D 6.2.1.

Updated DFGIS with incorporated WP4 results for all pilot areas

WP:

WP6 Floodplain tools optimization, application and dissemination

Activity:

6.2 Optimization: Danube Floodplain GIS and Inventory

Activity-Leader:

SZTE – University of Szeged, Hungary

Involved partners

USZ, BOKU, TUM, NARW, NIHWM, SWME, MRBA, KÖTIVIZIG, CUEI, MEWF

Project co-funded by the European Union (ERDF, IPA funds)

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1. Introduction

As part of WP3 of the Danube Floodplain project, the Danube Floodplain Geographic Information System (DFGIS) was developed. Activity 6.2 extended the content and functionality of the Danube Floodplain GIS (D3.1.2) and Inventory (D3.1.3) with the outputs of the activities in WP 4 (which were not planned in the original application form of the Danube Floodplain project) and WP 6. In the original version of the DFGIS, all FEM outputs related to the active and potential Danube floodplains and the selected tributaries were stored and published via a web interface. The extension consists of several parts. First, the results of the ecosystem services (ESS) and biodiversity analysis of the pilot areas of WP4 are integrated in the DFGIS and DFInv. Second, the extended parameters (sediment balance, water level dynamics and extended CBA) of the new FEM tool (act 6.1) have been added. Third, the FEM evaluation results of the extended pilot areas will be incorporated. The extensions will make sure that all data of the Danube Floodplain project is stored and published on a uniform platform to support floodplain restoration and preservation. The last extension consists of addition of the historical floodplains along the Danube and Tisza. The extensions will make sure that all data of the Danube Floodplain project is stored and published on a uniform platform to support floodplain restoration and preservation. The updated data from the pilot areas will also be provided to Danube GIS.

2. WP4 results for all pilot areas: maps

In the application form for the Danube Floodplain project, 5 pilot areas have been defined where detailed analysis of the floodplain functionality has been conducted. These areas are:

- Begecka Jama
- Bistret
- Krka
- Middle Tisza
- Morava

The DFGIS was extended with the maps of the pilot areas (Figure 1). General information can be queried from the individual polygons in the online map:

http://www.geo.u-szeged.hu/dfgis/

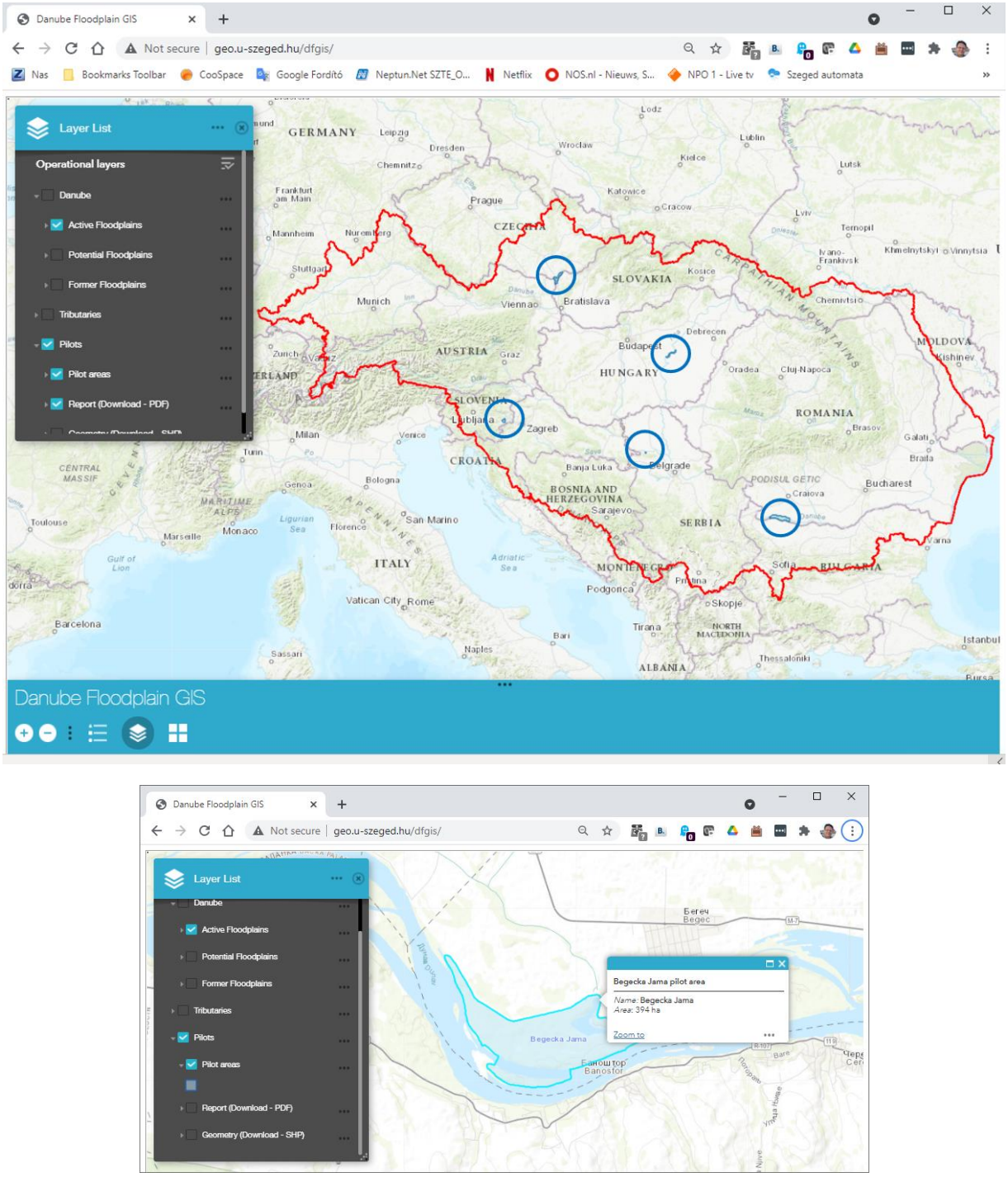

Figure 1. All pilot areas (top) and the Begecka Jama pilot area (bottom) in the DFGIS

The geometry of each pilot area can be downloaded in the form of a ESRI shape file. The shape files can be used for further analysis in external GIS systems like QGIS or ArcGIS.

The results of the detailed analysis have been published in many reports available of the project's website http://www.interreg-danube.eu/approvedprojects/danube-floodplain/outputs:

- Deliverable 4.1.1. (Danube Floodplain, 2020a)
- Deliverable 4.2.1. (Danube Floodplain, 2019)
- Deliverable 4.2.2. (Danube Floodplain, 2020b)
- Deliverable 4.2.3. (Danube Floodplain, 2020c)
- Deliverable 4.3.1. (Danube Floodplain, 2021a)
- Deliverable 4.3.2. (Danube Floodplain, 2021b)

Based on these documents a summary report was compiled and added to the DFGIS (D 6.2.3.).