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Tailored Farm Solutions

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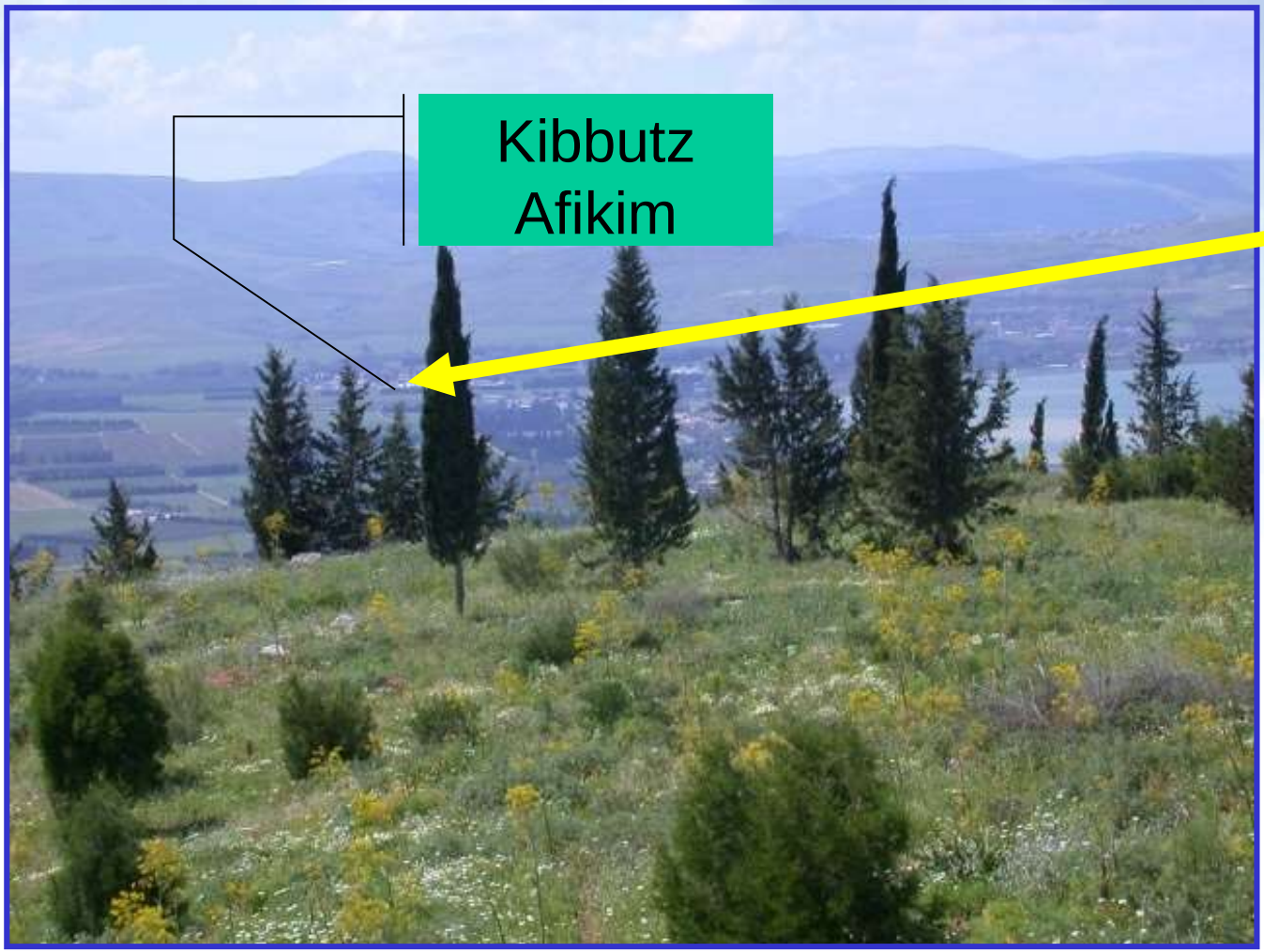
Location


Kibbutz
Afikim

Lebanon
Golan Hights
Tiberias
Haifa
Netanya
Herzelia
Tel Aviv
Jaffa
Ben-Gurion Int'l Air Port
Ashdod
Jerusalem
Ashkelon
Dead Sea
Beersheba
Jordan
The Negev
Egypt
Eilat

Products

Sensors

Software

Global Distribution

More than 30 years of innovation

- World leader since 1977
- The first milk meter and pedometer more than 30 years ago
- Advanced farming solutions
- More than 10,000 farms with afi systems
- Six million pedometers
- In 52 countries over 5 continents

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Professional solution for establishing a competitive, profitable dairy farm

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Dairy farm – project process

- Master Plan (frame work)
- Feasibility/Business plan
- Planning & detailed architectural design
- Licensing & authorizations
- Production of equipment & transportation
- Animal sourcing
- Projection, building & system running (TK)
- Training of local staff
- On-going support

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Fertility & Welfare Milking Barn Concept by afimilk

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Welfare – Happy Cows Produce More

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General

- Africa is considered as an growth market for dairy production
- The dairy market is huge, yet complex
- The need for change is clear, but in which direction?
- What is THE “product” suitable for this kind of farming
- The solution should combine the needs & possibilities of the market players (Win/Win situation)

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Objectives

- Affordable & viable solution for rural dairy farming
- Possibility to incorporate several farmers into one advanced barn
- Improve milk production of the local cattle
- Improve welfare (husbandry conditions) of the local cattle
- Improve milk quality and hygiene parameters to meet high processing & consumers standards
- Expose the farmers to computerized systems

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Professional constraints

- Huge number of cows are kept in poor environmental conditions:
  - Tied up in one place,
  - Suffer insufficient feed and water supply,
  - Suffer heat stress,
  - Insufficient health control
- The above mentioned, result in very poor fertility
- Milk collection method causes fast deterioration of milk quality

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Rural Dairy Farming

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Human Constraints

- Farmers are reluctant to accept initiatives for few main reasons:
  - They regard their cows as an asset (guaranty for “rainy” days to come…)
  - They are scared of the need to invest, or lack possibility for accessing loans

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Main Concept

Modern “All included” barn which will provide adequate cows’ welfare conditions, adapted to farms with up to 100 cows with a vision to future development

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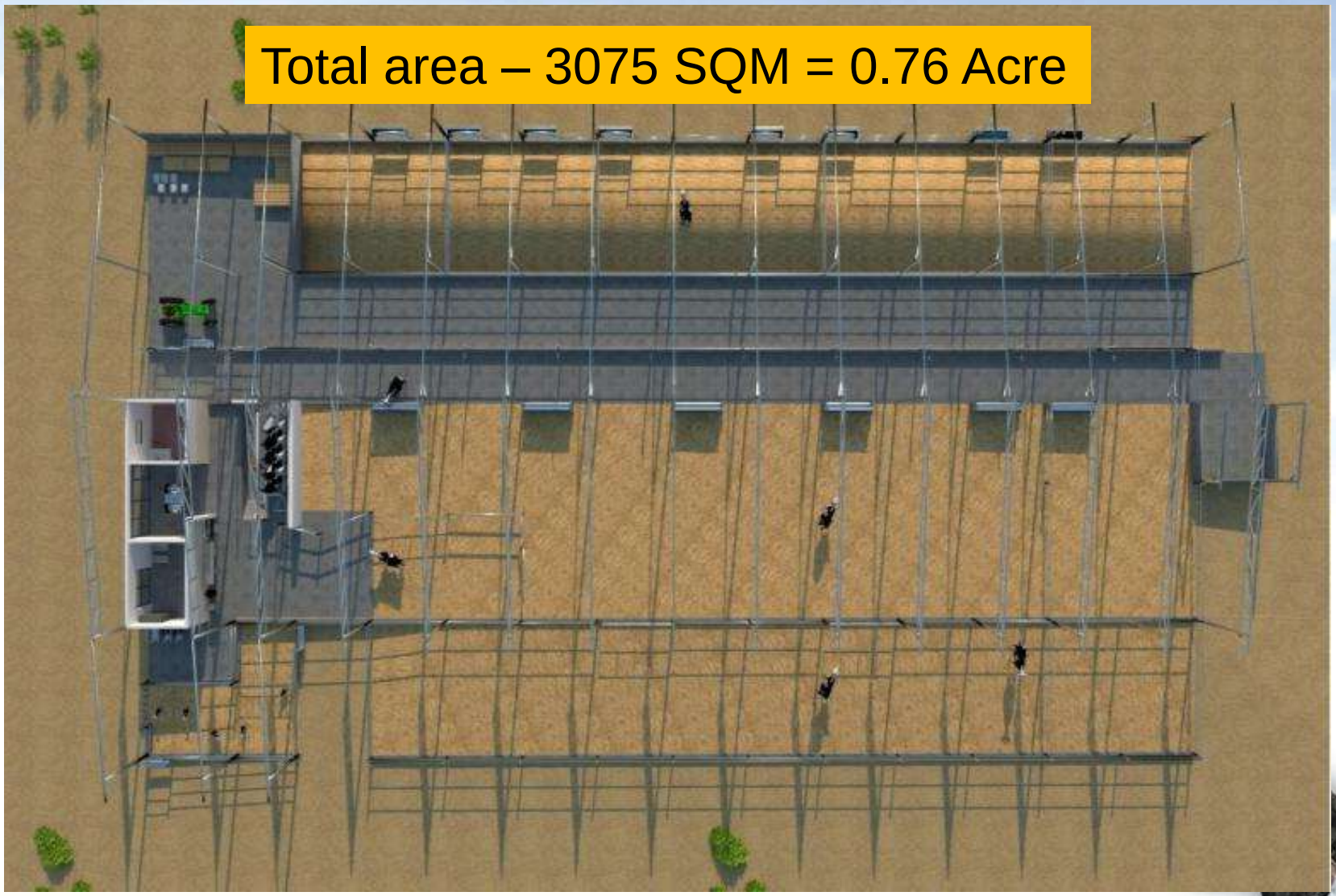
General Layout



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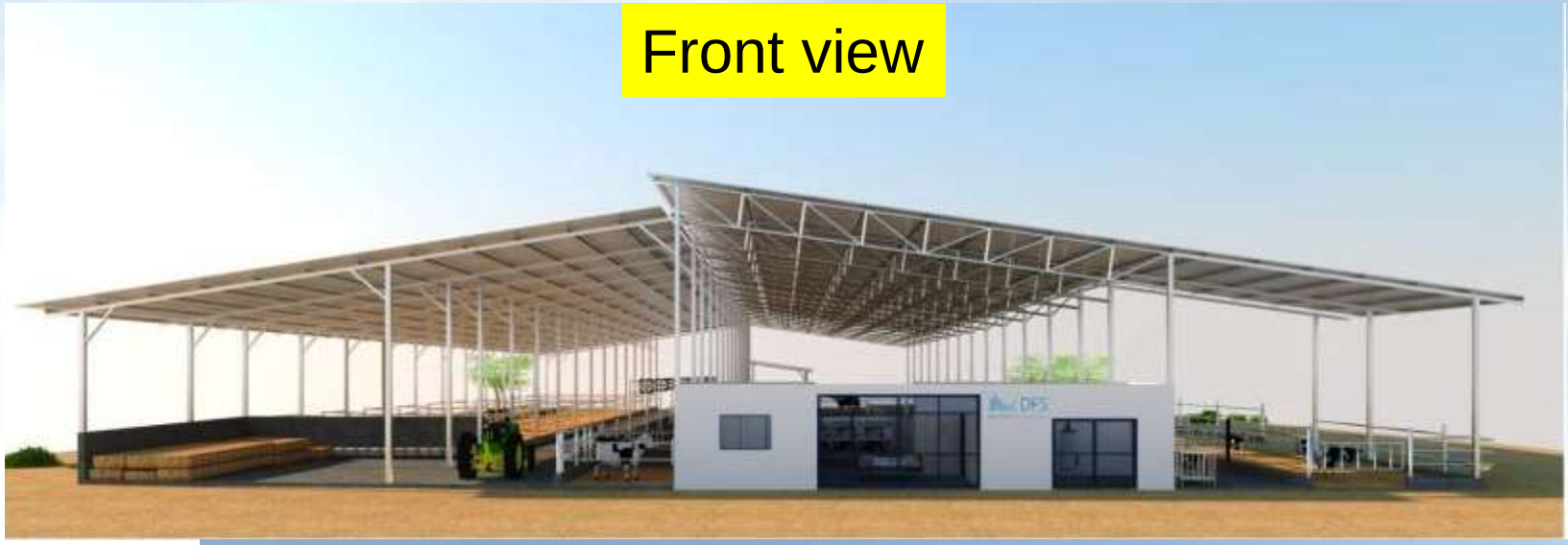
Front & Back View



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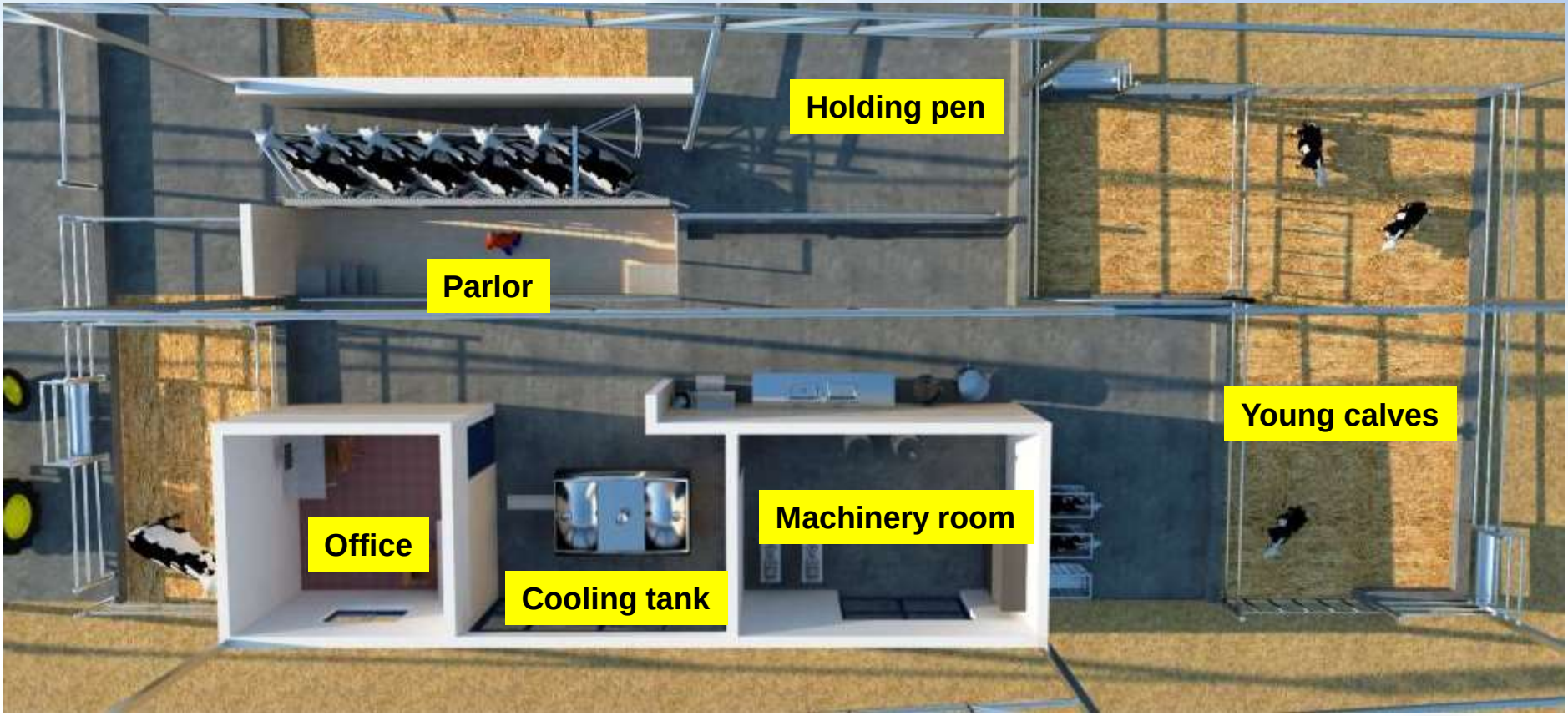
Milking Parlor



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Feed Alley & Cow Cool System

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Milking Parlor

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HQ Control & Monitoring

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Economic Calculations Guidelines

- Average production increase of **8.0** liters per cow, during 1st year of operation, mainly due to enhanced welfare, fertility & modern milking
- Price per liter increased to due to improved quality & quantity

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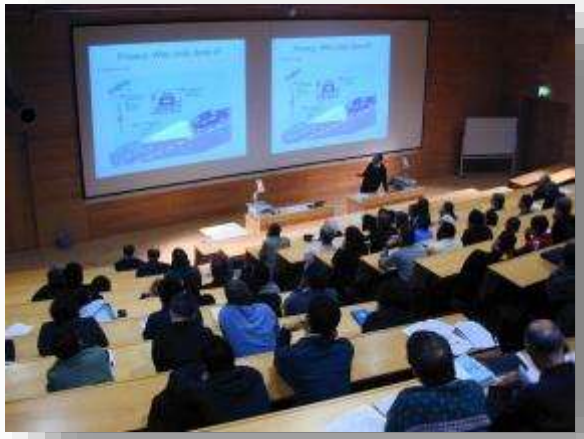
Professional Services

- Herd health protocols
- Field crops and nutritional consultancy
- Management tools
- Breeding and genetic techniques
- Lowering heat stress
- Seminars and training on different levels
- Knowledge transfer



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Today

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Today

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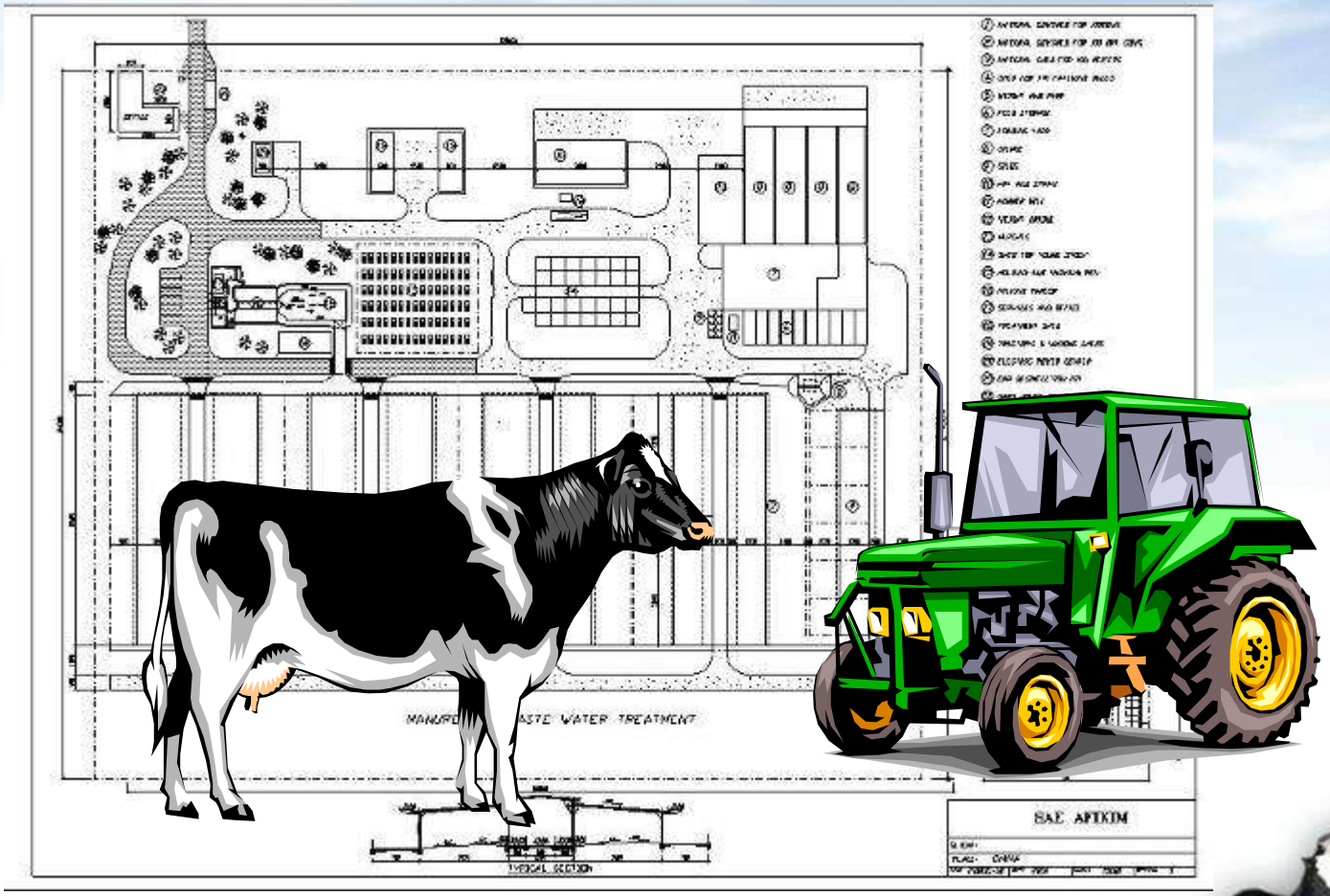
Progress
Fresh green grass
Niebe
and others…

The need to organize

Let’s talk solutions!



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From the field to the supermarket

- Field crops
- Sheds and buildings
- Cattle importation
- Milking centers
- Feed centers
- Service facilities
- Processing advisory

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Local cattle

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Watusi

Gudali - Cameroon

N’Dama

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Kenyan Sahiwal

Kenyan Sahiwal & Crossbreeds

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Fulani

Import or improve local breeds?

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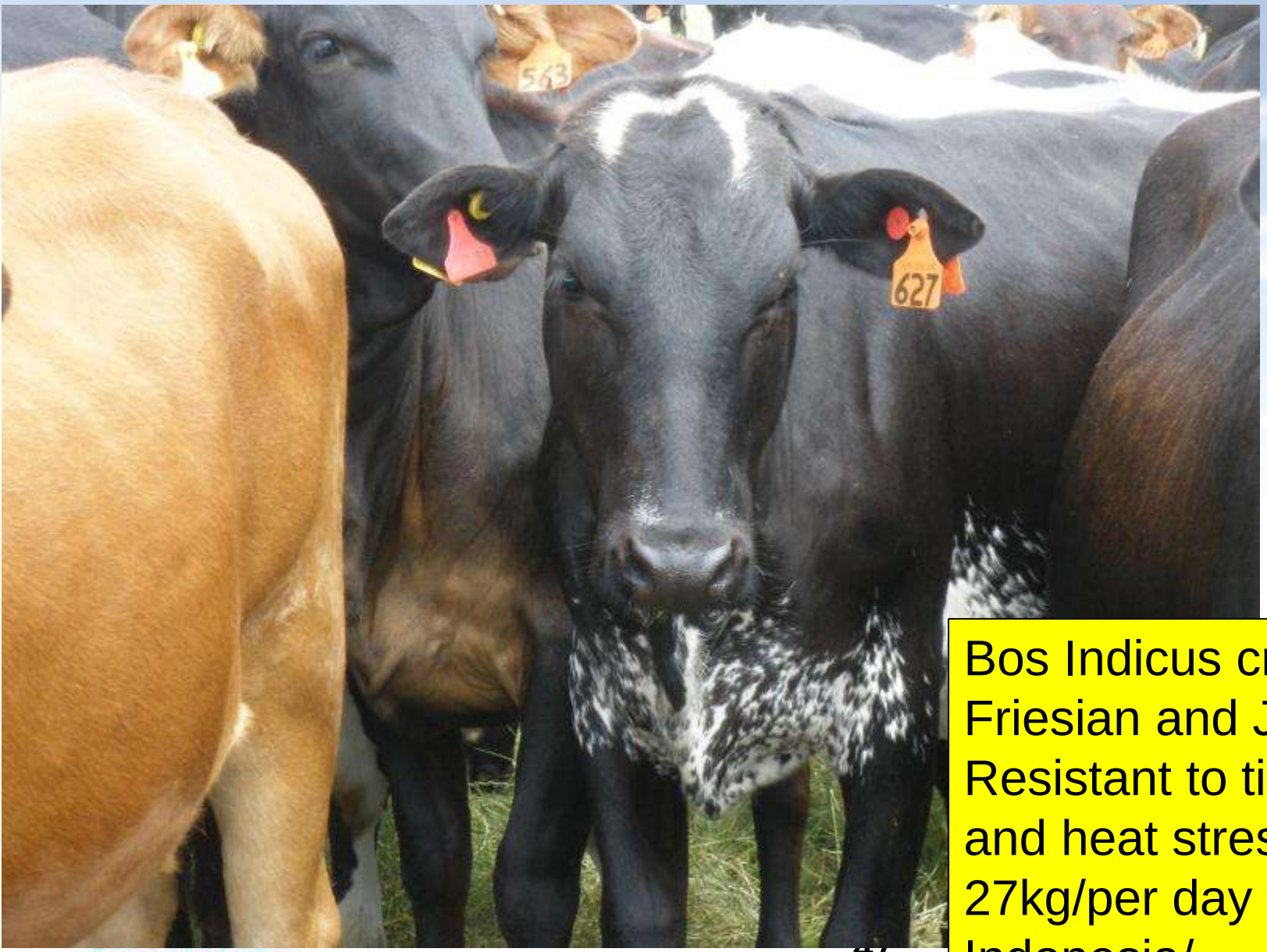
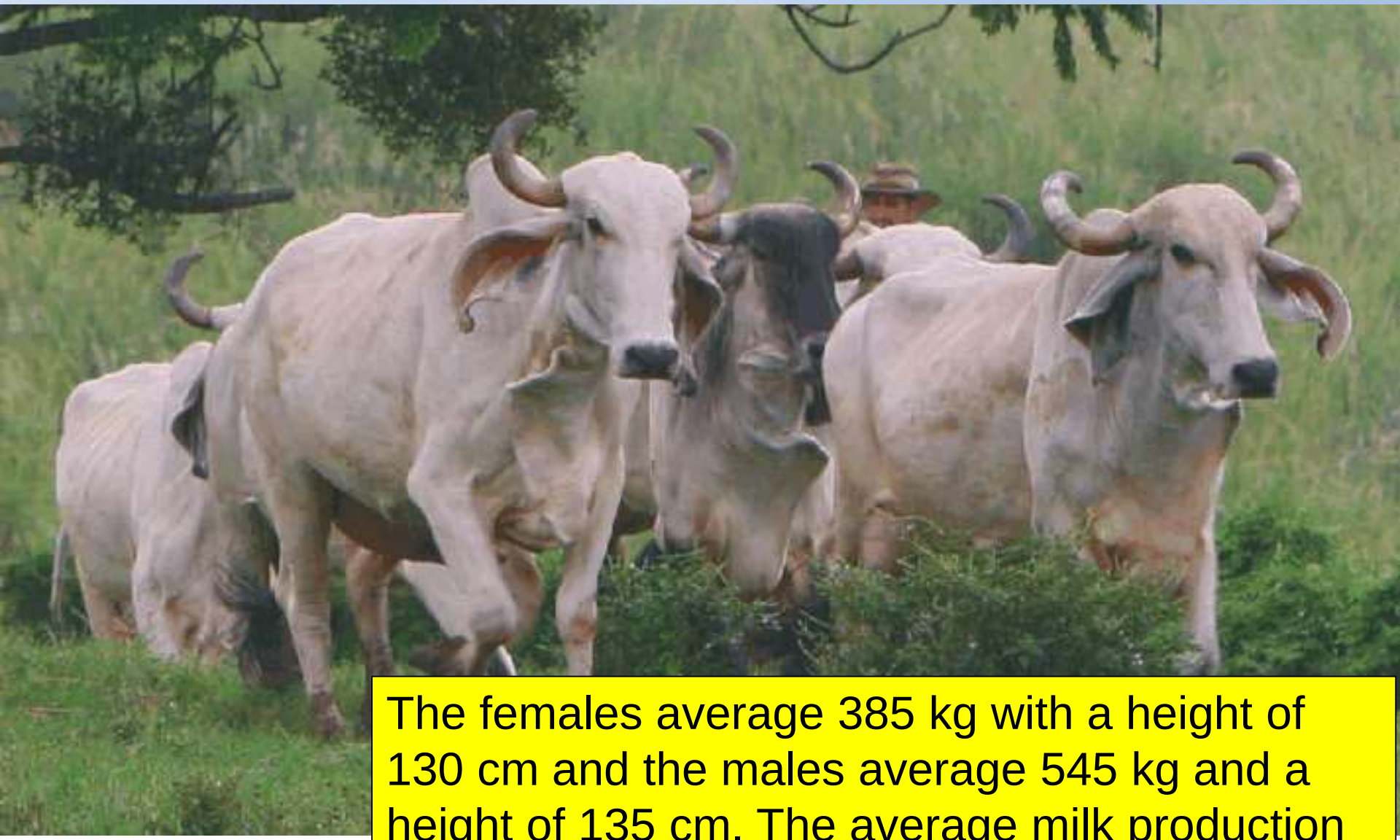
Taurindicus Cross – New Zealand Export



Bos Indicus cross with Friesian and Jersey: Resistant to tick fever and heat stress. Reach 27kg/per day yield in Indonesia/

Brazilian Gir



The females average 385 kg with a height of 130 cm and the males average 545 kg and a height of 135 cm. The average milk production for the Gir is 1,590 kg per lactation, with a record production of 3,182 kg at 4.5% fat.

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Girolanda

5/8 Holstein and 3/8 Gir gives 3000 liters in 305 days with 4% fat

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Red Poll over N'Dama

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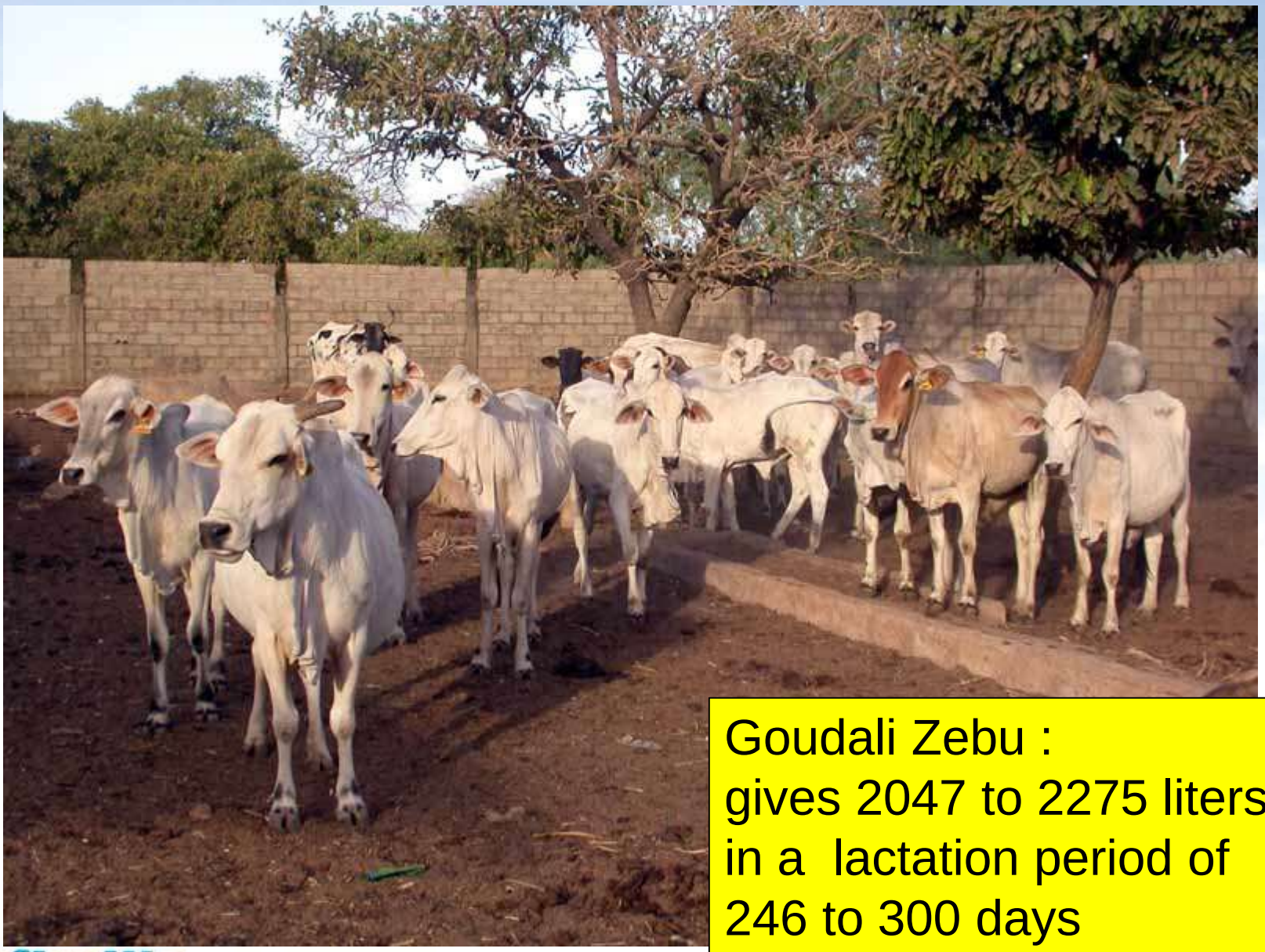
Goudali – Ouagadougou farm



Goudali Zebu :
gives 2047 to 2275 liters in a lactation period of 246 to 300 days

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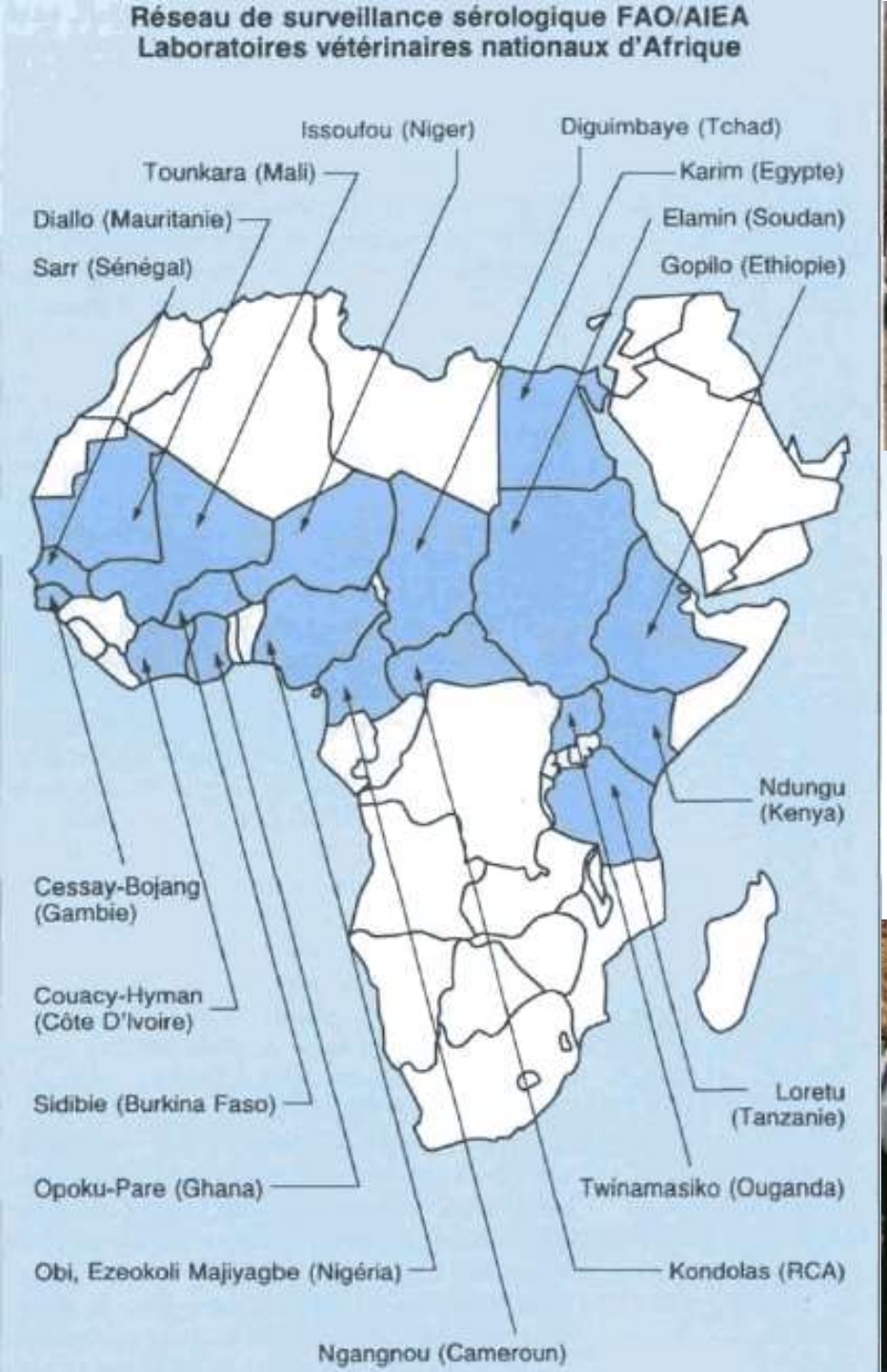
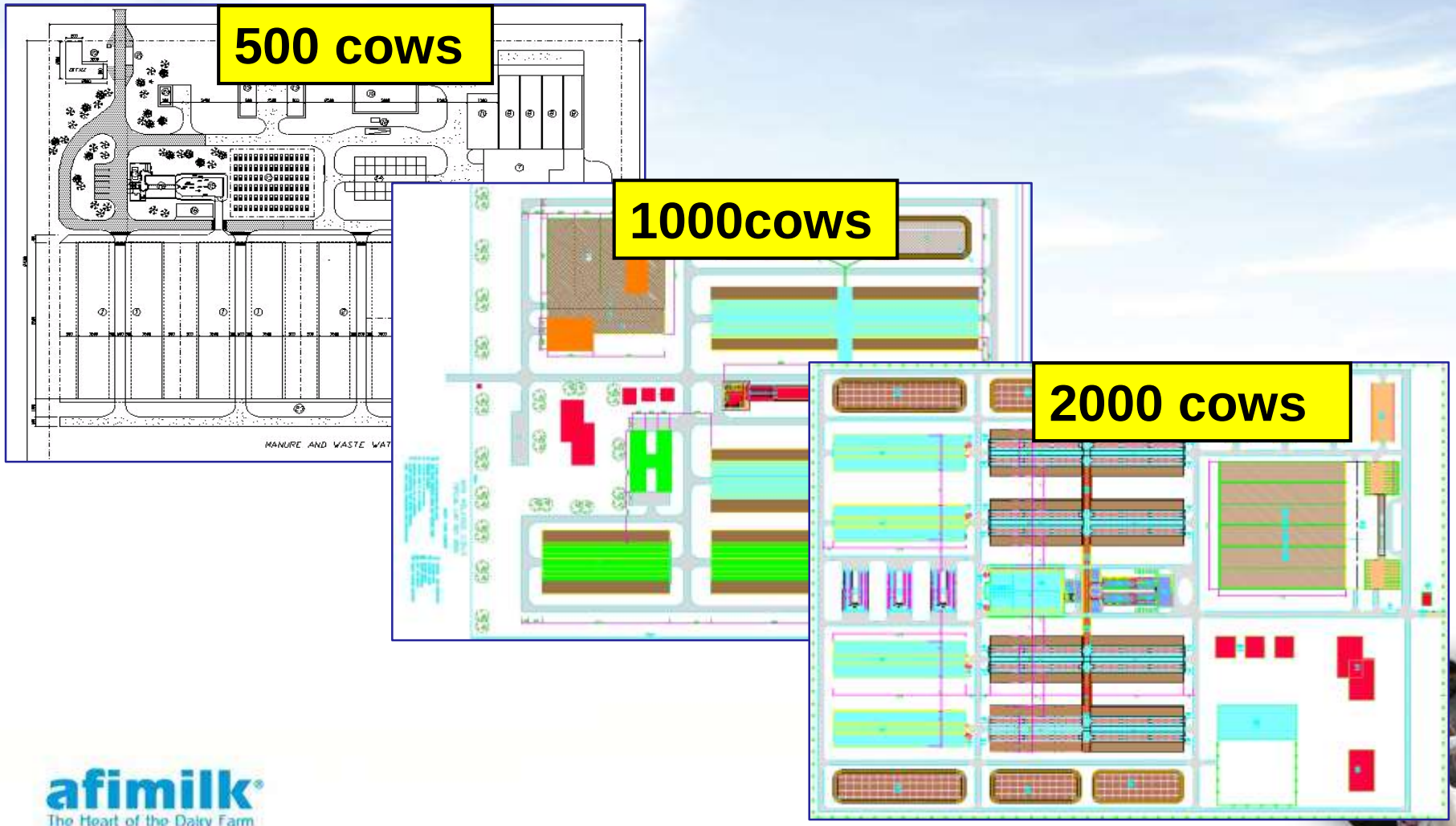

Réseau de surveillance sérologique FAO/AIEA
Laboratoires vétérinaires nationaux d'Afrique
Issoufou (Niger)
Diguimbaye (Tchad)
Tounkara (Mali)
Karim (Egypte)
Diallo (Mauritanie)
Elamin (Soudan)
Sarr (Sénégal)
Gopilo (Ethiopie)
Ndungu (Kenya)
Cessay-Bojang (Gambie)
Couacy-Hyman (Côte D'Ivoire)
Sidibie (Burkina Faso)
Loretu (Tanzanie)
Opoku-Pare (Ghana)
Twinamasiko (Ouganda)
Obi, Ezeokoli Majiyagbe (Nigéria)
Kondolas (RCA)
Ngangnou (Cameroun)

Vaccinate!!!

Different farm designs

Small to large



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Early planning of a project in Nigeria – 03/2013

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Early planning of a project in Nigeria – 03/2013

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Wide array of options

Barns and sheds

Integral shed

Free stalls

Closed barn

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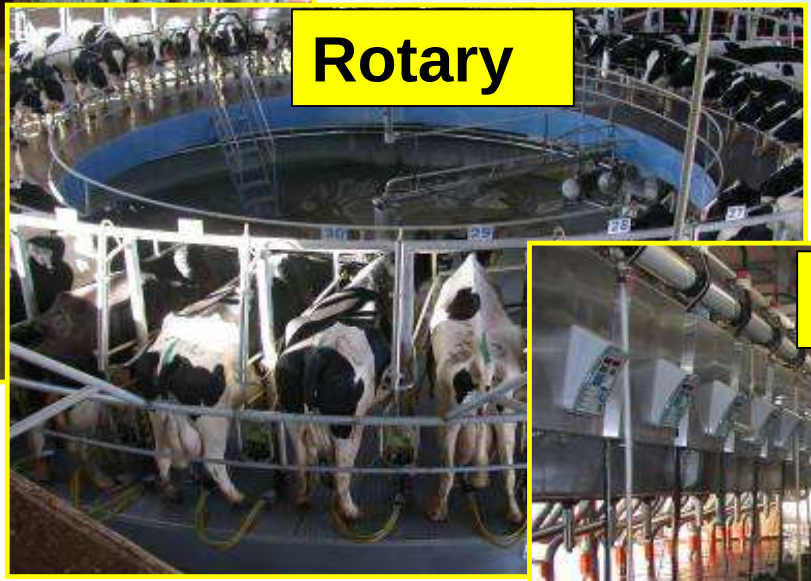
Modern construction adapted with local materials

Milking parlors

Different milking platforms



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Egypt, 600 cows
BEFORE

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Egypt, 600 cows
AFTER

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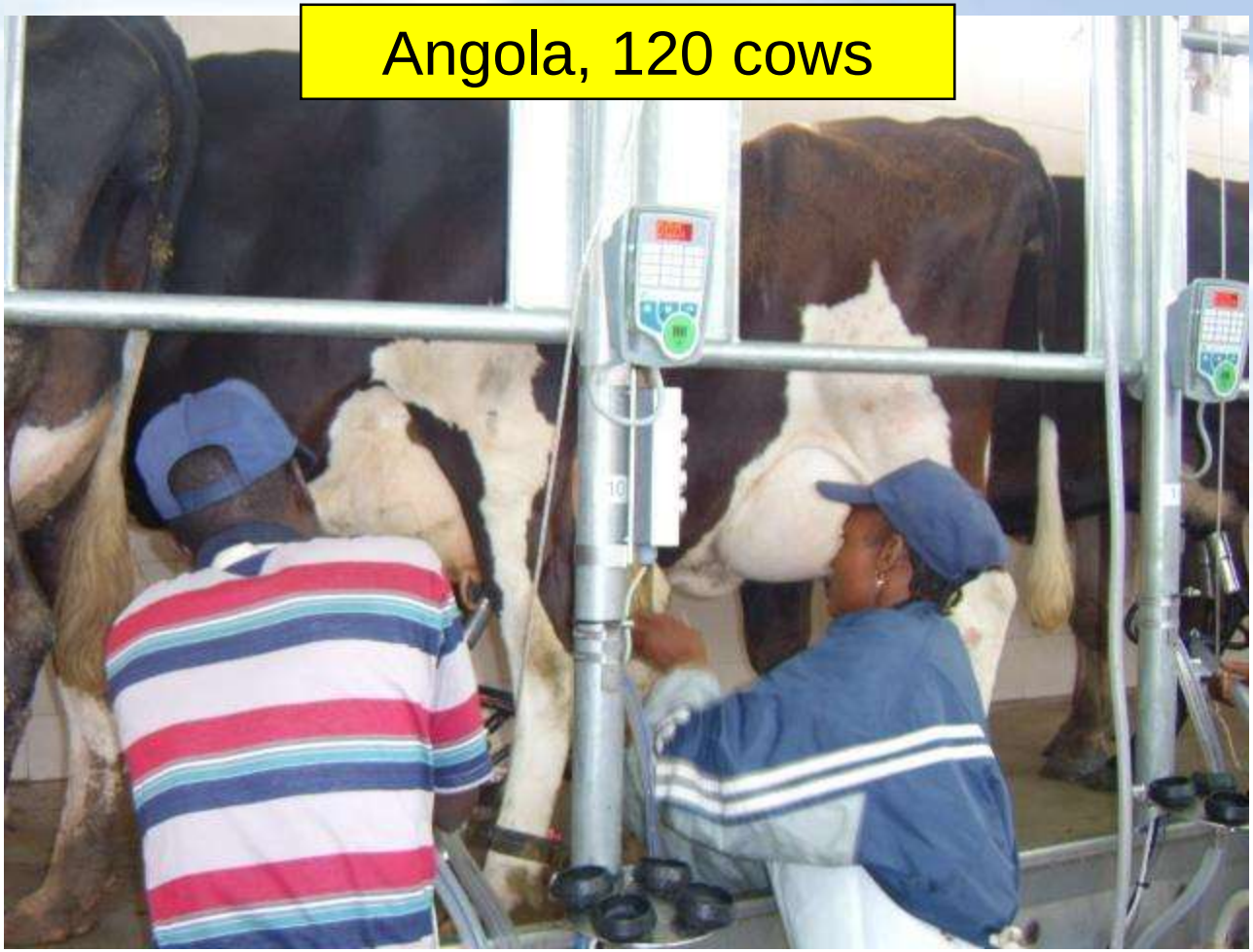
Angola, 120 cows



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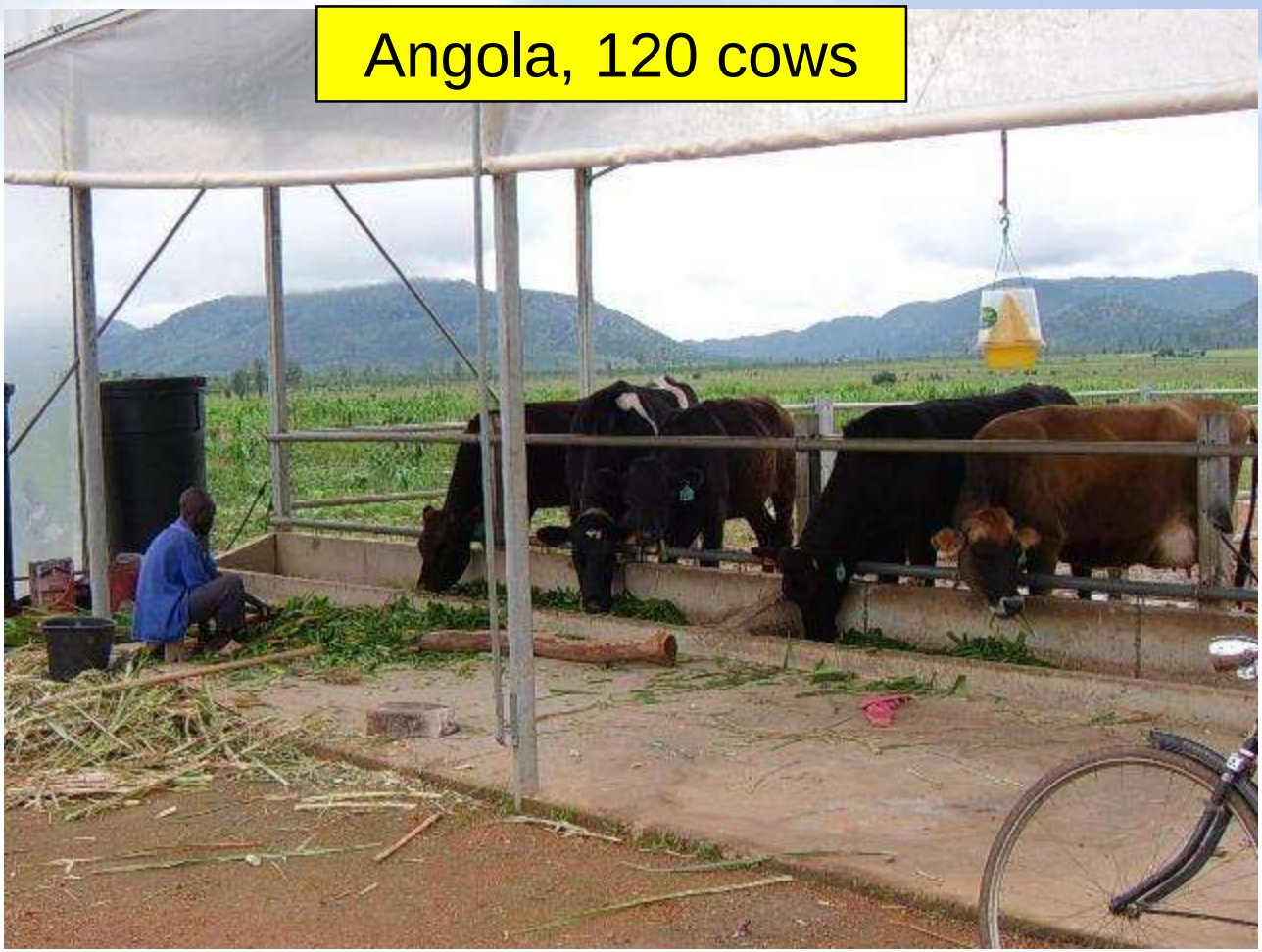

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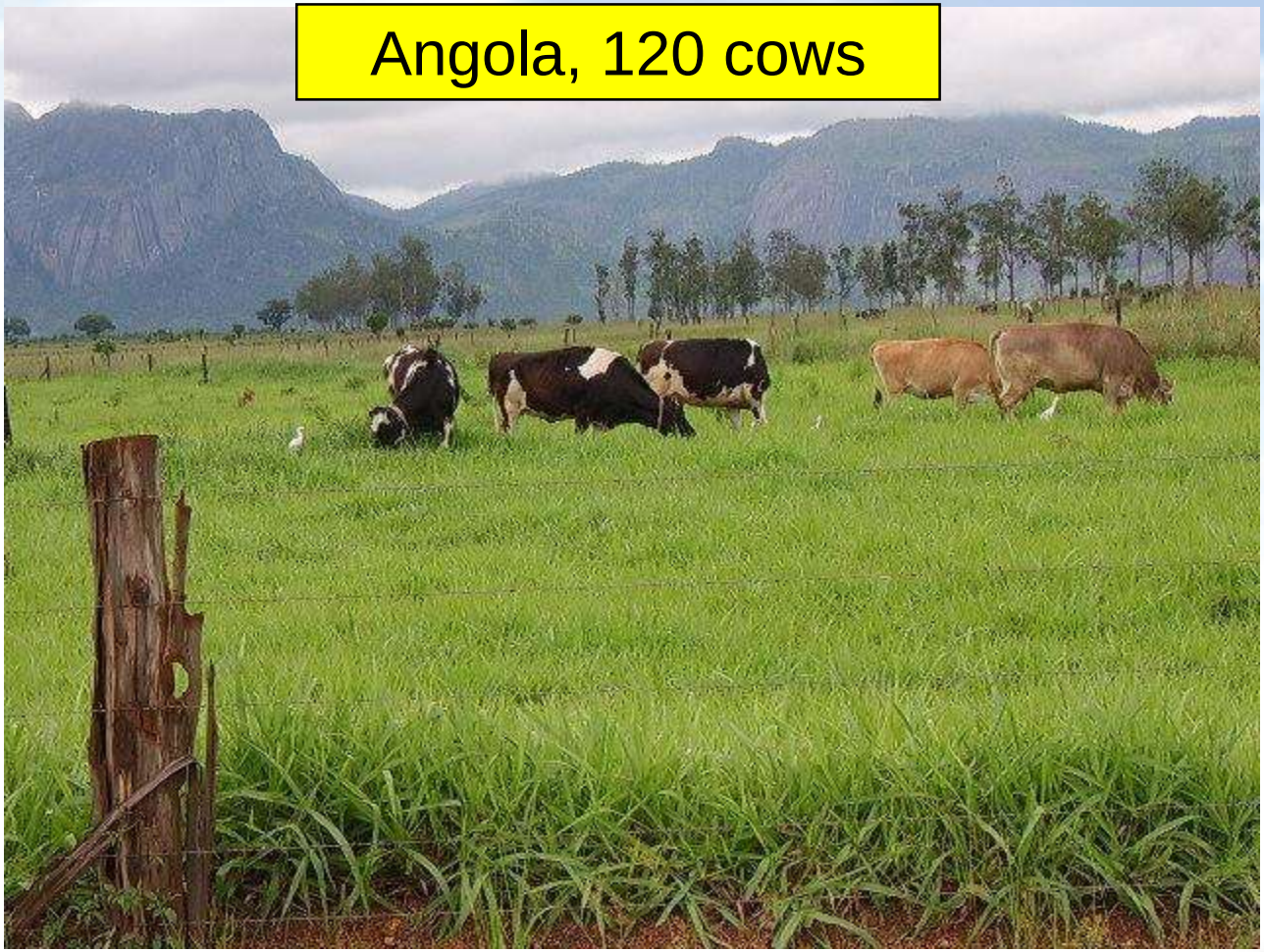
Angola, 120 cows



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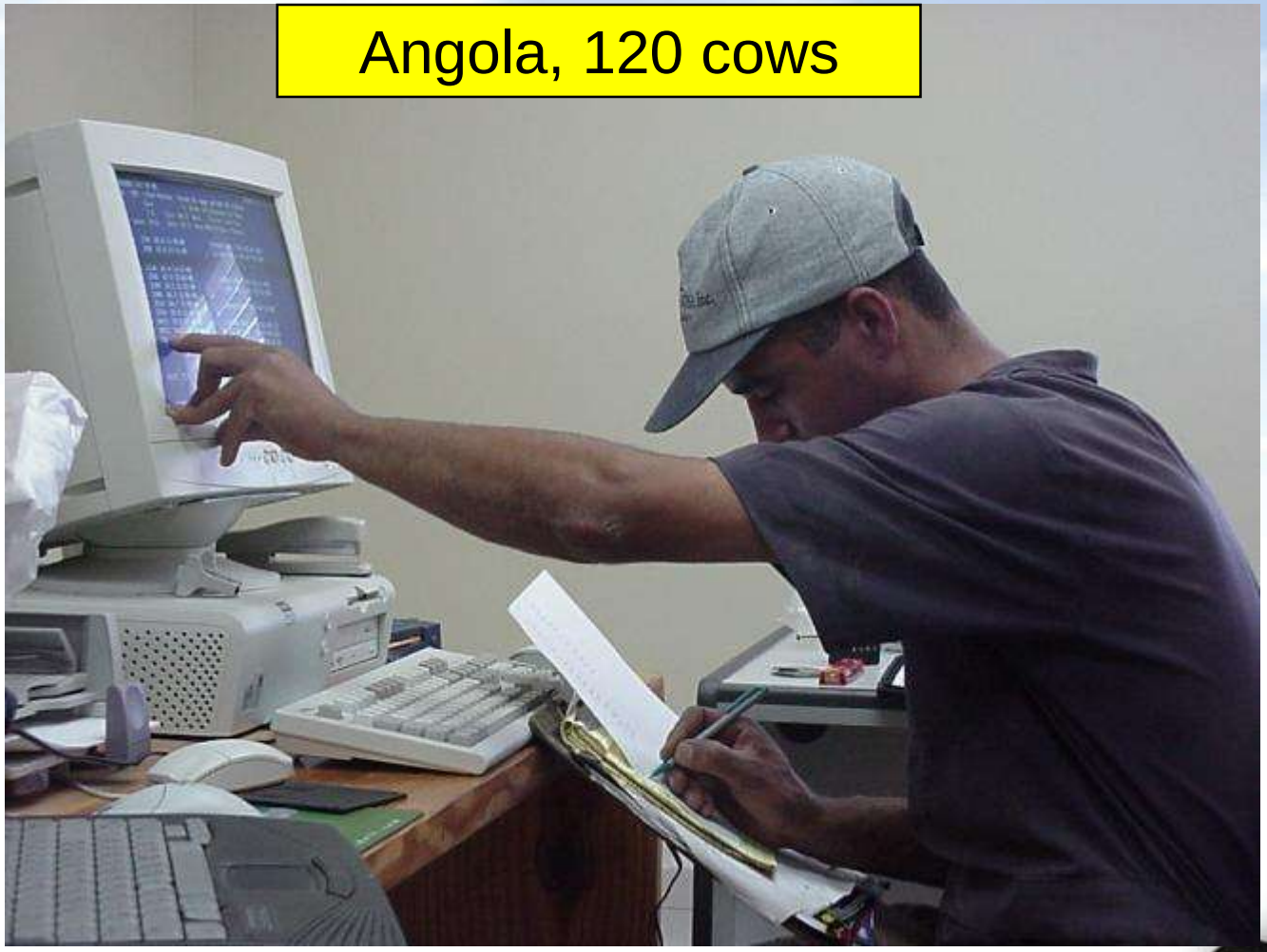
Angola, 120 cows



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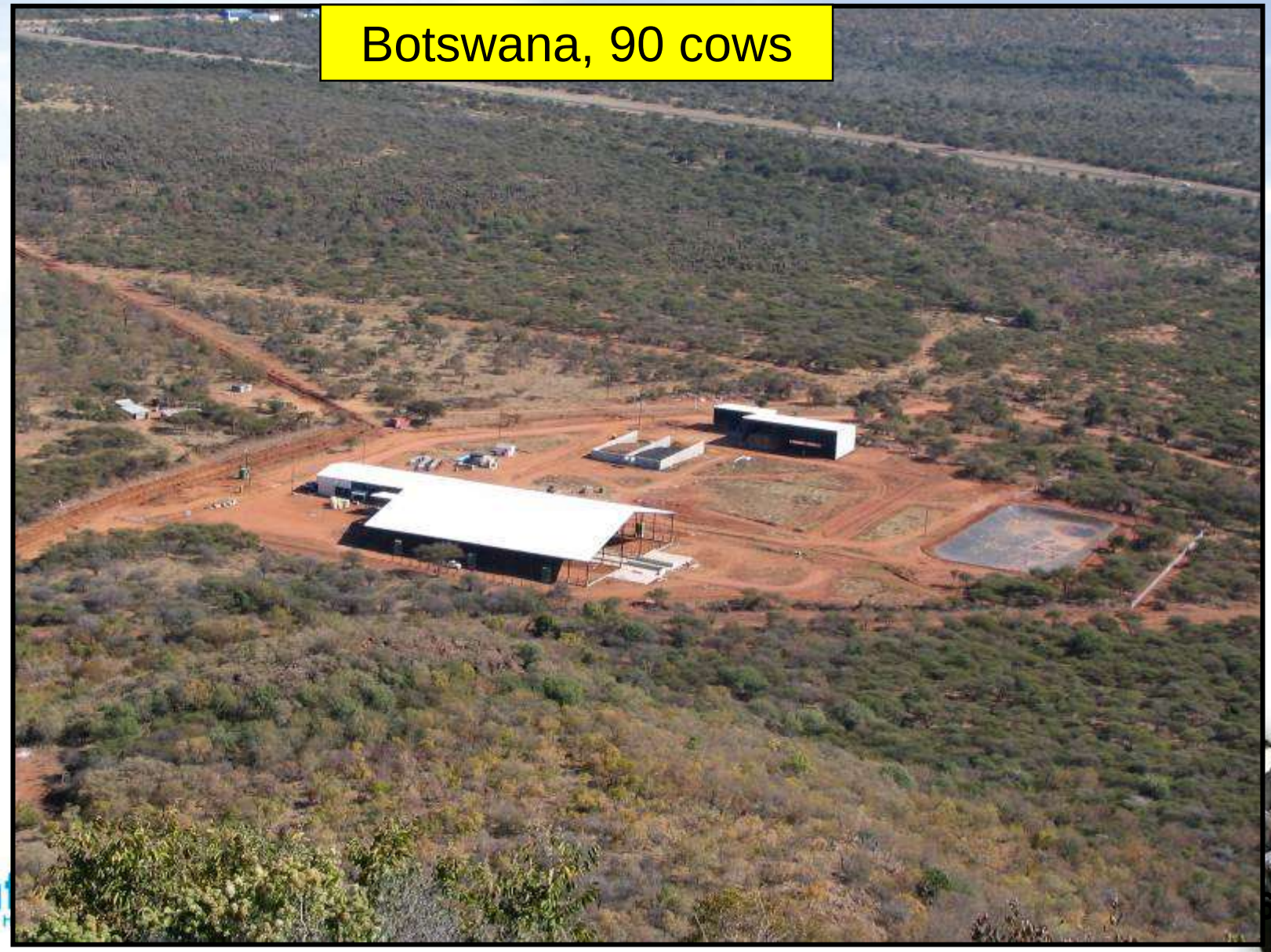
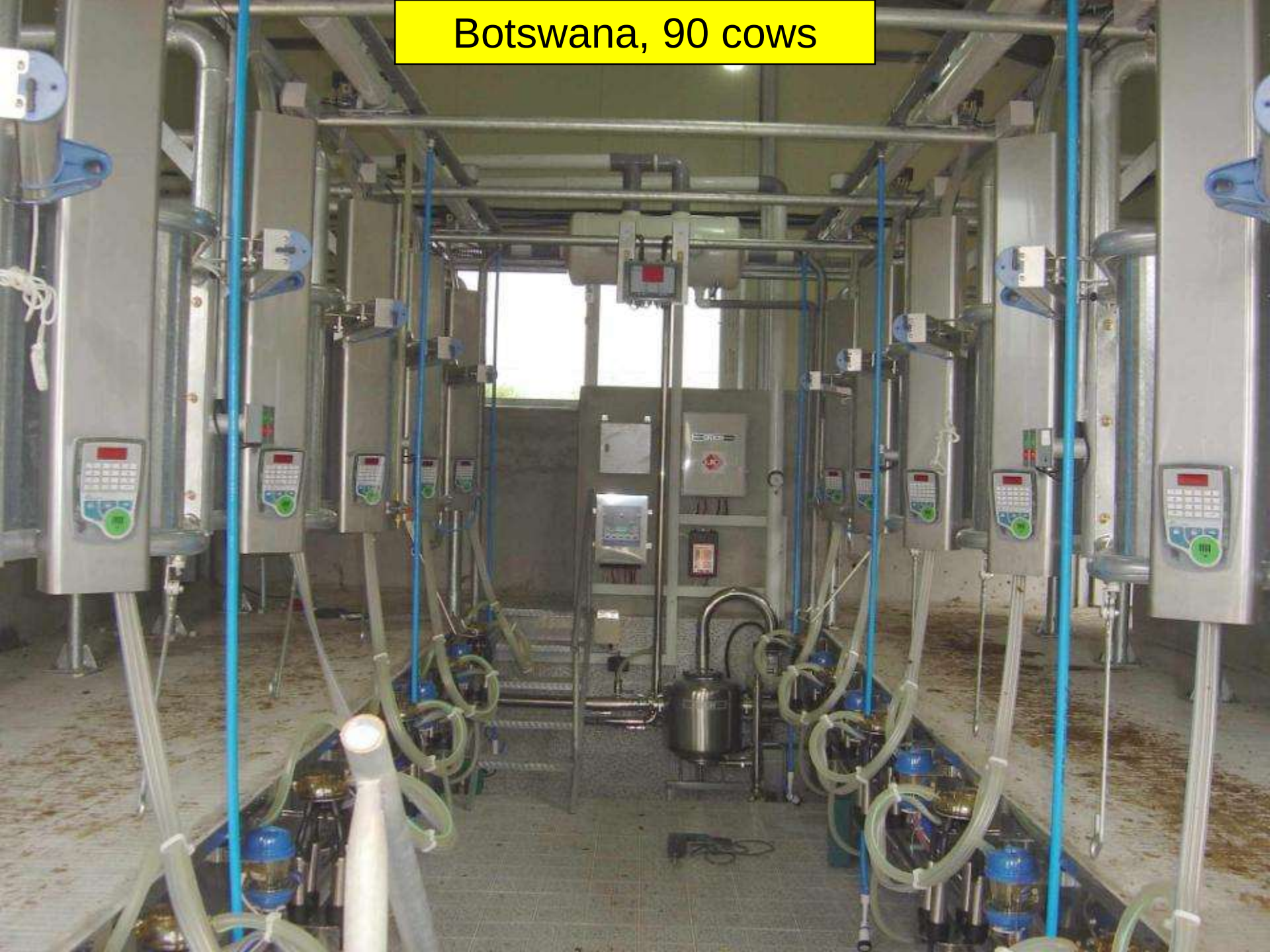
Botswana, 90 cows




Botswana, 90 cows

USA, 5000 cows

Manure treatment

Returning vitality to the fields

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Feeding center

TMR – Total Mixed Ration

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Milk cooling

Pre–Cooling & cooling

Pre-cooling

Horizontal tank

Vertical tank

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From:

Mini dairy processing plant:

• 500 to 5000 liters per day

To:

Mega milk plant:

• up to 300,000 tons of milk per year (820,000 liters per day)

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Dairy Products

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MGT
LIQUID & PROCESS SYSTEMS

MGT Liquid and Process Systems specializes in designing and Manufacturing of custom made, innovative storage, agitation and process solutions for the food & dairy, beer & beverage, bio-pharma, cosmetics and chemical industries. We offer advanced solutions encompassing design, manufacture, transport and installation to clients worldwide.

Mini Dairy

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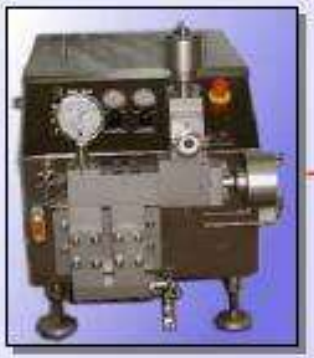
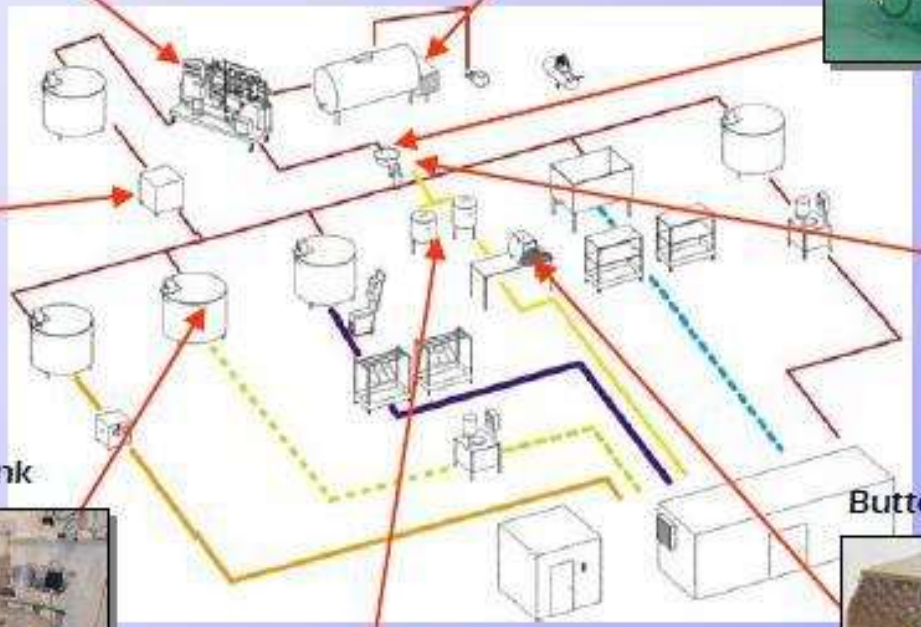
HTST Mini Pasteurizer

Raw Milk Tank

Separator

Homogenizer





Skim Milk Pump

Production Tank

Butter Churn

Processing Tank

Modern Milk Plants

Alon Tavor Milk Plant, Israel

Advanced Dairy Technology and Farm Management Training Courses

- Two or three months, of theoretical in class lectures and workshops and on job training in dairy farms.
- Not less than eight trainees with similar previous dairy experience.
- In cooperation with Galilee College a syllabus is built to allow us to certify the trainees for various managerial tasks.
- Periodic testing of both theoretical knowledge and on-job performance.

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Training and follow up

Professional services follow-up

- Herd health protocols
- Field crops and nutritional consultancy
- Management tools
- Breeding and genetic techniques
- Lowering heat stress
- Local Seminars and training on different levels
- Knowledge transfer

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Technical training

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Training

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Jinshan - China

3000 cows dairy farm with loose barns and a 2x2x24 milking parlor

TH Milk - Vietnam

10 farms, each with 2400 cows, with loose barns and a 2x2x30 milking parlor

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Why choose Afimilk..?

- Experience & know how transfer
- Tailor made solutions
- Strong emphasis on ALL cows' needs
- Best management system in the world
- Long term success and quick investment recovery
- One stop shop

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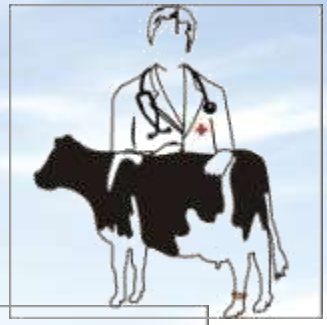
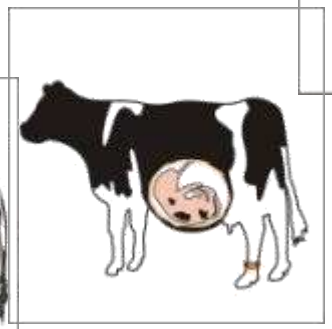
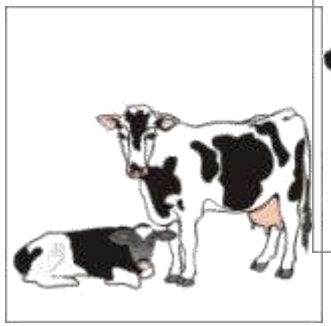
afimilk® Herd Management System

- Milk production, quality and quantity
- Animal health control
- Fertility, heat detection
- Reproduction and genetics
- Tools for selection strategy
- Management







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Herd Management

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Partners for success!

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Thank you for your attention

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