

OIE - GIS training course

Course presentation



OIE Collaborating Centre for epidemiology, training and control of emerging avian diseases



OIE Headquarters




OIE Cooperation Project

OIE Cooperation Project

gis.izsvenezie.it/cooperation/oie/izsve-caiq/index.php



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OIE COOPERATION PROJECT

Capacity development for implementing a Geographic Information System (GIS) applied to surveillance, control and zoning of avian influenza and other emerging avian diseases in China.


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Project description

The Istituto Zooprofilattico Sperimentale delle Venezie - OIE Collaborating Centre for Epidemiology and Training on Emerging Avian Diseases (IZSve) and the Chinese Academy for Inspection and Quarantine (CAIQ), have started on 27th October 2014 an OIE (World Organisation for Animal Health) Cooperation Project entitled "Capacity development for implementing a Geographic Information System (GIS) applied to surveillance, control and zoning of avian influenza and other emerging avian diseases in China". The main objective of the project is to allow CAIQ to acquire expertise to introduce and design GIS applications for surveillance, disease control, and zoning. To achieve this objective capacity building activities on GIS management techniques, spatial statistical analyses and spatial models integrated with GIS applications will be developed during the two years project.

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Course Aims

The overall aim of the course is to provide basic knowledge on GIS for veterinarians and technicians working in local or central veterinary organisations, who require core training and skills in planning and developing GIS projects to support animal disease control activities. In particular, the course learning outcomes are the following:

- The participant will demonstrate proficiency in the use of geospatial software, including capture, editing and management of geographical disease event data.
- The participant will demonstrate proficiency in map creation and design, including thematic map display and cartographic design for decision support systems.
- The participant will be able to run geoprocessing tools and develop exploratory spatial data analysis

Course outline

The course is organised in three modules:

Module 1. In this module we will provide an overview of geographic information systems (GIS) and their applications in the veterinary domain. In particular, the various technologies used by veterinarians to integrate spatial aspects in disease management activities will be presented.

Module 2. This module will provide practical examples on the fundamentals of GIS and how to build digital maps using the QGIS open source software, which allows free unlimited use for private or commercial applications. Topics covered in this module will include GIS operation and cartography composition through a series of lectures and computer-based exercises.

Module 3. In this module, the basic techniques and processes to perform exploratory spatial analyses will be presented and discussed. Moreover, some use cases and practical applications will be presented by GIS experts of OIE Collaborating Centre

Course syllabus

Day 1

12th March 2018

Hours	Title	Lecturer
9:00 - 09:30	Opening and welcome speech	CAIQ / AQISQ
9:30 - 10:00	Course presentation	Qiu Songyin
9:30 - 10:00	GIS definitions and application in the veterinary contexts - the OIE perspective	OIE Expert
10:45 - 11:15	<i>Break</i>	
11:15 - 11:45	The Use of GIS in animal diseases response	Stefano Marangon
11:45 - 13:00	Element of semiotics and application for some common veterinary thematic maps	Nicola Ferrè
13:00 - 14:30	<i>Lunch</i>	
14:30 - 15:30	Introducing Quantum GIS Practical exercise: <ul style="list-style-type: none">• QGIS preliminary operations and overview of QGIS interface• Display map data• Navigating Map• Looking at feature attribute	IZSVe staff
15:30 - 16:30	Symbolising features Practical exercise: <ul style="list-style-type: none">• Changing Symbology• Symbolising by categorical attributes• Symbolising by quantity attributes	IZSVe staff
16:30 - 16:45	<i>Break</i>	
16:45 - 17:30	Labelling features Practical exercise: <ul style="list-style-type: none">• Using label to describe features	IZSVe staff

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The Use of GIS in animal disease response

An empirical approach for the implementation of a GIS project to capture, manage and analyse spatial data related to disease events

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English lectures and material

There are many operational activities during a disease event that can benefit from a geographic information system (GIS). A GIS can be defined as a system for capturing, storing, checking, integrating, manipulating, analysing and displaying data which are spatially referenced to the Earth. Thanks to these capabilities, a GIS allows users to highlight answers to questions about the location and distribution of a particular disease event and manage the relate spatial information. Frequently-used GIS questions in animal diseases response include: "Where is/Where are...", "How far is...", "Where is the limit of the restriction area for...", "What patterns exist...". The ability of a GIS to capture spatial information, merge datasets, carry out exploratory spatial data analyses, and produce colour summary maps, has been a boon to decision makers in case of animal disease response.

The simplest use of GIS during a disease event entails point mapping of farm locations, proximity to other farms and point of interest, restriction areas creation, together with a exploratory spatial data analyses of the features of interest. To realize these functionalities, the minimum requirements are: a well defined framework for spatial data capturing and managing, a software for storing, analysing and displaying the data, and undoubtedly staff who know how to perform and process exploratory spatial data analyses.

Get more information

 Collaborating Centre for Epidemiology, Training and Control of Emerging Avian Diseases

 IZSVe Istituto Zooprofilattico Sperimentale della Venezia

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