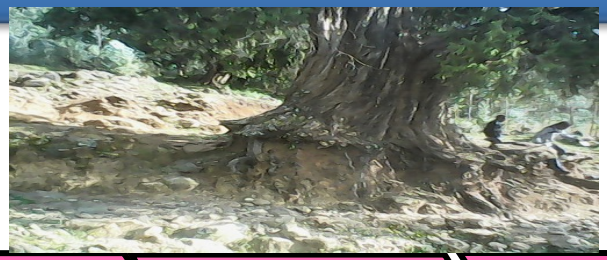
- to conserve soil
- To con serve water
- To protect soil erosion
- To increase ground water table

Facts and figers

no	Criteria	Country		
		Ethiopia	Brazil	India
1	Lose of soil in tone/year	1.5 Billions	55 Million	45 Million
2	Lose of water /m3/year	122 billion	18 billion m3	16 billion
3	Lose of soil/ha	42	12	9.3

Agriculture:-Soil and water conservation value chai

AS IS





nput supply → preparation → bstract stractures → Managemental activities → Out put

- Seed and seedling
  Seed and seedling.docx
  - Farm tools
    Tools and equipments.docx
- Site selectionSite
  Site selection.docx
  - Layout
    LAY OUT OF ANBESAW.docx
- Physical structure
  Physical structure Enyew.docx
  - Biological structure
- Area closure
  - hoeing
    - Tree pruning
- Rehabilitated the graded area

Agriculture:- soil and water conservation

TO BE.. India





Input supply

- **Seed seedling**
  Seed and seedlin1.docx
  - **Farm tool and equipment**
    tool pic.docx

preparation

- **Site**
  Site selection bm.docx
  - **Lay out**
    Lay out bm.docx

Construction structure

- Physical
  - **Biological structure:-**
    - ❖ Saspania
    - ❖ Tureens

    Biological bm.docx

Managmental activities

- **Area**
  Area closure bm.docx
  - **Hoeing:-**
    - ❖ Apply fertilizer
    - ❖ Watering
    - ❖ keeping
    - **Pruning**
      Pruning bm.docx

Out put

- **Rehabilitate the degrade area**
  Rehabilitation bm.docx
  - **AREA changed to very green**
    - ➢ Environments is very green
    - ➢ To growing natural grass
    - ➢ Water collected
    - ➢ Retained Silt soil.

Marketing

- Tourism attractive



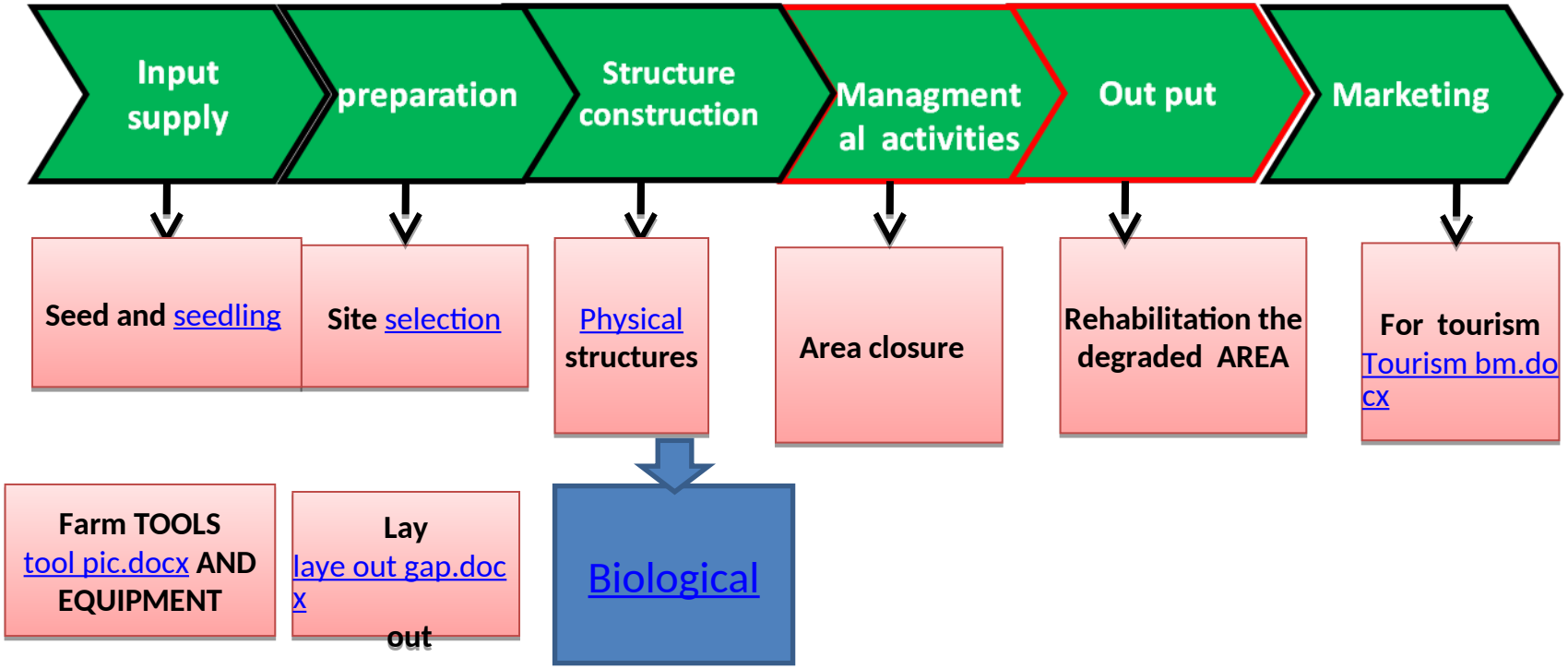






Agriculture:- Soil and water conservat

Gap

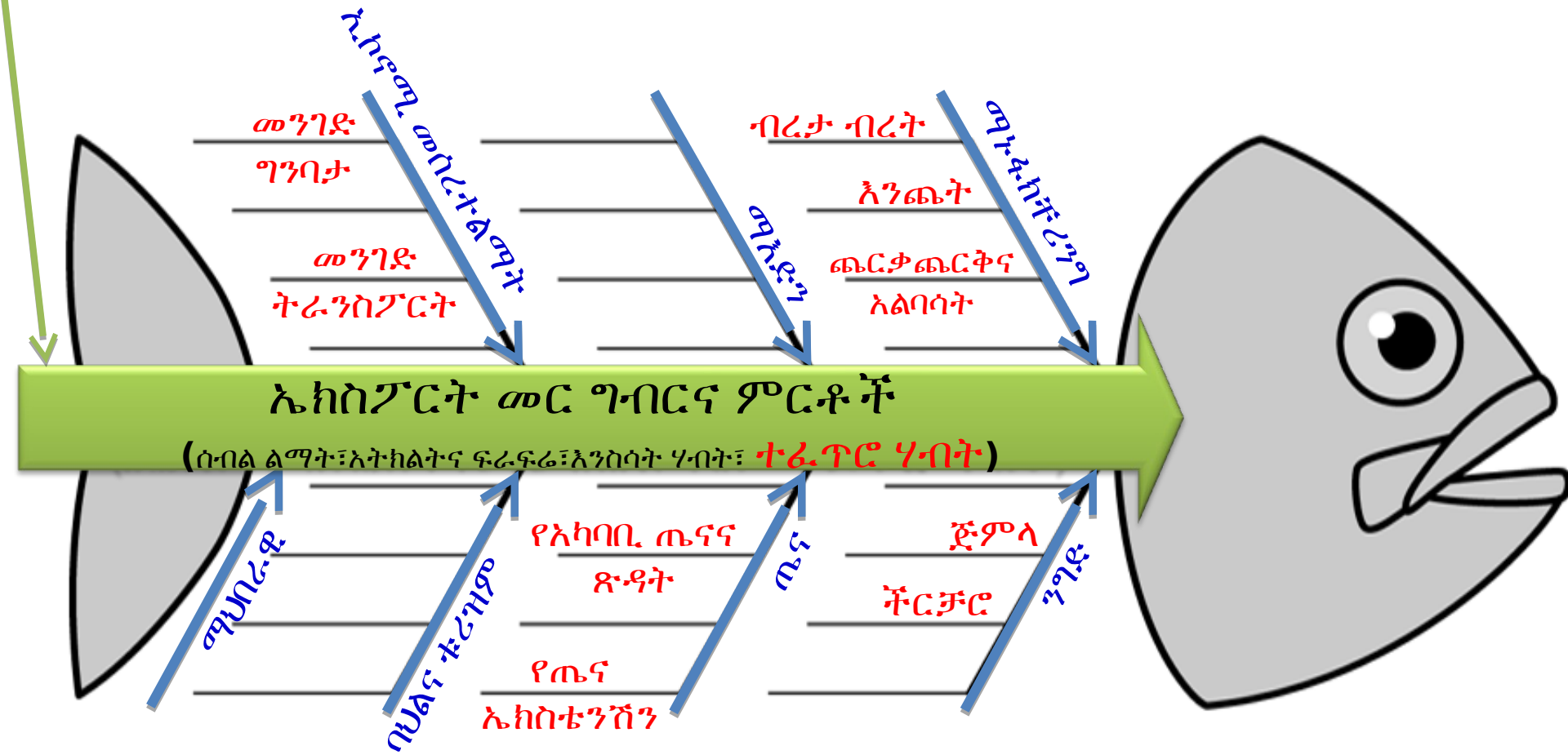


Agriculture:- Identified technologies

Activities	Techno-ware	Human-ware	Info-ware	Orga-ware
Land preparation	Tractor tractor pic.docx	Operating machiner uc	Tractor operation manual natural_3-.pdf	Farm layout
	Excavatorexcavater pic.docx	Operating machiner uc	**Excavator operation manual**	Parking
Seedling preparation	Seed	Colecting of seed uc	Afforestation manual natural 56.pdf	Nursery site
Lay out	GPSgps pic.docx	Operating machiner uc	Watershed delineation manual	Farm layout

የእሴት ሰንሰለቶች ተመጋጋቢነት ከትኩረት ዘርፎች አኳያ

1) ግብርና



Agriculture:- soil and water conservation

Changes come by best practice

No.	Indicators		ence	AS IS
1	**Amount of rehabilitation**	**Persent**	88	48
2	***Erosion per ha***	**Ton/ha**	16.4	42
3	**General erosion**	**Tone per year**	55 million	1.5 billion

The result that come by best practice

No.	ሲሰራ የሚመጣው (Outputs)	ውጤት (Outcomes)	ለውጥ (Impact)
1	Increase natural resource conservation	Increase soil fertilities and water retantion	Improve enviromental condition and create sound environment. Balancing of global warming.
2	Increase soil fertijlity and recharge ground water.	Decrees natural resource.	Improve sustainable environment. Sustain natural resources.

Evaluation of the value chain analysis

- Ethiopia is slightly good in soil and water conservation work in Africa
- less sound environment
- Low natural resource conservation

Constraints contributing to this fact are:

- In adequate technological inputs
- In adequate extension service
- Poor manage mental activity
- Cultural and traditional soil and water conservation work
- Poor cultivation system and less quality structures

Planning

- Identify technologies for SWC work
- Discuses with stockholders about SWC
- Acquire technologies and seek the technologies
- Make the designee of selected technology
- Manufacture the technologies- 100% copy
- Give continues extension service soil and water conservation in Ethiopia

Identified technologies and respective sectors

NO	Techno ware	photo	metal	automotive	electricity	
1	**Tractor**	tractor pic.docx	Body part	Engine part	Electric device	
2	**Excavator**	❖excavater pic.docx	❖Body part	Engine part	Electric device	
3	**thedolight**	thedolight pic.docx	Tripod part		Telescope	
4	**GPS**	gps pic.docx			Electricity connectivity and maintenance	

GROUP MEMBER

1. BANTIE MESAFINIT
2. ABEBAW BINEGA
3 .ANBESAW DEREJE
4.ENIYEW YLAK
5.CHALACHEW ADISSU
6. KASSAHUN ABEBAW
7. GASHAW MELKIE

Thank you

very much