Getting started with QGIS

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SII-291 **2 Days (14 Hours)**

Description

Geoprocessing, geocoding, spatial join, DEM processing, interpolation, raster calculator, link to GRASS

Who is this training for ?

For whom

-People who handle geographic data. -In order to adapt the training content to the expectations of the trainees, a downloadable questionnaire must be completed and returned at the time of registration.

Prerequisites

None.

Training objectives

- Acquire the theoretical and practical bases related to GIS (geographic information system)
- Introduce yourself to the use of QGIS software to consult, analyze geographic data and represent it in the form of maps
- Be able to formalize a problem in GIS language

Training program

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- - Theoretical introduction to GIS and the types of data used in GIS software. Application on QGIS: display of vector and raster layers, exploration of layer properties and attribute tables.
- Overview of coordinate systems and management of this information in QGIS (by layer, by project, on-the-fly projection).
- Presentation of the QGIS extension system and example of use from “Openlayers plugin”.
- Theoretical notions of graphic semiotics and application in QGIS: choice of vector and raster data representation, map layout.

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- Continuation and end of map layout in QGIS.
- Point on the notion of metadata.
- Georeferencing scanned maps in QGIS.
- Creation of point vector layers from a list of coordinates.
- Creation of vector layers by digitizing the base map: presentation of the QGIS input tools.
- Presentation of selection and join processing then application with QGIS.
- Theoretical course on spatial analysis applied to vector and raster data then put into practice in QGIS through exercises.