



**IZSAM G.CAPORALE
TERAMO**

Advanced training on food safety: approaches, methods and tools of IZSAM

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IZSAM, Training Unit





✓ 90s: Training Unit

✓ 2004: Oie Collaborating Centre for Veterinary Training, Epidemiology, Food Safety and Animal Welfare

✓ 2010: CIFIV (International Centre for Veterinary Training and Information)

- To promote the **exchange of knowledge** among professionals (e.g. veterinarians, biologists, technicians) coming from the **Balkan** and **Mediterranean Area**
- To **harmonise** the application of **EU** regulations and **OIE** international standards



International Centre for Veterinary Training and Information (CIFIV)



Teramo

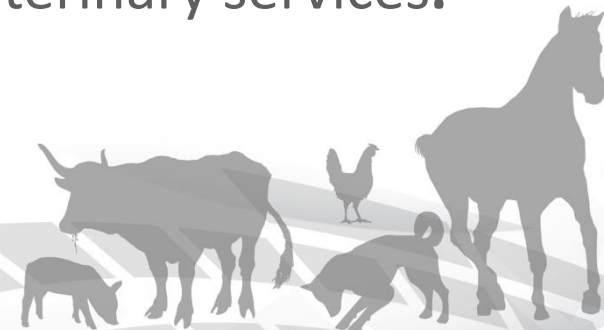


Torre di Cerrano




25 years of international training activities

- In the last two decades, IZSAM has invested consistently on:
- ✓ testing **innovative training methods**
 - ✓ developing learning programmes and
 - ✓ validating training management models able to **respond** to the ever-changing and constantly increasing **demand for capacity building** at international level, mainly for official veterinary services.



Quality standards

- 
- ✓ UNI EN ISO 9001:2015
 - ✓ Risk based thinking approach
 - ✓ Failure Mode Effect Analysis (FMEA)



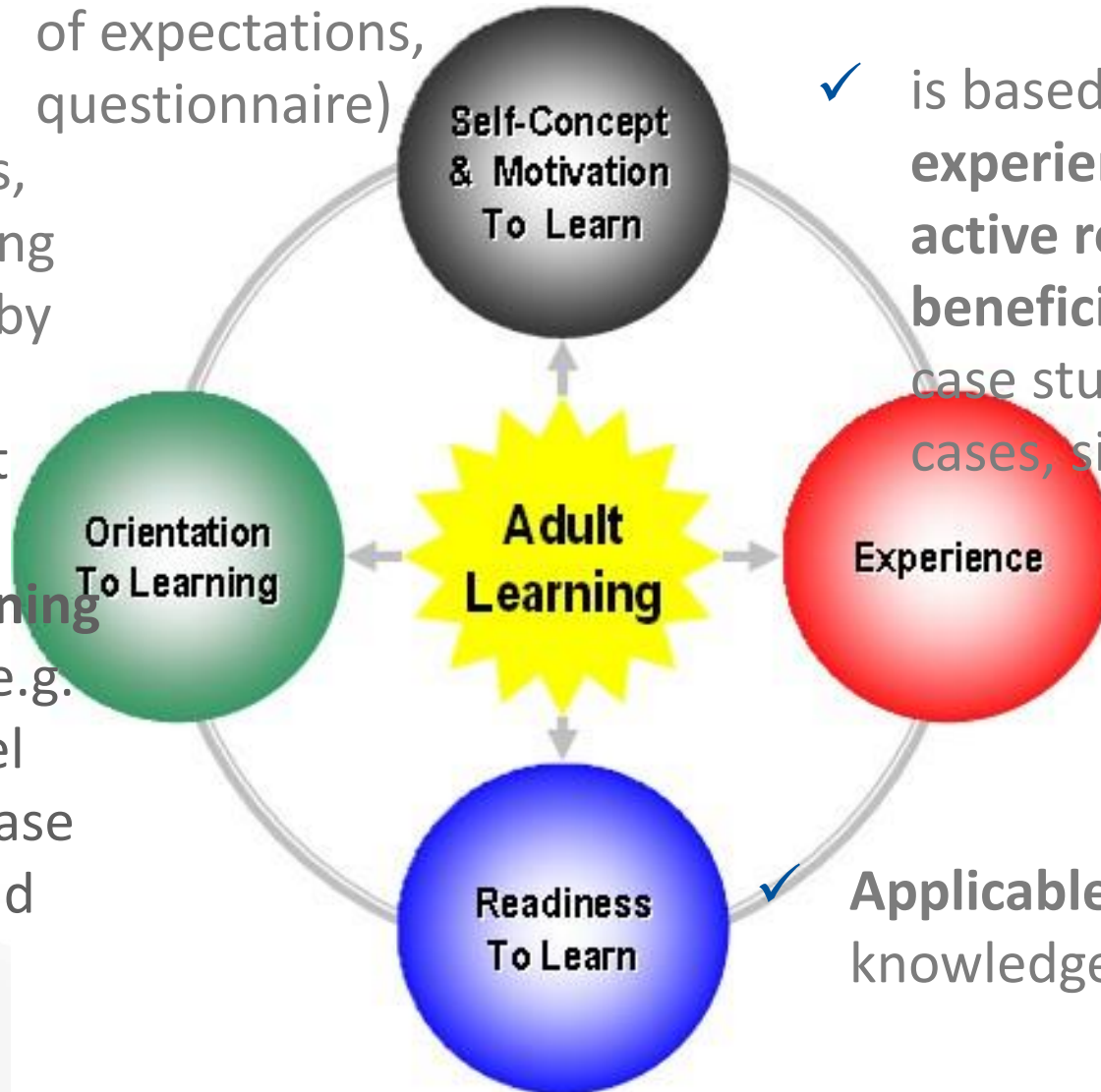
Courses methodology

✓ considers **learning needs** (e.g. analysis of expectations, questionnaire)

✓ is based on **experience** and **active role of beneficiaries** (e.g. case studies, real cases, simulations)

✓ **real situations**, problem solving (not learning by heart)

✓ considers that adults have **different learning approaches** (e.g. lectures, panel discussions, case studies, In field visits, simulations)



✓ **Applicable knowledge**





Training areas



IZSAM G. CAPORALE
TERAMO

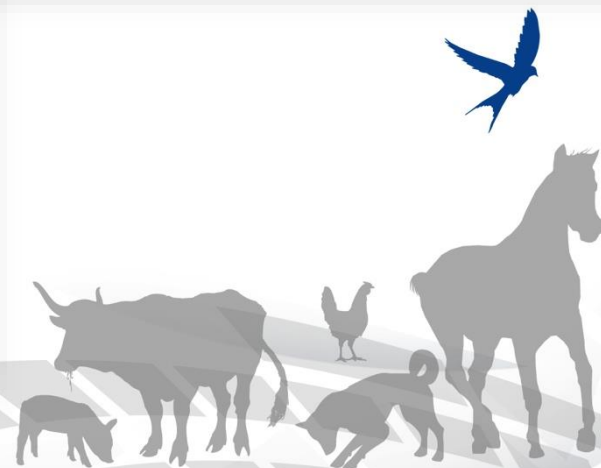
Internal



National



International



Class training

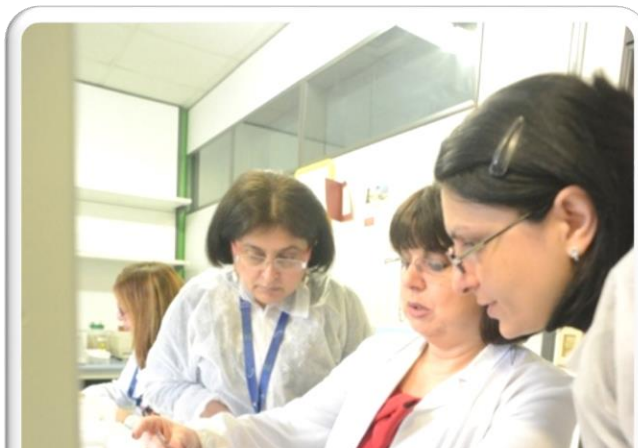
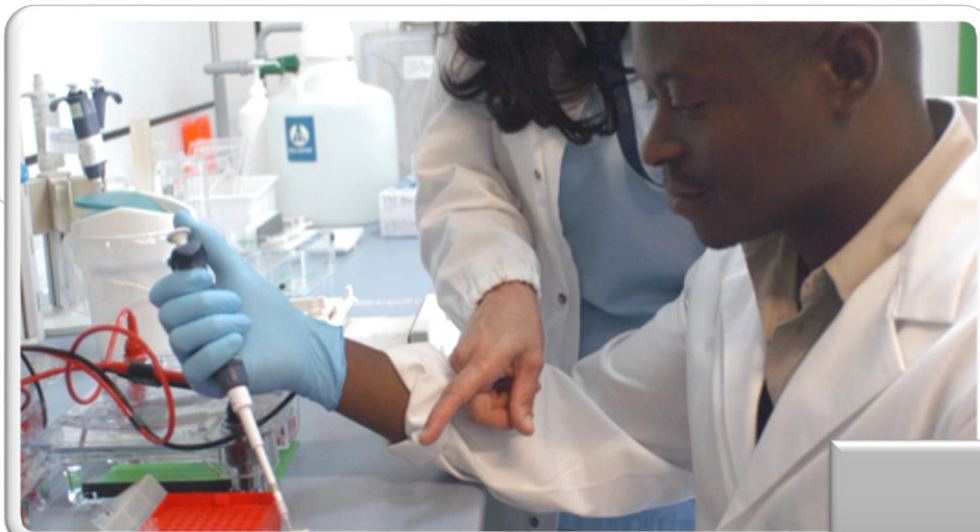


BTSF Residential Training courses

Since **2007** until today, IZSAM has been provider of the EU Commission for the organisation of **BTSF** training courses on official controls in BIPs, FNAO products, zoonoses and AW.
60 Courses, **3106** participants trained.



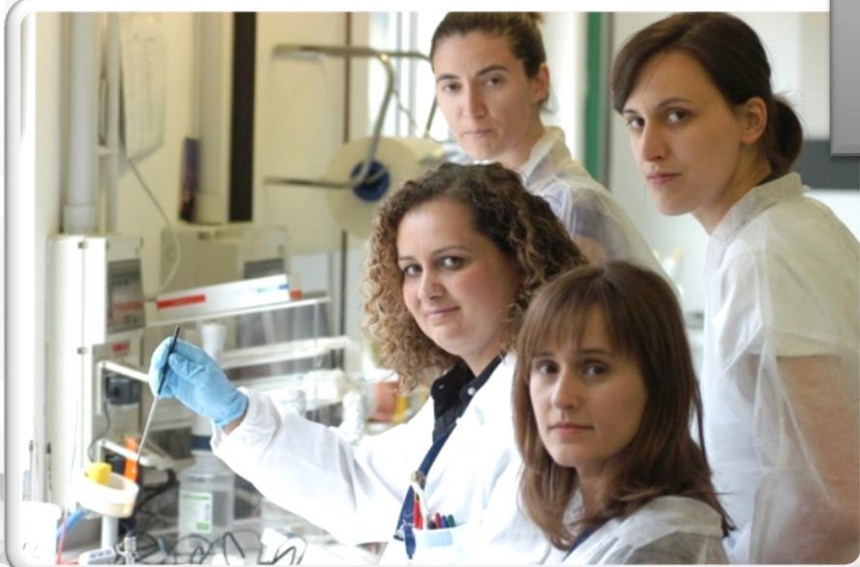
Lab training



2010-2017:

492 people

Mainly from: IO (e.g. IAEA), CAs, Research Institutes, and Universities



Capacity building



Training and international cooperation



To promote a sustainable development

✓ *A good trainer is someone who should
become unuseful*



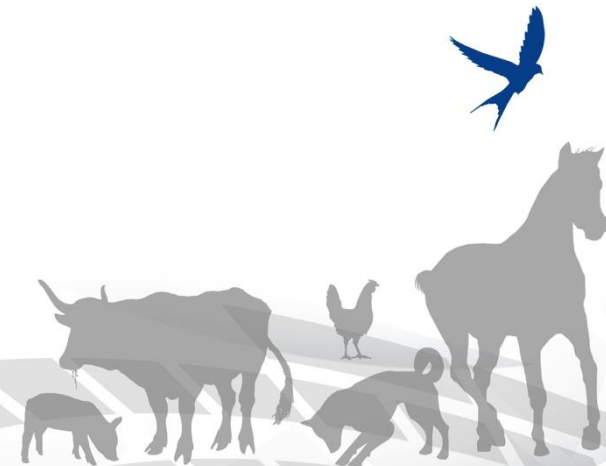


Twinning Projects

15 OIE Twinning projects on Animal welfare, Bluetongue, Brucellosis, Camel diseases, CBPP, Food Safety, WND in Azerbaijan, Brazil, Kazakhstan, Lebanon, South Africa, Turkey, United Arab Emirates, and Zimbabwe



18 EU Twinning projects in Algeria, Croatia, FYROM, Lithuania, Malta, Montenegro, Poland, Romania, Slovak Republic, Slovenia, Tunisia, and Ukraine





Courses funded by
the Italian Ministry
of Health




Courses funded by
the EU Commission



Ministero della Salute



Food and feed sampling for official control

- 
- ✓ Devoted to official veterinarians and other professionals of the National Competent Authorities involved in food safety control activities in Italy.
 - ✓ The modules concern: sampling methods for microbiological control of food and feed; sampling methods for chemical control of food and feed; sampling methods for microbiological control of food processing surfaces; sampling methods for microbiological control of carcasses in slaughterhouses.



Menu

Riepilogo dei criteri microb...
Mettili alla prova
Il Campione parte di un tutto
Frequenza di campioname...
Corretta procedura di cam...
Protocolli operativi
Distribuzione dei contamin...
Categorie di alimento da pr...
Caratteristiche dell'alime...
Cosa non deve accadere
Luogo di prelievo del camp...
Kit per il prelievo
Materiale per il campionam...
Materiale necessario all'es...
Strumenti prodotti solidi ...
Strumenti prodotti liquidi ...
Strumenti prodotti in pol...
Principali norme igieniche
Buone pratiche di campion...
Tipologia dei campione da ...
Campionamento in stabili...
Fasi operative dei campioni...
Quantità di materiale da ...
Quantità di materiale da ...
Aliquote
Deteriorabilità della m...
Identificazione dell'all...
Campionamento di ali...
Campionamento di ali...
Campionamento di ali...

Modulo II: Campionamento microbiologico

Bibliografia | Allegati | Stampa | Credits

Argomento 1:
Metodi di campionamento per il controllo microbiologico di alimenti e mangimi

Trasporto dei campioni

Il trasporto in laboratorio deve avvenire nel minor tempo possibile e non oltre le 24 h tenendo sotto controllo la temperatura e l'integrità del campione. Tenendo i prodotti refrigerati sotto 8 gradi centigradi e congelati a -15 gradi centigradi.

La temperatura dei molluschi vivi deve essere registrata immediatamente dopo il prelievo. La temperatura tra 0 e 10 gradi centigradi deve essere raggiunta entro 4 ore dal campionamento e mantenuta per 24 ore. La superficie dei campioni non deve venire a contatto con il ghiaccio. Tali campioni non vanno congelati.



I campioni devono essere mantenuti durante il trasporto (dal momento del prelievo alla consegna al laboratorio) alle temperature previste dalla norma ISO 7218:

- alimenti congelati fra -15° C e -18° C
- prodotti refrigerati fra +1° C e 8° C
- prodotti stabili conservare a temperatura ambiente (meno di + 40° C)

49/52

Riepilogo
Fine

PREC SUCC



Veterinary equivalence agreements with the USA (VEA) for the export of red meat, poultry meat, meat and egg products



Modulo 01

Gli Accordi di Equivalenza Veterinaria (VEA) nel commercio internazionale degli alimenti

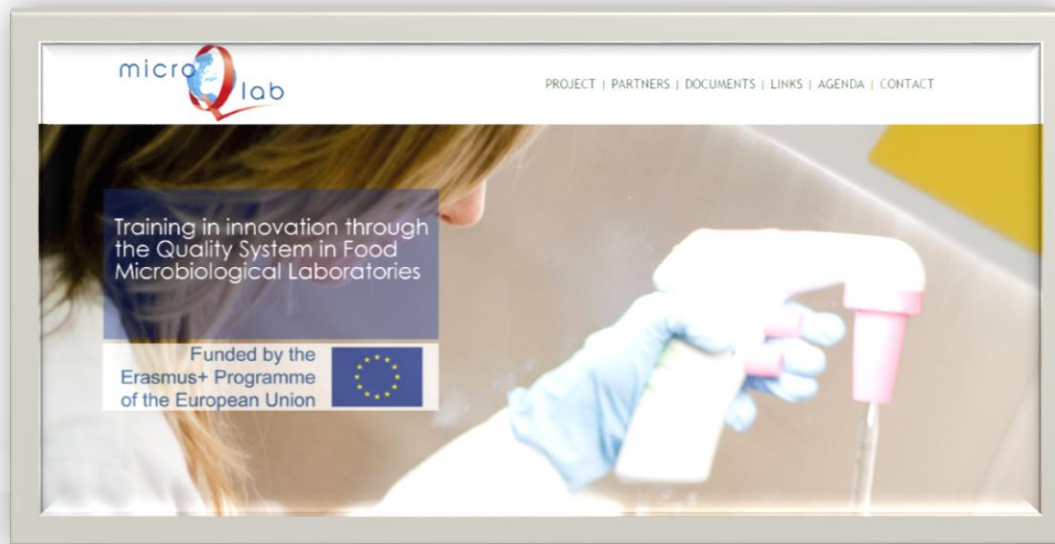




Training in innovation through the Quality System in Food Microbiological Laboratories (MicroQlab)



E-learning course on Quality management in food microbiological laboratories, to transfer technicians and researchers the skills needed for implementing and managing a **quality system** according ISO 17025.



www.microqlab.eu



ZOE - ZoonosesOnlineEducation

Online courses with videos for the field of veterinary communication dealing with prevention, diagnosis and treatment of diseases transferable from animals to humans

The EU Erasmus + project aims to create open digital educational resources in the field of veterinary medicine based on developing innovative guidelines on zoonotic diseases study and veterinary, medical, pedagogical, linguistic and raise awareness intervention related to identify, monitor and control malaria and dirofilaria, useful for the academic, professional and general beneficiaries.

PARTNERSHIP			
<p>ROM</p> <ul style="list-style-type: none">  University of Veterinary Medicine Ion Ionescu de la Brad www.uivb.ro  University of Medicine and Pharmacy Grigore T. Popa www.umfcluj.ro  University Alexandru Ioan Cuza www.ucluj.ro  Fundatia Euroed www.euroed.ro 			
<p>CRD</p> <ul style="list-style-type: none">  University of Zagreb Faculty of Veterinary Medicine www.vet.unizg.hr 	<p>Contact us zoeproject2016@gmail.com</p>		<p>ZOOZOSES ONLINE EDUCATION WWW.ZOEPROJECT.EU</p>
<p>LIT</p> <ul style="list-style-type: none">  University of Applied Sciences Vilnius www.viko.lt  Soros International House www.sih.lt 	<p>Visit Us www.zoeoproject.eu</p>		<p>Online courses with videos for the field of veterinary communication dealing with prevention, diagnosis and treatment of diseases transferable from animals to humans</p>
<p>ITA</p> <ul style="list-style-type: none">  Istituto Zooprofilattico Spresimense dell'Abruzzo e del Molise "G. Caporale" di Teramo www.izs.it  Pini Associazione Culturale www.pini-online.net  Connect www.connectweb.com 	<p>Follow Us</p> <ul style="list-style-type: none"> ZOE Zoonoses Online Education @zoeproject2016 		<p>Disclaimer</p> <p>The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.</p>
<p>Erasmus+ Programme Strategic Partnerships for higher education Ref. no.: 2016-1-RO01-KA203-024732</p> 			

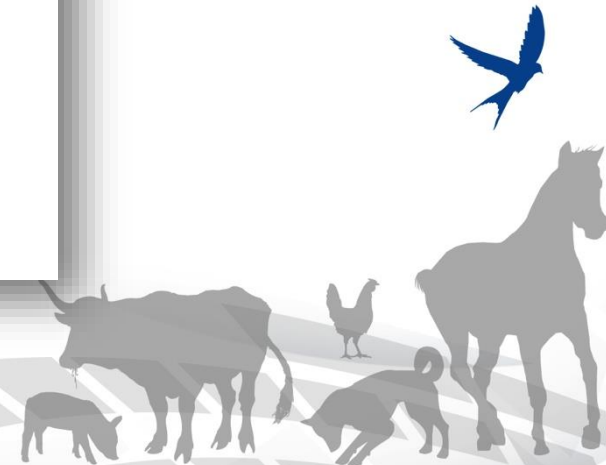
BTSF eLearning Campus

In order to address the **huge demand** for training, two e-learning pilot projects were launched, with the aim of develop **10 basic knowledge level e-learning modules**.



The screenshot shows the homepage of the BTSF e-learning Campus. At the top left is the European Commission logo. The main header reads "Better Training for Safer Food BTSF e-learning Campus". A language dropdown menu is set to "English (en)". The page is divided into several sections:

- NCPs/NCAs Area:** A section reserved for invited National Contact Points / National Competent Authorities. It includes a "Reserved Area" link.
- Latest news:** A news item dated 27 Apr 12:20 titled "Die IV Ausgabe des eLearning Moduls 'Verordnungen Lebensmittelkontaktmaterialien' startet heute" (The IV issue of the eLearning module 'Regulations of food contact materials' starts today). It includes a link for "Older topics ...".
- Calendar:** A calendar for April 2015, showing the days of the week and the dates 1, 2, 3, and 4.
- Food Contact Materials rules:** A large image collage featuring various food items and packaging, with the text "Food Contact Materials rules" overlaid.
- Text description:** A paragraph stating: "The BTSF programme is designed to train staff of EU Member States' Competent Authorities involved in official control activities with the aim to keep them up-to-date with all aspects of EU Laws in the areas specified above and ensure with this that controls are carried out in a uniform and adequate manner in all Member States."



BTSF eLearning Campus

1. Animal Welfare at slaughter and killing for disease control
2. Prevention, Eradication and Control of Transmissible Spongiform Encephalopathies (TSE)
3. **Principle of Hazard Analysis and Critical Control Point audits (HACCP)**
4. **Rapid Alert System for Food and Feed (RASFF)**
5. **Food Contact Materials rules (FCM)**
6. Animal Welfare at slaughter and killing for disease control for poultry
7. Animal nutrition
8. Animal health prevention and controls for Aquaculture animals
9. EU plant quarantine regime for imports
10. **Food hygiene and control on fishery products and Live Bivalve Molluscs**

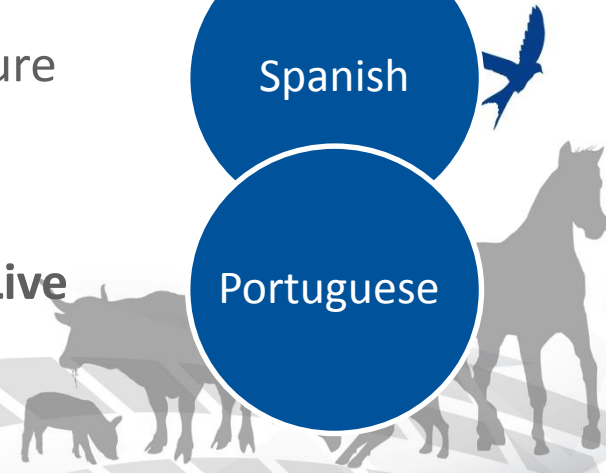
English

French

German

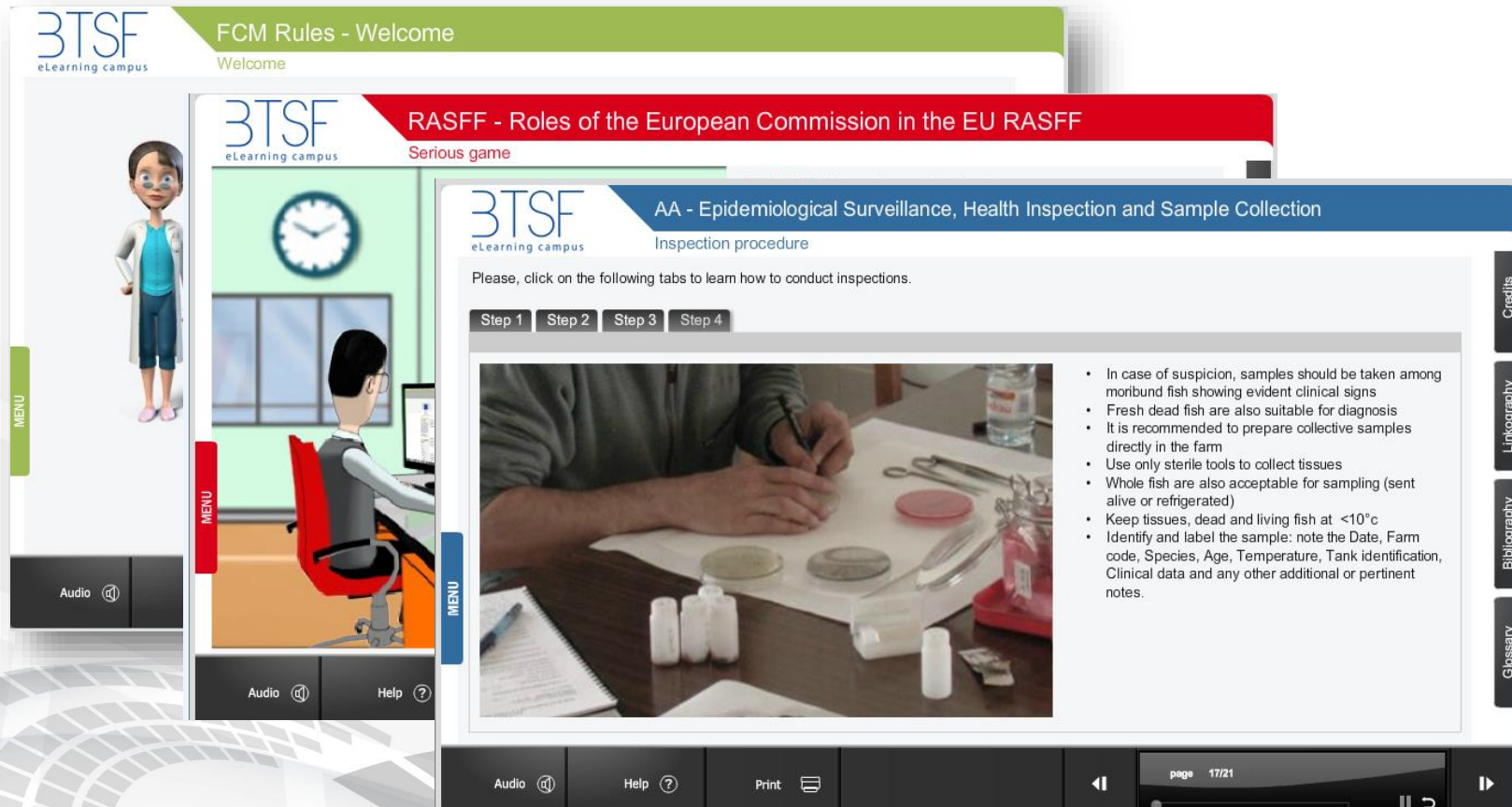
Spanish

Portuguese



Learning Management System (LMS)

- The eLearning platform was implemented in Moodle
- Adoption of 3D Mascots, interactive screens, serious games,...



The screenshot displays the BTSF eLearning campus interface. The main content area shows a course titled "AA - Epidemiological Surveillance, Health Inspection and Sample Collection" with the sub-section "Inspection procedure". A video player shows a person in a lab coat working at a desk. To the right of the video, a list of instructions is provided:

- In case of suspicion, samples should be taken among moribund fish showing evident clinical signs
- Fresh dead fish are also suitable for diagnosis
- It is recommended to prepare collective samples directly in the farm
- Use only sterile tools to collect tissues
- Whole fish are also acceptable for sampling (sent alive or refrigerated)
- Keep tissues, dead and living fish at $<10^{\circ}\text{C}$
- Identify and label the sample: note the Date, Farm code, Species, Age, Temperature, Tank identification, Clinical data and any other additional or pertinent notes.

The interface includes a navigation menu on the left with "MENU" and "Audio" buttons, and a vertical sidebar on the right with "Credits", "Linkography", "Bibliography", and "Glossary" buttons. The bottom of the screen features a footer with "Audio", "Help", "Print", and "page 17/21" indicators.



2014 – 2017 Courses

Over
360 course
editions

Participation worldwide

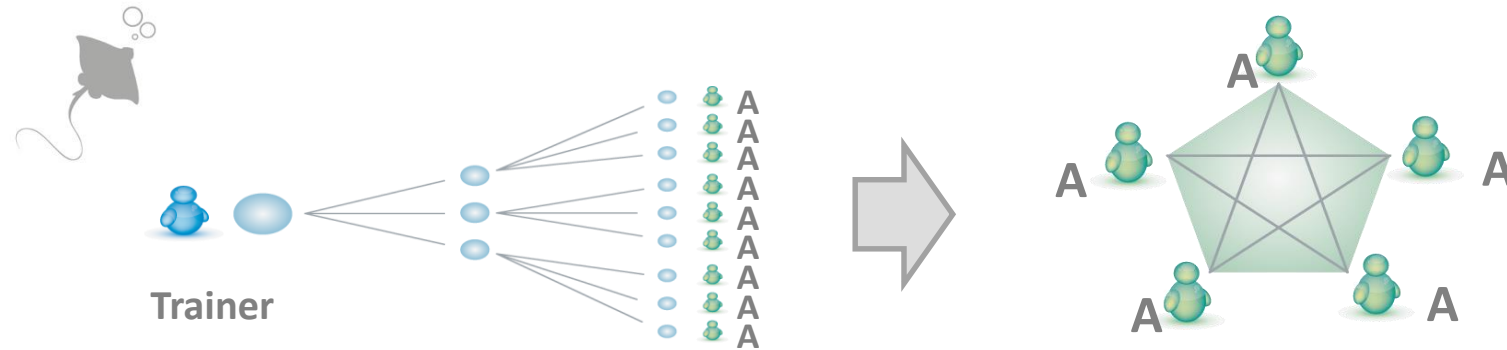
Over
80 countries
worldwide

People

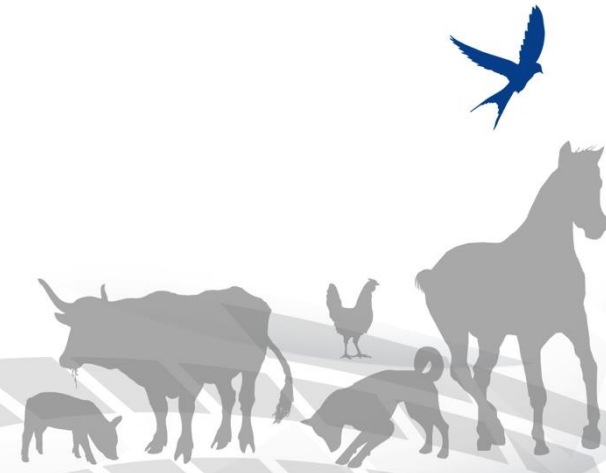
Over
27.000
participants



Web-based knowledge management



- ✓ share knowledge
- ✓ involve veterinarians in innovation processes
- ✓ strengthen collaboration
- ✓ multidisciplinary
- ✓ multisectorial
- ✓ interprofessional networks



Web-based knowledge management

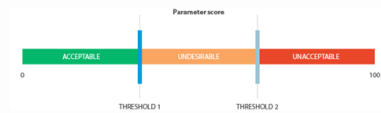
Cattle - Heifers in calf & cows

Thank you for offering to help us to set animal welfare standards for 'Welfare Plus' transportation of Cattle - Heifers in calf & cows.

DEFINITIONS

For the definitions of the parameters and an indication of minimum, median and maximum values derived from our pilot study, please click [here](#).

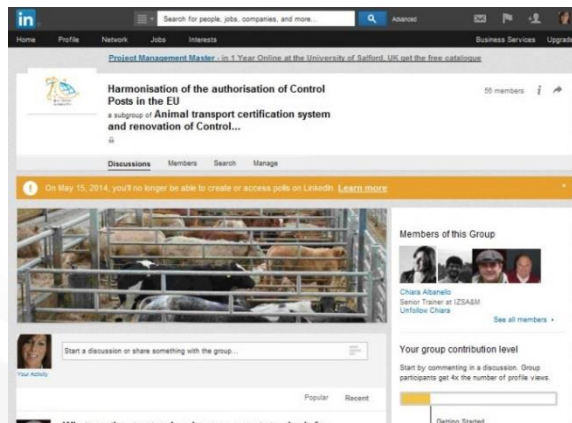
SCHEMATIC PRESENTATION



We want to identify the threshold values between acceptable and undesirable (threshold 1) and between undesirable and unacceptable (threshold 2) for each parameter. Any value lower than the threshold for undesirable is considered acceptable.

As a reference for the participants the minimum, maximum and median values for parameters of the assessments done for the Control Posts II project will be presented.

PHASE A

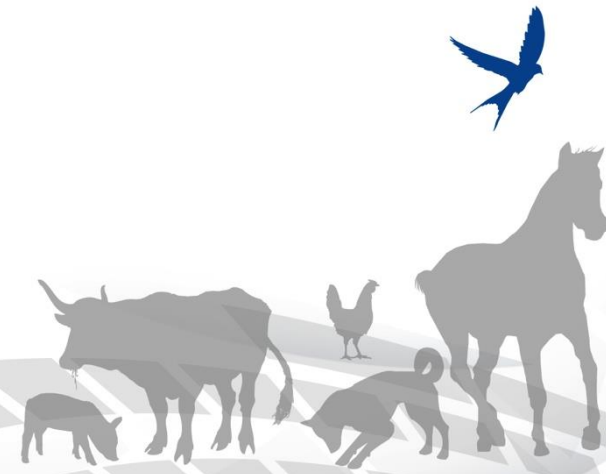




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Thank you!

