

GIS FUNDAMENTALS TRAINING COURSE | AGENDA

The use case of animal diseases monitoring, Accra,
Ghana, 10-14 October 2016

DAY 1

[INTRODUCTION]

- ▶ Course objectives [lectures & practical classes]
- ▶ Course resources and materials

[FUNDAMENTAL GIS CONCEPTS]

- ▶ Geographical data representation: vector, raster (image)
- ▶ Layers
- ▶ Coordinate Reference System (CRS)
- ▶ Notion of scale
- ▶ Different maps for different purposes: thematic mapping, Digital Elevation Models, topographic, ...

[QGIS]

- ▶ Set up
- ▶ Opening and overlaying Layers
- ▶ Handling CRS

DAY 2

- ▶ Importing data from Excel files
- ▶ Handling QGIS plugins
- ▶ Data attributes management
- ▶ Creating buffers (buffer zones)
- ▶ Merging (dissolving features)

DAY 3

- ▶ Collecting geographical coordinates through mobile phone
- ▶ Editing Layers (add, update, delete features)
- ▶ Generating “fishnet” grid layers
- ▶ Aggregating points in polygons: counts, sums of cases/deaths per administrative boundaries, grid cells)
- ▶ Basic thematic mapping

DAY 4

- ▶ Thematic mapping (continued)
- ▶ Time series animation

[ONLINE MAPPING WITH CARTO]

- ▶ Intro
- ▶ Data upload
- ▶ Styling map

DAY 5

- ▶ Time series animation
- ▶ Map dissemination

[QGIS]

- ▶ [Optional] Composing map layout [title, scales, legend, ...]
- ▶ [Optional] Mapping participants own datasets

[COURSE WRAPUP]

- ▶ Finalizing exercises
- ▶ Uncovered topics and further resources