DATA AND INFORMATION MANAGEMENT FOR TSETSE AND TRYPANOSOMIASIS CONTROL IN ARIS2

DR I. GASHASH AHMED
AU-IBAR

www.au-ibar.org
CONTENTS

• Background
  – Importance of Data
  – AU-IBAR Mandate
  – Problem statement and questions

• Major features of ARIS2

• Proposed T&T Module in ARIS2

• Trypanosomiasis Data at AU-IBAR

• Conclusion
Background

Importance of Data

• The timely collection, collation, storage, analysis and sharing of sanitary information are essential components for the effective prevention and control of animal diseases

AU-IBAR Global mandate – promoting animal resources development in Africa

• support and coordinate the utilization of livestock, fisheries and wildlife as resources for human well being and economic development

• Support collecting, collating & disseminating information on animal resources in Africa
Problem statement and Questions

• Lack of Information as a constraint to Livestock development, livelihood and food security

• Most Member States (MS) of AU have no reliable IS capable of contributing to the planning process;
  -- The few that have – Poor quality data
  -- No systematic data collection, analysis & information dissemination
  -- Major focus on disease reports to international organisations

• Data from different sources and sectors was fragmented

• Disconnect between Data and Policy

• What type of Data do we really need?

* Not collected does not mean that it is not there or it is not important
• AU-IBAR Strategic programme 5:- Improving knowledge management in animal resources to facilitate informed and timely decision making

• Objective:- “To collate, analyse and make available in a timely manner, reliable and up to date data, information and knowledge on animal resources to support planning and decision making”

• Goal:- to help position AU-MS, RECs &AU-IBAR as primary & reliable sources of comprehensive African animal resources information

• ARIS - Regular program within Knowledge Management strategy of IBAR
ARIS-2

• A platform and a system

• Broad based Information system covering all areas of animal resources – Animal Health, Animal production, Fisheries, Wildlife, Marketing & Trade, Infrastructure, Human resources, budget etc

• Platform for use by all relevant sectors of the economy

• Flexible, customisable, user friendly; Interoperable etc
Major Features and Technical specifications

- **ARIS 2 is built as a SYSTEM**: Input, processing and Output
- **Integrated** – covers all areas of Animal Resources
- **Multilevel application; Multi-User; Multi-lingual**
- **Good and scalable security**
- **Web-based reporting (but with off-line mode)**;
- **Provides real-time information gathering and sharing capability**;
- **Customisable to country specification and needs**;
- **Data ownership (with validation and sharing at will)**;
- **Allows step wise roll out based on capacity etc**
Multilevel application can be used at the sub-national, national, regional and continental levels.
### Good report generation and visualization

<table>
<thead>
<tr>
<th>Location co-ordinates</th>
<th>Lesions</th>
<th>Number of</th>
<th>Partial weight</th>
<th>Total weight</th>
<th>Number brought to abattoir</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>Longitude</td>
<td>Density of Animals per species</td>
<td>Distribution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Abcess</td>
<td>Distomatosis (Liver fluke)</td>
<td>25</td>
<td>5</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Lung congestion</td>
<td>Peste des petits ruminants</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Cirrhosis</td>
<td>Distomatosis (Liver fluke)</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Bloody diarhoea</td>
<td>Peste des petits ruminants</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Putrifaction</td>
<td>Brucellosis (Brucella melitensis)</td>
<td>23</td>
<td>15</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Abcess</td>
<td>Bovine tuberculosis</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Tuberculose</td>
<td>Bovine tuberculosis</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Abcess</td>
<td>Camelpox</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>4.13456</td>
<td>11.45212</td>
<td>Decomposition</td>
<td>Newcastle disease Not typed</td>
<td>250</td>
<td>0</td>
</tr>
</tbody>
</table>
Proposed T&T Module in ARIS2

Derived from the draft country report format for T&T Research and control activities approved by the ISCTRC in 2012.

• Main module - general country information and profile

• Sub-modules:
  – HAT - capacity, control and research activities
  – AAT – capacity, control and research activities
  – Vector control activities

www.au-ibar.org
ARIS Roll out and Training

- **Officially launched**

- **Training**
  - National level – 24 countries in 2012 (and 3 RECS)
  - Sub-National coverage – 22 countries done;
  - # users trained – 725
  - Participants from Animal Health, Laboratories, Animal Production and Fisheries
  - All 22 countries have tested reporting to AU-IBAR using ARIS
  - # MSs that have formally sent reports to AU-IBAR using ARIS – 8

- **AU-DREA – AU-IAPSC & PACA**
Trypanosomiasis data at AU-IBAR

2010 to 2013

• Quality of data and detail not impressive
  – Countries – 28
  – Outbreaks – 4326
  – At risk – 11,612,034
  – Cases – 495,178
  – Loses – 21,233

• Under reporting

• Not enough evidence to influence decision making
Conclusion

• **Need for comprehensive Information management system in many countries in Africa;**

• **Strengthening of collaboration and data sharing between different sectors, organisations and actors on T&T control;**
  - CVO’s
  - OIE

• **ARIS2 can play a major role in amelioration problem of information management on T&T in Africa and support existing institutions and initiatives;**
  - Support PATTEC and Country reporting on T&T activities
Acknowledgement

• AUC
  – PATTEC

• EU – EC55, PANSPSO, VetGov projects

• USAID – SMP-AH project

• Partners – OIE, LDIP (BMGF/FAO/WB/ILRI), SADC (LIMS)
Thank You

AU-IBAR: Providing leadership in the development of animal resources for Africa