

COST BETTER T4.3

Mapping on biosecurity projects and trainings

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Goals, Materials & Methods

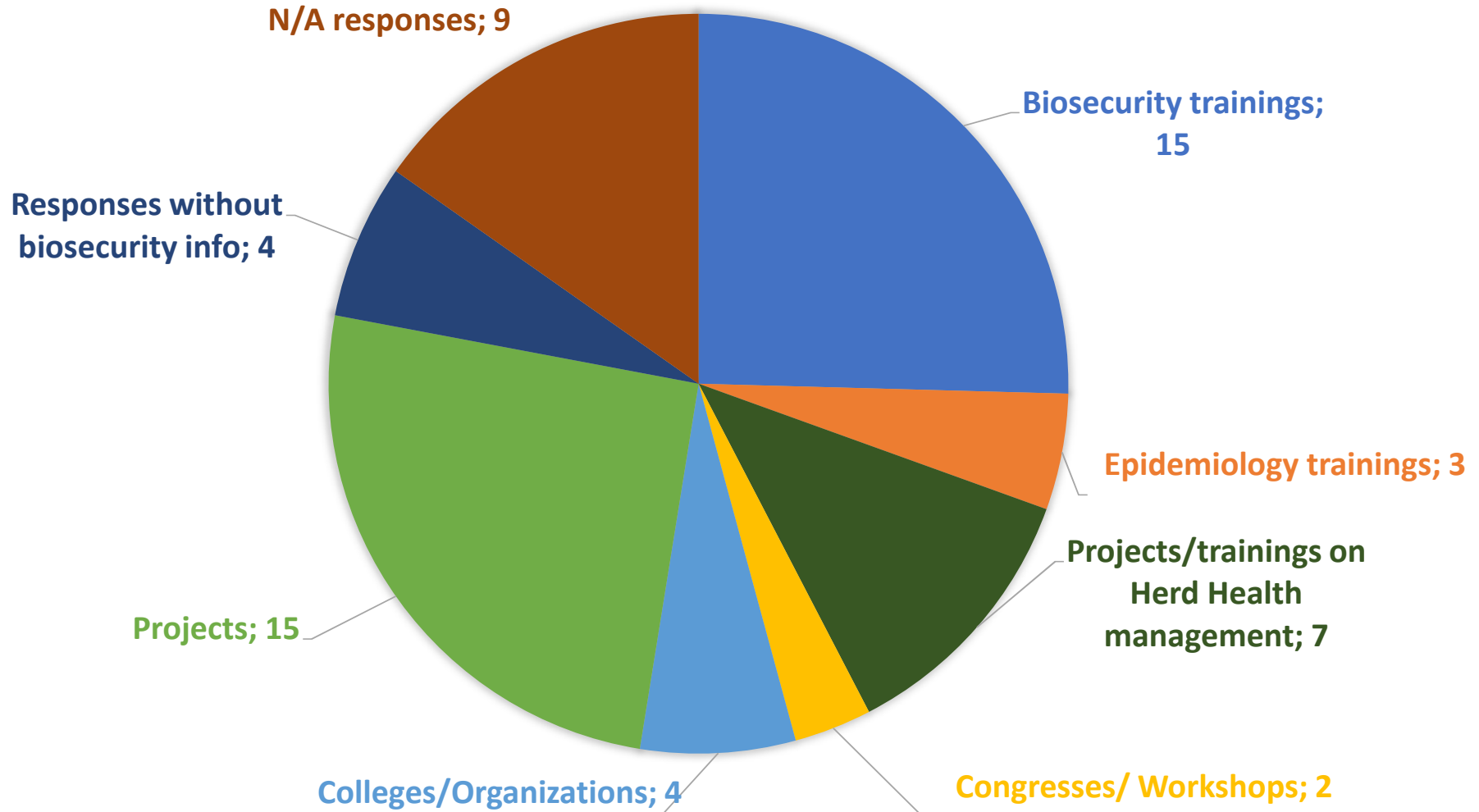
- **COST action BETTER Task 4.3 goal was to gather comprehensive data on existing biosecurity training programs and ongoing research projects through an online survey.**
- Criteria for categorization of the biosecurity training and webpages were created during WG4 meeting in Ghent (Saegerman et al., submitted).
- In the final stages of development, herd health management training and research projects related questions were added in cooperation with Federation of Veterinarians of Europe (FVE) organization.
- The survey was also translated into Albanian, German, Italian, Portuguese, Spanish and Turkish languages.
- Survey link with invitation letter was send to COST action BETTER members and shared through social media platforms (e.g., LinkedIn) starting from 11th July.
- Survey was closed on 2nd September 2023.

Data analysis- Methodology

- From the initial file with raw data, we removed all the answers that had no useful info regarding biosecurity trainings, projects or webpages, as also those with no info regarding herd health management (54 answers).
- Information provided by each answer was then searched using websearch engine "Google" and by using predefined criteria, additional information was collected from webpage, where possible.
- As many of the answers of the survey could not satisfy the criteria, we compartmentalized them in new categories, e.g., Epidemiology trainings, Congresses, Colleges etc. (22 answers).
- A second dataset was created, with all the information about webpages of the trainings, projects, etc., according to predefined criteria.
- **Biosecurity trainings or trainings including biosecurity sections: trainings, webpages with videos/ articles/ podcasts that referring as Biosecurity Training, from Universities or platforms or Institutions/ Organizations.**

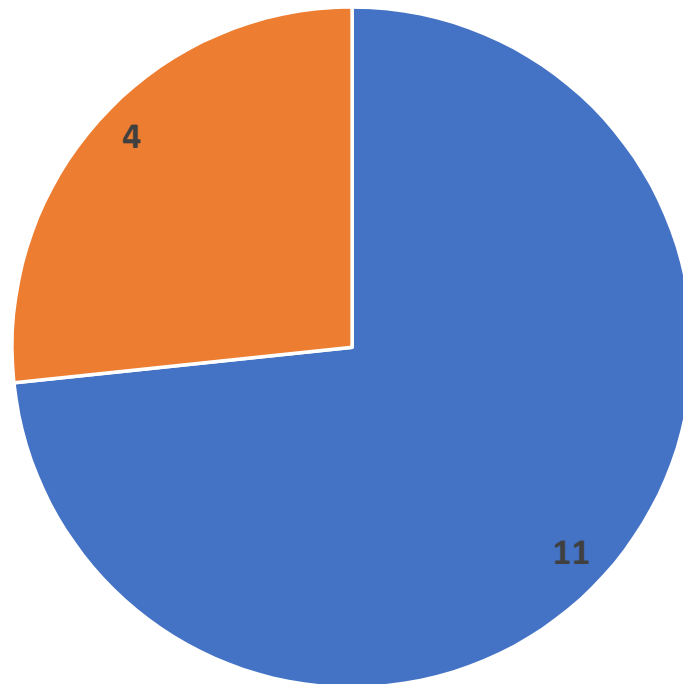
*111 out of 165 total responses to gather information

CATEGORIZATION OF COLLECTED DATA FROM RESPONSES TO THE SURVEY (N = 15)



Biosecurity trainings

Was training only focused on biosecurity?



■ Biosecurity ■ General training incl. biosecurity

What do we mean by general training incl. biosecurity??

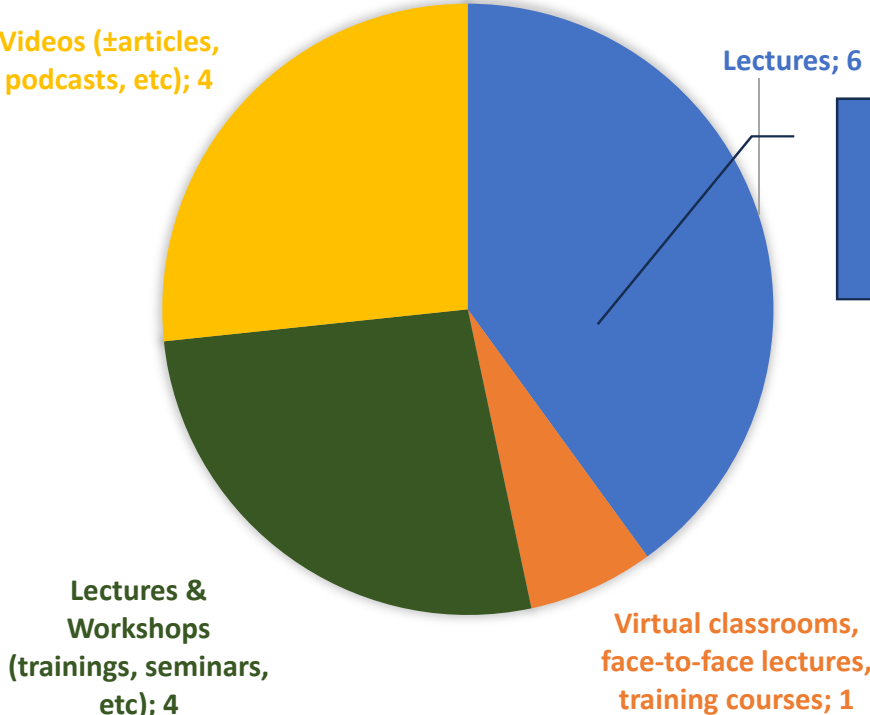
e.g. “Introduction to Foot-and-Mouth Disease” a course by FAO elearning Academy

- Lesson 1 – Significance: How important is FMD?
- Lesson 2 – Biosecurity: Starting with the end in mind**
- Lesson 3 – Diagnosis: Is this FMD?
- Lesson 4 – The disease: Identifying the source and transmission
- Lesson 5 – Leaving the farm: Don’t be a carrier!**
- Lesson 6 – Control strategies: What happens now?

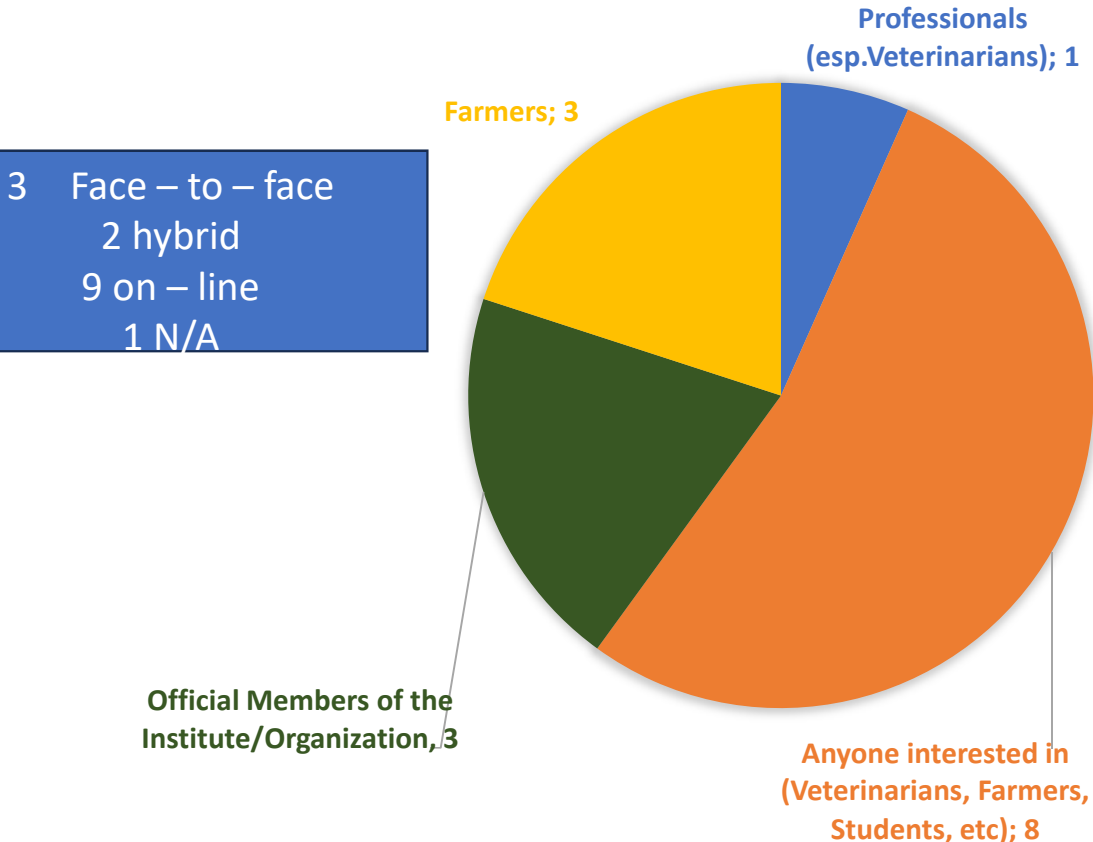
<https://elearning.fao.org/course/view.php?id=902>

Biosecurity trainings

EDUCATIVE TOOLS FOR TRAINING



WHO WAS THE TARGET AUDIENCE OF THE TRAINING?



3 Face – to – face
 2 hybrid
 9 on – line
 1 N/A

Biosecurity trainings

Which animal species is the training focus on?

Species	Number of trainings
Poultry	4
Swine	2
General Biosecurity/ Food Safety	2
Ruminants*	1
Dairy Cattle	1
Swine, Cattle, Poultry	1
Swine, Ruminant, Poultry, Equine	1
Swine, Ruminant, Poultry, Companion Animals	1
Swine, Ruminant, Poultry	1
Swine, Ruminant, Equine	1

5 multispecies

*ruminant: small & large

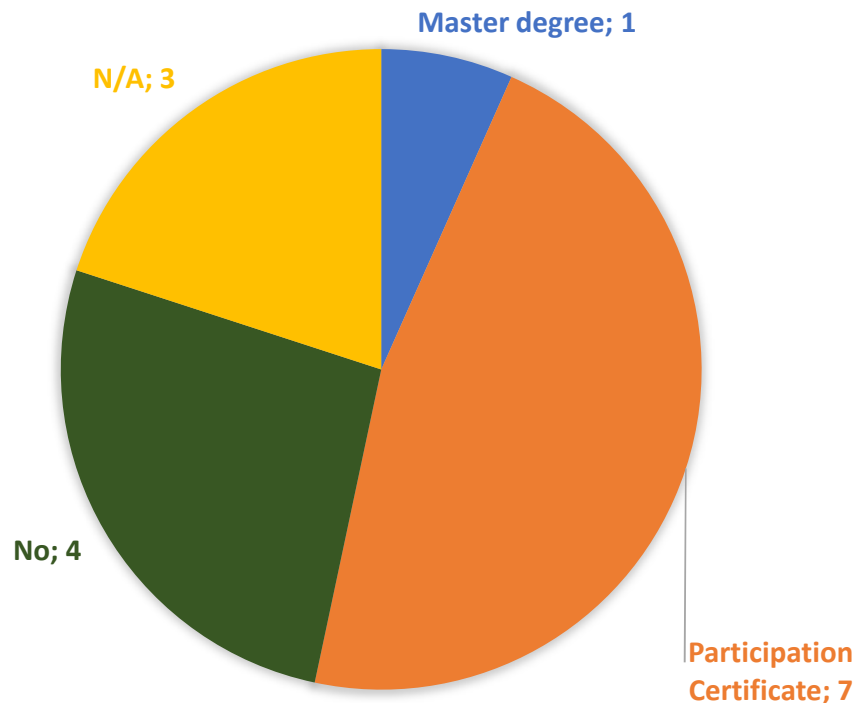
Biosecurity trainings

Learning Objectives

Training Content	Indicative Objectives
<p data-bbox="257 470 638 662">11/15 trainings had a curriculum available</p> <p data-bbox="11 726 660 965">Control of Foot-and-Mouth Disease General Biosecurity training Animal Disease Preparedness Targeted Advisory Service on Animal Health</p>	<ul data-bbox="683 367 2228 766" style="list-style-type: none"> • To provide for a common understanding of the current state of play of tools suitable to address emerging animal diseases (including zoonoses), and the related early reaction veterinary interventions. • To give the opportunity to the trainees to compare key elements of contingency plans and other preparedness elements elaborated by their respective Member States in order to identify and share best practices • To increase the efficacy of veterinary services in protecting the EU territory against the occurrence of emerging animal diseases <p data-bbox="683 790 2228 933">Bovine Viral Diarrhoea (BVD), Somatic Cell Counts (SCC), Johne’s Disease (JD), Infectious Bovine Rhinotracheitis (IBR), Parasite Control, TB Biosecurity Review, Biosecurity Review (Pigs), Tail-Biting Risk Assessment (Pigs), Biosecurity Review (Broilers and Layers – Poultry)</p> <p data-bbox="683 957 2228 1101">Terms, definitions and concepts. Developing and evaluating a biosecurity plan. Biosecurity principles and practices. Biosecurity practices and principles. Biosecurity practices and principles. Raising healthy poultry.</p> <ul data-bbox="683 1125 2228 1372" style="list-style-type: none"> • Importance of emergency preparedness for, and early detection of, FMD outbreaks. • Pathogenesis of FMD, clinical signs, routes of transmission and outbreak investigation. • Samples that should be collected to enable laboratory diagnosis of FMD. • Biosecurity principles to reduce the risk of transmission. • Control measures that would be applied in the event of an FMD outbreak

Biosecurity trainings

WHICH OF THESE WILL BE AWARDED TO THE PERSON WHO COMPLETES THE TRAINING:
CERTIFICATE/ DIPLOMA/DIGITAL BADGE /MICRO DEGREE / OTHER (PLEASE SPECIFY)



*The webpage of the master was out of order/ Master program was not found

Does this course award credits (ECTS)? (Yes/no) If yes then write the number of credits awarded

*Only one training- 25 ECTS
no info for the master degree

Does the training have Keywords (yes/no)? if yes, please provide them here

Only one

type of animal (broilers, breeders, layers, turkeys, ducks/fat-liver, ducks/ roasting, other). **Type of production** (conventional, free range/label, organic). **Category of document** (Document, video, podcast). **Language** (english, dutch, french, spanish, hungarian, italian, polish). **Date of completion. Geographical locations/ Type of document** (factsheet, technical/technology article)

Trainings on Epidemiology (3)

- Face-to-face
- From 4 weeks to 2 years
- Only for professionals (frontline)
- Pages in English/ training language N/A
- Level: intermediate, advanced
- Certificate or Master degree

CDC Centers for Disease Control and Prevention
 CDC 24/7. Saving Lives. Protecting People™

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Division of Global Health Protection (DGHP)

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Field Epidemiology Training Program

Field Epidemiology Training Program (FETP)

Print

Learn about FETP's work as we celebrate our 40th anniversary

<https://www.cdc.gov/globalhealth/healthprotection/fetp/index.htm>

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SHARE

Regional Field Epidemiology Training Program for Veterinarians (Southeast Asia)

Program overview

The Regional Field Epidemiology Training Program for Veterinarians (R-FETPV) in Thailand was developed in response to the avian influenza crisis in Thailand in 2004. The program was developed through close consultation with the Thailand Field Epidemiology Training Program (FETP), veterinary experts from the Department of Livestock Development, various universities, and the Food and Agriculture Organization of the United Nations for the most effective application of the FETP concept of "learning through providing services". The training provides a short course to ensure that trainees understand basic technical knowledge and are able to effectively apply it to their work.

Since 2009, the R-FETPV has been offered to veterinarians from several countries in the region. During the program, public and animal health professionals are trained and work together to respond to any possible zoonotic outbreaks. During this training period, information and experience-sharing among trainees of different professions and their organizations are strengthened.

graduates 117 founded 2009 member since 2018

VISIT THE PROGRAM WEBSITE

Details

<https://www.tephinet.org/training-programs/regional-field-epidemiology-training-program-for-veterinarians-southeast-asia>

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Frontline ISAVET: Training the First Line of Defense against Animal Diseases

13 January 2020
 By: Tina Rezvani, Communications Manager

Veterinary field epidemiologists are the first line of defense against animal diseases that can also affect humans. Following the well-established Field Epidemiology Training Program (FETP) model and the implementation of a veterinary training program (FETPV) across Asia, the Food and Agriculture Organization of the United Nations (FAO), in coordination and collaboration with its partners (including the United States Agency for International Development [USAID], the Institute for Infectious Animal Diseases, Texas A&M University, ministries of agriculture and/or livestock of target countries, and TEPHINET) is implementing the Frontline In Service Applied Veterinary Epidemiology Training (ISAVET) program in 14 countries in Africa.

The Frontline ISAVET program uses applied, hands-on, in-service training to build a cadre of skilled frontline veterinarians who can conduct effective surveillance and outbreak response under a One Health approach. In particular, ISAVET's implementation intends to address emerging infectious diseases and transboundary animal

Related

<https://www.tephinet.org/news/frontline-isavet-training-first-line-defense-against-animal-diseases>

To summarize...

We found:

- 15 Biosecurity trainings
- 3 trainings on Epidemiology, including Biosecurity
- 15 projects (European, National funding)
- 7 Herd Health Management projects/trainings

- ❖ A wide range of biosecurity training programs is available.
- ❖ These trainings vary in levels of complexity and depth.
- ❖ Dedicated biosecurity training options for veterinarians and professionals are relatively scarce.
- ❖ The majority of these training programs are conducted online.
- ❖ The information gathered offers valuable insights for the development of new biosecurity training courses.



Thank you!!