

DigLogs

WP2 Pilot implementation

Progress Report #2

5.3.3. Spatial Data Management System

Responsible partner: CFLI			
Involved partners: All			
Version	Status	Date	Author
0.1	Draft	31.03.2021	CFLI
0.2	Final	30.04.2021	CFLI
Notes:			

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1 Reporting period

Reporting period	01.03.2021 - 30.04.2021
Date of the report	30.04.2021

2 Pilot action progress status

2.1 Pilot implementation schedule

The pilot action implementation follows the previously defined roadmap, which is reported as follows for convenience.

Note that the roadmap tasks are not strictly sequential, as many of them are going to be carried out in parallel or to follow different priorities.

(completed tasks reported in bold)

1) Pilot planning

- a) **Target definition**
- b) **User needs analysis**
- c) **Hardware/Software prerequisites definition**
- d) **Spatial data set to be used for the pilot implementation**
- e) **Involved processes and services analysis (re-scheduled)**
- f) **Training and educational program**

CHECK OFF MILESTONE 1 - PLANNING (FEB 2021): COMPLETED

2) Spatial datasets acquisition

- a) **Data acquisition** (started and running in parallel with implementation)
- b) **Analysis of the spatial data packages for the pilot test** (started and running in parallel with implementation)

- c) **Optimization and pre-processing training on the job** (started and running in parallel with implementation)

3) Spatial Data Infrastructure implementation

- a) **Data model design**
- b) **Performance requirements analysis**
- c) **IT infrastructure implementation (HW/SW)**
- d) **Network configuration**

CHECK OFF MILESTONE 2 – PREPARATION (APR 2021): COMPLETED

4) Data migration

- a) Workshop with involved users
- b) Spatial data conversion and migration test
- c) Spatial data conversion and migration training on the job

CHECK OFF MILESTONE 3 – DATA MIGRATION (AUG 2021)

5) Procedures implementation

- a) Procedures objectives assessment
- b) **Grants policy definition**
- c) Procedures development training on the job
- d) Information design and delivery workshop / training

6) Processes and services optimization analysis

- a) Definition of involved processes and services
- b) Identification of spatial-data-driven support to processes and services
- c) Workshop with involved users
- d) Process / service re-design assessment

CHECK OFF MILESTONE 4 – PROCEDURES TESTS (NOV 2021)

2.2 Progress status

Stage 1 have been completed considering that it was decided to develop task *1e* underway with training activities within the various departments.

Regarding the spatial dataset integration activity, the pre-assessment layer list is confirmed to be the last reported, with the addition of the new “Underground services” spatial dataset:

- Weather station data
- Buoys / Dolphins
- Mo.S.E. system structures
- Navigation aid systems
- Railway
- Streets
- Aerial photogrammetry digital map
- Orthophoto
- Coastline
- Venice Port boundary
- Trees and green areas
- Waste bins location
- Seabed bathymetry
- Lighted pathway
- Public property areas
- Canals and basins
- **Underground infrastructures (latest addition)**

The **stage 2** related to dataset acquisition has started and it can be considered as completed since tasks 2a, 2b and 2c are going in parallel. The first 6 datasets have been integrated into the system:

- Railway (processed items: 5; output items: 3)
- Public properties areas (processed items: 1)
- Canals and basins (processed items: 1)
- Bathymetry (processed items: 33; output items: 33)
- Buoys / Navigation aids systems (processed items: 3; output items: 3)
- Venice Port boundary (processed items: 3; output items: 1)

Total output items integrated into SDI: 42

The **stage 3**, related to the infrastructure implementation, is completed.

The **stage 4** is in a test/preview stage as some activities are going in parallel with stage 2, particularly regarding the dataset conversion and migration procedures.

Initial training activities was carried out for the following departments:

- Strategic Planning and Development Department (DPSS)
- Technical Department (DTEC)

With the employees belonging to these departments, so far, 16 workshop / training-on-the-job sessions were carried-out, involving 8 different operators / decision-makers.

Stage 5 was started.

A special procedure was developed to manage the grants policy of users belonging to different departments.

Another special procedure was defined to implement the maintenance of bathymetry layer by integrating new point cloud files within the DEM raster mosaic, while further minor procedures was aimed at integrating single datasets into one geospatial database table in order to be simpler to access from operators.

Also, a lightweight visualization tool has been developed to browse the seabed bathymetry map via a web browser consuming the implemented WMS spatial web service.

Stage 6 is still scheduled for the next months.

2.3 Milestones and actions

Milestone / action	Responsible partner / external resource	Deadline, as defined in PWP	Predicted or achieved completion date	Estimated completion %	Progress status
Milestone 1	CFLI	Feb 2021	Feb 2021	100%	COMPLETED
Milestone 2	CFLI	Apr 2021	Apr 2021	100%	COMPLETED
Milestone 3	CFLI	Aug 2021	Aug 2021	30%	ONGOING
Milestone 4	CFLI	Nov 2021	Nov 2021	0%	SCHEDULED

3 Risks

Risk description	Solution suggestion	Status
No risks were encountered	n/a	Risks monitored

4 Next steps

The next planned steps concern:

- a) Continue with the spatial dataset optimization/migration tasks and reach the MS3 in time
- b) Continue with the training activities
- c) Continue with the processes analysis and procedures definition