



# Risk Analysis to Support Safe Trade and FMD Control training course

## Workshop Report



**Navaisha, Kenya**

**27-31 January 2020**



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## 1. Background

The IGAD Center for Pastoral Areas & Livestock Development (ICPALD) has requested the European Commission for the Control of foot-and-mouth disease (EuFMD) to collaborate in the development and delivery of a training course on risk analysis (RA). The Regional Pastoral Livelihoods Resilience Project (RPLRP) has financially supported the participation of the trainee; and EUFMD financed the resource persons. IGAD seeks to establish a critical mass of experts working in the livestock public sector in the region trained in risk analysis, so that this tool is applied to support safe trade and transboundary animal disease control in the region. Risk analysis is an essential tool to characterize and evaluate risks, and inform preventive, preparedness and control measures. However, knowledge and skills to apply risk analysis are still limited and fragmented among national veterinary authorities in East Africa.

An integrated training approach composed of online e-learning, two face-to-face sessions and application and reporting phases will be applied to provide the trainees with practical, in-depth training on qualitative risk analysis for, and support to apply the approach in the participant's routine work (table 1). FMD will be used as a model disease during the e-learning introduction phase and first face-to-face workshop; however, the skills and approaches taught may be applied to other priority transboundary animal diseases (TADs).

After completion of the whole course, participants should be able to:

- Identify the context and situations where risk analysis should be used to support disease control and safe trade;
- Define risk, and describe and apply the components of risk analysis *as per* the OIE Terrestrial Code (hazard identification, risk assessment, risk management, risk communication);
- Undertake a qualitative risk assessment;
- Identify and evaluate risk management options;
- Communicating the risk analysis findings to disease manager and decision makers.

The *expected output* of the training will be to provide the trainees of each country with the knowledge and capacity to **design and conduct a qualitative risk assessment for FMD or another priority TAD**, and be able to develop a report to help informing evidence-based and risk-based decision making.

|  |  |   |
|--|--|---|
| <b>Induction phase</b>   | E-learning material, to allow participants to become familiar with theoretical content before the course, and thus allowing more time for discussion during the face-to-face sessions. This will consist of: <ul style="list-style-type: none"> <li>• 10 min recording to introduce the course</li> <li>• 4 modules, with approximately 4 hours required to complete the entire course.</li> </ul> | Open from week of 8 January 2020 to 31 January 2020<br>Participants may complete this at their own pace and schedule. |
| <b>Skill acquisition phase (1<sup>st</sup> face-to-face session)</b> | Training on risk analysis, identify risk questions for participants to work on during the project phase  | Face-to-face workshop, 27-31 January 2020   |
| <b>Application phase</b>   | Participants return to their own countries, and collect data and conduct the analysis to produce a qualitative risk assessment   | Backstopping available by email/skype/WhatsApp  |
| <b>Reporting phase (2<sup>nd</sup> face-to-face session)</b>         | Participants share their risk assessments with the group, feedback will be shared and received to refine and finalize the qualitative risk assessment  | Face-to-face workshop, April 30-May 01, 2020  |



Table 1: Integrated training approach for risk analysis to support safe trade and FMD control in East Africa

## 2. Objectives of the workshop

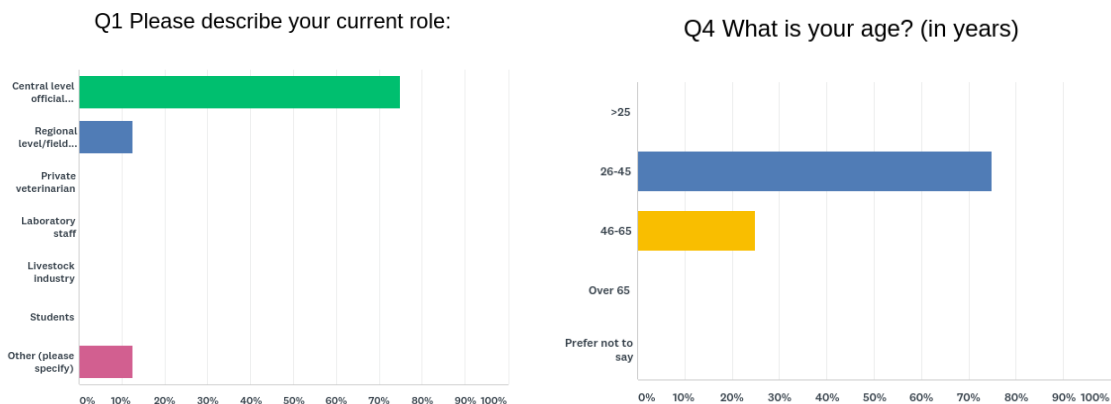
The learning objectives for the workshop were defined as follows: after the workshop, participants will be able to

- Explain the OIE risk analysis framework;
- Identify situations when risk analysis could be used in their jobs;
- Do a hazard identification, entry assessment, exposure assessment, consequence assessment;
- Identify the data needed to complete a risk assessment, and the options to obtain the data;
- Describe risk management options;
- Identify the different stakeholders that should be involved in a risk analysis;
- Communicate about risk and risk assessment results.

## 3. Workshop report

### 3.1. Participants

Nine participants attended the workshop, three from Ethiopia, three from Kenya and three from Uganda. Please refer to the figures below to find out more on participants' positions and age. The list of participants is provided in Annex 1.



### 3.2. Trainers and official representatives

Four trainers from EuFMD facilitated the workshop. IGAD ICPALD was represented by Dr Ameha Sebsibe and OIE Sub Regional Representation for East Africa and Horn of Africa was represented by Dr Thomas Daido Dulu. Representatives of FAO and the Kenyan authorities were excused. The list of facilitators is provided in Annex 1.



### 3.3. Workshop programme

A pre-workshop survey was conducted between the induction and skill acquisition phases for the participants to assess what they have learnt during the eLearning modules and inform trainers, prior to the workshop, on what they want to cover more in the workshop. Answers to this survey were used to reshape the agenda (the survey report is provided in Annex 4).

The 4.5 day-workshop followed the updated agenda shown in Annex 1. Twenty-nine sessions out of 39 were group work sessions (exercises, discussion or presentations) matching with the applied and practical nature of the training approach. Participants were supported by IGAD whereas trainers were supported by EuFMD. Logistics were arranged by IGAD colleagues.

Overall, **the first day** was dedicated to refresher lectures on risk analysis framework (qualitative versus quantitative) and applications, OIE import risk analysis (with the support of Dr Daido Dulu) and hazard identification.

During **second day** a mixed-country group exercise (3 groups with 1 participant per country) focusing on the OIE framework for import risk assessment was conducted to design risk pathways (as part of entry and exposure assessment), to identify the factors needed to assess the likelihood of these pathways (data sources, variability, uncertainty and assumptions) and the consequence assessment.

**During third day**, the mixed-country groups formed in day 2, continued the exercise focusing on the estimation of the risk based on the entry, exposure and consequence assessments; an additional presentation on risk management was delivered between the exercise sessions. To introduce participants to further application of the qualitative risk assessment framework to disease control, the three teams were assigned one research publication each to review and present. Finally, the proposals for the risk assessment project (main assignment of the training course) were presented by the country teams in preparation of the work in the next two days of the workshop.

**The fourth day** started with the mixed-country groups presenting the review of the assigned publications, followed by a short presentation of the PCP-FMD and the use of risk analysis principles in this context (as per specific request by the training participants). Country teams were then closely tutored to draft their own risk assessment project, timeline of activities (Annex 3) and the template for developing the risk assessment report (Annex 4) were introduced.

**The fifth half day** a plenary session was useful to promote collaboration and cross-fertilization between country groups in order to consolidate the 3 country proposals. Dedicated tutors among the trainees were assigned to each country team and a timeline of activities and communication modalities were agreed (Annex 3). **Three trade related proposals for qualitative risk assessment were proposed and agreed by the 3 country teams at the end of the workshop, in coordination with their line managers and alignment with the country priorities** (please refer to table 2).





The dedicated page on the eLearning website (<https://eufmdlearning.works/course/view.php?id=221>) was daily updated with lectures, group responses and additional resources.

A post-workshop anonymous survey was conducted at the end of the fifth day to assess whether the trainers meet the participants' expectations (the survey report is provided in Annex 5). Overall appreciation feedback was 5 out of 5, and highlights as follows: participants enjoyed the group sessions and committed themselves to share their knowledge on qualitative risk assessment (resources available from the course page) with their colleagues and services, improving the ownership of the methodology and ensuring their colleagues and line managers' implication into the risk assessment country project (further details in Annex 5). The post workshop survey results will be used to tailor lecturing sessions in the second face-to-face workshop.



#### 4. Workshop follow-up during the application phase

The proposed training approach stands out by the close follow-up of country groups by assigned EuFMD tutors during the application phase. Further details on the workplan for the RA project can be found in Annex 2. During the application phase, IGAD will ensure the full commitment of participants' line managers to ensure sufficient time and resources are allocated for the completion of the RA project. Please find below the qualitative RA projects by country, with the team leader and members, and assigned tutors:

| Country       | Ethiopia   |
|---------------|--|
| Risk question | <b>What is the risk that small ruminant meat destined for export from Borena, Guji and Liban is contaminated with FMD virus?</b> |
| Tutor(s)      | Melissa Mc Laws  |
| Team leader   | Wubishet Zewdie Wakene   |
| Team member   | Gashaw Beyene Asfaw; Seid Hussein Ibrahim  |

| Country       | Kenya   |
|---------------|---|
| Risk question | <b>What is the risk of RVF virus contaminating small ruminant meat destined for Middle East countries from North Eastern Kenya, during the month of May to June (long rain season)?</b> |
| Tutor(s)      | Michael Bulea Apamaku   |
| Team leader   | Hector Kusiru   |
| Team member   | Alfred Maza; Ronald Rokindo   |

| Country       | Uganda  |
|---------------|---|
| Risk question | <b>What is the risk of spreading FMD infection through live cattle from the Tanzania-Uganda border to other cattle rearing areas of Uganda during the dry season?</b> |
| Tutor(s)      | Paolo Motta and Etienne Chevanne  |
| Team leader   | Michael Kimaanga  |
| Team member   | Israel Mugezi; Aminah Namwabira   |

Table 2: Qualitative Risk Assessment projects for Ethiopia, Kenya and Uganda, with team leader, team members and assigned tutors.



## Annex 1: Updated workshop agenda with updated list of participants

| <b>Day 1 / Monday 27 January</b> |                     |  |  |
|----------------------------------|---------------------|--|--|
| 08:45-09:10                      | 1                   | Welcome and opening remarks by the Kenyan Authorities and International Organizations ( <i>and group picture</i> )   | Representatives                          |
| 09:10-09:30                      | 2                   | Presentation of the course<br>Introduction and expectations (trainers and participants)  | M. McLaws lead                           |
| 09:30-10:10                      | 3                   | Jeopardy game: Review of the Induction Phase (eLearning)   | E. Chevanne lead                         |
| <b>10:10-10:30</b>               | <b>Coffee Break</b> |  |  |
| 10:30-11:00                      | 4                   | Presentation: Risk analysis applications   | M. Mc Laws lead                          |
| 11:00-11:30                      | 5                   | Group discussion: Country risk analysis priorities   | All, in country groups                   |
| 11:30-12:00                      | 6                   | Group presentations: summary of discussions to the whole group (10 mins/group)   | All, rapporteurs                         |
| <b>12:00-13:00</b>               | <b>Lunch Break</b>  |  |  |
| 13:00-13:30                      | 7                   | Presentation: Introduction to risk analysis  | E. Chevanne to lead                      |
| 13:30-13:45                      | 8                   | Presentation: Framing the risk question  | M.B. Apamaku to lead                     |
| 13:45-14:30                      | 9                   | Group exercise: Participants will work in small mixed groups, and 1) describe the issue 2) frame a risk question 3) present to the rest of the group:<br>1) FMD and wildlife<br>2) FMD risk associated with swill feeding<br>3) FMD outbreak in neighbouring countries | All, in mixed groups,<br>M. Apamaku lead |
| <b>14:30-15:00</b>               | <b>Coffee Break</b> |  |  |
| 15:00-15:30                      | 10                  | Presentation: Import Risk Analysis and risk pathways   | M. McLaws lead                           |
| 15:30-16:30                      | 11                  | Group presentation (exercise session 9)  | All, rapporteurs                         |
| <b>16:30</b>                     | <b>End of day 1</b> |  |  |

| <b>Day 2 / Tuesday 28 January</b> |                     |   |   |
|-----------------------------------|---------------------|---|---|
| 08:45-09:00                       | 12                  | Recap on Day 1  | Volunteer participant                     |
| 09:00-09:30                       | 13                  | Group exercise: Import risk assessment (IRA) - Hazard identification.<br>Import from India to Kenya of:<br>1) Live cattle; 2) Live goat; 3) Fresh cheese made of sheep milk | All, in mixed groups<br>M.B. Apamaku lead |
| 09:30-10:00                       | 14                  | Group presentations: Hazard identification (10mins/group)   | All, rapporteurs                          |
| <b>10:00 -10:20</b>               | <b>Coffee Break</b> |   |   |
| 10:20-10:50                       | 15                  | Presentation: IRA- Entry, Exposure Assessments and Risk pathways  | M. McLaws to lead                         |
| 10:50-12:00                       | 16                  | Group exercise: Risk pathways   | All, in mixed groups<br>M. McLaws lead    |
| <b>12:00-13:00</b>                | <b>Lunch Break</b>  |   |   |
| 13:00-13:30                       | 17                  | Group presentations: Risk pathways (10mins/group)   | All, rapporteurs                          |
| 13:30-14:00                       | 18                  | Presentation: Data sources, Variability and Uncertainty and assumptions   | M.B. Apamaku lead                         |
| 14:00-14:30                       | 19                  | Group discussion: Identify potential data sources for an IRA  | All, M.B. Apamaku lead                    |
| <b>14:30-15:00</b>                | <b>Coffee Break</b> |   |   |
| 15:00-15:30                       | 20                  | Presentation: IRA - Consequence Assessment  | M. McLaws lead                            |
| 15:30-16:30                       | 21                  | Group exercise: Consequence Assessment  | All, in mixed groups<br>M. Mc Laws lead   |
| <b>16:30</b>                      | <b>End of day 2</b> |   |   |



Lecture



Group work sessions





| <b>Day 3 / Wednesday 29 January</b> |                     |  |   |
|-------------------------------------|---------------------|--|---|
| 08:45-09:00                         | 22                  | Recap on Day 2   | Volunteer participant                     |
| 09:00-09:30                         | 23                  | Group presentations: Consequence Assessment (10mins/group)   | All, rapporteurs                          |
| 09:30-10:00                         | 24                  | Presentation: IRA - Risk estimation  | M. McLaws lead                            |
| <b>10:00 – 10:20</b>                | <b>Coffee Break</b> |  |   |
| 10:20-11:30                         | 23                  | Group exercise: Risk estimation and finalise risk assessment (continuing with same example from Day 2) | All, in mixed groups<br>M. McLaws lead    |
| 11:30-12:00                         | 24                  | Group presentations: Risk estimation   | All, rapporteurs                          |
| <b>12:00-13:00</b>                  | <b>Lunch Break</b>  |  |   |
| 13:00-13:30                         | 25                  | Presentation: IRA - Risk management  | M.B. Apamaku lead                         |
| 13:30-14:00                         | 26                  | Group discussion: RA policy options  | All, in mixed groups<br>M.B. Apamaku lead |
| 14:00-14:30                         | 27                  | Group exercise: Review a risk assessment study   | All, in mixed groups                      |
| <b>14:30-15:00</b>                  | <b>Coffee Break</b> |  |   |
| 15:00-15:30                         | 28                  | Group exercise: Review a risk assessment study (continued)   | All, in mixed groups                      |
| 15:30-16:00                         | 29                  | Group presentation: Review a risk assessment study   | All, rapporteurs                          |
| 16:00-16:30                         | 30                  | Group exercise: Develop your country RA project  | All, in country groups                    |
| <b>16:30</b>                        | <b>End of day 3</b> |  |   |

| <b>Day 4 / Thursday 30 January</b> |                     |   |                        |
|------------------------------------|---------------------|---|------------------------|
| 08:45-09:00                        | 31                  | Recap on Day 3  | Volunteer participant  |
| 09:00-10:00                        | 32                  | Group exercise: Develop your country RA project (cont.)   | All, in country groups |
| <b>10:00 – 10:20</b>               | <b>Coffee Break</b> |   |                        |
| 10:20-11:30                        | 33                  | Group exercise: Develop your country RA project (cont.)   | All, in country groups |
| 11:30-12:00                        | 34                  | Presentation: Introduction to the principles of the PCP and the Global Strategy for FMD control                           | E. Chevanne to lead    |
| <b>12:00-13:00</b>                 | <b>Lunch Break</b>  |   |                        |
| 13:00-14:00                        | 35                  | Group exercise: Develop your country RA project (cont.)   | All, in country groups |
| 14:00-14:30                        | 36                  | Group exercise: Develop your country RA project (cont.)   | All, in country groups |
| <b>14:30-15:00</b>                 | <b>Coffee Break</b> |   |                        |
| 15:00-16:30                        | 37                  | Discussion: Participants to develop outline of <u>their project</u> plan with tentative time line, data and support needs | All, P. Motta to lead  |
| <b>16:30</b>                       | <b>End of day 4</b> |   |                        |

| <b>Day 5 / Friday 31 January</b> |  |   |                                    |
|----------------------------------|--|---|------------------------------------|
| 09:00-10:00                      | 38   | Group exercise: Finalise plans for the project of your country RA project (continued) | All, in country groups with tutors |
| <b>10:00 – 10:20</b>             | <b>Coffee Break</b>                            |   |                                    |
| 10:20-12:00                      | 39   | Wrap up and feedback sessions, and follow-up actions (risk assessment report)         | All, in country groups with tutors |
| <b>12:00-13:00</b>               | <b>Lunch Break and closure of the workshop</b> |   |                                    |



Lecture



Group work sessions



## List of Participants

|    | Surname                     | Representation  | Position                                  | E-mail address + Tel Number (WhatsApp)   | Country (Team Leader) |
|----|-----------------------------|---|---|--|-----------------------|
| 1  | Wubishet Zewdie Wakene (Dr) | Federal MoA, Disease Prevention and Control Directorate (DPCD)  | Senior TADs Prevention and Control Expert | <a href="mailto:wubevet1921@gmail.com">wubevet1921@gmail.com</a> ;<br><a href="mailto:wubenbe2122@gmail.com">wubenbe2122@gmail.com</a><br>+251 912194164<br>+251 937329647 | Ethiopia              |
| 2  | Gashaw Beyene Asfaw (Dr)    | Federal MoA, Epidemiology Directorate                           | Senior Animal Health Expert               | <a href="mailto:gashudvm@gmail.com">gashudvm@gmail.com</a><br>+251 910199472   | Ethiopia              |
| 3  | Seid Hussein Ibrahim (Dr)   | Federal MoA, Epidemiology Directorate                           | Senior Epidemiologist                     | <a href="mailto:seidhusein99@gmail.com">seidhusein99@gmail.com</a><br>+251913413509  | Ethiopia              |
| 4  | Michael Kimaanga (Dr)       | Department of Animal Health, Regulations and Enforcement, MAAIF | Senior veterinary inspector               | <a href="mailto:mkimmanga@yahoo.com">mkimmanga@yahoo.com</a> ;<br><a href="mailto:michaelkimaanga@gmail.com">michaelkimaanga@gmail.com</a><br>+256 782244906               | Uganda                |
| 5  | Israel Mugezi (Dr)          | Department of Animal Health, Regulations and Enforcement, MAAIF | Veterinary inspector                      | <a href="mailto:nythisrael@live.com">nythisrael@live.com</a><br><a href="mailto:Israel.mugezi@agriculture.go.ug">Israel.mugezi@agriculture.go.ug</a><br>+256 773487305     | Uganda                |
| 6  | Aminah Namwabira (Dr)       | Department of Animal Health, Regulations and Enforcement, MAAIF | Veterinary inspector                      | <a href="mailto:aminahsitenda@gmail.com">aminahsitenda@gmail.com</a><br>+256 771894690   | Uganda                |
| 7  | Alfred Maza (Dr)            | Directorate of Veterinary Services, RVIL <sup>1</sup> Mariakani | Epidemiologist                            | <a href="mailto:fredmazak@gmail.com">fredmazak@gmail.com</a><br>+254 721919971   | Kenya                 |
| 8  | Ronald Rokindo (Dr)         | Disease Control and Surveillance and Border Post, JKIA airport  | Disease control expert                    | <a href="mailto:rokindoronald@gmail.com">rokindoronald@gmail.com</a><br>+254 710107900   | Kenya                 |
| 9  | Hector Kusiru (Dr)          | Directorate of Veterinary Services, RVIL Kericho                | Epidemiologist                            | <a href="mailto:kusiruh@yahoo.com">kusiruh@yahoo.com</a><br>+254 722890889   | Kenya                 |
| 10 | Thomas Daido Dulu (Dr)      | OIE SRR East Africa and Horn of Africa                          | Programme officer                         | <a href="mailto:t.dulu@oie.int">t.dulu@oie.int</a><br>+254 721276508   | Kenya                 |
| 11 | Ameha Sebsibe               | IGAD ICPALD   | Head of livestock department              | <a href="mailto:ameha.sebsibe@igad.int">ameha.sebsibe@igad.int</a>   | Kenya                 |
| 12 | Melissa McLaws (Dr)         | EuFMD   | Veterinary Epidemiologist                 | <a href="mailto:Melissa.Mclaws@fao.org">Melissa.Mclaws@fao.org</a>   | Canada                |
| 13 | Paolo Motta (Dr)            | EuFMD   | Veterinary Epidemiologist                 | <a href="mailto:Paolo.Motta@fao.org">Paolo.Motta@fao.org</a>   | Italy                 |
| 14 | Etienne Chevanne (Dr)       | EuFMD   | Veterinary Epidemiologist                 | <a href="mailto:Etienne.Chevanne@fao.org">Etienne.Chevanne@fao.org</a>   | Italy                 |
| 15 | Michael Bulea Apamaku (Dr)  | FAO   | Animal Health Officer                     | <a href="mailto:Michael.Apamaku@fao.org">Michael.Apamaku@fao.org</a>   | Kenya                 |
| 16 | Polly Clare Compston (Dr)   | RVC – external observer the last day                            | PhD student                               | <a href="mailto:pcompston@rvc.ac.uk">pcompston@rvc.ac.uk</a>   | UK                    |

<sup>1</sup> Regional Veterinary Investigation Laboratory

## Annex 2: Agreed Gantt chart for the application phase

| Agreed workplan of the Risk Assessment project January-April 2020                    | January | February |    |    |    | March |    |    |    | April |
|--|---------|----------|----|----|----|-------|----|----|----|-------|
|  |         | 7        | 14 | 21 | 28 | 6     | 13 | 20 | 27 | 3     |
| <b>Skill acquisition phase</b>   |         |          |    |    |    |       |    |    |    |       |
| E-learning course  |         |          |    |    |    |       |    |    |    |       |
| 1st Workshop in Naivasha   |         |          |    |    |    |       |    |    |    |       |
| <b>Risk Assessment Project</b>   |         |          |    |    |    |       |    |    |    |       |
| Project proposal   |         |          |    |    |    |       |    |    |    |       |
| Team composition and Lead  |         |          |    |    |    |       |    |    |    |       |
| Risk Question and Hazard Identification  |         |          |    |    |    |       |    |    |    |       |
| Draft RA structure (including Risk Pathways and plan for estimating risk likelihood) |         |          |    |    |    |       |    |    |    |       |
| Write the Introduction and Background, and Hazard Identification                     |         |          |    |    |    |       |    |    |    |       |
| Collect the information and data sources (and identify gaps)                         |         |          |    |    |    |       |    |    |    |       |
| Online Meeting for review and time scheduling (all country teams, IGAD, tutors)      |         |          |    |    |    |       |    |    |    |       |
| Develop Entry, Exposure and Consequence assessments                                  |         |          |    |    |    |       |    |    |    |       |
| Finalize draft Entry, Exposure and Consequence assessments                           |         |          |    |    |    |       |    |    |    |       |
| Risk Estimation and draft conclusion and recommendations                             |         |          |    |    |    |       |    |    |    |       |
| Finalization of the draft Report for Review (country and tutors)                     |         |          |    |    |    |       |    |    |    |       |
| Online Meeting for review of the project report (all country teams, IGAD, tutors)    |         |          |    |    |    |       |    |    |    |       |
| <b>Others</b>  |         |          |    |    |    |       |    |    |    |       |
| Provide cascading presentation to country staff                                      |         |          |    |    |    |       |    |    |    |       |
| <b>Funds for sustainability</b>  |         |          |    |    |    |       |    |    |    |       |



### Annex 3: Proposed table of content for the risk assessment report

|   |                                     |
|---|-------------------------------------|
| Executive Summary .....                               | <b>Error! Bookmark not defined.</b> |
| Tracking Form .....                                   | <b>Error! Bookmark not defined.</b> |
| Table of Contents .....                               | <b>Error! Bookmark not defined.</b> |
| List of Tables .....                                  | <b>Error! Bookmark not defined.</b> |
| List of Figures .....                                 | <b>Error! Bookmark not defined.</b> |
| List of Abbreviations.....                            | <b>Error! Bookmark not defined.</b> |
| Risk Assessment .....                                 | <b>Error! Bookmark not defined.</b> |
| 1. Introduction.....                                  | <b>Error! Bookmark not defined.</b> |
| 1.1. Scope of Risk Assessment and Risk Question ..... | <b>Error! Bookmark not defined.</b> |
| 1.2. Methodology.....                                 | <b>Error! Bookmark not defined.</b> |
| 1.3. Data Used:.....                                  | <b>Error! Bookmark not defined.</b> |
| 1.4. Likelihood Definitions .....                     | <b>Error! Bookmark not defined.</b> |
| 2. Ucertainties and assumptions .....                 | <b>Error! Bookmark not defined.</b> |
| 2.1. Uncertainties.....                               | <b>Error! Bookmark not defined.</b> |
| 2.2. Assumptions.....                                 | <b>Error! Bookmark not defined.</b> |
| 3. Background .....                                   | <b>Error! Bookmark not defined.</b> |
| 4. Hazard identification .....                        | <b>Error! Bookmark not defined.</b> |
| 5. Entry assessment .....                             | <b>Error! Bookmark not defined.</b> |
| 6. Exposure assessment .....                          | <b>Error! Bookmark not defined.</b> |
| 7. Consequence assessment.....                        | <b>Error! Bookmark not defined.</b> |
| 8. Risk estimate.....                                 | <b>Error! Bookmark not defined.</b> |
| 9. Conclusions and recommendations.....               | <b>Error! Bookmark not defined.</b> |
| References .....                                      | <b>Error! Bookmark not defined.</b> |



## Annex 4: Pre-workshop survey

This survey aims at assessing the induction phase (eLearning course) of the integrated training approach and asking participants, prior to the workshops, which topics they would like to be covered more in detail during the workshop:

Q2 How confident are you to do each of the following tasks? Please rate as following: 1= Not confident 5= Very confident



**Which part of the eLearning you have understood well?**

All four modules were mentioned.

**Which topic you would be interested for us to cover in more depth during the workshop?**

WTO SPS, OIE Terrestrial Animal Health Code, zoning and compartmentalization, PCP stages, certifications, all the steps of RA, Risk management.

**Additional comments:**

Estimated time for eLearning completion is too short





## Annex 5: Post-workshop survey

**How useful was this workshop to your professional programme?** 5/5, Very useful (n=9)

**How enjoyable did you find the workshop?** 5/5, Very enjoyable (n=9)

### Which technical aspects did you find the most interesting?

Using the OIE WAHIS interface for hazard identifications; all aspects are interesting but the group work exercises and discussions with all participants and trainers is the most interesting one; developing risk assessment pathways and scenario; convey up with risk assessment and conclusion; the steps of risk analysis and detailed practical work on risk assessment; entry, exposure and consequence assessments and risk estimation; risk assessment, hazard identification, risk estimation, consequence assessments and risk communication, basic management; making the risk pathways, using WAHIS to find out about animal disease information in other countries; the group work aspect was the most interesting and useful; the process of risk assessment, the PCP; risk pathways and formulating risk questions; approaching the risk analysis.

### Which parts of the training have you found challenging or difficult to understand?

The PCP has many steps that need some good level of concentration to comprehend; to decide or to estimate the level of risk was difficult for me as there is no one correct answer for it. It depends on personal understanding; the understanding of standard codes which required more time; constructing scenario for assessing likelihood and estimating uncertainty; development of various risk pathways and risk estimation; main steps of the risk assessment methodology, it was handled very quickly.

### Which topic would you prefer to be covered in more details?

Entry and exposure assessments, risk pathways ; determining the risk levels requires more detail training; PCP, risk assessment; risk communication, detailed risk estimation and management; risk communication and stakeholder engagement; the steps of risk assessment; identifying type of data along the risk pathways.

### Now that you have completed the workshop and associated eLearning, please rate your own competence to complete the following tasks or activities:

- For import risk analysis 4.33/5 (n=9)
- For measures related to international trade 4.44/5 (n=9)

### Please rate the types of presentations/exercise according to how useful you found them

- Presentations or lectures 4.63/5 (n=8)
- Large group discussions 4.5/5 (n=8)
- Small group exercises 4.5/5 (n=8)

**How do you rate the induction course?** 4.78/5 (n=9)

**How do you rate the practical arrangements?** 5/5 (n=9)

**How likely are you to use what you have learned during this course to improve the way that you or your colleagues work?** 4.89/5 (n=9)



**Please tell us one thing that you will do when you will get back to the office o, to apply what you have learned in this workshop?**

Using the OIE WAHIS interface to draft importing conditions for animals and animal products entering Uganda; I will share all the documents to my department and report to the director about the training ; I will develop various risk analysis to various commodities; I will share the knowledge and documents to my colleagues and review the risk analysis protocol we are using; consulting WAHIS whenever drafting the import requirements to know the risk, OIE standards to describe the necessary sanitary measures; make a presentation to my department and take my colleagues though the process of risk assessment; organize a mini training to teach my work mates the importance of risk analysis; I will identify an area which requires risk analysis and do it; run risk analysis of various diseases affecting the region we cover.

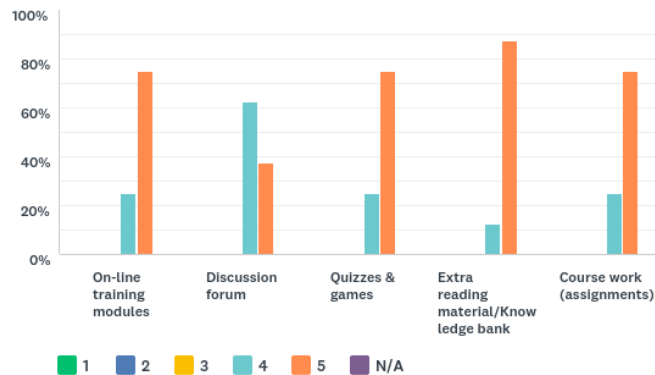
**Please provide any other comment?**

Add more practical sessions; In presentations, trainers are a little bit short, it would be better if you can add some more slides and examples so that we can understand the sub-topic and do the group work with confidence; risk assessment exceeded my expectations ; PCP and international codes aspects was below my expectations; For the eLearning, I would love if there were online presentations by trainers; it would be important to include brief socio-economic analysis for FMD; Time for eLearning was up to 2 hours but the study took more time, improve on the time for eLearning; the eLearning course should have been sent earlier; the course material especially additional learning material exceeded my expectations; keep it up, it was good!; counter check the pdf downloads in the eLearning as some sections are illegible; introduce more courses as an advancement to the current one online.



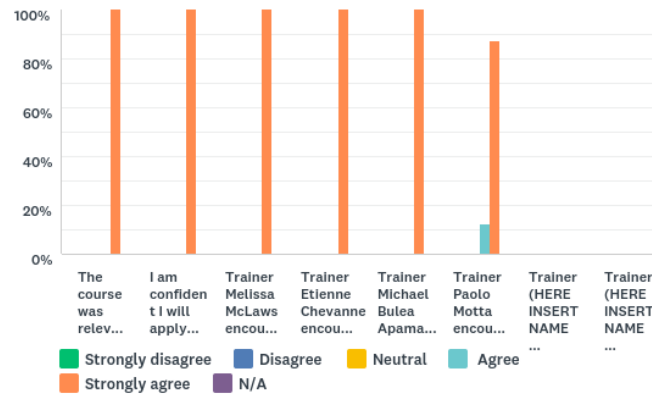
Online survey:

Q6 Please rate each of the following elements of the course (in a scale from 1 to 5, with 5 being excellent):





Q7 Please select on the scale provided the extent to which you agree with the following statements (select NA if not applicable).



**Provide any comments about the trainers:** trainers are friendly, supportive and highly skilled on the subject; they were all good and friendly willing to teach; they have excellent training skills which are devoid of stress and make the subject interesting; they were excellent and went out of their way to ensure I understood all that was taught; it is very good; Melissa and team are excellent teachers and team players keep it up your welcome to Uganda; the trainers included many practical sessions in the course which made comprehension of the risk assessment concepts easier; they are excellent, breaking every topic down to detail.

**Most useful part of the course:** all sections were useful; risk assessment steps; risk assessment especially developing risk questions and pathways; risk analysis framework and its applications; risk pathways and formulating risk questions; risk assessment and risk estimation; practical sessions; risk assessment steps; making risk pathways using WAHIS to get animal disease information in other countries.

**Least useful part of the (eLearning) course:** FMD virus and its clinical signs; introduction to the PCP

**What improvements would you suggest?** Inclusion of socio-economic analysis for FMD; the sessions were good, you can also include the tourism part in workshop, like visits; increase time so that the workload per day can be reduced; immediately provide soft copies of the day's lessons at the end of each session; add more practical sessions especially on drawing entry and exposure pathways; I think more background knowledge be provided in eLearning; request that we publish this work after the assessment.