Sector:- Agriculture

Sub sector: Animal Production

Title : dairy production





Sector:- Agriculture

Sub sector:- Animal production

Dairy cattle production value chain in case of D/B

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የዕድገትና ትራንስፎርሜሽን ዕቅድ ዘርፎች

1	**ግብርና** **እንስሳት ሃብት ልማት** **እሴት ሰንሰለት የወተት ላም እርባታ**
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

1. **To discuss the present cultural farming practices in dairy production.**
2. **To identify dairy production value chain (AS IS) in and around D/b Town .**
3. **To compare dairy production value chain (AS IS) to that of the benchmark.**

Facts and figures

- Milk yield/cow/day

-In Ethiopia/ D/birhan/- 21 L/day

-In Israel - 51.5 L/day

-In US - 43.5 L/day

-In UK - 34 L/day

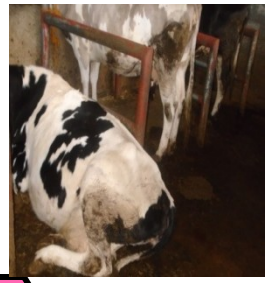
- Average ages of calves reach at first breeding

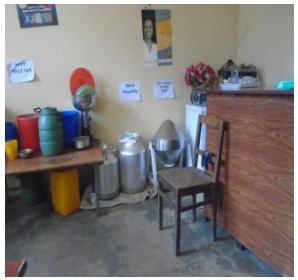
-In Ethiopia/D/B -2.5 years

-In India -1.8 years

Agriculture:-Dairy production value chai

AS IS


Input supply

Feed -straw
-Atela
-wheat bran
-oilseednutcakes

Breed-HF
-jersey

water
-pipe water

feeder
-cement

manpower
-un skilled

Equipment
-bucket
-towl
-milk processer
-cream separater

Housing

Site selection

un ventlated

building
house.jpg -Poor house

management

feeding
-imbalanced
-low quality

watering
-pure water

healthcare
-poor

hygiene
-poor

Waste disposal
-good

Longer breeding/AI/

Marketing

-poorMarketing system
- poor linkage(poor communication)
-local market(for customer)

No promotion

Poor calve reari ng

processing

There is no milk processing

Agriculture:-dairy production value c

TO BE..Israel








Input supply | **Housing** | **management** | **marketing** | **processing**

Feed corn, soybeans, wheat, barley,oat,sorghum, pasture,

•*Breed*
-HF,iersy

waterer
-metallic

manpower
comi.jpg committed/skilled

grazing land

-water
-pipe water

-feeder
-cemented

equipment
-milk processing machine
-lacto meter
- hoof- trimmer
- heart grith thermometer
- restrainer
- towl,bucket,

Site selection
-road
-power
formulated feed
vet. Service
-market

building
-confined
-open
-drainage
-space
-path

feeding
-cut and carry
-mixing

watering
-piping

breeding –cow-calf Growth hormon,shorter breeding time

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healthcare Treatment, Vaccination, Parasitecontrol,isolation,footbath,hygiene,hooftrimming,dehorning, Castration, good Waste disposal

Promotion

Product Quality Enhancement

-Market Linkage restaurants, supermarkets, Whole seller,retailer

Hygiene

Cream separate

Packaging

Labeling

Agriculture:- dairy production value c

Gap

Input supply → Housing → management → Marketing → Processing

Feed corn, soybeans, wheat, barley,oat,sorghum
-pasture land

grazing land

waterer
-metallic

manpower
- committed

-water
-pipe water

formulated feed
formu.jpg

equipment
-milk processing machine
-lacto meter
- hoof- trimmer
- heart grith thermometer
- restrainer
reatmentequip

Site selection
-road
-power
-transport
- vet. Service
-market

building
-confined
-open
-drainage
-space
-path

feeding
-cut and carry
-mixing

watering
watering.jpg
piping

breeding –cow-calfcalf.JPG
Growth hormon/shorter breeding

healthcare
Treatment, Vaccination, parasite,control,isolation,footbath,hygiene,hoof,trimming,dehorning, Castration, good Waste disposal

Promotion

Product Quality Enhancement

Market Linkage/restaurants and supermarkets,wholeseller

Hygiene

Cream separate

Packaging

Labeling

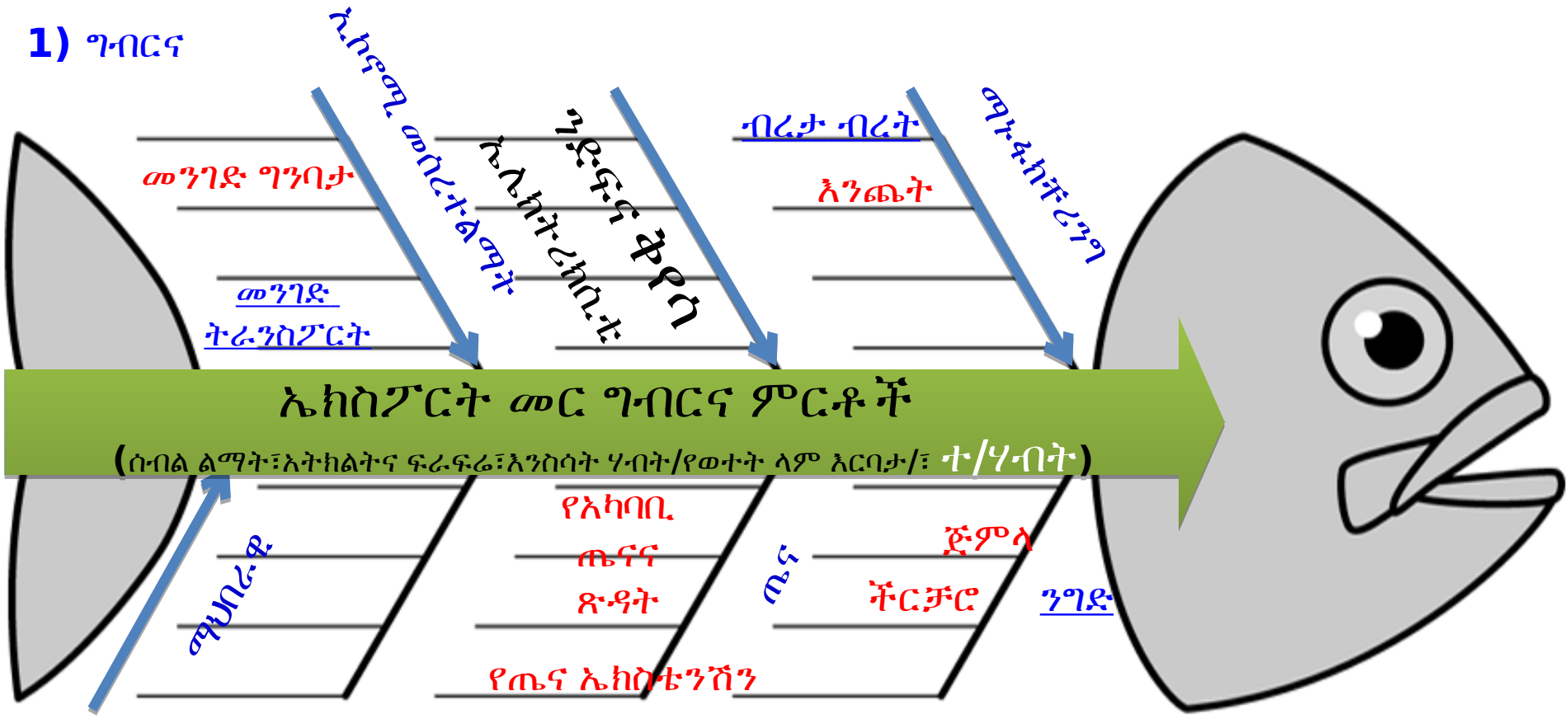
Agriculture:- Identified technologies

	TECHNOWARE	HUMANWARE	INFOWARE	ORGAWARE
House	1.Open house 2. confined house	Construct modern house	Prepare farmstead manual	_House building and construction center
feeding	3. feeder 4.waterer	Filling the gap appropriate feeding and watering techniques	Prepare feeding and watering manual	milk processing plant
measuring	5.weighting scale	fill the gap proper weighting of the cow	Prepare weighting operating manual	Agricultural & Rural development
Milk processing	cream separater ,machine milker	prepare appropriate cream separating machine	Prepare milk processing manual	Agricultural & Rural development
Identification	Ear tag	fill the gap of ear tag techniques competency	Prepare identification technique manual	Agricultural & Rural development

Hoof trimming	**8.hoof trimmer**	**knowledge of hoof trimming techniques**	**Prepare hoof trimming operating manual**	**Agricultural & Rural development**
spraying	9.knapsack	knowledge of knapsack calibration	Prepare spraying operating manual	Agricultural & Rural development

De worming	10.balling gun	skilled of use de worming	Prepare deworming operating manual	Agricultural & Rural development
Hay making	11.harvester	knowledge of hay making	Prepare hay making manual	Agricultural & Rural development
vaccinating	12.Vaccine syringe	techniques of application of vaccination	Prepare vaccination manual	Agricultural & Rural development

የእሴት ሰንሰለቶች ተመጋጋቢነት ከትኩረት ዘርፎች አኳያ



Agriculture:-dairy production value chain

Changes come by best practice

No.	Indicators	Unit	Best experience	AS IS	
1	**Milk yield/cow/day**	**Liter**	**51.5**	21	
2	***Ages of calves reach at first breeding***	**year**	**1.8**	**2.5**	

The result that come by best practice

No.	ሲሰራ የሚመጣው (Outputs)	ውጤት (Outcomes)	ለውጥ (Impact)
1	Increase farmers productivity	Increase per capita of daily income	Share GDP and live a better life
2	increase the product of milk by product	Decrees looses by fluctuation	Increase profit gain by milk product

Evaluation of value chian

- Least in dairy production globally
- Least in milk consumption
- Market barriers during fasting period
- Low milk yield
- **Constraints contributing to this facts are:**
  - In adequate technological inputs
  - In adequate feed formulation
  - Poor marketing network
  - Cultural and traditional practices
  - Poor breed & breeding system

Planning

- Identify technologies
- Discuses with partners
- Acquire technologies
- Make the design of selected technology
- Manufacture the technologies- 100% Copy
- Give continues extension service about dairy cattle production

Identified technologies and respective sectors responsibility

TECHNOWARE	sector	Sub-sector
1.Open house 2. confined house	Economy infrastructure -Industry development	-Building construction -Manufacturing -surveying and drafting
3. feeder 4.waterer	-Industry development	Manufacturing
5.weighing scale	Industry development	Manufacturing
6.dehorner	Industry development	Manufacturing
7. Milk processing machine	Industry development	Manufacturing
8.hoof trimmer	Industry development	Manufacturing

9.knapsack	**Industry development**	**Manufacturing**
10. tag applicator	Industry development	Manufacturing
11.Milk Processing house	Industry development	Manufacturing
12. Vaccine syringe	Industry development	Manufacturing
13. harvester	Industry development	Manufacturing




gettyimages







LIKE BIRDS CAN NOT FLY WITH OUT WINGSS, WE ETHIOPIAN CAN NOT ACHIEVE DEVELOPMENT WITH OUT ANIMAL PRODUCTION!!!

