RELATION BETWEEN VIDEOS AND ACTIVITIES

VIDEO	TITLE	VIDEO ACTIVITY	MATERIAL	ACTIVITY
video0_en.mp4	Qgis installation			
video1_en.mp4	Spatial componets: geometry, data and style			
video2_en.mp4	Creating a polygon geojson file			Activity 1. Digitize a point with position of high School and polygons to assign zones to workgroups in mapping field. Write the file in geojson format follonero the steps in "video1_en.mp4" and "video2_en.mp4".
video3_en.mp4	Open a Qgis project	Open "session1/project_session1_intro.qgz"	session1.zip	
video4_en.mp4	Create a new Qgis project	create "session1/project_session1_add_data.qgz"	session1.zip	Activity 2: Install Qgis program like in "video_0_en.mp4 and create a Qgis project adding vector and raster layers following the steps in "video4_en.mp4". Watch "video3_en.mp4 first.
video5_en.mp4	Cartographic projections in Qgis	 create "session1/session1_projections.qgz" create "session1/session1_projection_3857.qgz" create "session1/session1_projection_53030.qgz" create "session1/session1_projection_53024.qgz" create "session1/session1_projection_53018.qgz" 	session1.zip	Activity 3: Work with cartographic projections following the steps in "video5_en.mp4" and create a 4 Qgis project, each one with a projection.
video6_en.mp4	Administrative divisions and national cartographic projections in Europe (NUTS)	create session2_NUTS.qgz	session2.zip	Activity 4: Unzip "session2.zip" and work with European administrative units (NUTS) and understanding the local projections that are applied, following the steps in "video6_en.mp4". Evaluation: Test questions autoevaluation
video7_en.mp4	Data formats and symbolizations	Create "sessio3/session3 datasources.qgz"	session3.zip	
video8_en.mp4	Online data with XYZ tiles	Create "session4/session4_online_datasource.qgz"	session4.zip	Activity 5: - Unzip "session4.zip"

				 Watch the "video_7_en.mp4" and "video8_en.mp4". Create a Qgis project called "my route" with EPSG code 3857, where you must add a GPX route downloaded from the "Wikiloc" web portal. Add a background XYZ layer with this origin: http://server.arcgisonline.com/arcgis/rest/service s/World_Topo_Map/MapServer/tile/{z}/{y}/{x}
video9_en.mp4	Online databases: PostgreSQL/PostGIS	Open "session4_online_datasources.qgz" (created in video8_en.mp4). Save as session4_online_datasources_postgis.qgz Use syles defined in "session4/styles" folder	session4.zip	
video10_en.mp4	Spatial Data Infraestructure (SDI)	Create "session4/session4_wms.qgz"		 Activity 6: Unzip "session4.zip" Watch the "video_9_en.mp4" and "video10_en.mp4". Create a Qgis project called "my zone" with the following layers: add the WMS layer with the base cartography of your country seen in video 9. from the Postgis database named "water" add the layers: "lau" and "river". Watch video_8 to understand how to add layers from a PostGis database. Arrange the layers in this order: wms base mapping, nuts and rivers. Symbolize the nuts so that the fill is transparent. Zoom in to the area where you are working.
video11_en.mp4	Relationships between tables and choropleth mapping	Create "session5/session5_choropleth.qgz"	session5.zip	
video12_en.mp4	Map layout	Open "session5/session5_map_composition.qgz"	session5.zip	
video13_en.mp4	Create a new map layout in Qgis	Open "session5/session5_map_composition.qgz" and create new layout	session5.zip	Activity 7: - Unzip "session5.zip" - Follow the instructions of the "video11_en.mp4" to make a choropleth map. - Create a layout composition called "COVID - 19 in Italy" with all the components: map, scale,

				legend, title, .etc. To learn more about the compositions watch the videos"video12_en.mp4" and "video13_en.mp4"Export the map in a PDF file named"covid19_italy.pdf".
video14_en.mp4 video15_en.mp4	Introduction to QField: Addon Generating a raster file from an online services (MBTiles)	Create "session5/session5_HCMGIS.qgz" Create "session5/session5_mbtiles.qgz" Create "openstreetmap_level_10-18.mbtiles"		Activity 8: Generate custom data (MBTiles) - Create a QGis project and add an OpenStreetMap XYZ layer and zoom into the area where the hydraulic heritage data will be collected. - Generate an MBTiles file with these characteristics: • zoom levels: minimum 5, maximum not to exceed 18 • the area should not be too large • the resulting file should not exceed 20 Mb. NOTE: If in the area there is not much detail in
video16_en.mp4	Introduction to QField:			OpenStreetMap you can use instead the Google Satellite layer provided by the HCMGIS plugin.
video17_en.mp4	Open a "master" Qgis project for QField	 Open "session6/project_master" Create folder "folder_qfield_june_2021" 	session6.zip	Activity 9: Custom a master Qgis project for work with Qfield - Unzip "session6.zip" - Open Qgis project seen in video 17 - Delete the existing orthophoto layer - Add the MBTiles layer that you have generated in the previous activity - Create a "portable" project to work with Qfield named "folder_qfield_ <month>_<day>_<year>! - Save the project and copy this folder to your mobile in "Download" folder.</year></day></month>
video18_en.mp4	Working with QField	Digitalize hydraulic heritage points with QField		Activity 10: QField mapping - Copy the directory with the portable project generated in the previous activity to your mobile

				 device. Paste it in the "/Download" folder. Open the project in the folder you copied from QField. Perform a fieldwork session collecting hydraulic heritage elements. Copy portable folder to PC
video19_en.mp4	Synchronizing field data	Synchronize mapping folder	session6.zip	 Activity 11: Sync mapping data Transfer the folder you have used in QField from the cell phone to the PC. Open the master project and synchronize the data using the "QField Sync" plugin. To perform this activity we recommend you to watch the "video19_en.mp4". Open "master Qgis project and synchronize usign QField Sync plugin