



Framework for Geodata survey

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1. Summary of WP3

The aim of WP3 as an inception phase is characterized by different activities, i.e. analytical and cognitive ones, in order to achieve the objectives of STATUS project. Different methods of qualitative analysis (like stakeholders' analysis in report 3.1.) and SWOT analysis will be used not just in terms of networking but also as an opportunity for achieving a more in-depth knowledge of local urban issues' state of the art. Finally, all these activities will provide a clear framework of available data, current planning tools, and pools of local actors characterizing the partner cities planning areas.

The Technical Report on Geo-data will evaluate the Geo-data state of the art in the territorial partners areas, both to graphically represent the Agendas and to understand how potentially ready for smart services they are.

This document provides a comprehensive report about the dataset available and the analysis performed in terms of: file format, projection system, and metadata, which have been carried on for each territorial partner.

Moreover, the document focuses on the already available GIS services and highlights the directives/guidelines that the territorial partners follow during its collecting and updating geo-datasets.

The analysis performed on the dataset is preparatory to the definition of the adaptation required at later stages of the project. Data adaptation is a key phase to provide the harmonized data needed to set-up the online platform developed in WP6.

An online survey has been provided in order to collect information from each territorial partner. Each partner took into account specific guidelines to complete the survey in the most appropriate way and with the largest amount of information available.

Having a full and complete view of the data available from all territorial partners is essential for the proper implementation of the project future activities and planning.

2. Guidelines for Geo-Data Survey

Reported below is the table that describes the guidelines for the completion of the survey.

GENERAL INFORMATION

01. This document is designed to have a complete and comprehensive vision on dataset collected by territorial partners and that are currently available
02. Moreover, it would focus on GIS services already available and would highlight the directives/guidelines that the territorial partners follow during collecting and updating geo-data processes
03. All the territorial partners have to complete their dedicated spread sheet with as much information as possible
04. The fields marked with * are mandatory
05. If a field is not applicable for a specified dataset, please specify N/A (no blank cells)
06. For any doubts, please contact the staff of Fondazione GraphiTech via email at the following address: status@graphitech.it

INFORMATION ON HOW TO FILL IN THE URBAN DATA TABLE

01. "id" field: a progressive "dataset identifier" (e.g. D1, D2...etc.)
02. "Dataset Title" field: the title of the dataset
03. "Dataset Description" field: a description of the dataset (max. 300 words)
04. "Format" field: the format of the dataset
05. "Native SRS" field: the SRS (Spatial Reference System) of the dataset
06. "Grid Resolution / Pixel Size" field: the resolution of the dataset specifying the measure unit
07. "Scale" field: the scale of the dataset
08. "BBOX" field: the Bounding Box (area) of the dataset (the area is defined by 2 points in lat/long coordinates)
09. "Date of acquisition" field: when the dataset has been created
10. "Support" field: where is stored the dataset or where is available (CD, DVD, FTP, HTTP...)
11. "Acquisition Procedure" field: the methodology by which the dataset has been created
12. "Language" field: the language of the dataset (English, Italian, Greek...)
13. "Metadata" field: does the dataset contain metadata?
14. "Metadata Standard" field: the followed standard by the metadata
15. "IPR" field: the intellectual property rights of the dataset
16. "Authorization" field: is the dataset public or private?
17. "Sample for testing" field: if available, the dimension (in bytes) of the sample dataset
18. "Total Size" field: the total dimension (in bytes) of the dataset
19. "Note" field: supplementary useful information (e.g. the raster is tiled etc.)

INFORMATION ON HOW TO FILL IN THE GIS SERVICES TABLE

01. The fields with the same name of the URBAN DATA table have the same meaning
02. "OGC Web Interface" field: the type of web service according to the OGC standards
03. "Native SRS" field: the SRS (Spatial Reference System) of the dataset
04. "exposed SRS by the service" field: the SRS (Spatial Reference System) of the dataset that the service can expose (it might be different from the native SRS)
05. "HTTP Reference" field: the link to access the service

INFORMATION ON HOW TO FILL IN THE LOCAL STRATEGY FOR COLLECTING AND UPDATING GEO-DATA TABLE

01. Do you have a local strategy for collecting Geo-Data? (Yes / No - if No specify N/A on the other cells)
02. Do you follow a specific directive/guidelines? (Yes / No)
03. Is the directive/guidelines public or internal? (Public / Internal)
04. Language (Specify the directive/guidelines language)
05. URL for the directive/guidelines (Specify where the directive/guidelines are available)
06. Do you have a local strategy for updating Geo-Data? (Yes / No - if No specify N/A on the other cells)
07. Do you follow a specific directive/guidelines? (Yes / No)
08. Is the directive/guidelines public or internal? (Public / Internal)
09. Language (Specify the directive/guidelines language)
10. URL for the directive/guidelines (Specify where the directive/guidelines are available)
11. Refresh Rate (How often is the dataset updated)
12. Note (Supplementary useful information)

LIST OF SUPPORTED FORMATS

01. VECTOR
 - Shape file (SHP)
 - AutoCad DXF/DWG
 - KML, KMZ
 - Others
02. RASTER
 - TIFF + TFW
 - GeoTIFF
 - ECW
 - PDF
 - Others
03. ALPHANUMERIC
 - CSV (comma separated values)
 - Others
04. GRID / DTM / DSM
 - ASCII .ASC (ArcGRID)
 - XYZ
 - Others
05. METADATA
 - XML file / URL ref
 - Others

Table 1 - Guidelines

3. Geo-Data Survey for Territorial Partner

Urban Data																		
Id	Dataset Title*	Dataset Description*	Format*	Native SRS*	Resolution	Scale	BBOX *	Date*	Support*	Acquisition	Lang	Meta data	Metadata Standard	IPR	Author	Sample testing	Total size	Note
D1	Surface Area 1	Lorem ipsum dolor sit amet...	ASCII	EPSG:32632	50 pt/km2	N/A	36.14, 1.55, 47.13, 20.5	2009-01-01	FTP	LIDAR	EN	Yes	ISO 19115	Municipality	Private	10MB	1 MB	N/A
D5	DTM Area 1	Lorem ipsum dolor sit amet...	PNG	EPSG:32632	20m	N/A	14.0, 15.0, 50.0, 51.0	2009-01-01	CD	LIDAR	N/A	Yes	ISO 19115	Open Source	Public	300MB	7GB	N/A
D7	Ortophoto Zone 1	Lorem ipsum dolor sit amet...	TIFF	EPSG:4326	N/A	1:20000	14.0, 15.0, 50.0, 51.0	2009-01-01	HTTP	Photogrammetry	N/A	Yes	ISO 19115	Open Source	Public	1GB	5GB	N/A

Table 2 - Urban Data Example

GIS Services																		
Id	Dataset Title*	Dataset Description*	OGC Web Interface	Native SRS	exposed SRS* by the service	HTTP Reference	Scale	BBOX*	Date	Acquisition	Metadata	Metadata Standard	IPR	Author	Note			
S1	Ortophoto	Lorem ipsum dolor sit amet...	WMS	EPSG:4326	EPSG:4326	http://hostname/endpoint?wms	1:20000	14.0, 15.0, 50.0, 51.0	2009-01-01	N/A	N/A	ISO 19115	Municipality	Private	N/A			
S2	Corine Land Cover	Lorem ipsum dolor sit amet...	WFS	UTM32:WGS84	EPSG:4326	http://hostname/endpoint?wfs	1:20000	14.0, 15.0, 50.0, 51.0	2009-01-01	N/A	N/A	ISO 19116	Municipality	Private	N/A			

Table 3 - GIS Services Example

Local Strategy for Collecting and Updating Geo-Data
Do you have a local strategy for collecting Geo-Data?
Yes
Do you follow a specific directive/guidelines?
Yes
Is the directive/guidelines public or internal?
Public
Language
English
URL for the directive/guidelines
http://hostname/directive
Do you have a local strategy for updating Geo-Data?
Yes
Do you follow a specific directive/guidelines?
Yes
Is the directive/guidelines public or internal?
Public
Language
English
URL for the directive/guidelines
http://hostname/directive
Refresh Rate
Every year
Note
More information

Table 4 – Example of Local Strategy for Collecting and Updating Geo-Data