Agenda

The use of geoinformation in (anticipatory) humanitarian action

Background

Anticipatory action seeks to reduce the negative impacts of disasters by providing assistance to populations before a predicted crisis. It means acting prior to the onset of predictable hazards and, thus, aiming at reducing their impact and overall reducing human suffering and losses.
It has only been a few years since humanitarian agencies started to develop systems to take action based on forecasts and risk analyses. Project experiences however already demonstrate the great potential of geodata and geoinformation technology for (anticipatory) humanitarian action.
In the scope of the course, participants will learn how to best harness the potentials of geodata and geoinformation technology in anticipatory action contexts.
The course will provide an overview of existing data sources, including user-generated open data such as OpenStreetMap. Participants will learn to acquire and utilize the different kinds of geodata in a systematic manner, with a particular focus on the risk analysis context in order to provide needs-based and anticipatory humanitarian assistance.

Objectives

At the end of this course participants

- know the most important uses of geodata in humanitarian aid.
- know sources of publicly available geodata.
- are familiar with the basic functionality of QGIS.
- are familiar with the use of geodata in risk analysis.
- critically reflect on the usability of geodata in their work context.

Participants

- German and international NGOs, anticipatory action practitioners
- beginners in GIS

Webinar structure and timeline

- Online course
- 6 half days: 17, 19, 21, 24, 26, 28 January 2022 (9am to 1pm CET)
- Input + self-study time

Day 1	**Introduction to coordinates, geodata and QGIS**
9:00am - 1:00pm	• Course introduction • Basics of working with coordinates • Layer concept and data types • First steps in QGIS

Day 2	**Visualization in QGIS**
9:00am - 1:00pm	• Data sources and import • Attribute tables • Classification of data • Layer symbology • Map creation in QGIS
Day 3	**Basic data analysis and geometry operations**
9:00am - 1:00pm	• Spatial and non-spatial query • Basic geometry operations • Isochrones - Travel Time
Day 4	**Case Study: Working with open geodata in Anticipatory Action**
9:00am - 1:00pm	• Introduction to OSM and Export OSM Data- HOT Export Tool • Introduction to HOT and Export OSM Data- Quick OSM
Day 5	**Risk assessments for Anticipatory Action and intervention map**
9:00am - 1:00pm	• Risk assessments and INFORM Index • Creation of intervention map • Introduction into final assignment
Day 6	**Final assignment, recap and conclusion**
9:00am - 1:00pm	• Time for final assignments • Feedback and Closing

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