



Food and Agriculture Organization
of the United Nations



"Animal Identification and Recording (AIR)
Systems for Traceability and Livestock
Development in sub-Saharan Africa" 2015



agriculture,
forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Practical Life History Recording of Livestock To Central Database in Africa

Presented:

Rachelle Cloete

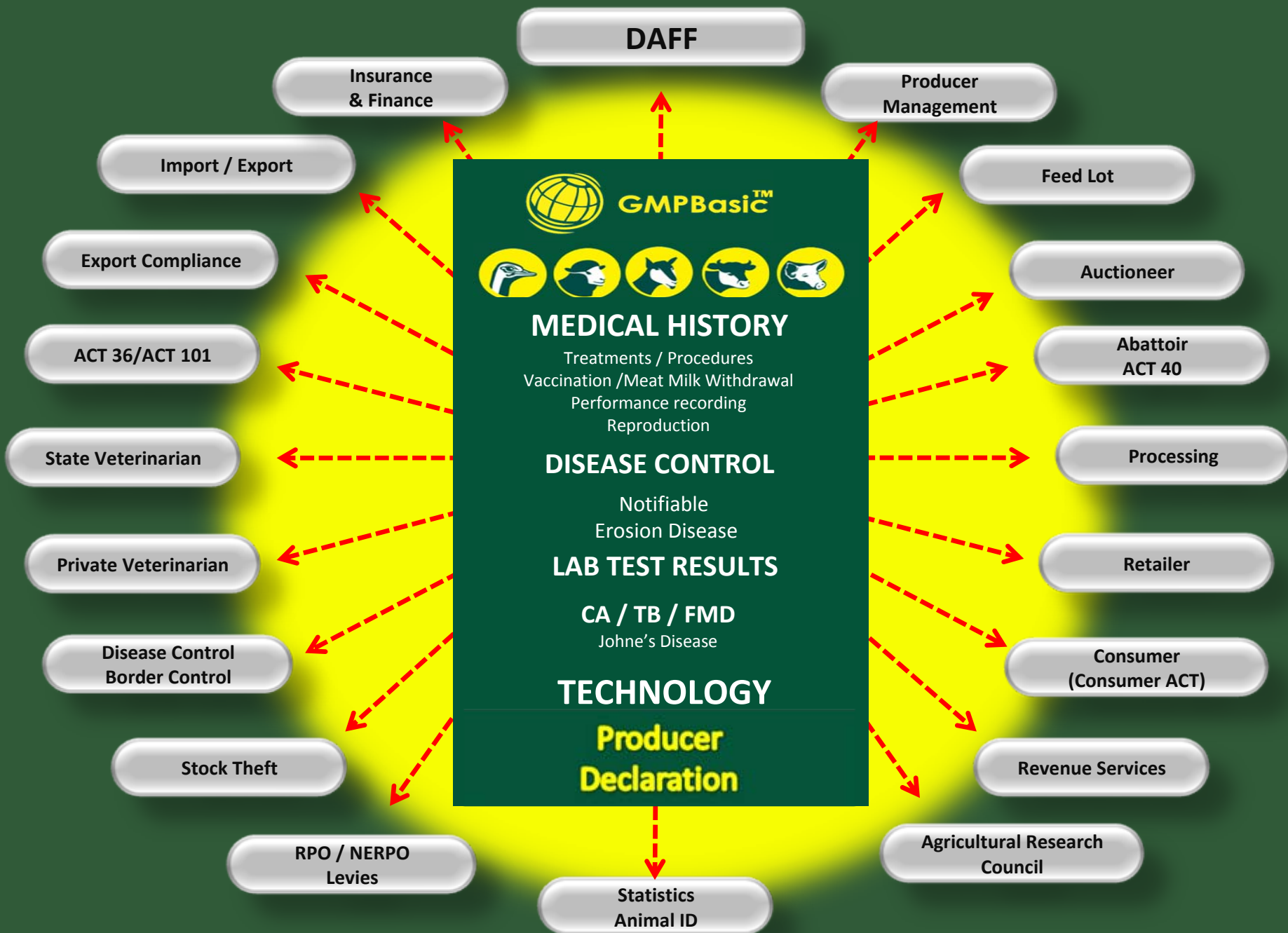
Founding Member

GMP Traceability Identification Traceability Management Software



GMPBasic®
Patented Livestock
Management
Identification
Traceability
Solutions



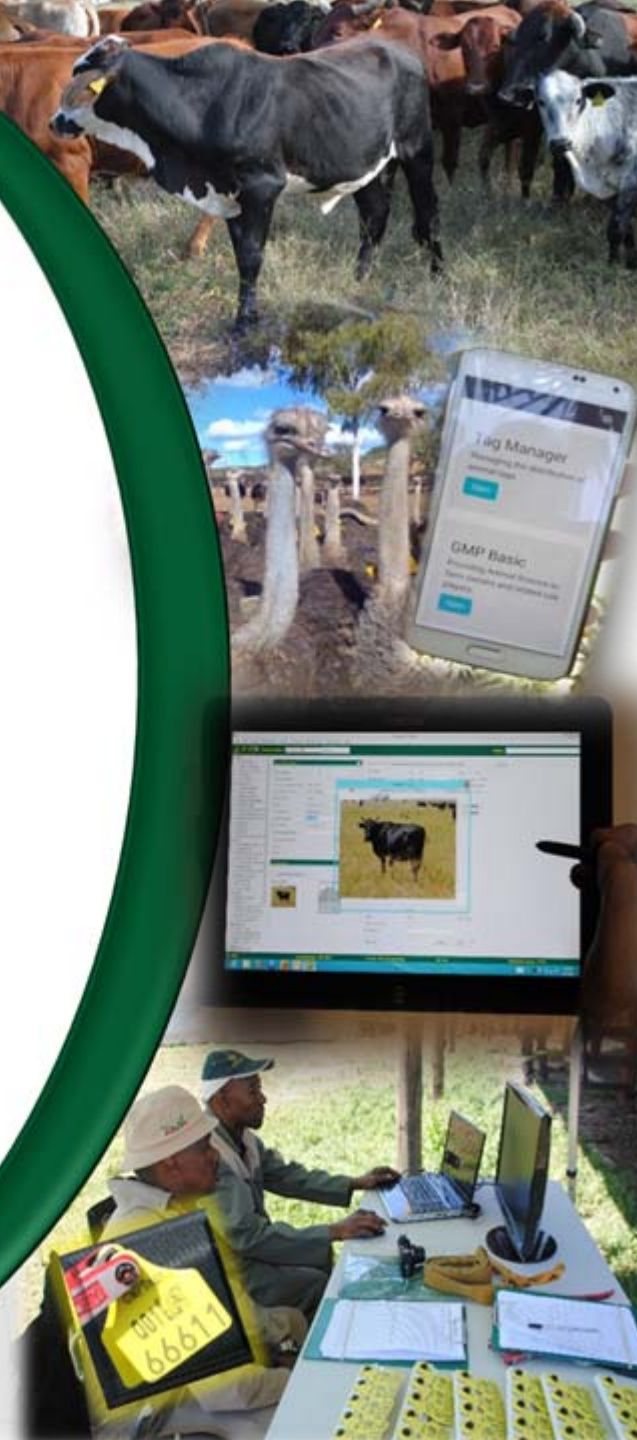


CURRENT IMPLEMENTATIONS



NCDRD – Veterinary Department 2005

- To manage small holder farmer – disease control, primary animal healthcare – disease surveillance, rapid response in case of outbreaks, managing biological assets and assist farmers to access more lucrative markets with quality animals disease free animals



CURRENT IMPLEMENTATIONS



GDARD Veterinary Services 2013

- Disease control
- Manage Veterinary Pharmaceutical Stock
- Vaccination programs – Rabies Campaigns
- Statistics and Planning
- Primary animal health care

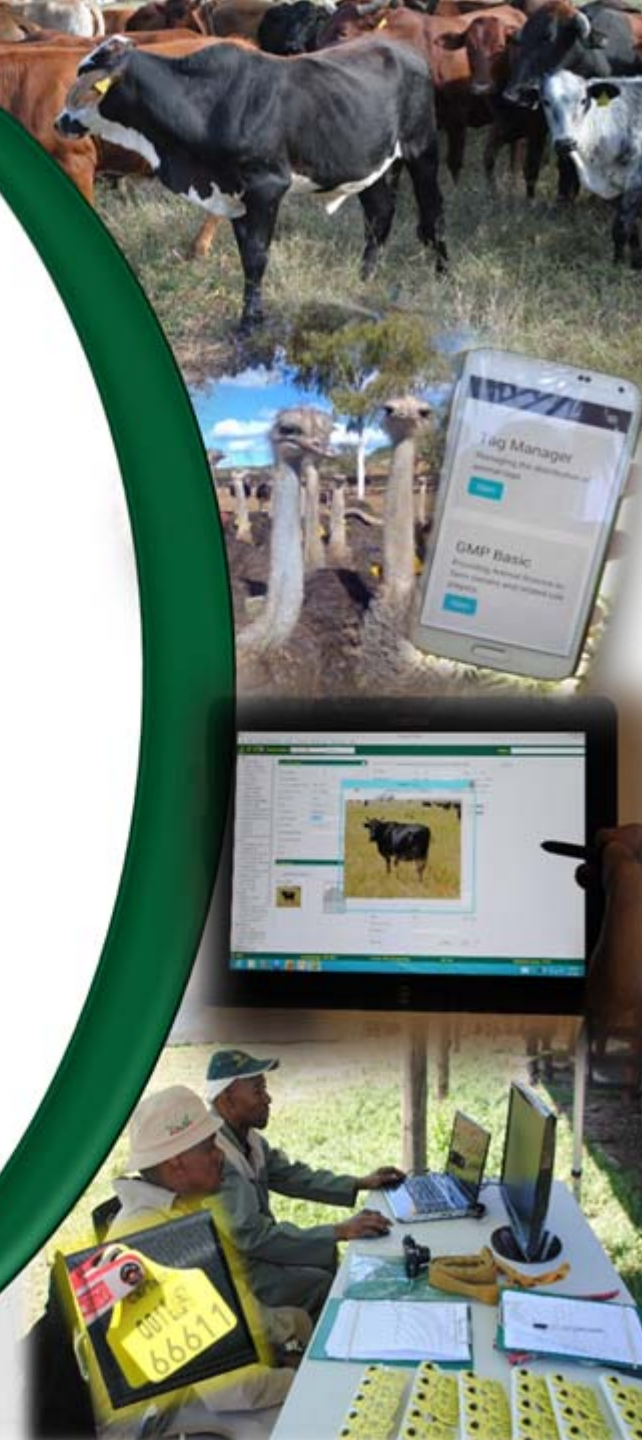


CURRENT IMPLEMENTATIONS



OSTRICH Industry

- Export EU compliance
- Compliance to VPN04 - 2012
- Benefits of a clear directive
- Standards and Compliance
- Practical use and implementation



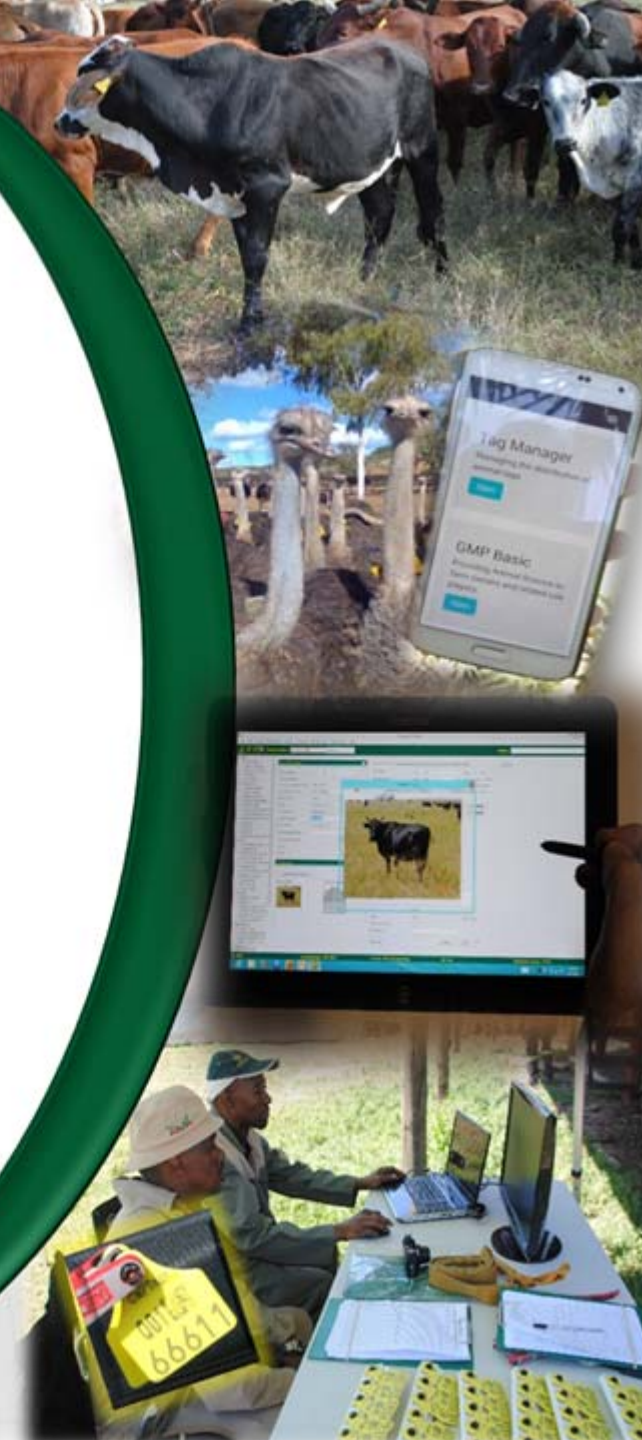
CURRENT IMPLEMENTATIONS



DAFF – FMD Disease control

- Manage the zone with three different colours
- ICAR approved Laser marked visual ear tag
- Uniquely laser marked with a visual animal identification number verifiable against a central database for authentication

PRIVATE SECTOR USERS



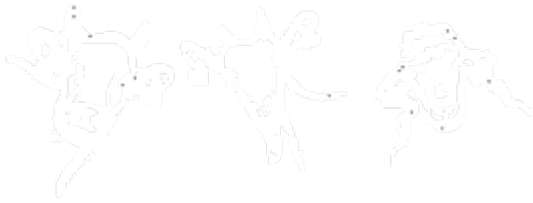
VISUAL & ELECTRONIC STANDARDS



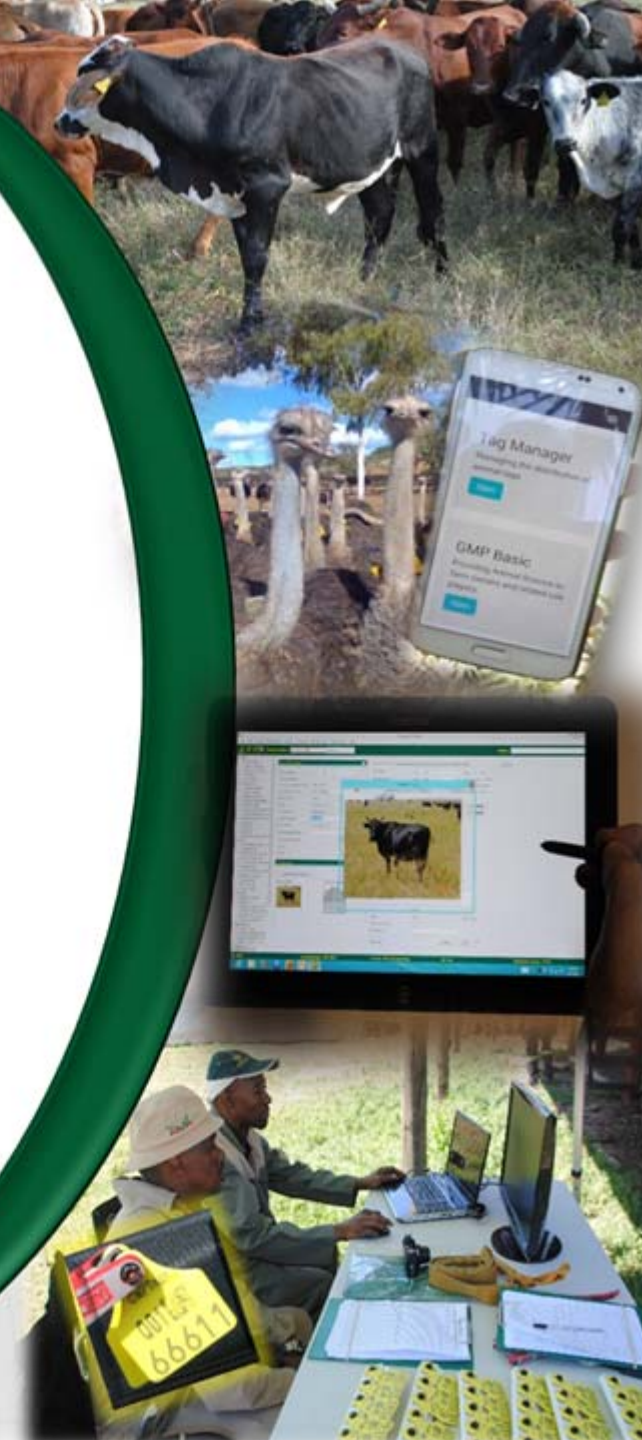
- Tag Manager - managing the visual plastic tags and electronic identification devices
- Unique visual number - Identification
- Standard format of visual number
- Traceability – Drivers - Consumers
- Authentication and Verification
- Benefit to Owner and Animal Identification traceability System



TECHNICAL & SYSTEM



- Managing individual animals
- Managing Owners
- Tag management to next location
- Managing Animal life history
 - Disease and treatment records, Movement, Re-production..



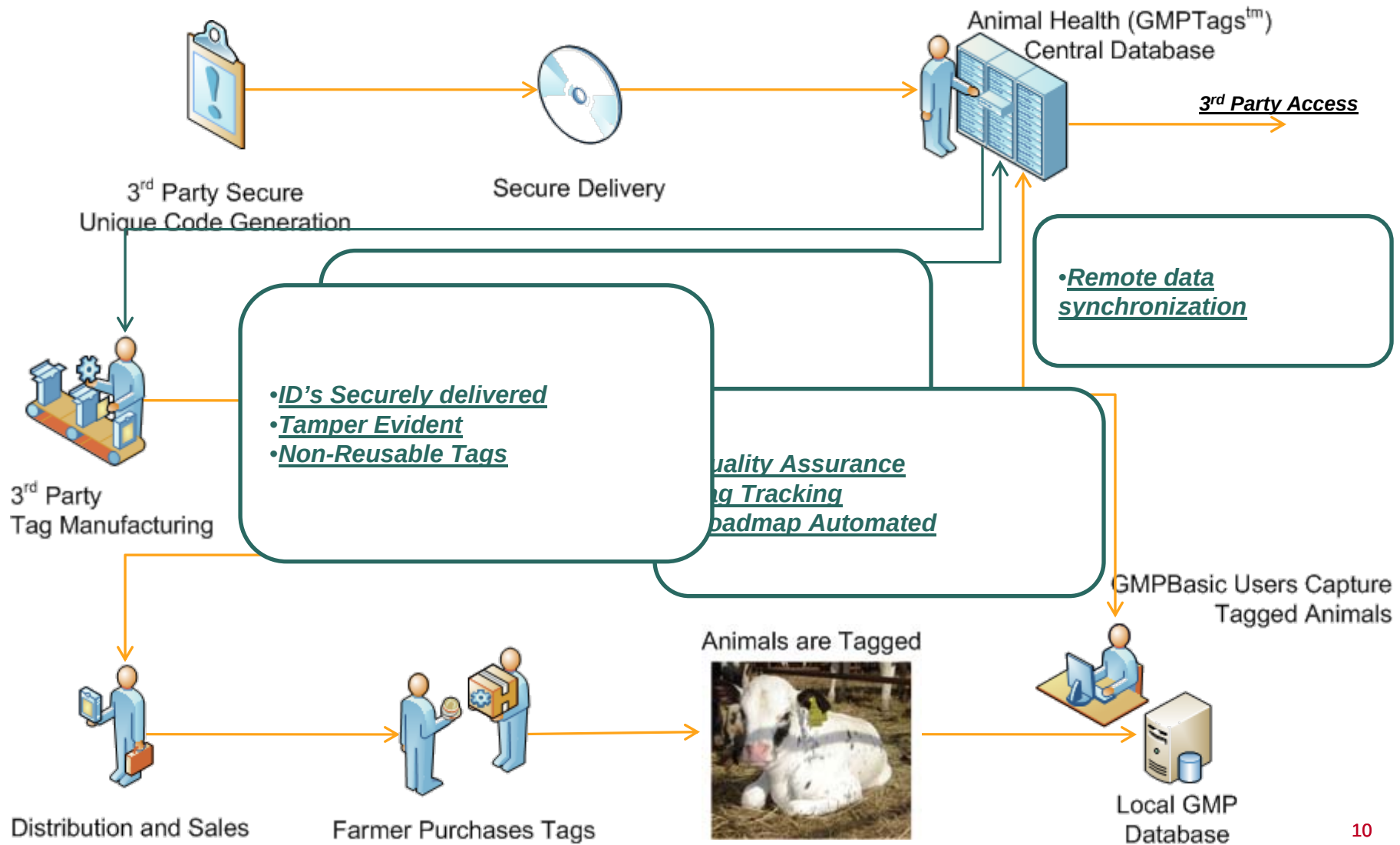
DATA RECORDING RESOURCES



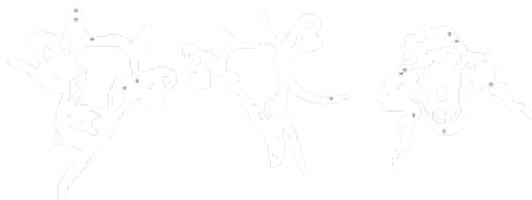
- Challenges and barriers
 - Access to internet
 - Data recording - time consuming
 - Keeping the resources motivated
 - Standard format of data collection
 - Managing data Integrity
 - Disciplined data uploading
 - Geographical challenges
 - Budget constraints



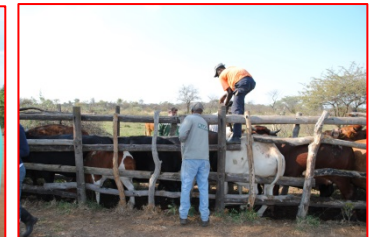
ITEM LEVEL CODE MANAGEMENT AND TAG LOGISTICS



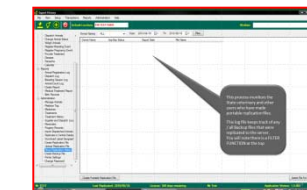
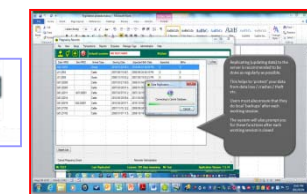
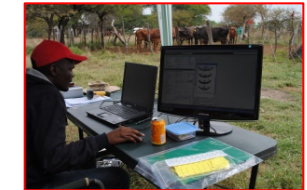
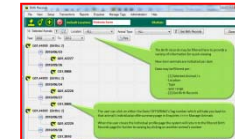
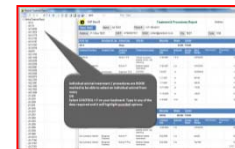
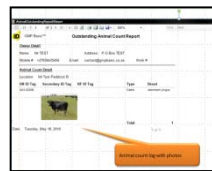
VERIFICATION AND QUALITY CONTROL



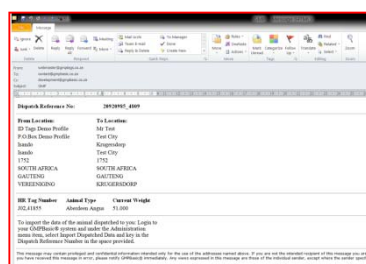
DATA COLLECTION AND UPLOAD



THE SUPPLY CHAIN



ONLINE CENTRAL DATABASE VERIFICATION



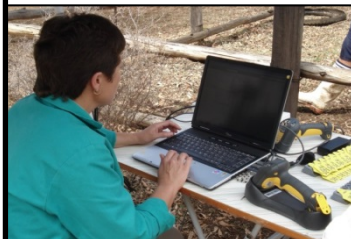
BENEFITS OF STANDARDS



- Animal maintains primary unique identification throughout its whole life
- Secondary tag allows owner to continue own on-farm management
- Movement across borders maintain original identification and tag numbers
- Secondary tag allows for special disease management, movement control



SUPPLY CHAIN BIRTH TO SLAUGHTER



Log in with user name and password



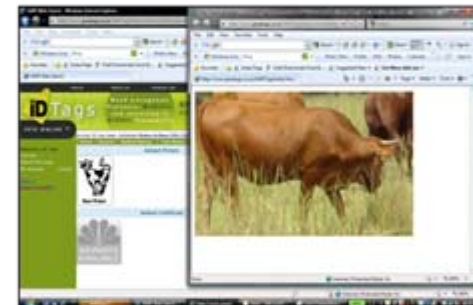
Verification of next location



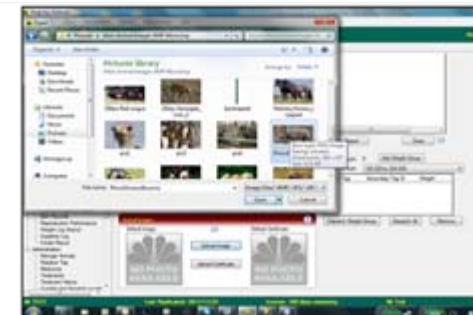
Verify brand mark on-line



Type or scan in unique ear tag number



Animal data available on-line



Certification or photo available on-line



PRODUCER LEVEL MANAGEMENT

Medical Treatment Report

Owner Detail
Name: Mr TEST Address: P.O.Box TEST Cell #: +27836435456 Email: contact@gmpbasic.co.za Phone #:

HR ID Tag	Secondary ID Tag	Animal Type	Weight
A01.0004		Sheep	65.000
A01.0005		Sheep	6.000
A01.12010		Sheep	54.000
A01.12011		Sheep	54.000
A01.12012		Sheep	54.000
A01.12013		Sheep	54.000
A01.12014		Sheep	54.000
A01.12015		Sheep	54.000
A01.12016		Sheep	54.000
A01.12017		Sheep	54.000
A01.12018		Sheep	54.000
A01.12019		Sheep	54.000
A01.12020		Sheep	54.000
A01.12021		Sheep	54.000
A01.12022		Sheep	54.000
A01.12023		Sheep	54.000
A01.12024		Sheep	54.000
A01.12025		Sheep	54.000
A01.12026		Sheep	54.000
A01.12027		Sheep	54.000
A01.12028		Sheep	54.000
A01.12029		Sheep	54.000
A01.12030		Sheep	54.000
A01.12031		Sheep	54.000
A01.12032		Sheep	54.000
A01.12033		Sheep	54.000
A01.12034		Sheep	54.000
A01.12035		Sheep	54.000
A01.12036		Sheep	54.000
A01.12037		Sheep	54.000
A01.12038		Sheep	54.000
A01.12039		Sheep	54.000
A01.12040		Sheep	54.000
A01.12041		Sheep	54.000
A01.12042		Sheep	54.000
A01.12043		Sheep	54.000
A01.12044		Sheep	54.000
A01.12045		Sheep	54.000
A01.12046		Sheep	54.000
A01.12047		Sheep	54.000
A01.12048		Sheep	54.000
A01.12049		Sheep	54.000
A01.12050		Sheep	54.000
A01.12051		Sheep	54.000
A01.12052		Sheep	54.000
A01.12053		Sheep	54.000
A01.12054		Sheep	54.000
A01.12055		Sheep	54.000
A01.12056		Sheep	54.000
A01.12057		Sheep	54.000
A01.12058		Sheep	54.000
A01.12059		Sheep	54.000
A01.12060		Sheep	54.000
A01.12061		Sheep	54.000
A01.12062		Sheep	54.000
A01.12063		Sheep	54.000
A01.12064		Sheep	54.000
A01.12065		Sheep	54.000
A01.12066		Sheep	54.000
A01.12067		Sheep	54.000
A01.12068		Sheep	54.000
A01.12069		Sheep	54.000
A01.12070		Sheep	54.000
A01.12071		Sheep	54.000
A01.12072		Sheep	54.000
A01.12073		Sheep	54.000
A01.12074		Sheep	54.000
A01.12075		Sheep	54.000
A01.12076		Sheep	54.000
A01.12077		Sheep	54.000
A01.12078		Sheep	54.000
A01.12079		Sheep	54.000
A01.12080		Sheep	54.000
A01.12081		Sheep	54.000
A01.12082		Sheep	54.000
A01.12083		Sheep	54.000
A01.12084		Sheep	54.000
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A01.12086		Sheep	54.000
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A01.12088		Sheep	54.000
A01.12089		Sheep	54.000
A01.12090		Sheep	54.000
A01.12091		Sheep	54.000
A01.12092		Sheep	54.000
A01.12093		Sheep	54.000
A01.12094		Sheep	54.000
A01.12095		Sheep	54.000
A01.12096		Sheep	54.000
A01.12097		Sheep	54.000
A01.12098		Sheep	54.000
A01.12099		Sheep	54.000
A01.12100		Sheep	54.000

Animal Movement

Dispatch Date	To Location	External Dispatch	Reference No
2014/10/30	Interval	☒	503020a_4750
2014/10/17	JD CLOETE 2	☒	503020a_5910
2013/05/13	Interval	☒	503020a_7700
2009/05/16	MR TEST - Mr Test Paddock B	☒	503020a_2050
2008/05/16	MR TEST - Mr Test Paddock B	☒	503020a_5900
2008/06/02	JD CLOETE - Mr Test	☒	503020a_3300
2008/04/18	Office GMPBasic	☒	503020a_3400
2007/06/27	JD CLOETE	☒	503020a_7277
2007/05/29	MR TEST - Mr Test Paddock A	☒	503020a_5410
2007/05/26	MR TEST - Mr Test Paddock C	☒	503020a_3700

Animal Image



Record Information

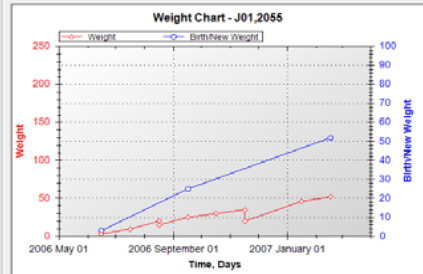
Weight Animals

File View Setup Transactions Reports Administration Help

Default Location: **MR TEST FARM** Status: **Weight Chart**

Right click on the Chart for Extra Functions

Weight Chart - J01.2055



Weighing Date	Weight	ADG
2007/02/16 03:03 PM	52.000	0.199
2007/02/16 03:03 PM	52.000	0.199
2007/01/16 01:51 PM	46.000	0.200
2006/11/16 01:51 PM	20.000	0.110
2006/10/16 01:51 PM	35.000	0.208
2006/10/16 01:51 PM	30.000	0.220
2006/09/16 01:51 PM	25.000	0.237
2006/09/16 01:51 PM	25.000	0.237
2006/09/16 01:51 PM	15.000	0.194
2006/08/16 01:51 PM	20.000	0.274
2006/07/16 01:51 PM	9.600	0.213
2006/06/15 01:01 PM	3.000	0.000

Weight Report

AnimalOutstandingReportViewer

File View Setup Transactions Reports Administration Help

Default Location: **MR TEST FARM** Status: **Outstanding Animal Count Report**

Owner Detail
Name: Mr TEST Address: P.O.Box TEST
Mobile #: +27836435456 Email: contact@gmpbasic.co.za Work #:

Animal Count Detail
Location: Mr Test Paddock B

HR ID Tag	Secondary ID Tag	RF ID Tag	Type	Breed
Q01.02008			Cattle	Aberdeen Angus

Total 1

Date: Tuesday, May 18, 2010 1 of 1

The screenshot displays the 'GMP Web Report View' interface. At the top, there are navigation links: 'GMP Basic', 'Tag Manager', and 'Administrator'. On the far right, there is a 'Hello, Rick Taylor' greeting and a 'Logout' button. The main content area is divided into several sections, each with a blue header and a white body:

- Clients:** Contains a text input field labeled 'View your 0000 clients' and a blue 'View »' button.
- Est Tags:** Contains a text input field labeled 'HR Tag Number' with the value 'Q01 Q2006' and a blue 'Search' button.
- Dispatches:** Contains a text input field labeled 'Reference No' and a blue 'Search' button.
- Movement Permits:** Contains a text input field labeled 'Movement Permit No' and a blue 'Search' button.
- Movement Statements:** Contains two dropdown menus: 'Month' (set to 'March') and 'Year' (set to '2015'), followed by a blue 'Search' button.
- Vacations:** Contains a text input field labeled 'Certificate No' and a blue 'Search' button.
- Blood Tests:** Contains a text input field labeled 'Result Reference' and a blue 'Search' button.

GMP Web Report View

O&P Item

Tag Manager

Administrator

Help

Feedback

Logout

Q01,02006

Classification

Commercial

Animal Type

Cattle

Status

Open

Colour

Black

Gender

Male

Weight

572.05kg

ADG

0.459g

Note

Test Tag

Date of Birth

2006/09/27 07:54:11 PM

Months Old

107

Years Old

9.5

Supply Date

2014/10/17 08:43:15 AM

Standing Days

3397

HR Tag Number

Q01,02006

Unique Code

Tagger

Secondary Tag

JJC 10 02008

Other Tag

Monorhip

RFD (EID)

Branding Number

Ear Tag(s)

DNA Number

LOCAT Library No

LOCAT Administrator

Breeder Reg Number

Animal Reg Number

Policy Register

Policy Number

N/A

Mutual & Federal

SAPS Case Number

Owner Details

Owner Name

JD CLOETE Z

Location

View Owner Details >

Treatments

Date	Treatment Type	Method	Medicine
2008-07-27	Deworming (Oral)	Oral Route	Gleatad 10 %
2008-07-27	Biologate (Vaccines)	Sub Cutaneous Injection	Bov-Tect P
2009-11-28	Biologate (Vaccines)	Sub Cutaneous Injection	Bovista Guard
2007-05-28	Biologate (Vaccines)	Sub Cutaneous Injection	Bovista Henguard
2007-07-18	Biologate (Vaccines)	Sub Cutaneous Injection	Neospora
2007-09-18	Vitamins	Sub Cutaneous Injection	Vit B Co
2007-08-18	Shipping (Person)	Four-On	Delta AB

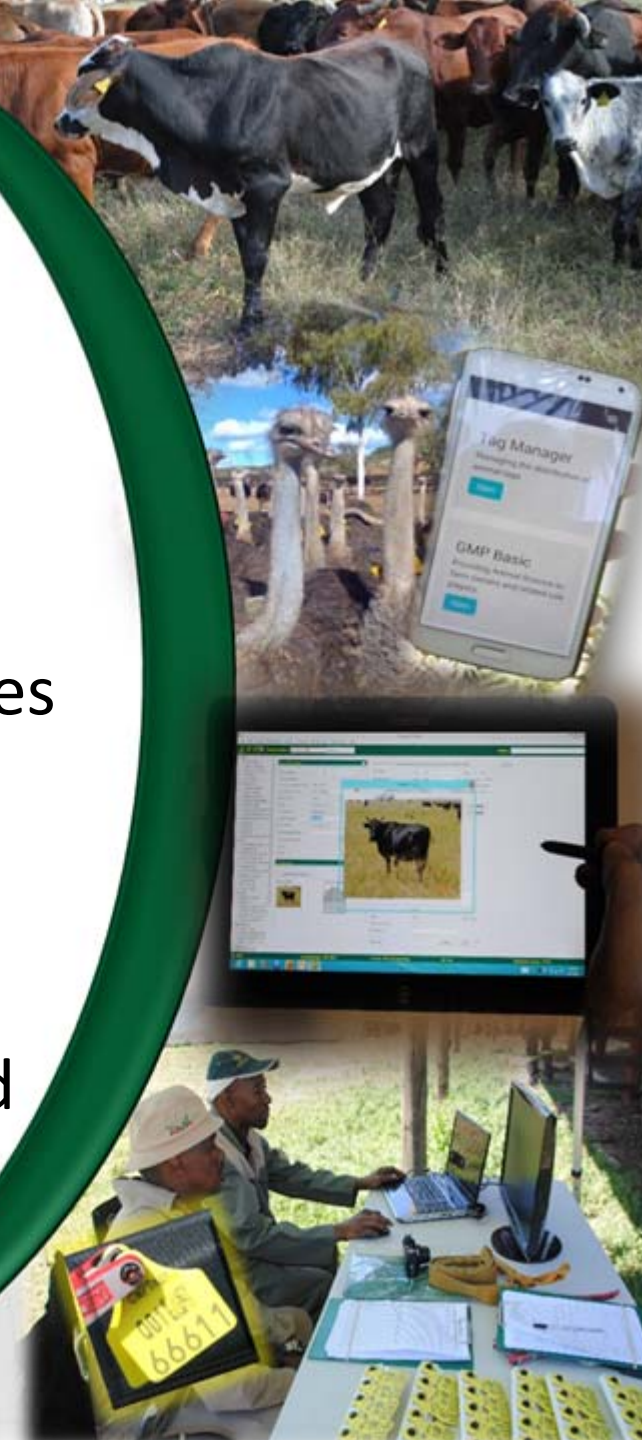
Movement

[illegible]

PUBLIC - PRIVATE PARTNERSHIP



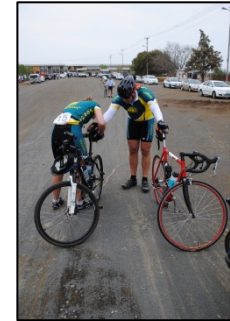
- Getting the message out there
- Industry goodwill and buy-in
- Working together and sharing resources to collect critical data while doing day to day on farm management
- Maximise existing structures
- Sharing of information with authorised role-players and government



Traceability is a journey



With its own challenges



PUBLIC - PRIVATE PARTNERSHIP



Thank you



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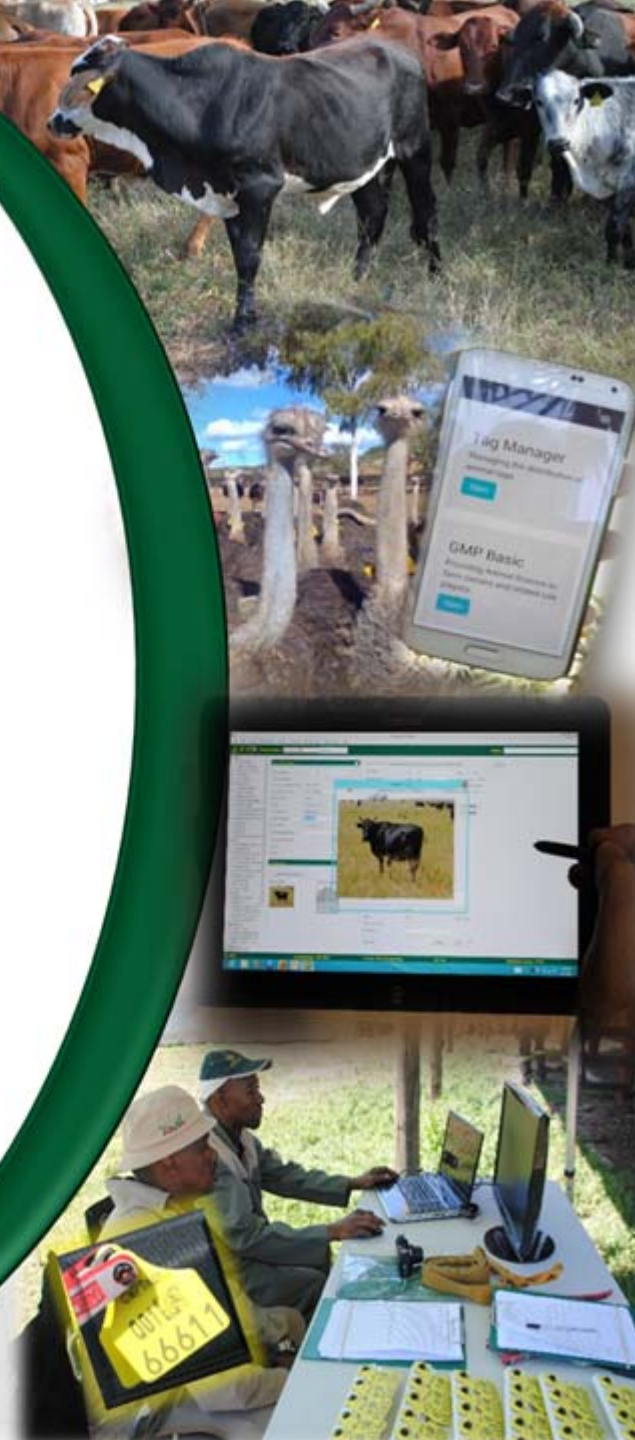


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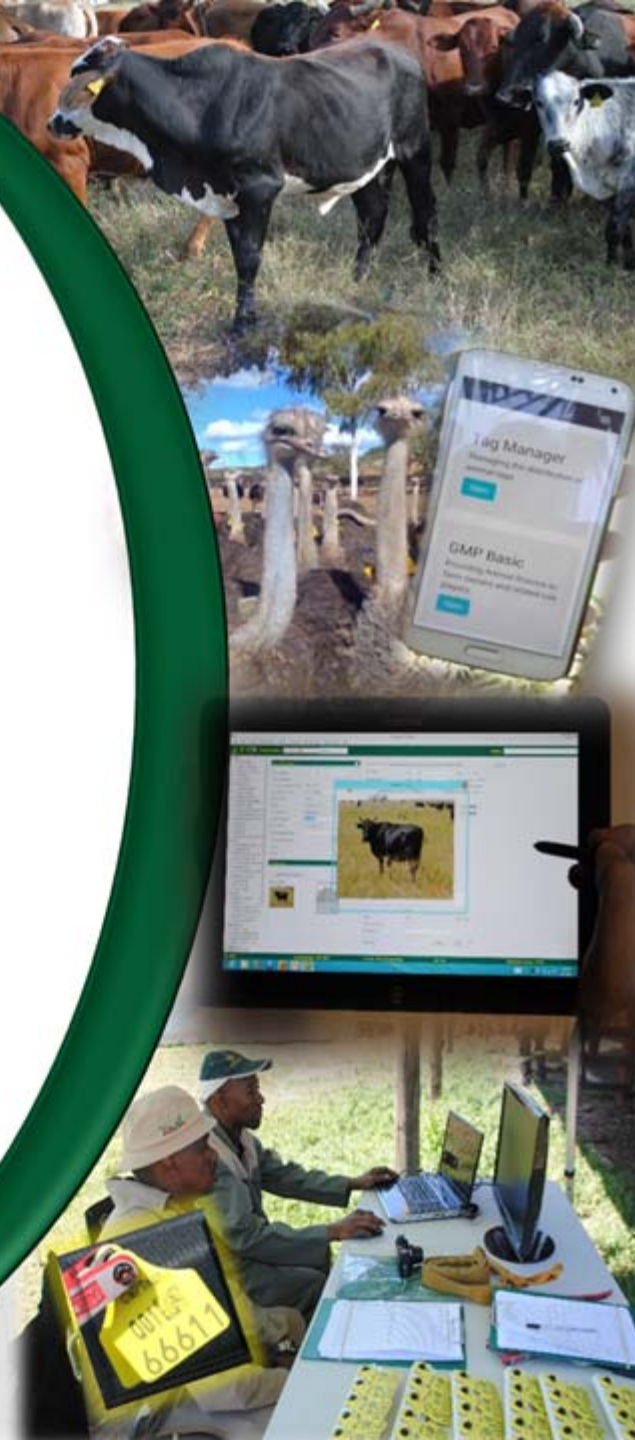
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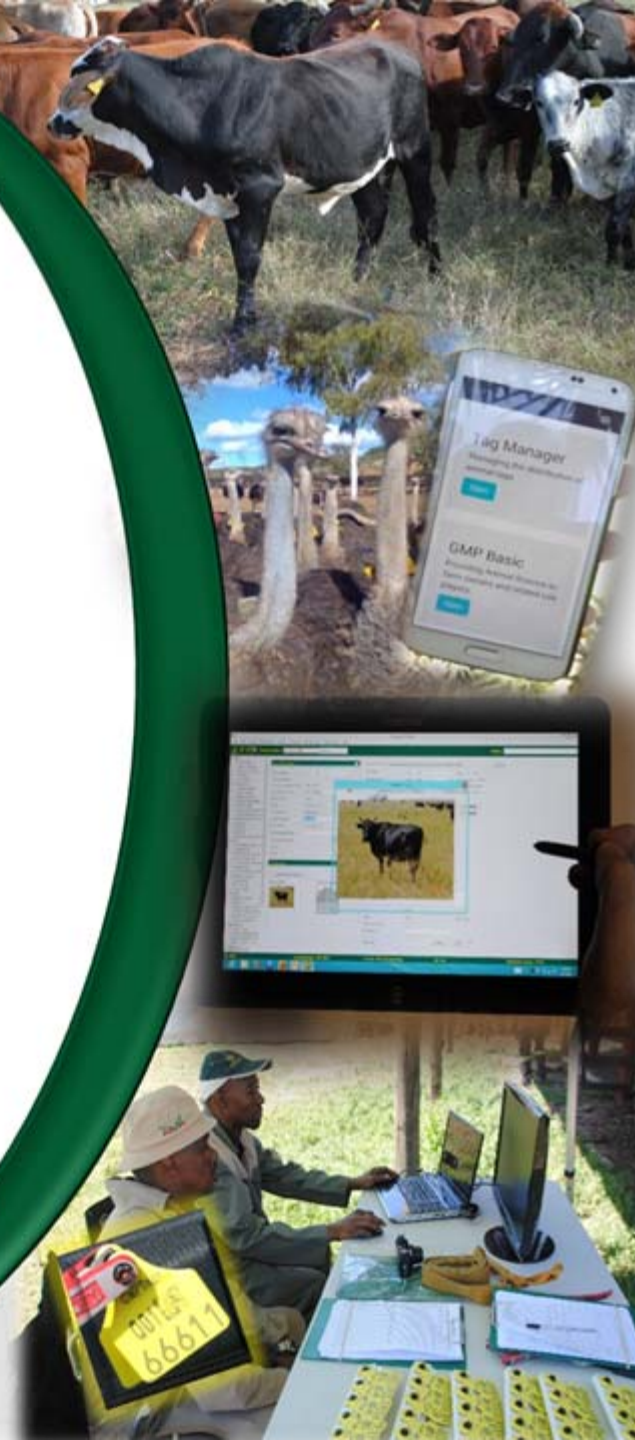
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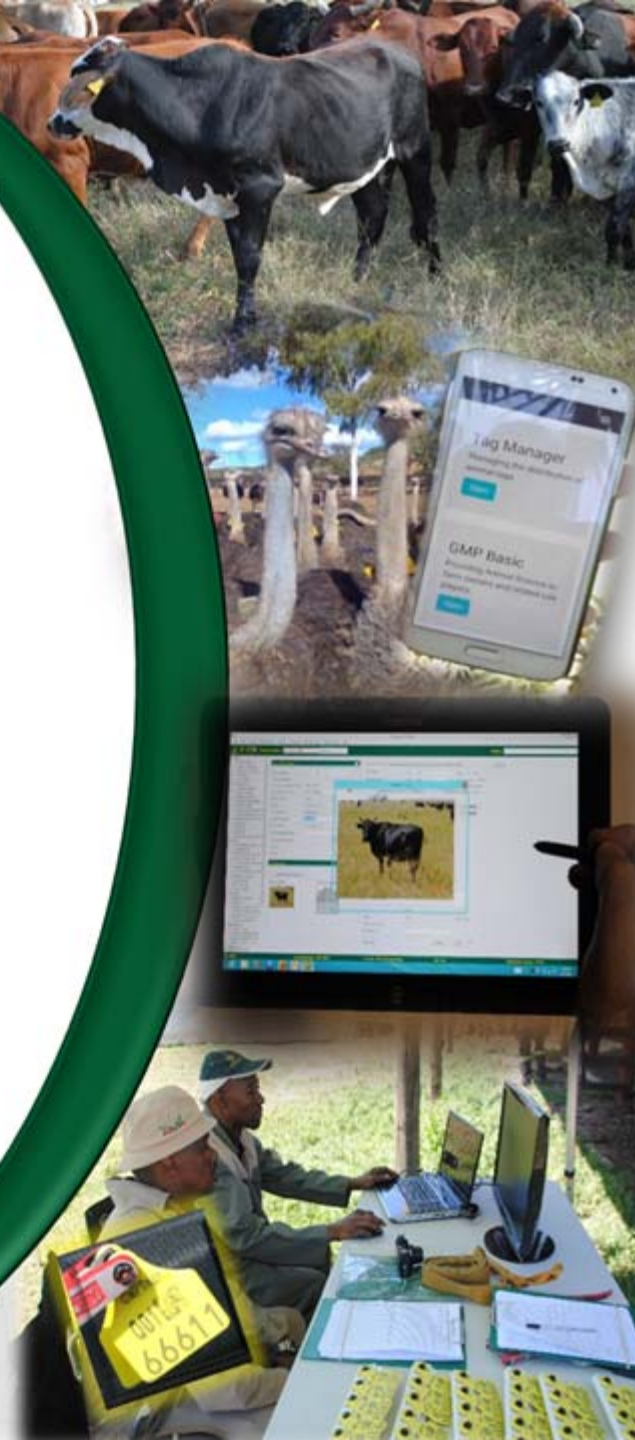
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