Future of the OIE Data Collection: The AMU Database Project

Mombasa, Kenya – 29-31 October 2019

Agenda

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Recommendation n°4 of the 2nd OIE Global Conference on Antimicrobial Resistance – October 2018

To further develop the OIE data collection on Antimicrobial Agents Intended for Use in Animals, **converting the current spreadsheet format to a database system**, able to accommodate data submissions by animal species, and its connection to the World Animal Health Information System (WAHIS) and also allowing addition of data from field studies
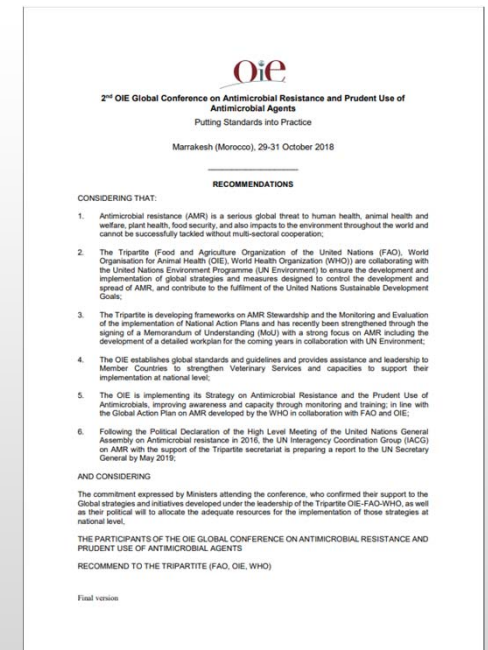
Project Overview

Set up a tool to collect data from the Member Countries to the OIE Annual Data Collection on AMU

Involving the Member Countries in the development to have a tailored tool to their needs
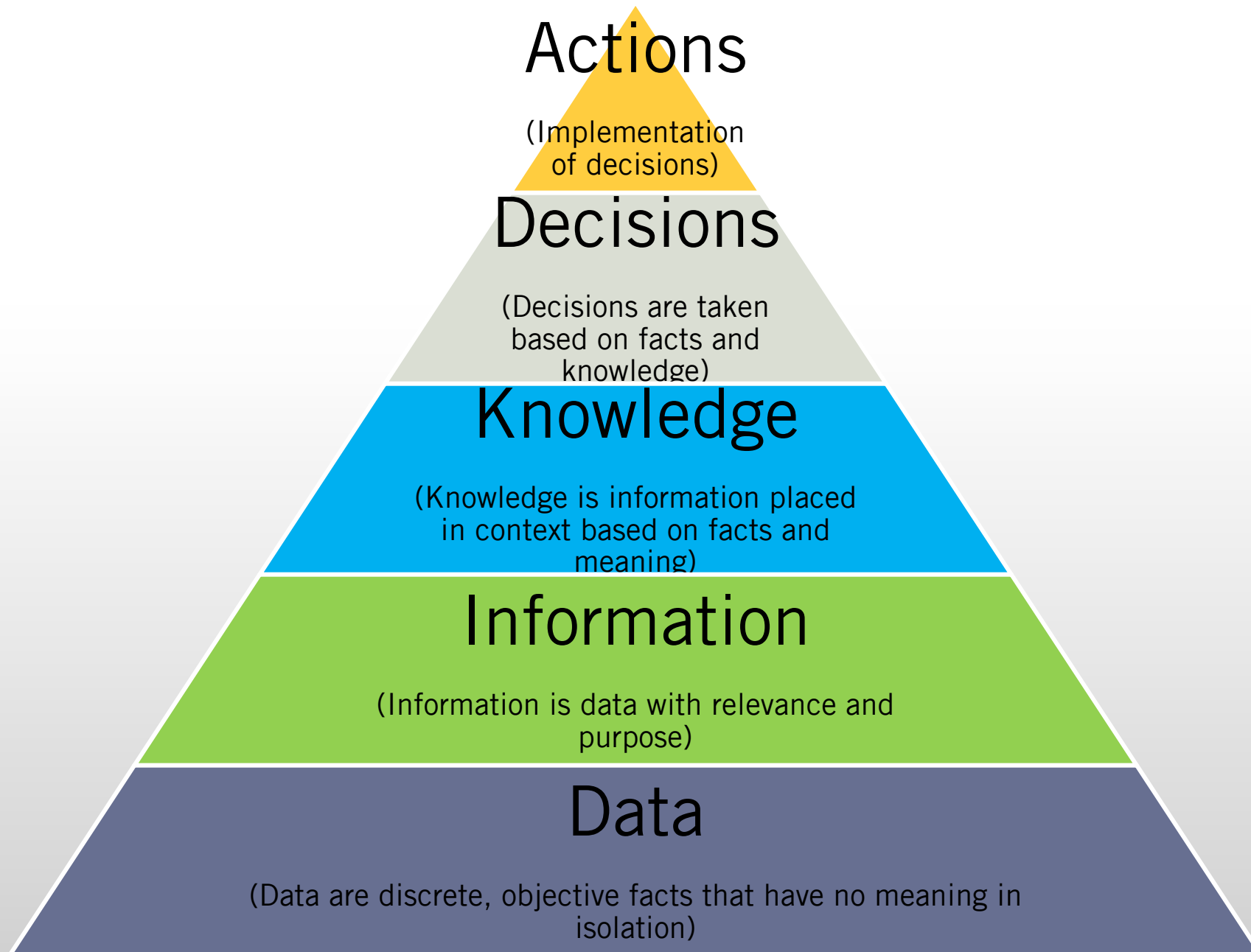
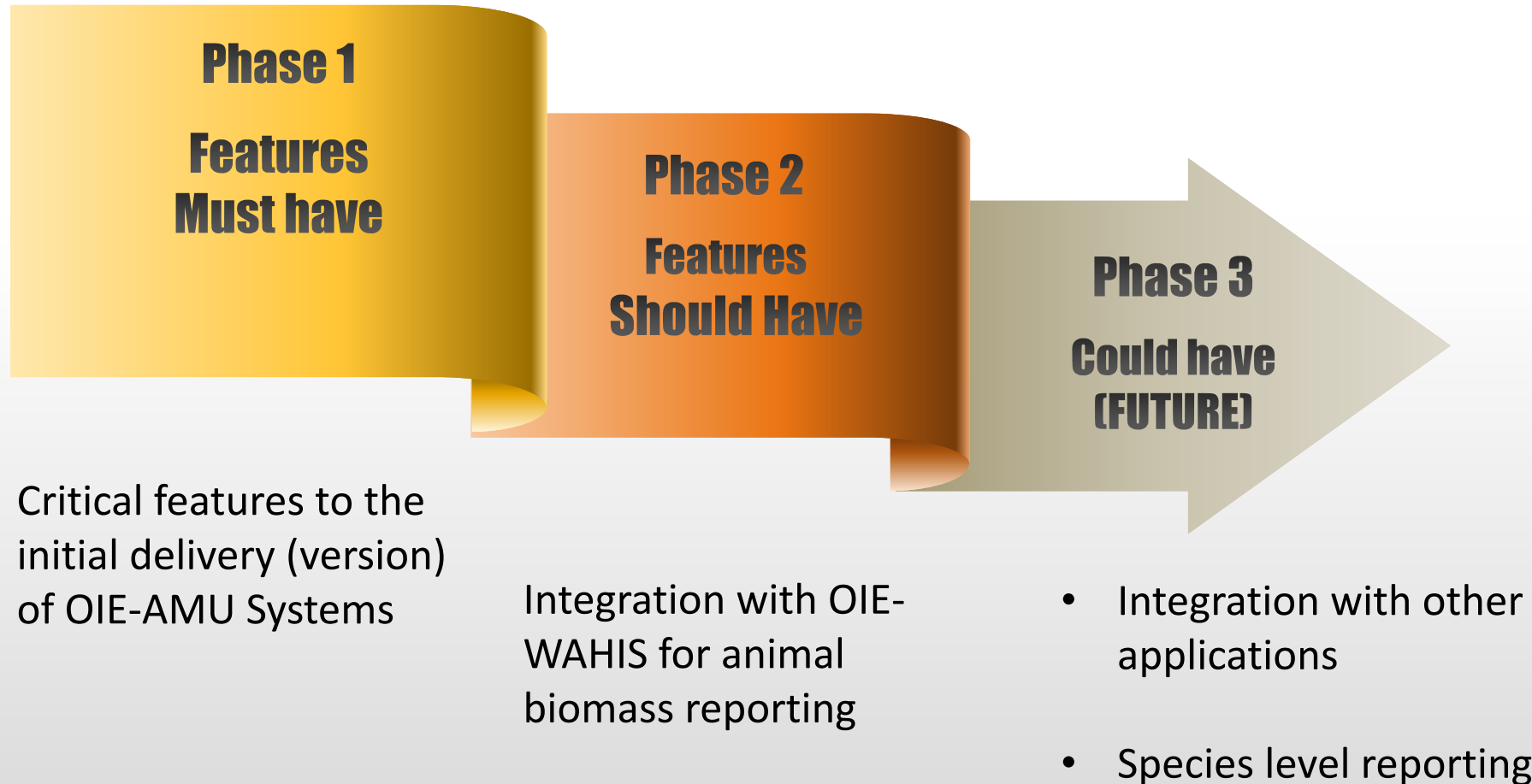**Evaluate numbers calculated by the Countries, and detect if errors occurred**

Improving the Member Countries' ownership of their AMU data

From data analysis to decisions and actions

Actions

(Implementation of decisions)

Decisions

(Decisions are taken based on facts and knowledge)

Knowledge

(Knowledge is information placed in context based on facts and meaning)

Information

(Information is data with relevance and purpose)

Data

(Data are discrete, objective facts that have no meaning in isolation)

Development Phases and Milestones

Phase 1

**Features
Must have**

Phase 2

**Features
Should Have**

Phase 3

**Could have
(FUTURE)**

Critical features to the initial delivery (version) of OIE-AMU Systems

Integration with OIE-WAHIS for animal biomass reporting

- Integration with other applications

- Species level reporting

Tailored to the countries' needs

Barriers to report quantitative data for countries
(Lack of tools and human resources)

Workshop

Round	Number of Countries
2nd Round	8
3rd Round	10
4th Round	13
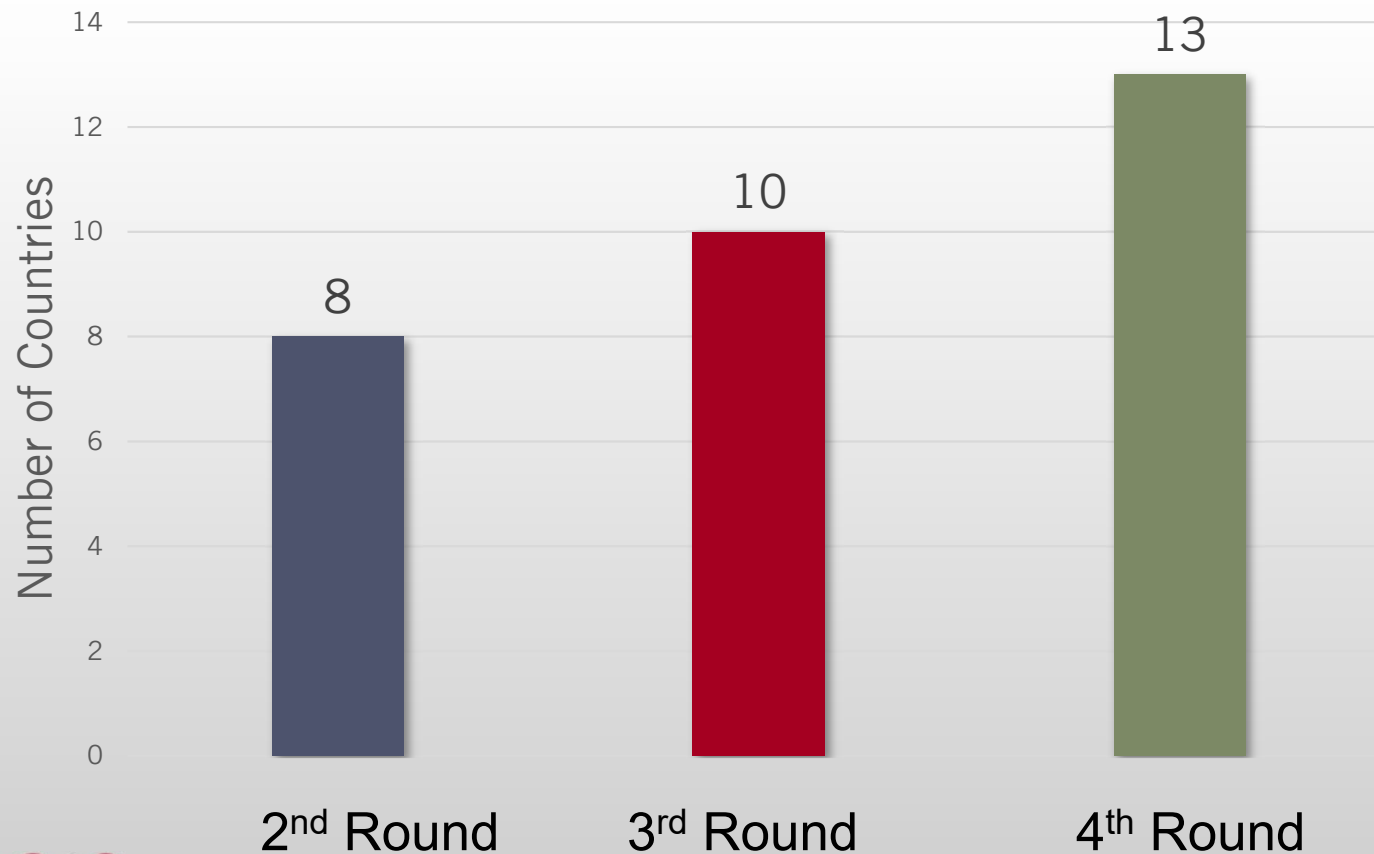
Tailored to the countries' needs

We will use the workshop group sessions for needs assessments

AMU Reporting Online

Countries will be able to see and update previous reports

The online questionnaire will have the same format as the DG5 current OIE Template in Microsoft Excel

DG3
DG4

Countries will always have the possibility to continue using the Excel files

ANTIMICROBIAL USE

Reporting

Baseline Information   Option 1   Option 2   Option 3

DG3   Could give the wrong idea that is only only, but we will the excel files if they want to use them, right?
Delfy Gochez; 12/09/2019

DG4   Maybe could we clearly explain what is our vision on how countries can send their data? For example, OIE Template (Baseline information + Rep. Op. 1, 2 and 3) directly submitted on the sofware or trhough Excel to the Sotware. In addition, there will be support on for the calculations and will function the same way direclty through the software of through Excel.
Delfy Gochez; 12/09/2019

DG5   I have taken this from the 2.1.2 Data input by countries of the Requirement document, maybe you could add other things related to the point 2?
Delfy Gochez; 12/09/2019

AMU Reporting Possibilities

OIE Template (Baseline information + Reporting Options 1, 2 and 3) directly submitted in the system

Integrated calculation tool for active ingredients
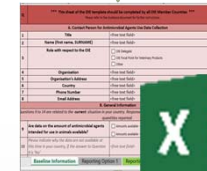
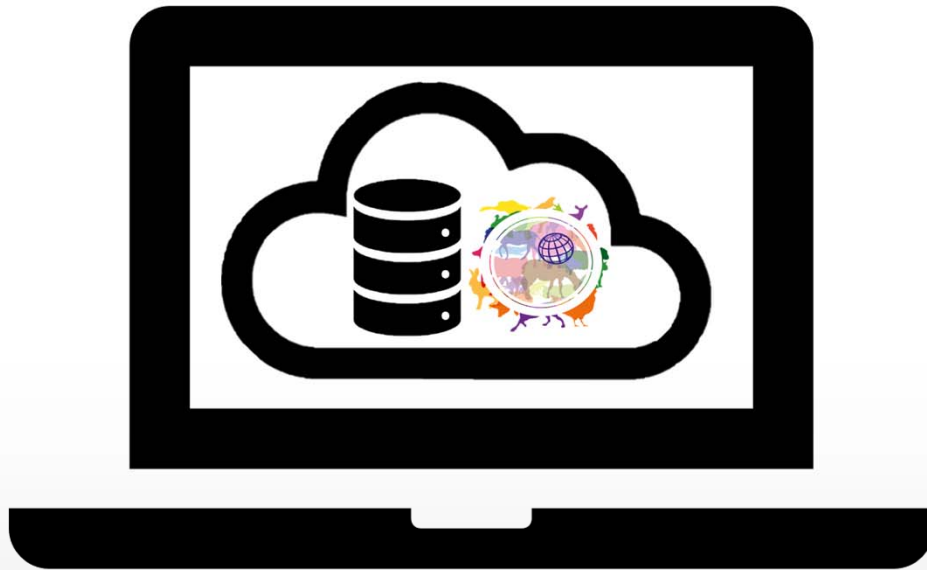Excel Template uploaded to the database

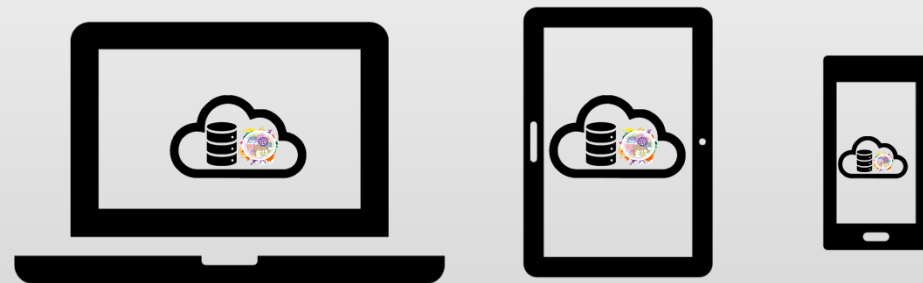AMU Database

Data Privacy and Security

- Countries will have complete control over data protection and regulation
- Adoption of best practices:
  - ✓ ISO 27001 Information System Standard
  - ✓ General Data Protection Regulation
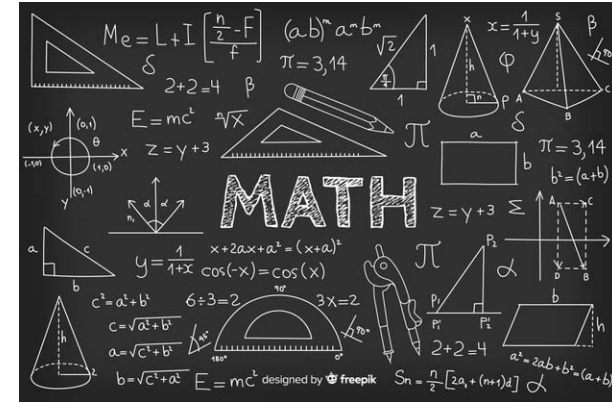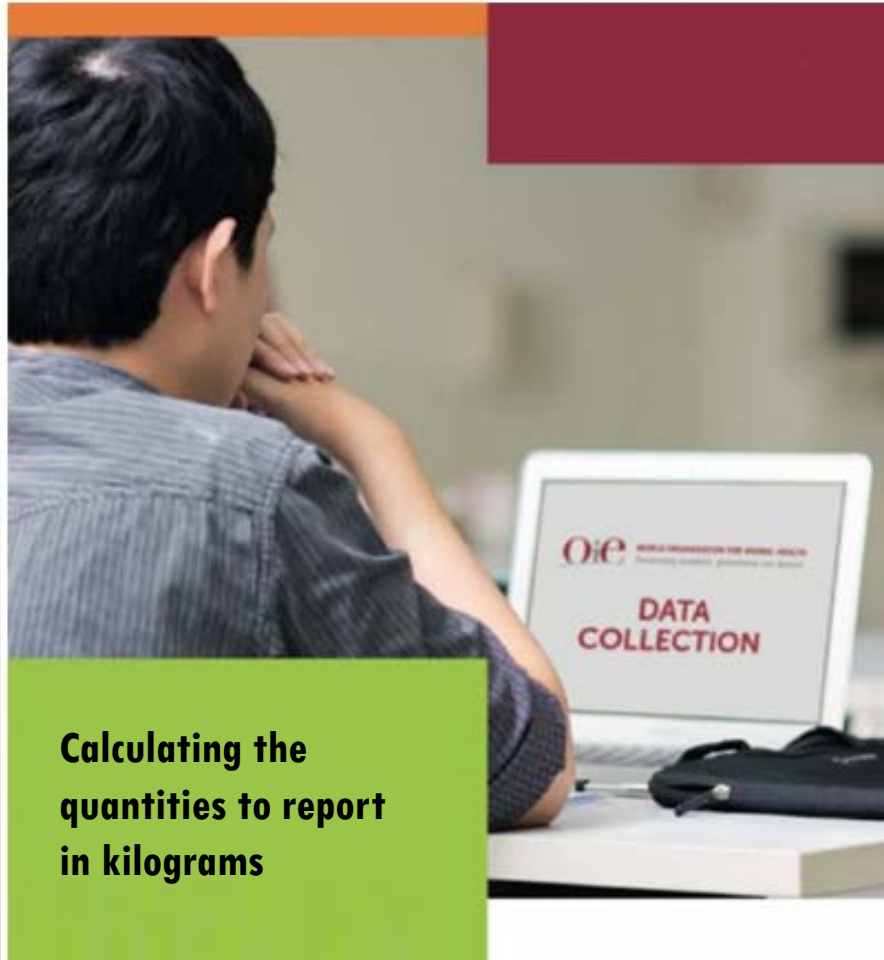
AMU System Accessibility

- Cloud based and accessible worldwide

- Accessible through various devices

Benefits – Help with AMU calculations

DG1
MM7

Calculating the quantities to report in kilograms

- Formulas to be integrated in the system

DG1   I took out the pig image as it migth create the idea that we are filling animals with antibiotics and that they (pharmaceuticals or veterinarians) are the main problem of AMR at global level. Maybe you can use an image of someone working on their data? I have put and image that we used in the General Session from 2017.
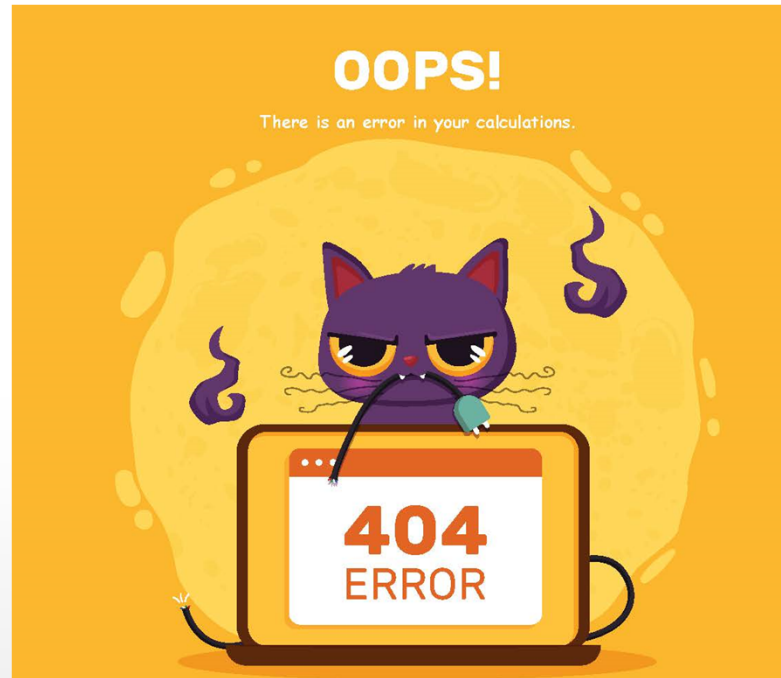Delfy Gochez; 12/09/2019

MM7   Thank you for that
Mduduzi Welcome Magongo; 12/09/2019

Benefits – Error detection
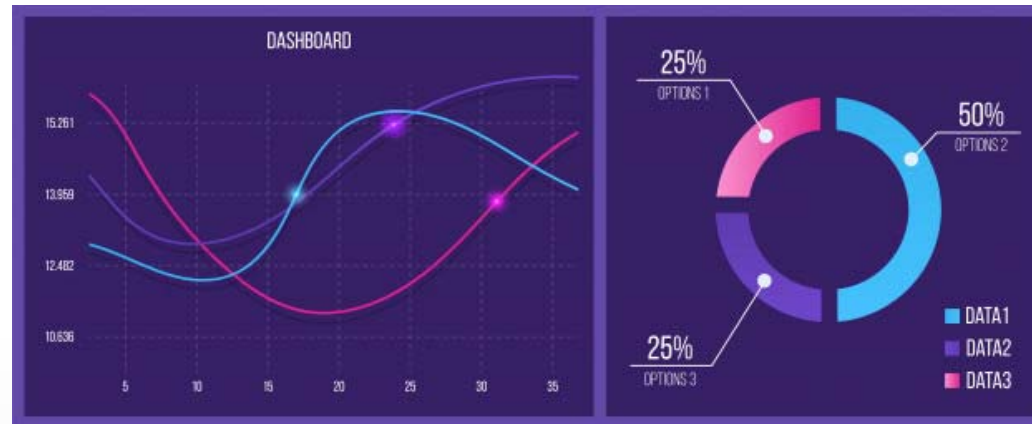

Business Intelligence tool:

- Analyse the calculations of active ingredients and detect if errors occurred

- Enhancing the accuracy of the reported data

Benefits – Alleviate time-consuming workload

- Current manual processes to be eased

Benefits – Better analysis & reporting

- AMU System to integrate with a Business Intelligence tool for better analysis of collected data, valuable insights and visualization of important information

- Countries will be able to access, analyse and download their own data online and create various graphs
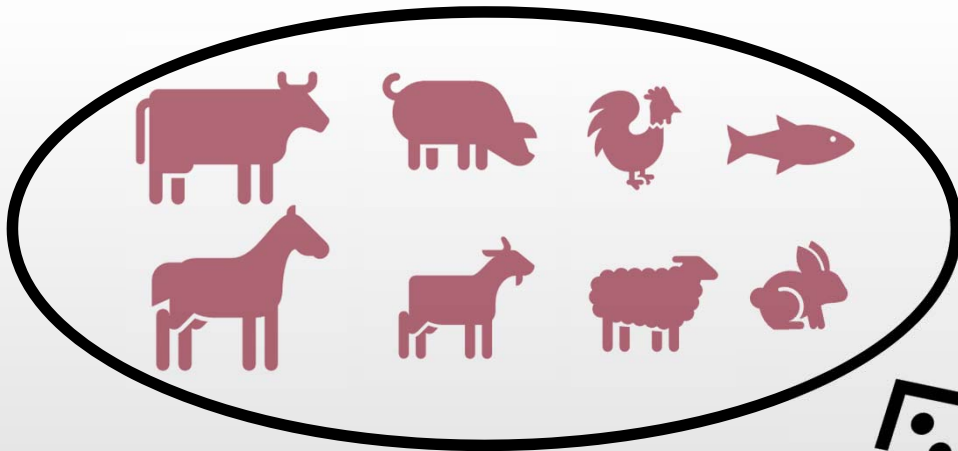
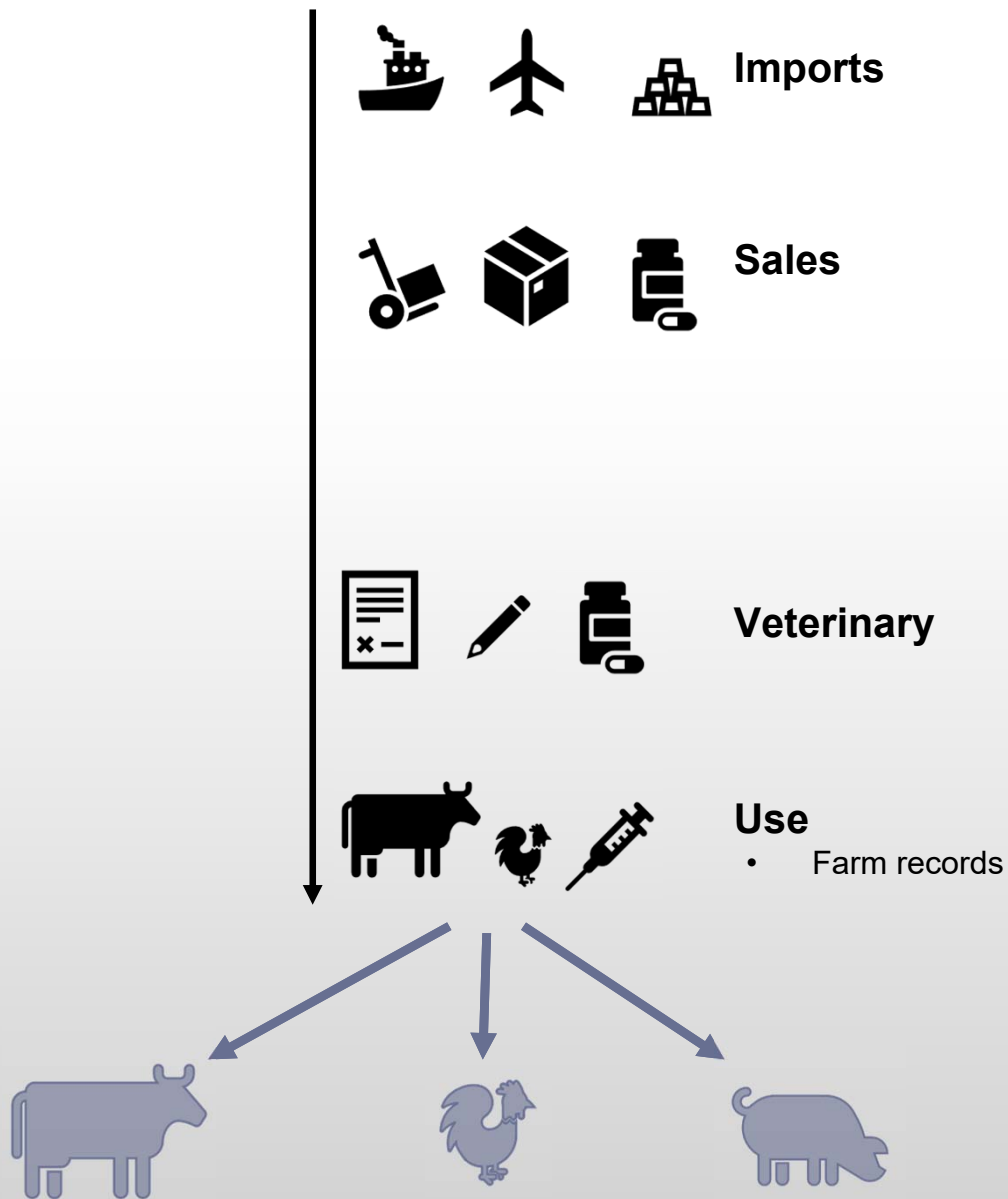- Enhancing ownership of data

Benefits – Connection with OIE-WAHIS

$$\frac{\text{💊}}{\text{🐄🐖🐓🐟 🐎🐐🐑🐇}} = \frac{\text{Antimicrobial agents (mg)}}{\text{Animal biomass (kg)}}$$

Provide an analysis of the antimicrobial quantities (mg) adjusted by animal biomass (kg)

OIE
WAHIS
WORLD ANIMAL HEALTH INFORMATION SYSTEM

Future steps

Imports

Sales

Veterinary

Use
- Farm records

Possibility to report at a species level

DG7   This are not really benefits for the countries, to give data at species level will make them to work more
Delfy Gochez; 12/09/2019

DG8   For future steps for the countries, do we want that countries do something ?
Delfy Gochez; 12/09/2019

MM8   Just to sensitize them that in future they will need to report data at species level
Mduduzi Welcome Magongo; 12/09/2019

Thank you for your attention

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