

Standardizing output-based surveillance to control non-regulated cattle diseases: Aspiring for a single general regulatory framework in the European Union

COST Action SOUND control

AIM

Stimulate initiatives to harmonize the outputs of different control programmes (CPs) for non-regulated cattle diseases in European countries.



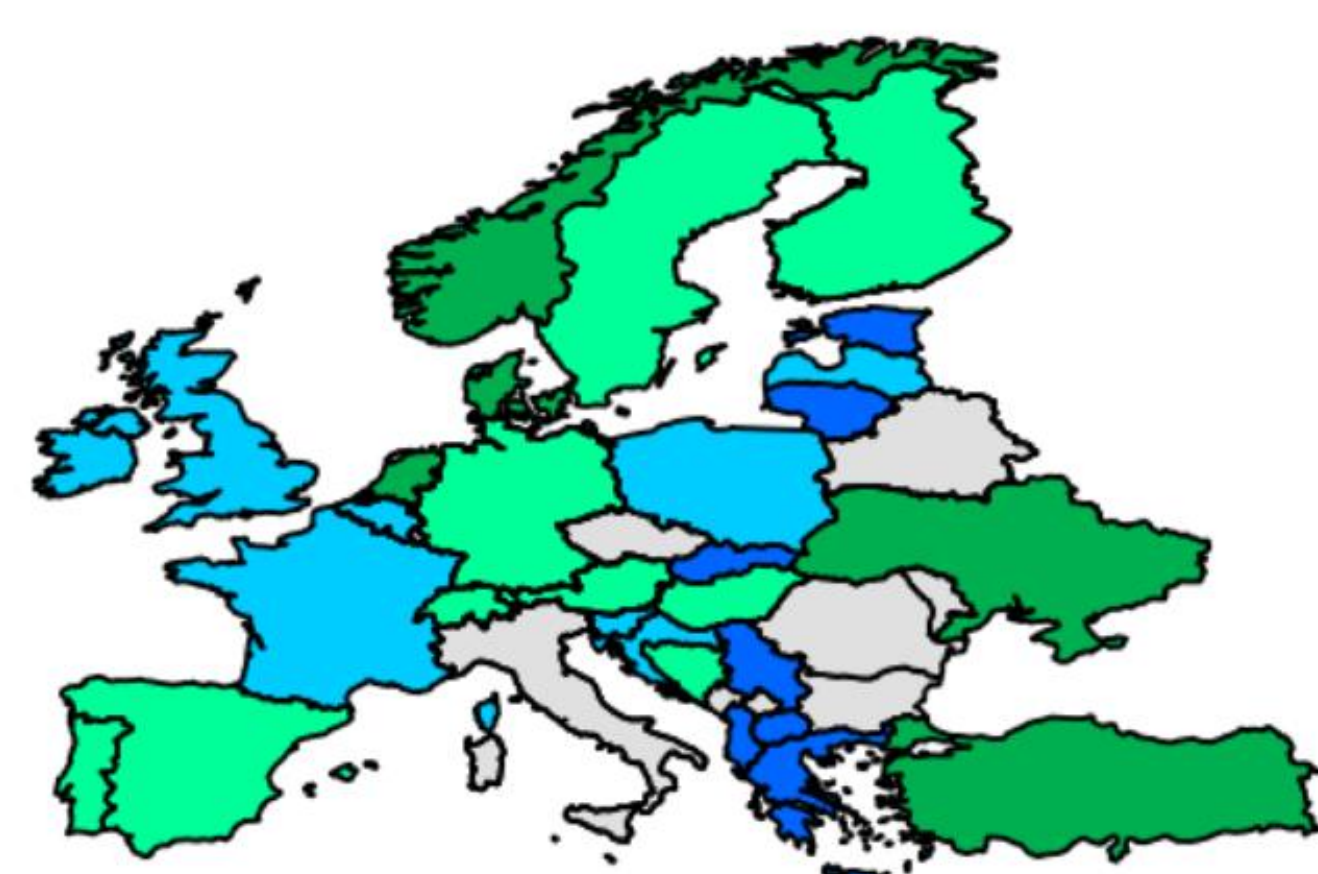
32 participating countries
More than 100 experts
5 working groups (WG)
Duration: 2018–2022

OUTPUT-BASED FRAMEWORK

- For standardized and objective comparison of different CPs
- Allowing to substantiate confidence of freedom and cost-effectiveness
 - Widely adoptable
 - Easy to apply by end users

WG1: CHARACTERISTICS OF EXISTING CONTROL PROGRAMMES

Number of control programmes per country



RESULTS

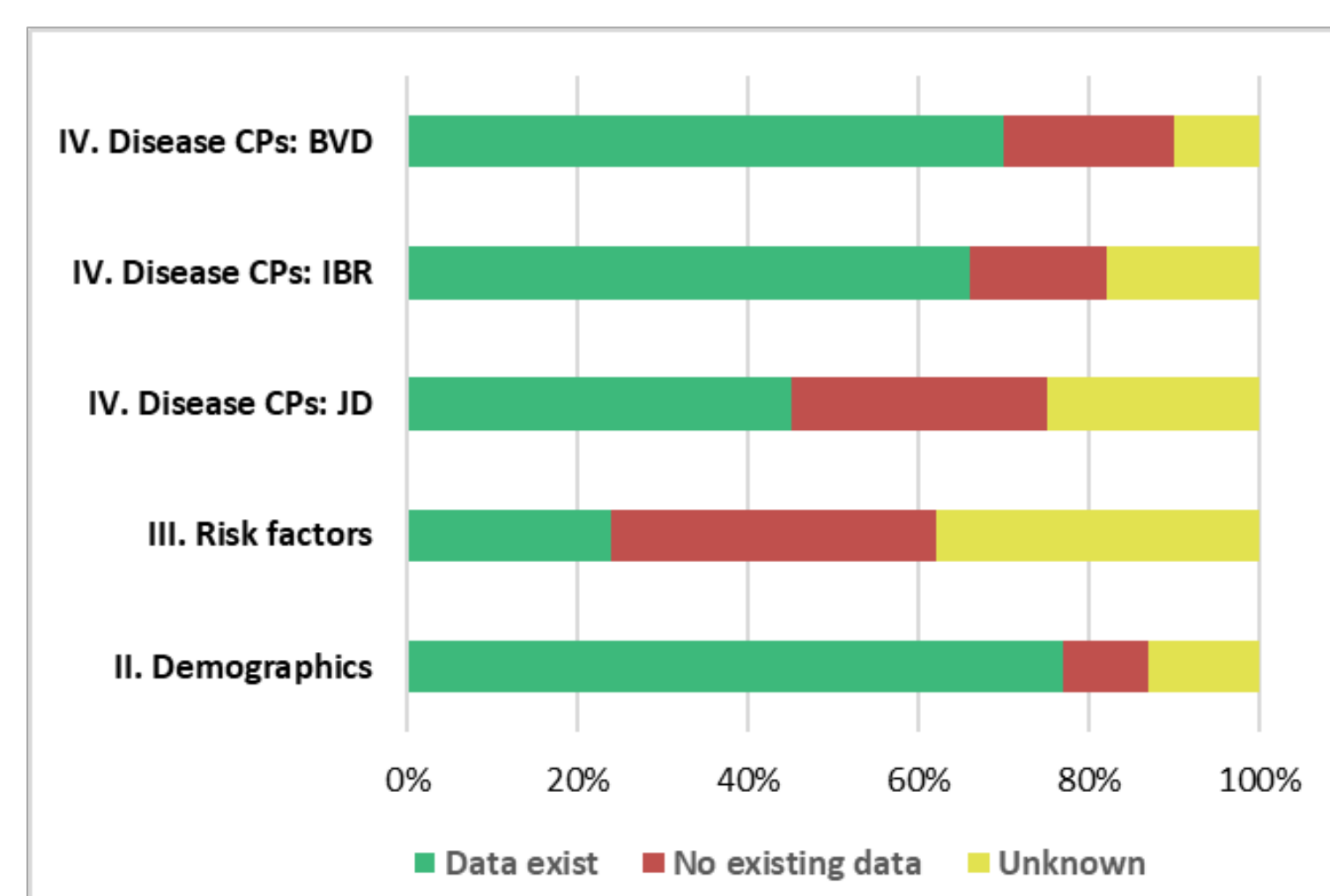
- An overview of non-regulated cattle diseases in the EU for which CPs are in place.
- Research Topics in Frontiers in Veterinary Science named *Global Control and Eradication Programmes For Cattle Disease*.



NEXT STEP

Create a handbook describing all the CPs of non-EU regulated cattle diseases

WG2: DATA REQUIREMENTS AND AVAILABILITY



RESULTS

- Determination of data needs.
- An overview of data availability and quality for each participating country.

NEXT STEP

Use voluntarily submitted quantitative data of SOUND control countries to test probability of freedom from disease with models developed by WG3.

WG3: EVALUATION OF EXISTING METHODS

Data collected and evaluated by WG2 with an online data collection tool

Model by WG3

Probability of freedom from infection in an output-based framework

WORK IN PROGRESS

Provide statistical justification that a country is free from infection, given the information provided by a surveillance programme in place.

NEXT STEP

To outline all the epidemiological and statistical considerations for substantiating freedom from infection in an output-based framework and present & evaluate methods with potential to use.

WG4: ADDRESSING THE KNOWLEDGE GAPS

WORK IN PROGRESS

Determination of information needs from output-based surveillance for different trade scenarios. Considering the application of a systems/socio-ecological approach to a disease control output-based framework.



NEXT STEP

WG4 will work within the SOUND control consortium and external stakeholders to develop a research agenda using a theory of change approach. This will have four components: current state, future state, gaps and research framework.

WG5: DISSEMINATION AND COMMUNICATION

Training school
Basic Concepts in
Epidemiology and Surveillance



RESULTS

- Training school "Basic concepts in epidemiology and surveillance", webinar "Evaluation of surveillance systems", SOUND control newsletters.
- Materials are available on our website and Youtube channel.

NEXT STEP

- Webinar on storytelling to encourage COST Action members' communication of the results with stakeholders.
- Webinars on results of SOUND control project.

FUTURE PLANS

The results of the different WGs are combined and both the gaps as well as the next steps in the development of output-based surveillance will be identified. Eventually, a joined research agenda for future research will be developed. The SOUND control results will be presented at the final SOUND control conference.

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