

SHORT TERM SCIENTIFIC MISSION (STSM) SCIENTIFIC REPORT

This report is submitted for approval by the STSM applicant to the STSM coordinator

Action number: CA17110

STSM title: Design a data collection matrix

STSM start and end date: 01/03/2020 to 14/03/202

Grantee name: Eglė Rapaliutė

PURPOSE OF THE STSM:

(max.200 words)

The planned aims of this 3rd WG2 STSM were:

1. Design a data collection matrix for collecting information useful to estimate disease freedom from different control programs (CPs) for a range of infectious cattle diseases;
2. Learn about critical aspects of disease CP to assure freedom from disease and to write a literature review/list including this information.

There was a need to update a data collection matrix and guidance document for completing the matrix according to the conclusions and additional suggestions of the last SOUND – control meeting workshop. Also, I have planned to discuss the possible methods for data quality evaluation, as each country involved in the Action needs to evaluate the quality in the same way.

DESCRIPTION OF WORK CARRIED OUT DURING THE STSMS

(max.500 words)

During first day, together with the supervisor of this STSM – Dr Céline Faverjon, we agreed having everyday meetings to discuss work progress and also, we agreed to focus on 3 aspects:

1. A data collection matrix improvement.
2. The evaluation of the available data and determination quality of it (poor/fair/good).
3. Planning and trying different tools for designing easier to use data collection matrix.

Firstly, I have worked on concluding the most important changes for data collection matrix, guidance document for completing the matrix based on the outputs of WG2 workshop (Zurich, November 2019). The documents were updated by improving definitions of the variables, removing unnecessary variables, adding more examples in unclear questions and better explaining required data. Also, during first week, a presentation (.pptx) of this STSM was done, including several questions for WG1 meeting, which was held in London on 6th of March.

Secondly, current data collection matrix in MS Excel form is complicated to use: it is difficult to collect data from every country member and to summarize and analyze their answer. At this point, it was decided to try an online survey tool making data collection and analysis easier. A proposal for WG2 members was sent to know if any of Action member countries has an professional account of online survey making tools (e.g. survey monkey, limesurvey). We have received a suggestion from University of Bern, VPHI to use their Limesurvey account. During this 3rd STSM I have started to design an online data collection matrix. This online matrix provides the possibility to easily analyse data collected from all Action member countries, to propose a more userfriendly data collection matrix (e.g. skipping some questions if there is no data

available), and many other extra functions comparing with Excel document. At the end of the STSM, the online data collection matrix was not completely finished and it is planned to finish a first complete draft by the end of March 2020. The first draft will be submitted to the WG2 members for review.

Finally, it was necessary to find a way to define poor/fair/good quality of available data. Very brief literature search was done and we decided to create a data quality evaluation tool, based on 4 standardized data quality criteria: accessibility, completeness, timeliness and accuracy. Each criterion includes standardized definitions of poor, fair and good and is used to evaluate the quality of every variable of the matrix. Online data collection matrix parts related to “data quality evaluation” and filling in the actual data are only required if the data is available in the Action member country.

DESCRIPTION OF THE MAIN RESULTS OBTAINED

(max.500 words)

The main results of this STSM:

1. Updated MS Excel (.xlsx) “Data collection matrix” and MS word (.docx) “Draft data support document”:
 - a. General changes: introduction in support document including the aim of the data collection and availability, quality evaluation, also, aspects of animal disease control programs to assure freedom from disease.
 - b. Improved definitions: herd, cattle density, seasonality of calving patterns, culling policy, free status (freedom from disease), positive animal, positive herd, beef and dairy definitions requested from WG1.
2. Started to design online data collection matrix using Lime survey program for easier data collection and analysis (planned to be done by the end of March, 2020).
3. Developed a MS word (.docx) “Data quality evaluation tool” to capture heterogeneity of available data in Action member countries. Using this tool it is possible to determine poor/fair/good quality of available data with four measures (availability, completeness, timeliness, accuracy).

FUTURE COLLABORATIONS (if applicable)

(max.200 words)

I had a possibility to find out about interesting Ausvet Europe projects. Also, I presented my own work at university about EBL situation and surveillance in Lithuania and SOUND – control project to Ausvet team. It was very useful to get advises and discuss what could be improved in STSM and in my personal work at university.