



# THE ONE HEALTH APPROACH IN THE TRANSMISSIBLE DISEASES PROFESSIONAL TRAINING OF THE UNIVERSITY OF BOLOGNA

**Mariana Roccaro<sup>1</sup>, Mara Battilani<sup>1</sup>, Angelo Peli<sup>1</sup>, Silvia Piva<sup>1</sup>, Alessandra Scagliarini<sup>2</sup>**

<sup>1</sup>University of Bologna, Department of Veterinary Medical Sciences, Bologna, Italy

<sup>2</sup>University of Bologna, Department of Experimental, Diagnostic and Specialty Medicine, Bologna, Italy

## BACKGROUND

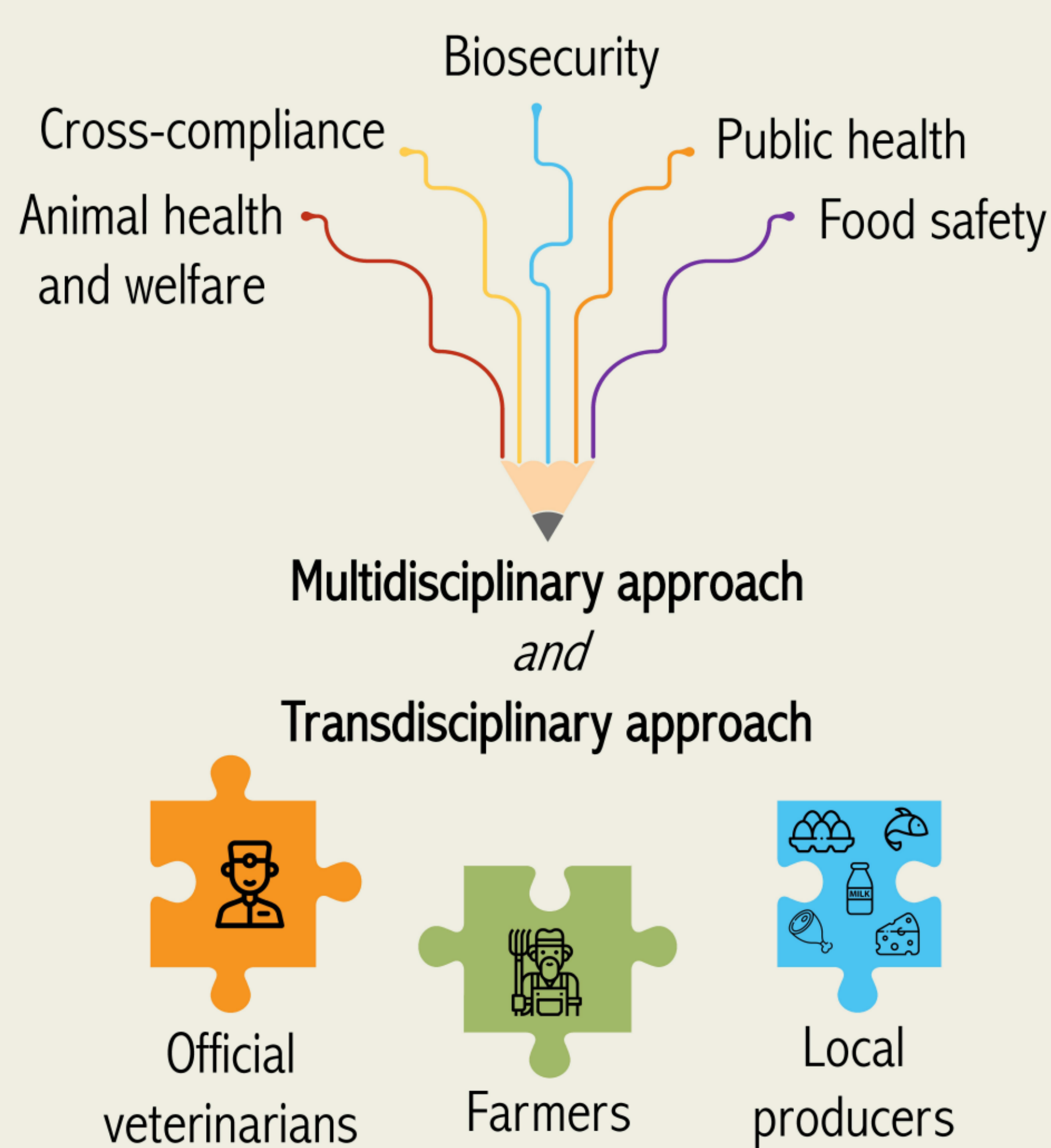
One Health (OH) has been defined as “the collaborative efforts of multiple disciplines working locally, nationally, and globally, to attain optimal health for people, animals and the environment”. Education plays a very important role in realizing the OH concept by cultivating interdisciplinary thinking and fostering collaborations early in the career of veterinarians.

## AIM

In 2014, the Transmissible Diseases professional practical training of the Veterinary Medicine degree course at the University of Bologna (UNIBO) was redesigned with the aim to include the OH approach in the study and management of transmissible diseases.

## MATERIALS AND METHODS

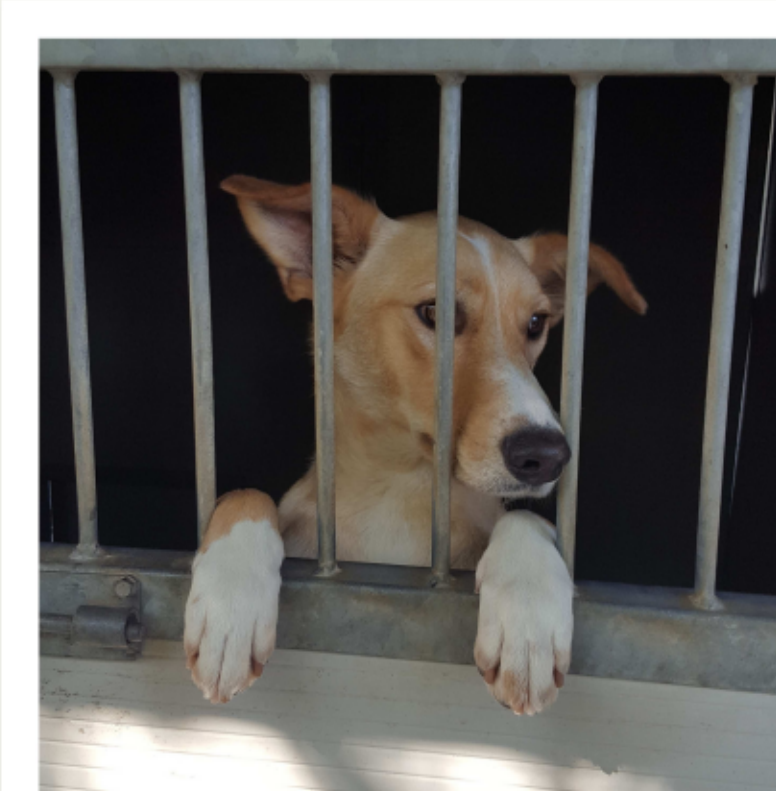
### Topics and methodology



### Activities



Farm visits



Shelter visits



Sampling



Laboratory diagnostics

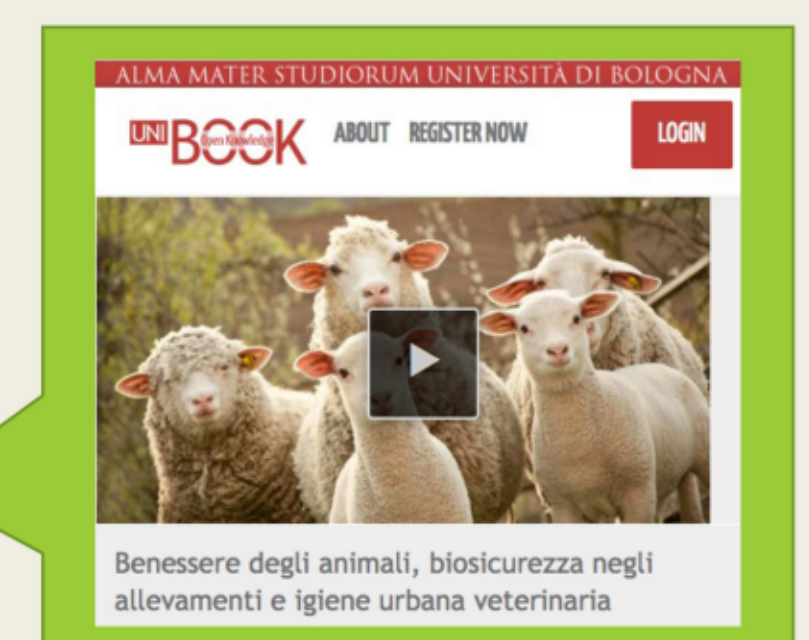
### Massive Open Online Course (MOOC)

Launched in 2020

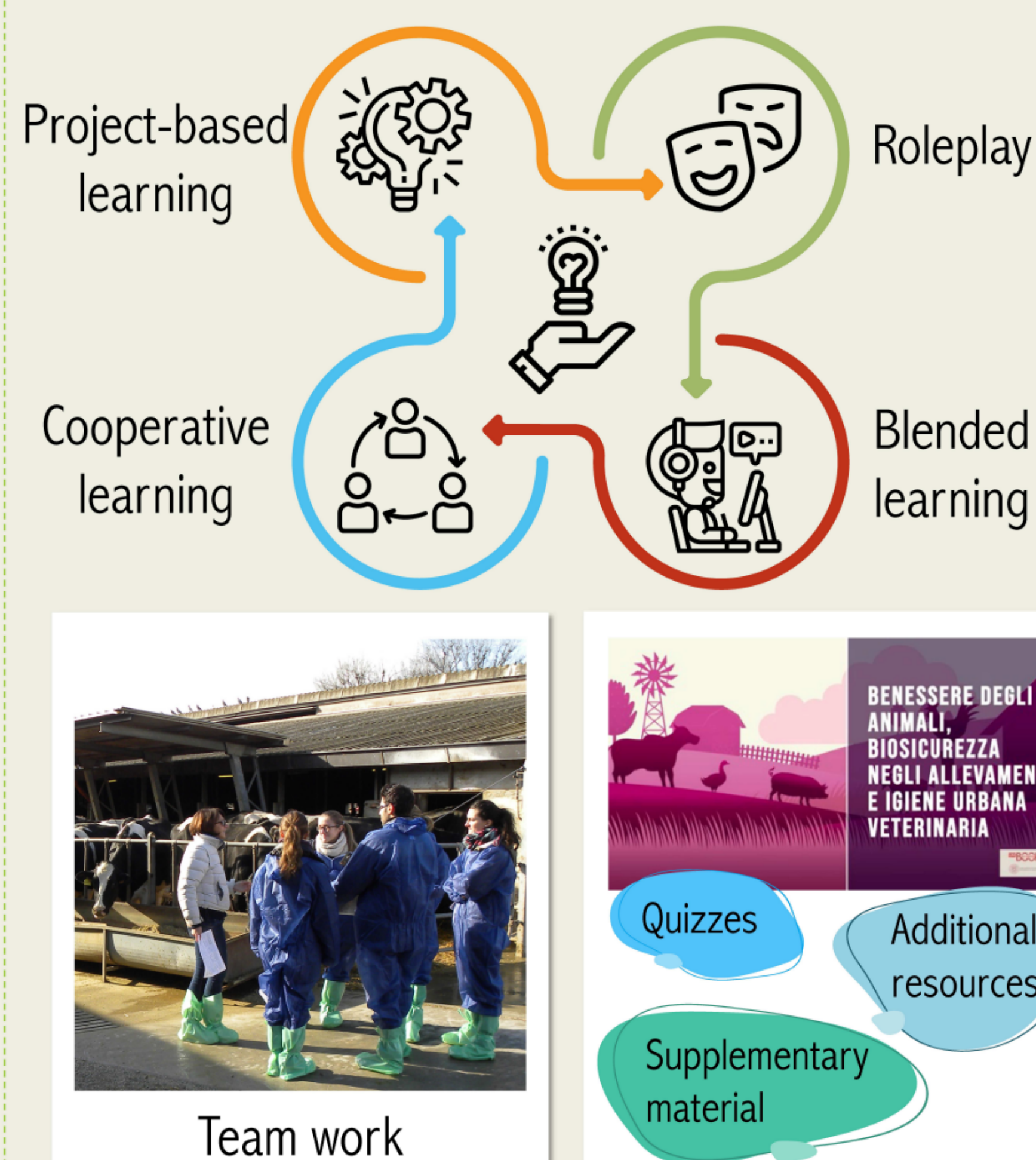
Aim: to provide students with a stronger knowledge base on **risk assessment in a OH perspective**

Contents:

- Week 1: General principles of biosecurity
- Week 2: Biosecurity in cattle and small ruminant farms
- Week 3: Animal welfare
- Week 4: Risk analysis and official controls
- Week 5: Veterinary urban hygiene



### Innovative teaching methods



### Roleplay

In the shoes of the **official veterinarian**, who verifies compliance to the law



During the visit

After the visit



In the shoes of the **farm veterinarian**, who works in cooperation with the farmer to improve biosecurity, animal health and welfare

### Final assignment

Working in small groups, the students prepare and discuss a **report** on the visited farms and shelters, highlighting:



and proposing **measures for improvement** by making a list of priorities according to importance and feasibility.

## RESULTS

To date, 545 students have attended the training. Besides professional skills, the students acquired soft skills such as communication, problem solving and teamwork. The MOOC has been successfully completed by 166 UNIBO students and 119 external users.

## CONCLUSIONS AND NEXT STEPS

The training described here is a tangible example of the implementation of a OH perspective in veterinary education. The MOOC turned out to be an invaluable resource during the COVID-19 pandemic; the high number of external users proves its utility. English subtitling is in progress to expand its usability. The development of virtual farm/shelter visits is also underway.

