Mid-term Pilot Status Report

Description of deliverable: D.T2.1.3

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COMUNE DI PADOVA
Settore Ambiente e Territorio

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Brief summary

Padova Pilot has been developped around 4 pillars, contributing to a successful action. The joint elaboration of the GIS model and the Pilot Action has been propaedeutic to a systemic software up-grade, which also represent the very starting point of our Pilot. A second pillar, strictly linked to the previous, concerns the development of dedicated software, namely an APP, designed for different target users: professional or public oriented. A third pillar, concerns the communication and training activities, planned with a twofold goal: to enable targeted users to get acquainted and eventually use in a proper way the new tools developed. A fourth pillar concerns the joint activity with the well established SP and the new constituted Basso Isonzo work group. The right involvement of both, shall ensure a motivated participation to the territorial gaming activity, in fact the core of the Pilot. The territorial gaming, the last pillar, concerns both data acquisition and assessment. During this phase, citizens and SP members will collect data, especially on privately-owned UGS and trees. The ICT Dept. will then analyse and elaborate data. The main objective of the GIS based model and the Pilot Activity is to identify the ecosystem value of UGS, using both qualitative and quantitative indicators, allowing a comprehensive assessment of economic, social, environmental benefits for the Community implied in GI. As of today, such indicators may not be found in our planning tools. We need to in-crease the primary functions of UGS if we are to increase our urban ecosystem resilience as well as rethink planning and management processes aimed to regeneration and multifunctionality.

The main achievements of this period were: the definition of the indicators set (see DT1.3.2) in view of the Pilot Action (as to identify which data could actually be recovered by citizens and engaged stakeholders); the harmonisation of current data and software upgrade as to enable the system to re-ceive and operate on the basis of new datasets; the development of a dedicated APP (Android-based) to be easily used by citizens and engaged stakeholders; the organisation of the first Study Visit.

Table 1. Activity summary as per Pilot Concept – Maribor, 18-20 Sept. 2017

PILOT ACTIVITIES

Interreg
CENTRAL EUROPE
UGB
European Union
European Regional
Development Fund

Activity	Date	Responsible	Involved people	Costs	Purpose
1. Software upgrade	30/11/2017	Municipality-SIT dept.	SIT dept. personnel	13000	Integration of solutions
2. Software development	30/11/2017	Municipality-SIT dept.	SIT dept. personnel	10000	Integration of solutions
3. SP meetings	10/10/2017 23/04/2018	Municipality	UGB Team/SP	1400	Activity Planning
4. Communication/ Training	30/11/2017	Municipality	UGB Team/SP Citizens	3100	Comm-Training
5. Territorial Gaming	30/05/2018	Municipality	UGB Team/SP Citizens		Data Retrieval

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1. <u>Activities performed</u>

1. Software Upgrade

Based on the framework concept for Thematic WG1 defining the conceptual basis of the Model, the elaboration of the 1st Draft continued and was completed in September 2017. Padova Team, on the basis of its current GIS system and available Data, could fruitfully use the Framework concept methodology and eventually the Draft model in accordance with TWG1 LP, and elaborated a totally new indicators set, particularly referring to environmental sensitive outputs (Canopy Cover and Land use for agricolture, for instance). Padova Team worked closely with iSpace and Zadra Nova Teams, which made possible the definition of both a common framework and tailored application in Pilot Countries.

1.1 WebApplication (Intranet): management of data collection

The development of a dedicated APP (Android-based) implied a software upgrade in terms of the harmonization of current data as to enable the system to receive and operate on the basis of new data sets.

1.2 WebGIS (intranet): Spatial representation of new dataset

New data sets will be successfully represented in current webgis platform.

1.3 Android APP: Municipality/Professional user

The development of a dedicated APP (Android-based) to be easily used by citizens and engaged stakeholders, was concluded in due time when the newly developed APP was introduced to TGW1 members during the first Study Visit.

2. Software Development

2.1 Android APP: Open user

The development of a brand new dedicated APP implied also an in-depth analysis of monitoring systems for data quality check and control. For this reason, it has been finally decided that citizens would use the APP on the basis of Google Maps Cartography while experts and Municipality personnel would use the current GIS cartography (esri). This solution allows a twofold strategic goal: on one side, allows citizen to input a greater variety of data, on the other, a stricter control on data sent via APP. A back office portal will be created with the specific purpose of collecting such public generated data and verify them before their inclusion in the Municipality GIS database (and cartography). This strategy prevents also complicated control operations ex post, that is, when data have been already stored in the GIS database. Current tasks concern the set up of the APP and the back office portal, as well as the control protocol. These tasks shall be concluded by March, mid-April the latest. A joint meeting with both Universities has been fixed on march 15th to organise the training/data retrieval activities.

4. Communication Activities

Communication activities carried out so far were mainly related to the Pilot Action to be conducted in Padova. UGB local co-ordination, had chosen to focus on the Pilot Action since it will be strategic to involve the largest audience possible in order to achieve Pilot objectives. In September, the sectoral fair FLORMART took place and the Municipality participated as exhibitor with its own booth. This annual appointment in the City is attended by several thousands visitors, being a nation-wide appointment, but also very much appreciated by locals (from Veneto region). Beside the traditional themes of floriculture and landscape architecture, for the first time the 2017 edition focused also on green infrastructures. In the framework of such Fair, Padova team took particularly advantage of two thematic seminars organised in this framework: the international forum «ECOTECHGREEN» and a seminar on «Smart and Sustainable

cities. Lessons learnt and opportunities within h2020», the first organised by PAYSAGE Magazine and TOP-SCAPE, by the European Commission, Executive Agency for Small and Medium Enterprises (EASME) and UNISMART PADOVA ENTERPRISE (in-house enterprise of the University of Padova in charge of knowledge-technology Transfer) the latter. Both seminars were the occasion to introduce UGB project and Padova contribution and achievements to overall project goals. Moreover, IUAV University of Venice (UGB SP member) together with the National Institute of Urban Studies, organised the first URBANPROMO GREEN seminar, where Padova Deputy Mayor Prof. Lorenzoni was invited to present UGB project. In November, the traditional «Festa degli Alberi» (TreesFest) was another perfect occasion, at Municipal level, to inform residents about the prospective Pilot Action within UGB project. The Study Visit by TWG1 members has been also chosen as the ideal framework within which organise a public seminar on «Green Infrastructures and Urban Agriculture», in close cooperation with IUAV University of Venice. Keynote speakers addressed Climate Change and adaptation measures highlighting the positive impact of G.I planning in Urban contexts and strategic implications of Urban Agriculture.

2. Activities not started

3. SP Meetings

SP meetings originally planned to start in October, finally could not be organised. Although the development of the dedicated APP was concluded on time, that is by November 28th, when it was planned to be introduced to other TWG1 members, it was deemed necessary to finalise the assessment of data quality check/control system as to be able to share with SP a clear strategy for data collection as well as have a well functioning APP. A final decision has been made at the end of Padova Team meeting on February 13th. In principle, the decision were to be made on time to inform the TWG1 members during the third online meeting, precisely on the that date, but finally it has been held on the same date.

4. Training

Strictly connected to the development of the new APP, training sessions will be held once all technical operations are concluded by March, mid-April the latest. A video tutorial will be produced as to have an online tool for the maximum outreach possible. Such video will be uploaded and made available in the official UGB webpage: http://www.padovanet.it/informazione/progetto-europeo-ugb-urban-green-belts.

5. Territorial Gaming

Initially planned to reach the largest share of residents possible, during the last Team meeting (February 13th) it has been discussed both its feasibility and the concrete risk of failing to reach Pilot objectives. This scenario would be catastrophic, jeopardizing all efforts made so far to build a Concept framework, than a Draft GIS model to be actually implemented and integrated into GIS currently in use. Whilst It is not realistic to avoid all risks related to a weak public participation to this wide data collection campaign, in order to reduce risks substantially, it has been decided to check the posibility of a greater involvement of both universities, particularly the University of Padova, via its Engineering Department (ICEA), and its GIS Science Master course. This will be done using Municipality own funds.

3. Status and Prospect

Evaluation indicators

- *Both Apps (public oriented and professional use oriented) are fully implemented and used to update the database.*

This performance indicator has been partially fulfilled, since all steps leading to the App for professional use have been developed. As mentioned, the App for collecting privately owned UGS data will run under a different cartographic system, namely Google Maps, and the control protocol as well as the back office portal will be completed by March, mid-April the latest.

Budget

Please summarize the external, equipment and infrastructure costs occurred so far, please add extra lines, if needed!

Costs description	Budget line (external/equipment/in-frastructure)	Status (procurement in progress/contracted/paid)	Amount of the costs
Dedicated App	External Expertise	In porogress	13.000,00
Flormart	External Expertise	completed	1.494,50

Assessment

So far, the implementation strategy has worked fairly well. The development of the dedicated App has been concluded on time to be introduced to other TWG1 members. Unfortunately, though, the SP could not be involved yet, since it was deemed necessary to complete all technical operations in order to share clear and confirmed information with relevant stakeholders, especially in view of the extremely important participation phase to collect privately owned UGS data.

Challenges and amendments

A constant joint work of Padova Team, allowed a timely amendment of the strategy, in terms of quality check/control of public generated data. Finally, the Team has decided to opt for a more feasible solution to collect such data, that is, to switch to Google Maps cartography and use a back office portal from one side, to engage both Universities in a more substantial way, from the other.

Potential future risks

Being the most risk-sensitive phase of our Pilot Activity, it is still highly possible not to reach such a wide participation as expected. The negative impact of this scenario, though, has been partially mitigated by the aforementioned amendments of the implementation strategy.