

# WOAH Collaborative Centre Reports Activities 2023

## Activities in 2023

This report has been submitted : 12 juin 2024 15:32

### Centre Information

<b>Title of WOA Collaborating Centre</b>	Veterinary Training and Capacity Building
<b>Address of WOA Collaborating Centre</b>	Via Campo Boario 64100 Teramo ITALY
<b>Tel.:</b>	+39 0861 33.27.22
<b>E-mail address:</b>	s.dalbenzio@izs.it
<b>Website:</b>	www.izs.it
<b>Name Director of Institute (Responsible Official):</b>	Nicola D'Alterio
<b>Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</b>	Silvia D'Albenzio, WOA Contact Point
<b>Name of the writer:</b>	Silvia D'Albenzio, Annalisa Falconi, Ombretta Pediconi, Francesca Pompei

### TOR1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Training, capacity building (true)	WOAH Twinning project for Bluetongue between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Instituto Biologico of Sao Paulo, Brazil (2017-2023)	IZS-TERAMO as WOA Reference Laboratory for Bluetongue provided support to the Brazil's Candidate Institute to enhance capacity and improve scientific capabilities in relation to diagnosis and surveillance of Bluetongue. The main goal of the project is to improve the technical knowledge and skills of IB-SP's staff, to support the IB-SP in the process that eventually lead to acquire the status of WOA reference laboratory for Bluetongue. This activity involved also the following technical areas: disease control, food safety, epidemiology, surveillance, risk assessment, modelling.
Training, capacity building (true)	WOAH Twinning between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and the Republican Veterinary Laboratory of Azerbaijan (2017-2023)	The World Organisation for Animal Health (WOAH) supported a Twinning Project between the Ministry of Health of Italy, through the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" (IZS-TERAMO), as WOA Collaborating Centre for Veterinary Training, Epidemiology, Food Safety and Animal Welfare and the Republican Veterinary Laboratory (RVL) of Azerbaijan. The project aims to improve technical knowledge and skills of RVL staff, to enable RVL to become a reference laboratory for

		<p>food safety and eventually to acquire WOAH Collaborating Centre status. This activity involved also the following technical area: food safety.</p>
<p>Training, capacity building (true)</p>	<p>Organisation and implementation of training activities on animal welfare on the farm, animal welfare at the time of killing of animals (at slaughterhouses and for disease control purposes) and animal welfare during transport under the "Better Training for Safer Food" initiative (2017-2023)</p>	<p>WOAH-CC-IZS Teramo has been entrusted in December 2017, in partnership with Università degli Studi di Milano, for the organisation and implementation of training activities on animal welfare on the farm, animal welfare at the time of killing of animals (at slaughterhouses and for disease control purposes) and animal welfare during transport under the "Better training for Safer Food" Initiative. After a first two-year phase (2018-2019), a second two-year cycle has been approved by the EU Commission with the aim to develop best practices and compliance with the EU and international standards in the animal welfare field. Bringing together participants belonging to National Competent Authorities of Member States, Candidate and Non-EU countries, this project contributes to increase the compatibility of procedures and practices across the EU and to allow exchange between them. Due to the COVID-19 pandemic, the force majeure status was declared, a 72 month Contract extension was approved as well as the possibility to Face-to-Face (F2F) trainings with Virtual Classrooms (VC). During the second phase, the global attendance was of 593 trained participants (484 in the VC sessions and 109 in F2F trainings). For VC, specific pedagogical videos and relevant training materials have been also designed. This activity involves also the following technical area: Animal Welfare.</p>
<p>Training, capacity building (true)</p>	<p>WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZS-TERAMO) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)(2020-2023)</p>	<p>A WOAH Twinning project in the field of Animal Welfare has been designed, presented and approved in 2020. It will be implemented between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" (Parent Institute) and the École Nationale de Médecine Vétérinaire (ENMV) in Sidi Thabet (Candidate institute). IZS Teramo will provide support to the North African candidate institute to enhance capacity and improve scientific capabilities in relation to animal welfare. Over a thirty-six month period, this Twinning project will focus on the Section 7 of the WOAH Terrestrial Animal Health Code and - in particular - on the slaughter of animals, killing of animals for disease control purposes, animal transport by land, and stray dog population control. The main goal is to improve the technical knowledge and skills of the Candidate Institute staff, to support the ENMV in the process that will eventually lead to acquire the status of WOAH Collaborating Centre for Animal Welfare. After the project approval, due to the Covid19 pandemic, IZS TERAMO and ENMV work together to introduce innovative approaches to carry out the activities adopting web-based tools to work at distance. After the activities carried out in 2021 and 2022 (kick off meeting, preliminary assessment visit and 3 training courses), in September 2023 two training courses aimed to ENMV and DGSV personnel were carried out at IZSAM in Teramo, one on animal welfare during depopulation for disease control, involving also Lotta Berg from SLU/SCAW, and another one on dog population management, with particular reference to the current situation in Italy. A whole week in October was then dedicated to dog</p>

		<p>population management in Tunisia and to deepen knowledge of the new WOA standard on this issue. This activity involves also the following technical area: Animal Welfare.</p>
Training, capacity building (true)	<p>CONTRAT DE JUMELAGE n° ENI/2022/433-530 Renforcement du dispositif national d'encadrement vétérinaire de la santé animale – TN 18 ENI AG 01 21 (2022-2025)</p>	<p>The specific objective of the twinning among IZS-Teramo (Italy) and the Ministry of Agriculture of France and Tunisia is to strengthen the Tunisian national health system. In the framework of this initiative different missions have been carried out aiming at: - the Diagnosis and construction of a tool (such as a questionnaire) designed to identify the managerial and technical training needs of Veterinary Services (Tunis, 9-12 January 2023 + 1 day remotely (2 February 2023) - The Validation of the questionnaires drawn up (see above); Suggest methods for managing a training system (online, 6-8 Mars 2023) - the analysis of responses to the training questionnaires and presentation of the methods for managing a training system (Tunis, 2 – 5 May 2023) - the building and validation of the operational structure of a multi-year training plan (Tunis, 17-21 July 2023)</p>
Training, capacity building (true)	<p>EU support to capacity building and gradual Union acquis alignment in the Food safety sector in Bosnia and Herzegovina Twinning number: BA 18 IPA AG 01 (2020-2023)</p>	<p>IZS-TERAMO, together with IZSUM, is representing Italy as Junior Member State in the Consortium led by the Food and Veterinary Service of the Republic of Lithuania (SFVS) and involving also the Ministry of Agriculture and the National Food Chain Safety Office (NÉBIH) of the Republic of Hungary. The specific objective of this initiative is to provide for efficient legislation, gradually aligned with Union acquis, and its effective implementation, as well as consolidated procedures related to the official controls across the policy area, in order to ensure consumer health protection are all part of the overall food safety system. Fulfilling preconditions for control, monitoring and traceability through whole food chain have become key challenge and preconditions for food export. Establishing a system for monitoring and proving quality and safety of food requires considerable personnel, material and financial resources, as well as establishing the legal framework as well as functioning mechanisms and institutional capacities for its implementation. This activity involves also the following technical area: food safety.</p>
Training, capacity building (true)	<p>MediLabSecure3. Preventing biological risks increased by environmental and climate change in the Mediterranean, Black Sea and Sahel regions by strengthening a structured, inclusive and institutionalized One Health approach</p>	<p>The MediLabSecure project, funded by EU through the CBRN excellence initiative, aims to strengthen a network of laboratories and health institutions to prevent vector-borne diseases in 22 countries around the Mediterranean, Balkans, Black Sea, Maghreb and Sahel regions. Enhancing preparedness and response capacities to vector-borne diseases by promoting a One Health approach is the core of MediLabSecure project. This new project will end in 2024. This activity involves also the following area: epidemiology</p>
		<p>The project aims to develop both an epidemiological model suitable for horse networks and a web application in support of field control actions in National epidemic emergencies. A further goal of the project is to assess the effectiveness of a diagnostic system composed by two different panels, one for DNA pathogens and the other for RNA pathogens, able to detect in a single analysis the causative</p>

<p>Training, capacity building (true)</p>	<p>SNAI, Social Network Analysis and innovative diagnostic methods for the control of animal movements and equine infectious diseases in Italy (2019-2023)</p>	<p>agents of a specific clinical case, including the 6 primary pathogens defined in the project (Staphylococcus aureus, Haemophilus influenzae, Streptococcus pneumoniae, Moraxella catarrhalis, Mycoplasma pneumoniae e Chlamydothila pneumoniae). This initiative is focusing also the assessment of the welfare of horses farmed not for meat production (sport, working and companion animals). This activity involves also the following technical area: epidemiology, disease control, animal health.</p>
<p>Training, capacity building (true)</p>	<p>Multidisciplinary study on ritual slaughter: food safety, animal welfare, and socio-cultural aspects in the production and consumption of Halal and Kosher meat (THalaKos)</p>	<p>This project aims to address relevant controversial issues in Jewish and Islamic slaughter in order to reach the goal of implementing and adopt guidelines and mitigation strategies to influence competent authorities and stakeholders in improving microbiological hygiene and animal welfare during ritual slaughter in Italy, also taking into account consumers perception and demand. This activity involved also the following technical area: animal health, animal welfare, food safety.</p>
<p>Training, capacity building (true)</p>	<p>LEO: Livestock Environment Opendata – Piattaforma Opendata per la Zootecnia (2019-2023)</p>	<p>The project aims to create a database containing both already available and new data on environment, animal health and welfare, climate, animal production and reproduction. The general scope is to improve knowledge in order to face the future challenges of animal production in relation to sustainability, climate change, biodiversity safety and protection. This activity involved also the following technical area: animal health, animal welfare, ICT.</p>
<p>Training, capacity building (true)</p>	<p>Best Practices for the Welfare of Dairy Calves and Cows – CARE4DAIRY</p>	<p>CARE4DAIRY aims to identify and disseminate best practices to increase the welfare of dairy calves, heifers and cows and end-of-career animals. The project adopts a farmer-centred approach with strong involvement of other stakeholders (e.g. as member of the Advisory Board and Reviewing Committee). The consortium consists of five partners from an animal welfare science background, who are involved in EURCAW-Ruminants and Equines, and two partners specialised in applied research and bridging sciences with practices on animal welfare. The expertise of the Project Team will be complemented with external Subject Matter Experts where necessary. 260 outputs have been produced: 147 factsheets, 28 best practice guides, 28 infographics, 28 videos, 28 podcast and a newsletter. These outputs are available in English, French, German, Greek, Italian, Polish and Spanish. This activity involves also the following technical area: animal welfare.</p>
<p>Training, capacity building (true)</p>	<p>Canine Brucellosis: diagnostic tools and management models for Brucella canis control (BruDog) Brucellosi canina: sviluppo di strumenti diagnostici e modelli gestionali per il controllo di B. canis (BruDog) (2021-2023)</p>	<p>The present research will generate detailed information on the infection and its evolution over time and will develop appropriate management tools and strategies to reduce the risks of disease spread in dogs and infection in humans. The project also aims to fill some diagnostic and epidemiological gaps on the knowledge about B. canis, and to provide operational and decision-making tools according to a "One Health" approach, which are essential for a proper management of infected animals and kennels and to prevent or diagnose the infection in humans. This activity involved also the following technical area: animal health, epidemiology.</p>
		<p>The ultimate goal of the project is to adopt AI at all</p>

<p>Training, capacity building (true)</p>	<p>Application of artificial intelligence in the detection of poor welfare / discomfort conditions in the breeding stages and pre-slaughter of domestic animals Applicazione dell'Intelligenza artificiale nel rilievo di condizioni di scarso benessere/ malessere nelle fasi di allevamento e di premacellazione degli animali domestici (ApplA-Ben) (2021-2023)</p>	<p>stages of the production chain to increase animal welfare, coherently with the UN 2030 Agenda for Sustainable Development that incorporates animal protection as a priority, according to the principles of the "One Health" vision and approach. This activity involved also the following technical area: animal health, animal welfare, statistics.</p>
<p>Training, capacity building (true)</p>	<p>Development of a self-assessment and monitoring platform on the WOAAH standards: SAM TOOL 2.0 project</p>	<p>The general objective of this Project is to develop a web-based self-assessment and monitoring methodology to assist countries in making progress on the agreed vision of full compliance with the WOAAH standards on stray dog population control in Europe. The SAM 2.0 platform represents a permanent and evolving IT data management tool at low risk of obsolescence, with a low-cost localisation of the questionnaire and the reports (including right to left languages). Being easily scalable to other WOAAH standards with minor efforts and investments, it can be considered a cornerstone of a topic-based observatory.</p>
<p>Training, capacity building (true)</p>	<p>Provision of e-learning modules on Leadership in veterinary services (2021-2023)</p>	<p>The overall scope is the development of eLearning modules aiming at developing competencies on Leadership in Veterinary Services, globally. The e-Modules to be developed under this project will be organised around three sequential levels: intermediate, advanced and WOAAH Delegate. A propaedeutic self-learning tool has been also designed to lay the foundation for individual learning pathways that progress - level by level - towards the acquisition or improvement of specific soft skills. This multi-modular progressive approach to capacity development will allow the formation of generalists and specialists. They will be delivered by the WOAAH through the WOAAH Training Portal, the companion e-tool of the WOAAH Platform and the unique location for all future training related material, resources and data, available in the three official languages of the WOAAH (English, French and Spanish). Veterinary Services are called by institutional mission to act as leaders in their areas of expertise, therefore it is of paramount importance invest on capacity building in the leadership domain to increase the quality of the performance of the Veterinary Services at all levels. Leadership, management, emotional intelligence, effective communication, advocacy, risk management and other topics are at the core of this project to develop the necessary soft-skills to achieve the expected goals.</p>
<p>Training, capacity building (true)</p>	<p>European Reference Centre for the welfare of ruminants and equines (EURCAW Ruminants &amp; Equines)</p>	<p>In May 2021, the Commission designated a third EU Reference Centre for animal welfare focusing on the welfare of ruminants and equines (Commission Implementing Decision (EU) 2021/755). The tasks of this centre include supporting the Commission and the Member States in the application of animal welfare requirements for ruminants and equines, carrying out scientific and technical studies, as well as conducting training courses and disseminating research findings and information on technical innovations. The centre is constituted of a consortium led by the Swedish University of Agricultural Sciences and the Swedish Centre for Animal Welfare (Sweden), and also composed of the University of Natural Resources and Life Sciences (Austria), the Ellinikos Georgikos Organismos-</p>

		<p>Dimitra/Veterinary Research Institute (Greece), the National Institute for Agriculture, Food, and Environment (France), the University College Dublin (Ireland) and the Istituto Zooprofilattico Sperimentale dell’Abruzzo e del Molise “G. Caporale” (Italy). IZS-TERAMO is participating in all the activities of the Centre and is leading the training activities. This activity involved also the following technical area: animal welfare.</p>
<p>Training, capacity building (true)</p>	<p>One Health Award</p>	<p>One Health One Earth is the watchword of our time marked by the pandemic and threats to the ecosystem. Putting this slogan at the centre of the public scene, the international One Health Award (OHA) honours One Health One Earth as the revolution necessary to face new challenges. For a long time, it was thought that the safety of humanity was in protecting themselves from nature; then that it was in distancing oneself from nature. The recent awareness is that our health safety is with nature, indeed it consists of the safety of nature itself. The OHA award represented the central moment of a three-day event dedicated to the One Health One Earth revolution, focused on the Mare Nostrum, the Mediterranean Crossroads The appointment with the One Health Award was for the days from 13 to 15 October 2023. During those days in the city of Teramo all together scholars, opinion makers, representatives of institutions, and protagonists of culture and entertainment brought to the centre of attention, the urgent need for a change of mentality and perspective.</p>
<p>Training, capacity building (true)</p>	<p>Enhancing Research For Africa Network (ERFAN), AW sub group for the SADC region</p>	<p>To establish a network of animal welfare experts in the SADC area, directly connected to local governments and research institutions, in order to develop common research activities and draft a shared strategy, aiming at ensuring a more effective implementation of the WOH standards on animal welfare in these countries. During 2023 two online meetings of the AW sub group have been carried out and the sub group coordinators Luigi Iannetti (IZSAM) and Quixi Sonntag (Faculty of Veterinary Science – University of Pretoria) have attended to the ERFAN meeting for the Region Southern Africa “Regional Meeting: ERFAN meets with international organizations actively engaged in Southern Africa” 7-9 November 2023, Pretoria (South Africa). This activity involved also the following technical area: animal welfare.</p>
<p>Training, capacity building (true)</p>	<p>WOAH provision of e-learning modules on emergency and disaster management</p>	<p>The Consortium is aimed at developing four e-Learning modules for the WOH Global Platform for the Training of Veterinary Services. Six core workstreams will be implemented, and subsequent activities/milestones under each workstream will be performed by WOH Collaborating Centre consortium members and subject matter expert consultants.</p>
		<p>The LNA guidelines will describe an innovative approach for: - analysing the general context from available sources of information at WOH level (e.g. PVS reports etc...) and set the scenario - assessing periodically, at regional or global level, knowledge gaps in relation to the sixteen Competence Packages on the basis of which the WOH Training Platform is</p>

Training, capacity building (true)	Guidelines for the development of the WOAHLearning Need Analysis	organised - profiling the audiences with the aim to design tailor-made courses adopting the most effective training methodologies - planning follow-up initiatives to monitor the impact of the WOAHLearning projects and design complementary interventions for the best achievements of the investments on training - disseminating the analysis outcomes to the WOAHLearning Members to let them planning complementary country training strategies
Training, capacity building (true)	Training in Food Law through an innovative methodology using new information and communication technology tools (TRIFLIM)	The two-year project (28/02/2022-27/02/2024), funded by the Servicio Español para la Internacionalización de la Educación (SEPIE) in the framework of the Erasmus+ Programme Key Action 2: Cooperation among organisations and institutions, aimed to develop an innovative e-learning programme on Quality Systems for food microbiological laboratories, providing knowledge acquisition and specialisation in the analytical area of food microbiology. This activity includes also Food Safety
Training, capacity building (true)	Food Law At Vocational Education And Training (Flaveat)	The three-year project (1/12/2023-30/11/2026), funded by the European Education and Culture Executive Agency (EACEA) in the framework of the Erasmus+ Programme, aimed to offer a complete vocational education training programme on food legislation to professionals employed in the food sector in various roles and functions. This activity includes also Food Safety

### TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area
WOAH Regional Platform on Animal Welfare for Europe	IZS-TERAMO is member of the steering group of the WOAHLearning Regional Platform on Animal Welfare for Europe ( <a href="https://rpawe.WOAH.int/">https://rpawe.WOAH.int/</a> ), a platform launched by the WOAHLearning in 2013 with the aim to improve the harmonisation in the application of animal welfare standards, mainly the ones concerning animal transport, slaughter, stray dog population management, animal welfare in disasters and welfare for working equids within the Region. Experts from the WOAHLearning CC IZS-TERAMO contributed to implement the activities designed in the Platform action plans, providing expertise to address the established priorities including capacity building.	Training and education health management
WOAH Platform for the Training of Veterinary Services	As WOAHLearning CC for Veterinary Training and Capacity Building, the IZS-TERAMO is member of the WOAHLearning Platform for the Training of Veterinary Services.	Laboratory expertise Training and education health management
	ICRAD is a new ERA-Net Cofund Action under Horizon 2020 that will build upon the achievements of the ERA-NET EMIDA (Emerging and Major Infectious Diseases of Animals) and the ERA-NET ANIHWA (Animal Health and Welfare). This initiative aims at supporting cross-cutting research to improve public health, animal health and welfare, with associated benefits towards the environment and the economy; connecting research partners with different but complementary scientific and	

<p>ICRAD: International Coordination of Research on infectious animal diseases</p>	<p>technological expertise. The partnership between industrial and academic researchers improves and accelerates the development of technological solutions for the benefit of animal health and welfare. Research and innovation co-funded through ICRAD would seek concerted approach towards the development of novel and improved instruments to address and control infectious diseases, particularly regarding novel detection, intervention and prevention strategies to: increase preparedness and ability to respond to emerging and endemic livestock threats; contribute to the reduction of antimicrobial and antiparasitic use in livestock and to minimising the development of resistance for the benefit of animal and public health; contribute to animal welfare by better prevention of diseases and renewed animal management and farming systems; on a larger scale, contribute to food security and competitive and sustainable livestock systems.</p>	<p>Laboratory expertise health management</p>
<p>Call for tenders SANTE/2021/OP/0005 Pilot project on the welfare of dairy cattle, including measures to protect unweaned dairy calves and end-of-career animals</p>	<p>The Directorate-General for Health and Food Safety (DG SANTE) designated IZS-TERAMO, in consortium with universities and research centres of different European countries, and two private organisation to develop consensus-based best practice guidelines for animal welfare in the dairy sector.</p>	<p>health management</p>
<p>Provision of support to EFSA and to ECDC in the production of the EU One Health Zoonoses report and in related zoonoses online interactive data visualisation dashboards and zoonoses story maps (OC/EFSA/BIOCONTAM/2020/03)</p>	<p>The service aims to prepare the EU One Health Zoonoses report for the years 2020-2023 and to produce several interactive online zoonoses data visualisation dashboards and zoonoses story maps to innovate and enhance the communication of this report in order to address properly the needs of the risk managers as the volume and quality of submitted data increase every year, and the EU One Health Zoonoses reports need to be produced and published with limited resources within short deadlines (11 months).</p>	<p>Laboratory expertise Training and education</p>
<p>Provision of e-learning modules on emergency and disaster management</p>	<p>This project will develop four eLearning modules on Emergency and disaster management, to be included in the eLearning catalogue of the WOH Training Portal, under the Competency Package n. 6 "Emergency Management". The e-modules will provide high-level guidance on the skills required by veterinarians and will cover the preparedness and response phases of the emergency and disaster management cycle. The modules will be the following ones: Module 1. Introduction to emergency and disaster management Modules 2 and 3. Planning for emergencies and disasters Module 4. Emergency and disaster response</p>	<p>health management</p>
<p>Developing field epidemiology training for veterinarians – Technical guidelines and core competencies</p>	<p>Personnel of the WOH CC actively participated in the preparatory activities for the preparation of these guidelines, which were developed based on the three-tier programme model used in public health, and adapted to the needs and requirements of the animal health sector using the "One Health" approach. These guidelines provide guidance on the development of new programmes, and detailed approaches for the assessment, evaluation and accreditation of FETV programmes. (FAO. 2021. Developing field epidemiology training for veterinarians – Technical guidelines and core competencies. FAO Animal Production and Health Guidelines No. 27. Rome. <a href="https://doi.org/10.4060/cb7545en">https://doi.org/10.4060/cb7545en</a>)</p>	<p>Training and education</p>
<p></p>	<p>The SAM Tool 2.0 is a methodology that will support –</p>	<p></p>



<p>SAM Tool 2.0</p>	<p>through a permanent self-assessment system – WOAH Members in policy or decision making to achieve fully compliance with the Chapter 7.7 and 8.14 of the WOAH TAHC</p>	<p>Training and education</p>
<p>Research Performing Organisation, alla European Partnership on Animal Health and Welfare (EUPAHW)</p>	<p>The European Partnership on Animal Health and Welfare (represented by the abbreviation EUP AH&amp;W or its acronym EUPAHW) is by far the most ambitious research and innovation initiative the European Commission (EC) has funded to control infectious diseases of animals, and to promote animal welfare. Launched this year (2024), the innovative Partnership is anticipated to invest €360 million over seven years to boost research and facilitate cooperation between all actors. The scope goes beyond the animal health and welfare actors to enhance cross sector collaboration and, through a One Health and One Welfare approach, to provide societal impact. The objectives of the EUP AH&amp;W align with the European Green Deal and its associated Farm to Fork strategy for a fair, healthy, and environmentally friendly food system.</p>	<p>health management</p>
<p>Establishment of a surveillance system on selected (re)emergent and at risk of introduction zoonoses based on an ecologic approach – EcoSurv</p>	<p>The goal of EcoSurv is the development of a surveillance system based on an ecological approach, able to take into account the whole spectrum of animal species in a given ecosystem (zoocenosis) having a possible role in the maintenance, persistence and/or transmission to humans of (re)emergent pathogens, already present or at risk of introduction into the national territory. The new surveillance system to set will be integrated with the already existing ones, in order to collect and complement the information recorded into the information systems currently used by the veterinary, environmental and public health sectors in Italy. The Consortium will put in place and manage “the coordination with the actions carried out on human health surveillance” in the country. Furthermore, it will establish a coordination mechanism “to ensure the regular exchange of knowledge, threats reporting, and joint undertaking of risk assessment between animal and human health surveillance experts at Union and Member State level”. The proposed surveillance actions are conceived to produce the relevant and necessary information for the identification of proper early warning indicators and data for the risk assessment of the introduction or (re)emergence of selected zoonotic agents. These indicators, coupled with environmental and climatic data, and animal/human demographic information, will support predicting models on the possible emergence, spread and persistence of those pathogens.</p>	<p>health management</p>
<p>European Partnership on Animal Health and Welfare (EUPAHW)</p>	<p>The European Partnership on Animal Health and Welfare (represented by the abbreviation EUP AH&amp;W or its acronym EUPAHW) is by far the most ambitious research and innovation initiative the European Commission (EC) has funded to control infectious diseases of animals, and to promote animal welfare. Launched this year (2024), the innovative Partnership is anticipated to invest €360 million over seven years to boost research and facilitate cooperation between all actors. The scope goes beyond the animal health and welfare actors to enhance cross sector collaboration and, through a One Health and One Welfare approach, to provide societal impact. The objectives of the EUP AH&amp;W align with the European Green Deal and its associated Farm to Fork strategy for a fair, healthy, and environmentally friendly food system.</p>	<p>Training and education health management Animal production Veterinary products Wildlife health and biodiversity</p>

Prezode	PREZODE (Preventing ZOonotic Disease Emergence) is an innovative international initiative with the ambition to understand the risks of emergence of zoonotic infectious diseases, to develop and implement innovative methods to improve prevention, early detection, and resilience in order to ensure rapid response to the risks of emerging infectious diseases of animal origin.	health management
EURCAW Ruminants and Equines	The European Union Reference Centre for Animal Welfare (EURCAW) Ruminants & Equines is the third Centre designated by the European Commission (Official Controls Regulation 2017/625, Articles 95 & 96), established in May 2021. The remit of the EURCAW is to support the Competent Authorities in EU member states with the implementation of current regulations on animal welfare. The Centre provides scientific and technical expertise on the development and application of animal welfare indicators and methods of assessment of animal welfare to competent authorities and policy workers in animal welfare. EURCAW Ruminants & Equines covers a range of farm animal species including those used for dairy production (cows, goats, sheep, buffaloes), the production of meat by cattle, sheep, goats, deer and horses, and ruminants and equines kept for other purposes. The activities of the EURCAW Ruminants & Equines are set out in a work programme in consultation with the European Commission.	health management
European Union reference laboratory for Rift Valley fever	The European Union reference laboratory for Rift Valley fever ensures that the appropriate level of methods of analysis, test or diagnosis, and the development of validated methods and the coordinated assistance of the official laboratory is maintained.	health management
Renforcement du dispositif national d'encadrement vétérinaire de la santé animale	The specific objective of the twinning among IZS-Teramo (Italy) and the Ministry of Agriculture of France and Tunisia is to strengthen the Tunisian national health system.	health management

3. In exercising your activities, have you identified any regulatory research needs\* relevant for WOA?H?

No

4. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Center for Animal Health and Food Safety	USA	Americas	Collaboration in the framework of the WOA?H Platform for the Training of Veterinary Services and further relevant initiatives
Ecole Inter-Etats de Sciences et Médecine Vétérinaires	Senegal	Africa	Collaboration in the framework of the WOA?H Platform for the Training of Veterinary Services and further relevant initiatives
Ecole Nationale des Services Vétérinaires	France	Europe	Collaboration in the framework of the WOA?H Platform for the Training of

			Veterinary Services and further relevant initiatives
CRESVet	Argentina	Americas	Collaboration in the framework of the WOAHP Platform for the Training of Veterinary Services and further relevant initiatives
Veterinary Public Health and Food Safety Centre for Asia Pacific	Thailand	Asia and Pasific	Collaboration in the framework of the WOAHP Platform for the Training of Veterinary Services and further relevant initiatives
Panaftosa	Brazil	Americas	Collaboration in the framework of the WOAHP Platform for the Training of Veterinary Services and further relevant initiatives
Center for Food Security and Public Health	USA	Americas	Collaboration in the framework of the WOAHP Platform for the Training of Veterinary Services and further relevant initiatives
Centre National de Veille Zoosanitaire	Tunisia	Africa	Collaboration in the framework of the WOAHP Platform for the Training of Veterinary Services and further relevant initiatives
Reduction of the Risk of Disasters in Animal Health (CENSA)	Cuba	Americas	Collaboration in the framework of the WOAHP EmVet network
Biological Threat Reduction (IIAD)	USA	Americas	Collaboration in the framework of the WOAHP EmVet network
UNIMI (Università degli Studi di Milano)	Italy	Europe	Collaboration in the framework of the BTSP initiative on AW and in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
AINIA	Spain	Europe MiddleEast	Collaboration in the framework of the Erasmus+ TRIFLIM and Flaveat Project
European Reference Centre for the Welfare of ruminants and equines	Sweden, Austria, France, Greece, Ireland, Italy	Europe	The objective of the EURCAW - ruminants & equines is to provide the EU Commission and EU Member States with support to knowledge building, implementation and

			enforcement of relevant legislation and capacity building
Enhancing Research For Africa Network (ERFAN)	Italy/SADC	Africa Europe	To strengthen the network of the WOAHP for animal welfare from SADC countries (South Africa, Namibia, Botswana, Zimbabwe, Zambia, Mozambique, Lesotho, eSwatini) built in the framework of ERFAN Sub-group for Animal Welfare
Federation of European Laboratory Animal Science Associations (FELASA)	European countries	Europe	Collaboration for capacity building on Laboratory Animal Sciences – Accreditation of training courses
WOAH Animal Welfare Collaborating Centres	Global	Africa Americas Asia and Pacific Europe MiddleEast	To promote the establishment of a WOAHP Network of Animal Welfare Collaborating Centres
Fondazione Guido Bernardini	Italy	Africa Americas Asia and Pacific Europe MiddleEast	Collaboration for capacity building on Laboratory Animal Sciences
VIRTUAL CAMPUS LDA	Portugal	Europe MiddleEast	Collaboration in the framework of the Erasmus+ TRIFLIM and Flaveat Project
JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY	Jordan	Europe MiddleEast	Collaboration in the framework of the Erasmus+ Flaveat Project
NABLUS UNIVERSITY for VOCATIONAL AND TECHNICAL EDUCATION	Palestine	Europe MiddleEast	Collaboration in the framework of the Erasmus+ Flaveat Project
PALESTINE TECHNICAL UNIVERSITY - KADOORIE (PTUK)	Palestine	Europe MiddleEast	Collaboration in the framework of the Erasmus+ Flaveat Project
DIMIOURGIKI SKEPSI ANAPTYXIS	Greece	Europe MiddleEast	Collaboration in the framework of the Erasmus+ Flaveat Project
AL-BALQA APPLIED UNIVERSITY	Jordan	Europe MiddleEast	Collaboration in the framework of the Erasmus+ Flaveat Project

University of Surrey	United Kingdom	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
University of Ghent	Belgium	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
Germany Federal Institute for Risk Assessment (BfR)	Germany	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
EFSA European Food Safety Authority	Italy	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
EMA European Medicines Agency	The Netherlands	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
APHA – The Animal and Plant Health executive agency	United Kingdom	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
WU – Wageningen University	The Netherlands	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
IZSLER – Istituto Zooprofilattico Sperimentale Lombardia Emilia Romagna	Italy	Europe	Collaboration in the framework of the European Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
			Collaboration in the framework of the European

SSI - The Animal and Plant Health	Denmark	Europe	Partnership on Animal Health and Welfare, WP 5 on communication, dissemination and exploitation
-----------------------------------	---------	--------	---

## TOR4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAAH Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOAAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
FAO/IAEA Animal Production and Health Laboratory	Austria	Europe	Hosting fellowship also focused on Animal Disease Diagnosis
ENMV (National School of Veterinary Medicine of Sidi Thabet)	Tunisia	Africa Europe	Collaboration in the framework of the twinning project "Renforcement du dispositif national d'encadrement vétérinaire de la santé animale"
Ministère de l'Agriculture, des Ressources hydrauliques et de la Pêche - Direction générale des Services vétérinaires	Tunisia	Africa Europe	Collaboration in the framework of the twinning project "Renforcement du dispositif national d'encadrement vétérinaire de la santé animale"
Ministère de l'Agriculture et de l'Alimentation	France	Africa Europe	Collaboration in the framework of the twinning project "Renforcement du dispositif national d'encadrement vétérinaire de la santé animale"
EmVetNet	Italy	Europe	The objective of the Network for Veterinary Emergencies is to support WOAAH Member Countries preparedness for and response to animal health emergencies
Fondazione Guido Bernardini	Italy	Europe	Promotion of research and capacity building in Laboratory Animal Science
AISAL	Italy	Europe	Promotion of research and capacity building in Laboratory Animal Science
ETPLAS	Spain	Europe	Promotion of capacity building in Laboratory Animal

			Science
FOUR PAWS	Belgium/Germany	Europe	Promotion of research, capacity building, awareness raising in Animal Welfare
France Vétérinaire International (FVI)	France	Europe	Promotion of International Cooperation and relevant capacity building in Animal Health and Food Safety
The Federation of Veterinarians in Europe (FVE)	Belgium	Europe	Collaboration for competencies certification (VETCEE) and capacity building on Animal Welfare
Animal Transport Association (ATA)	USA	Americas	Collaboration for capacity building on Animal Welfare
World Road Transport Association (IRU)	Belgium	Europe	Collaboration for capacity building on Animal Welfare
Animals' Angels	Germany	Europe	Collaboration for capacity building on Animal Welfare
RSPCA	United Kingdom	Europe	Collaboration for capacity building on Animal Welfare
Animal Welfare Foundation	United Kingdom	Europe	Collaboration for capacity building on Animal Welfare
Eurogroup for Animals	Belgium	Europe	Collaboration for capacity building on Animal Welfare
AVEC	France	Europe	Collaboration for capacity building on Animal Welfare
Copa-Cogeca	Belgium	Europe	Collaboration for capacity building on Animal Welfare
European Centre for Animal Welfare-pigs	European countries	Europe	Collaboration with EURCAW-pigs

European Centre for Animal Welfare-poultry and small farm animals	European countries	Europe	Collaboration with EURCAW-poultry and small farm animals
All the WOAHC CC belonging to the WOAHC Platform for the training of Veterinary Services	Paris	Africa Americas Asia and Pasific Europe MiddleEast	Promote innovative methodologies and tools for the he training of Veterinary Services globally

## TOR6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAHC?

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Michele Podaliri Vulpiani, Francesco Cerasoli, Silvia D'Albenzio, Daniela Ciavarelli, Francesca Pompei, Ombretta Pediconi, Chiara Albanello, Emanuela Rossi, Annalisa Falconi, Massimo Fuina	Experts	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZS-TERAMO) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)
Silvia D'Albenzio	Expert	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZS-TERAMO) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Coordination of the working group for the establishment of a permanent capacity building system in animal welfare in Tunisia
Luigi Possenti, Silvia D'Albenzio, Daniela Morelli	Experts	Development of the SAM TOOL 2.0
Luigi Iannetti	Lead Expert	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZS Teramo) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)
Silvia D'Albenzio	Expert	13th meeting EU Platform on Animal Welfare, 15 June 2023
Lotta Berg, Luigi Iannetti, Michele Podaliri Vulpiani, Emanuela Rossi, Francesco Cerasoli	Experts	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Training course on animal welfare during depopulation for disease control (Teramo, 4-5 September 2023)
Michele Podaliri Vulpiani, Luigi Iannetti, Giusy Matteucci, Paolo Migliaccio, Andrea Vitelli	Experts	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Dog population management (part 1): the Italian framework (Teramo, 6-7-8 September 2023)
Michele Podaliri Vulpiani, Luigi Iannetti	Experts	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Dog population management



		(part 2), the new WOAHP standard and the current Tunisian situation (Sidi Thabet, 9-10-11 October 2023)
Michele Podaliri Vulpiani, Luigi Iannetti, Silvia D'Albenzio, Emanuela Rossi, Lotta Berg	Experts	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Presentations at the Third Congress of the ENMV, Workshop "Animal Welfare in Northern Africa" (Sidi Thabet 12-13 October 2023)
Silvia D'Albenzio	Expert	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Coordination of the working group for the establishment of a permanent capacity building system in animal welfare in Tunisia
Luigi Iannetti, Michele Podaliri Vulpiani	Experts	ERFAN Sub-group for Animal Welfare for the SADC region.
Silvia D'Albenzio, Daniela Morelli, Lena Tuominen, Lotta Berg, Luigi Iannetti, Alessandro Ripani	Experts	WOAH Online Stakeholders' Consultation on "The role of Veterinary Services on animal welfare in natural disasters in Europe". 14-15-17 March 2023
Michele Podaliri Vulpiani	Expert	REMESA Rabies Training Workshop, Toward Rabies Control: Epidemiology, Diagnosis, Vaccination, Istituto Zooprofilattico Sperimentale delle Venezie, Padua, Italy 25-28 September 2023

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

- a) The IZS – Teramo assisted the WOAHP Members from the Balkans in increasing preparedness capacity and contingency planning in the framework of the activities promoted by the WOAHP Platform for Animal Welfare in Europe.
- b) The IZS – Teramo developed and promoted the SAM Tool 2.0 to support the compliance of the WOAHP Members in the Europe Region to the revised Chapter 7.7 of the WOAHP TAHC and to the Chapter 8.14.
- c) In the framework of the WOAHP twinning of animal welfare in Tunisia and North Africa, the IZS –Teramo team gave support in the organisation of training courses aimed to ENMV and DGSV personnel on animal welfare during depopulation for disease control and on dog population management, with particular reference to the current situation in Italy.

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAHP, to personnel from WOAHP Members?

Yes

- a) Technical visit : 21
- b) Seminars : 1
- c) Hands-on training courses: 37
- d) Internships (>1 month) : 0

TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)	CONTENT	COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING	NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY
C	Il sistema I&R - identificazione e registrazione degli operatori, stabilimenti ed animali	Italy	1999
C	Application of EC Reg. "New Hygiene Package" Teramo, 29-30 May, 2023	Italy	35
B	The results of the Current Research conducted by IZS-TERAMO (Year 2022). 6	Italy	74

	June, 2023		
C	Basic module for Auditors/Audit Group Managers (UNI EN ISO 19011 and UNI CEI EN ISO/IEC 17021-1 standards) Teramo 7-8 June, 2023	Italy	36
C	ISO Standards Teramo, 26-27 June, 2023	Italy	36
C	Organic contaminants, Teramo, 22-23 June, 2023	Italy	54
C	Auditor/Lead Auditor of Food Safety Management Systems (specific module) Teramo, 28-29-30 June, 2023	Italy	36
C	Animal Health Law. EU Regulation 429/2016 course, Teramo, 18 July, 2023	Italy	52
C	In field activities Simulation of an AUDIT, Teramo, Roseto degli Abruzzi (TE) 3-7 July, 2023	Italy	36
C	Workshop on Brucellosis Teramo, 26 October, 2023	Italy	96
C	Outbreaks management of food-borne diseases I Edition, Teramo, 19-20 October 2023	Italy	14
C	Outbreaks management of food-borne diseases II Edition, Teramo, 26-27 October 2023	Italy	15
C	Workshop: NATIONAL REFERENCE CENTRE FOR URBAN HYGIENE AND NON-EMPIDEMIC EMERGENCIES (IUVENE) Teramo, 31 October, 2023	Italy	37
C	The National Reference Laboratory for Campylobacter Teramo, 7 November, 2023	Italy	54
C	The National Reference Laboratory for Listeria monocytogenes Teramo, 8 November, 2023	Italy	66
C	The GENPAT national reference centre platform Teramo, 8-9 November, 2023	Italy	54
C	EU Regulation 2017/625: Development of assessment skills in food safety, Teramo, 20-	Italy	40

	21 November 2023		
C	Alternative methods to animal tests: practical experiences of total replacement and innovation frontier, Teramo 22 November 2023	Italy	46
C	Auditor Plus, Teramo, 27-28-29 November, 2023	Italy	37
C	Workshop on Blue Tongue Teramo, 5 December, 2023	Italy	399
C	Satellite Workshop "Optimising the design and running of studies" - 1st Edition, Buguggiate (VA) Buguggiate (VA) 28 February 2023	Italy	13
C	Satellite Workshop "Optimising the design and running of studies" - 2nd Edition, Teramo, 2 March, 2023	Italy	19
C	(FAO - EUFMD) Cours de formation régionale sur la fièvre de la vallée du Rift, 25-26 September 2023	Italy	6
C	(FAO) Regional Training Course on Rapid Risk Assessment Methods and Approaches, 11-15 September 2023	Italy	17
C	International Conference of Spatial Epidemiology, Geostatistics and GIS applied to animal health, public health and food safety	Italy	150
C	Training course on Culicoides biting midges (VectorNet), 11-15 September/2-6 October 2023	Albania, Bosnia and Herzegovina, Lybia, Montenegro, Republic of North Macedonia, Serbia and Slovenia	11
C	BTSF Training Course on Animal Welfare in pig production – IV Rome 22-24 November 2023	Official veterinarians from EU and some third countries	31
C	BTSF Training Course on Animal Welfare in poultry production (chickens kept for meat production) – IV Rome 22-24 November 2023	Official veterinarians from EU and some third countries	39
C	BTSF Training Course on Animal Welfare at slaughter (basic level) - II Rome 22-24 November 2023	Official veterinarians from EU and some third countries	39
C	Annual Meeting Rift Valley Fever Teramo, 29 November 2023	EU-NRLs delegates	65
	Recognition of pain, suffering and distress and its application in the evaluation of		

C	severity of the procedures (species specific: mice and rats) – III Edition 16 January-15 December 2023	Italy	266
C	Webinar Better Training for Safer Food (BTSF) "Animal Welfare at slaughter I (basic level)" 24-26 January 2023	Official veterinarians from EU and some third countries	29
C	Webinar Better Training for Safer Food (BTSF) "Animal Welfare at slaughter of cattle, pigs, sheep and goats II (advanced level)" 24-26 February 2023	Official veterinarians from EU and some third countries	35
C	Webinar Better Training for Safer Food (BTSF) "Animal Welfare during transport III (advanced level)" 21-23 March 2023	Official veterinarians from EU and some third countries	22
C	Webinar Better Training for Safer Food (BTSF) dal titolo "Animal Welfare at poultry slaughter II (advanced level)" 18-20 April 2023	Official veterinarians from EU and some third countries	20
C	Webinar Better Training for Safer Food (BTSF) dal titolo "Animal Welfare in case of killing for depopulation purposes" 16-18 May 2023	Official veterinarians from EU and some third countries	33
C	Webinar Better Training for Safer Food (BTSF) dal titolo "Animal Welfare during transport (basic level) III" 13-15 June 2023	Official veterinarians from EU and some third countries	37
A	Training period on Bacteriology of CBPP – Servicio Nacional de Calidad y Salud Animal ( SENACSA) Teramo, 16/27 January 2023	Paraguay	2
A	Twinning project : EU support to capacity building and gradual Union acquis alignment in the Food safety sector in Bosnia and Herzegovina Teramo, 23/27 January 2023	Bosnia and Herzegovina	11
A	Training period on SARS-CoV-2 Whole Genome Sequencing, Institut Pasteur de Tunis Hôpital Universitaire Charles Nicolle Teramo, 24 January/03 February	Tunisia	2
A	OIE Twinning project on Food Safety between the Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise and the National Reference. Food Safety Institute Laboratory of Azerbaijan Food safety	Azerbaijan	2
A	Internship programme with WOAHEurope/EmVetNet – Lincoln Memorial University Teramo, 20 February/17 March 2023	USA	1
A	Fellowship in molecular diagnosis and microbiological techniques for priority diseases, Institute National de Medecine Veterinaire (INMV) Teramo, 20 February/ 17	Algeria	2

A	Study visit on Integrated Animal Health Information Systems - MAWLR Namibian delegation Teramo, 27-31 March 2023	Namibia	6
A	OIE Twinning on Epidemiology and risk assessment, Ministry of Environment, Water and Agriculture – Animal Resources Risk Assessment Teramo, 27-31 March 2023	Kingdom of Saudi Arabia	3
A	AidEU Project EU Project "Support to establishing disease surveillance and control programs and alignment with chapter 12 of the acquis", Kosovo Food and Veterinary Agency	Kosovo	2
A	Project WOAAH Collaborating Centre Twinning Project on Epidemiology and risk assessment- National Animal Health Diagnostic and Investigation Centre - NAHDIC	Ethiopia	2
A	TAIEX Study Visit on Classification of bovine, sheep and pig carcasses - Ministry of Agriculture, Forestry and Water Management of Republic of Srpska Agromediterranean Institute	Bosnia and Herzegovina	5
A	RC project: Study on the prevalence of Apis mellifera parasitic diptera in Mediterranean regions and their involvement in hive mortality, Food and Veterinary Agency, Isernia, 03-07 July 2023	Kosovo	1
A	WOAH Twinning project on Animal Welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and École Nationale de Médecine Vétérinaire Teramo, 4-5 September 2023	Tunisia	5
A	WOAH Twinning project on Animal Welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" and École Nationale de Médecine Vétérinaire Teramo, 6-8 September 2023	Tunisia	9
A	Training period on Next generation sequencing and bioinformatic analysis, Institutul de Diagnostic si Sanatate Animala Bucharest Teramo, 23 October - 03 November	Romania	2
A	Letter of Agreement (Ref LOA/RAP/2023/06) "Piloting of Laboratory Information Management Systems (LIMS) in Asia" National Animal Health Laboratory, Vientiane Lao P.D.R. Istitute Pasteur du Cambodge Teramo, 16-27 Ottobre 2023	Cambodia Vietnam Laos	6
A	OIE Twinning on Epidemiology and risk assessment, Ministry of Environment, Water and Agriculture – Animal Resources Risk Assessment Teramo, 16-20 October 2023	Kingdom of Saudi Arabia	3
	Ministry of Environment, Water and	Kingdom of Saudi Arabia	3

A	Agriculture – Animal Resources Risk Assessment Teramo, 13-22 November 2023		
A	Training period on Brucellosis diagnosis, Kazakh Scientific Research Veterinary Institute Teramo, 6-10 November 2023	Kazakhstan	2
C	Webinar International Conference “The multifaced universe of alternative methods in the day-to-day experimental work” 1 March 2023	Europe	54
A	GIS in aquatic disease, Fisheries Administration (FIA), Department of Aquaculture Development (DAD) Teramo, 6-10 November 2023	Cambodia	2
A	umelage européen “Appui au renforcement du dispositif de surveillance et de contrôle de la qualité et conformité sanitaire et phytosanitaire des produits agricoles et agroalimentaires à Madagascar” Teramo, 13-17 November 2023	Madagascar	2

## TOR8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H?

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	WOAH/IZS SAM Tool 2.0 presentation webinar	WOAH Sub-regional Representation - Brussels	2023-06-19	Virtual	15
International	WOAH Online Stakeholders' Consultation on “The role of Veterinary Services on animal welfare in natural disasters in Europe”	IZS Teramo – WOA SRR Bruxelles	2023-03-14	Virtual	37

## TOR9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOA?H that may be useful to Members of WOA?H

a) Articles published in peer-reviewed journals:

0

b) International conferences:

16

1. F. Pompei, C. Albanello, A. Falconi, O. Pediconi, M. Piersanti, B. Alessandrini, S. D'Albenzio, *The evolution of training methodologies in a 16-year experience in the framework of the Better Training for Safer Food Programme: scalable and transferable lessons learned and best practices*, INTED2024 (accepted)
2. Albanello C., Dalla Villa, P. F., Falconi, A., Morelli, D., Pompei, F., & D'Albenzio, S. 2023. *Animal welfare during natural disasters: Preparing veterinary services in the time of covid-19*. INTED2023 Proceedings, doi:10.21125/inted.2023.1424Cerezo A. S., Carvalho, C. V. d., Krestos, V., Pompei, F., & Villar, J. M. F. 2023. *Erasmus + project: Training in food law through an innovative methodology using new information and communication technology tools (triflim)*. INTED2023 Proceedings, , 3527-3531. doi:10.21125/inted.2023.0954
3. D'Albenzio S., Leboucq, N., Guerson, N., Baccar, M. N., Meeyam, T., Albanello, C., Pompei, F., Brioudes, V., Falconi, A., & Alessandrini, B. 2023. *Building leadership in veterinary services through virtual immersive learning experiences*. ICERI2023 Proceedings, , 5660-5669. doi:10.21125/iceri.2023.1411
4. Pediconi O., Caiano, R., Filippo, E. D., Fasolo, M., Massimi, A., Rasetta, A., & Andreoletti, C. 2023. *Mind “manager in development”*. ICERI2023 Proceedings, , 8840-8847. doi:10.21125/iceri.2023.2253
5. Sossidou, E. N., D'Albenzio, S., Blokuis, H., Vessier, I., Mounaix, B., Gary, F., & Anlon, A. *Care4Dairy project: Developing best practices for the welfare of dairy cattle*. 5th European Veterinary College of Behavioural Medicine and Animal Welfare, Pisa, 19th-20th October 2023 pp. 82-83
6. De Massis F., Pediconi O., Tittarelli M., D'Alterio N. (2023). *La lotta alla Brucellosi nel contesto “One Health”*; BENV 37/2023, IZS Teramo, [https://www.izs.it/BENV\\_NEW/02-](https://www.izs.it/BENV_NEW/02-)

[pubblicazione\\_benv\\_37.html](#)

7. S. D'Albenzio, virtual presentation on "SAM Tool 2.0 Methodology", held in the WOAH/IZS SAM Tool 2.0 presentation webinar, 19th of June 2023
8. S. D'Albenzio, virtual presentation on SAM Tool 2.0 System: structure, resources and functioning in the WOAH/IZS SAM Tool 2.0 presentation webinar, 19th of June 2023
9. Silvia D'Albenzio, Presentation of the SAM 2.0 project in the Fifth regional workshop on Dog Population Management for Balkans countries (SDB5) 4-6 July 2021, Tuhelj Terme, Croatia
10. Luigi Possenti, Presentation of the Follow up to the training on the use of the SAM Tool 2.0 in the Fifth regional workshop on Dog Population Management for Balkans countries (SDB5) 4-6 July 2021, Tuhelj Terme, Croatia
11. Silvia D'Albenzio, Daniela Morelli, Presentation of the SAM System for Dog Population Management (SAM4DPM) in SDB5 Workshop, Bern, 11 October 2023
12. Silvia D'Albenzio, Participation in the ETPLAS Stakeholders Board September 2023, online, 19/9/2023
13. Silvia D'Albenzio, Presentation on "Rising community awareness of rabies prevention and dog population management impact on One Health", in the Fourth WOAH Regional Workshop on Dog Population Management for West Eurasia countries (SDWE4), Tbilisi, Georgia, 26th – 28th September 2023
14. Silvia D'Albenzio, Presentation on "Tunisian Training Centre for Animal Welfare", in the 3ème Congrès de l'ENMV, 13 October 2023
15. Silvia D'Albenzio, Birgitta Staaf Larsson, Best practices to increase the welfare of dairy calves, heifers, cows and end-of-career animals in the EU: the CARE4DAIRY Project, EU Platform on Animal Welfare, 13th meeting 15 June 2023
16. Noémie Glet, Paolo Dalla Villa, Estelle Hamelin, Silvia D'Albenzio, Barbara Alessandrini, Daniela Morelli, Luigi Iannetti, Roberto Balbo, Tomasz Grudnik, Poster "Role of Veterinary Services on Animal Welfare in natural disasters Pilot approach on natural disaster preparedness for Balkan countries"

c) National conferences:

4

Silvia D'Albenzio, Presentation on "the European Reference Centre for the Welfare of Ruminants and Equines", in the Annual Conference of the Italian National Reference Centre for Animal welfare, Brescia, 23 June 2023

Silvia D'Albenzio, Presentation on "La formazione: principi, metodologie e strumenti formative, gestione dei corsi e delle verifiche ", in Corso di formazione per l'aggiornamento professionale dei veterinary ufficiali e la formazione dei formatori sul benessere animale, Portici, 19 October 2023

Silvia D'Albenzio, Presentation on "La formazione: principi, metodologie e strumenti formative, gestione dei corsi e delle verifiche ", in Corso di formazione per l'aggiornamento professionale dei veterinary ufficiali e la formazione dei formatori sul benessere animale, Brescia, 28 September 2023

Silvia D'Albenzio, Michele Podaliri, Presentation on "La proprietà responsabile degli equini non-DPA in Italia: stato dell'arte" Ministry of Health (Auditorium B. D'Alba) 26 June 2023

d) Other (Provide website address or link to appropriate information):

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

- Development and dissemination of fact-sheets concerning the welfare of ruminants (individual calf housing and calf feeding) and, more generally, the environmental enrichment
- Development of a permanent IT platform for the assessment of training needs in the animal welfare domain as concerns ruminants and equine in EU Member States
- Design and implementation of research projects to produce new knowledge in the animal welfare domain adopting new technologies such as Artificial Intelligence
- Standardisation of automatic certification of competencies in the Laboratory Animal Sciences, domain in compliance with the European and Italian legislative framework as well as the FELASA accreditation scheme
- The SAM TOOL 2.0 was developed at IZSAM and put at disposal of WOAH member countries that can use it for self-assessment, as a web-based self-assessment and monitoring e-platform to assist countries in making progress on the agreed vision of full implementation of the WOAH TAHC Chapter 7.7 on dog population management with a rabies component.

12. Additional comments regarding your report: