OIE - GIS training course

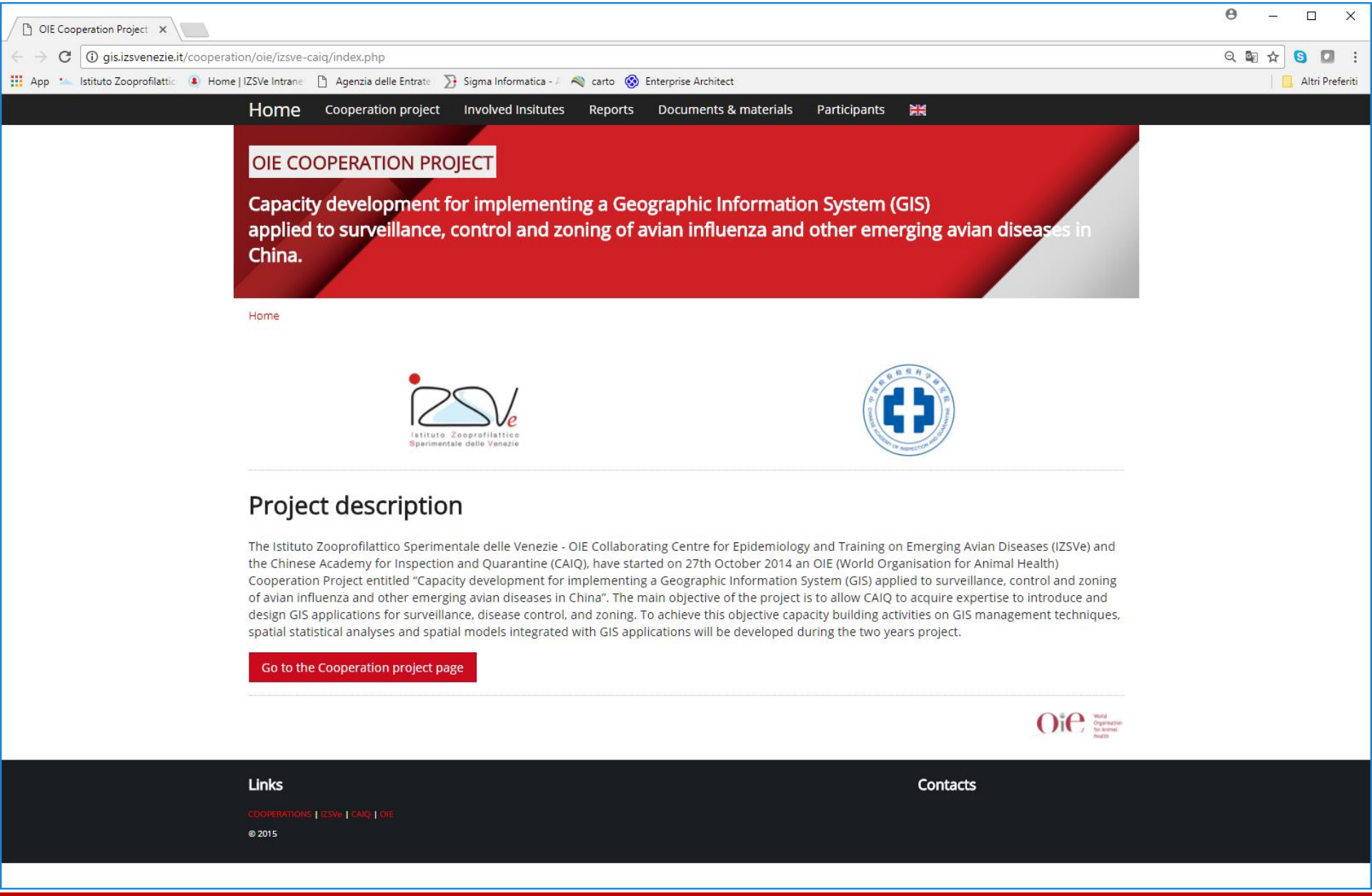
Course presentation

Istituto Zooprofilattico Sperimentale delle Venezie
OIE Collaborating Centre for epidemiology, training and control of emerging avian diseases

World Organisation for Animal Health
OIE Headquarters

CHINESE ACADEMY OF INSPECTION AND QUARANTINE

OIE Cooperation Project



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	*Break*	
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	*Lunch*	
14:30 – 15:30	Introducing Quantum GIS Practical exercise: • 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: • Changing Symbology • Symbolising by categorical attributes • Symbolising by quantity attributes	IZSVe staff
16:30 – 16:45	*Break*	
16:45 – 17:30	Labelling features Practical exercise: • Using label to describe features	IZSVe staff

On-line lessons