GIS fundamentals | Training Course **Agenda**

The use of Open-Source, Real-Time Geo-Visualization in Monitoring Vectors and Vector Borne Diseases, Jelsa, Croatia, 13-17 May 2019

Day 1

INTRODUCTION

- Course objectives & setup [lectures & hands-on sessions]
- Course resources and materials

FUNDAMENTAL GIS CONCEPTS

- Geographical data representation: vector, raster (image)
- Layers & Geometry types (points, lines & polygons)
- Coordinate Reference System (CRS)
- Notion of scale
- Different maps for different purposes: thematic mapping, Digital Elevation Models, topographic, …

QGIS

- Set up
- Handling GIS layers (opening, overlaying, selecting features, basic styling and saving as project)
- Handling Coordinate Reference Systems (CRS)
- Importing data from Excel files & overlaying it over Google Maps
- Handling QGIS plugins

Day 2

- Managing data attributes
- Creating buffers (zoning)
- Collecting geographical coordinates
- Editing an existing layer (add, update, delete features)

Day 3

- Mapping number of cases in a grid
- Dissolving polygons
- Mapping number of cases by administrative boundaries
- Interpolation techniques introduction
- Time series animation