



LOCAL UGB EXPLOITATION PLAN: PLANNING AND MANAGEMENT

Time frame 2019-2025 – City territory

D.T3.3.2 - Local Roadmap for implementing smart and integrated UGS governance

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INTRODUCTION

Padua has participated in the UGB project with the aim of collecting and systematizing, thanks to the contribution of the project partners and experts involved at the local level, the knowledge of the territory and specifically of the "green system" of the city.

The challenge consisted in identifying a system of indicators able to represent the green system in the city territory that would allow a good knowledge of the state of affairs and the possibility to provide the impact of specific measures in the territory.

The objective was therefore to be able to predict and implement measures to increase urban greenery and improve the environmental quality of the city. 29 indicators were elaborated that respond to the macro-categories of sustainability: social, environmental and economic that would allow an important management analysis.

These indicators were integrated into the Geographic Information System (GIS) of the Municipality, which was then updated with new classes and functions. In addition, 4 key indicators have been developed to allow the development of a synthetic analysis of green spaces: environmental index, economic index, recreational index, landscape quality index.

The thematic maps developed (12) in the selected pilot area (about 23% of the city area) well represent the analysis developed.

The Municipality of Padua manages 10% of the total green spaces present in the municipal territory (the public authorities in general have 20%), one of the objectives of the project was therefore also to involve the private sector in order to understand how the green spaces, even small ones, managed by the private sector are, through the preparation of a special app, PAPPUGB, which is still activated and which everyone can use.

An analysis of the entire municipal area was then carried out using satellite data that allowed a basic analysis of urban greenery (public and private) in the city.

At the end of the project, the processing tools allowed the development of a "Road map" of future projects in which the tools produced in the UGB project will be integrated and further developed.

Some of the activities, already underway, will integrate and expand the knowledge of the territory, but the main objective is to draw up the Green Plan and the SECAP of the city.

BASELINE SITUATION

Padua (210,401 inhabitants) is located in the Venetian plain, which shows a very well-defined urban expansion: in general, this area, the surroundings of the main urban centers, regardless of their size, have strong connections with peripheral and rural areas; on the other hand, the predominant growth of a city, Padua, has substantially influenced the areas of proximity. Padua, wrapped in its historical centre, has grown towards the neighbouring municipalities, finally involving a "metropolitan community" with over 400,000 inhabitants and 17 municipalities. This great expansion has determined a central historical nucleus, quite closed and a radial urban development along the main road infrastructures (a typical Roman radial consular system). Urban green management is strategic to reduce the impact of climate change and to improve the quality of life of citizens. Trees and green areas are the main solution in the short to medium term, but they must be part of a broader strategy to promote a greener and more resilient city model that reduces impacts through sustainability policies and providing climate planning that must be transversal to city policies using strategic planning as a connecting element.

The objective of Padua is to integrate the current policies (mobility, energy, green, urban planning) towards the sustainable management of the city in a perspective of reporting on the international objectives of the Agency 2030.

VISION AND OBJECTIVES

Regional Law No 14 of 06/06/2017, which lays down provisions to limit soil consumption, implements the European directive which requires 'zero soil consumption' to be achieved by 2050.

The "strategic lines of mandate 2017-2022" of the Municipal Administration include the objective of reducing land consumption, promoting urban regeneration and expanding public areas for urban greenery.

In 2018 the urban reforestation project "Padova O2" was activated, which provides for the planting of 10,000 new trees in the city.

The objective of the UGB Road Map is to systematise the various activities carried out by the various Sectors of the Administration to integrate sustainability policies.

VISION

OBJECTIVE 1: EXPANDED UGB INDICATORS TO CITY LEVEL

- 1.1 – FORMALISED INTER-SECTOR WORK GROUP
- 1.2 – DATA RETRIEVAL FROM ALL CITY DISTRICT
- 1.3 – CITIZEN INVOLVMENT

OBJECTIVE 2: NEW GREENERY PLAN

- 2.1 – GREEN PLAN DRAFTING
- 2.2 – MULTI-LEVEL ENGAGEMENT

OBJECTIVE 3: SUSTAINABILITY ENERGY AND CLIMATE ACTION PLAN (SECAP)

- 3.1 – SECAP EDITORY AND APPROVAL

OBJECTIVE 4: PARTICIPATORY GIS

- 4.1 – ACTIONS FOR IMPLEMENTATION OF PARTICIPATORY GIS

ACTIONS

Objective Title: <i>EXPANDED UGB INDICATORS TO CITY LEVEL</i>	Objective Number: 1
Action Title: FORMALISED INTER-SECTOR WORK GROUP	Action Number (1.1. etc): 1.1
Origin of the action: <input checked="" type="checkbox"/> Transfer <input type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
<p>In order to apply the indicators, developed in the pilot area, throughout the city it is first necessary to formalize an inter-sectoral working group involving the Green Sectors, Parks and Urban Agriculture - Environment and Territory - Information Services - Urbanism and Mobility</p>	
Minimum viable action	
<p>Must have: Action is a priority for the application of indicators throughout the city.</p> <p>Should have:</p> <p>Could have:</p>	
Responsibility - Who will implement the action?	
<p>Green, Parks and Urban Agriculture Dept., involved all Sectors mentioned</p>	
Estimated budget and resources	
<p>STAFF: 50.000 € Procurement: 20.000 € Budget Municipality</p>	

Measuring success
Application of indicators throughout the territory with GIS updated and completed
Timeline - Start and end dates
September 2019 – december 2025
City/region vision and beyond
The action is the basis for activating all the activities of the Road Map

Objective Title: <i>EXPANDED UGB INDICATORS TO CITY LEVEL</i>	Objective Number: 1
Action Title: DATA RETRIEVAL FROM ALL CITY DISTRICT	Action Number (1.1. etc): 1.2
Origin of the action: <input checked="" type="checkbox"/> Transfer <input type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
Application of indicators throughout the municipal territory GIS adjustment Shape file creation for reading the territory	
Minimum viable action	
Must have: The action is fundamental for the evaluation of the territory Should have: Could have:	
Responsibility - Who will implement the action?	
Green Sectors, Parks and Urban Agriculture - Environment and Territory - Information Services - Urbanism and Mobility	
Estimated budget and resources	
STAFF: 20.000 € Procurement: 10.000 € Subcontracting: 20.000 € Budget of Municipality	

Measuring success
Application of indicators throughout the territory with GIS updated and completed
Timeline - Start and end dates
September 2019 – december 2020
City/region vision and beyond
The action is fundamental for the evaluation of the territory

Objective Title: <i>EXPANDED UGB INDICATORS TO CITY LEVEL</i>	Objective Number: 1
Action Title: CITIZEN INVOLVMENT	Action Number (1.1. etc): 1.3
Origin of the action: <input type="checkbox"/> Transfer <input type="checkbox"/> New Concept <input checked="" type="checkbox"/> Other	
Action description - What will be done.	
Citizens will be involved through information indicators to disseminate the use of the APP developed in the project and to learn more about the plant species present in private gardens.	
Minimum viable action	
Must have: Extend project APP use Should have: Knowledge of plant species in private gardens Could have:	
Responsibility - Who will implement the action?	
Green Sectors, Parks and Urban Agriculture - Environment and Territory - Information Services - Stakeholders Forum Agenda 21 of Padua	
Estimated budget and resources	
STAFF: 15.000 € Other: 8.000 € Procurement: 10.000 € Budget of Municipality	

Measuring success
number of citizens registered in the APP number of citizens implementing the APP number of articles on public involvement activities
Timeline - Start and end dates
June 2020 – december 2020
City/region vision and beyond
The action is fundamental for the evaluation of the territory

Objective Title: NEW GREENERY PLAN	Objective Number: 2
Action Title: GREEN PLAN DRAFTING	Action Number (1.1. etc): 2.1
Origin of the action: <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
The action is one of the priority objectives of the Administration and provides for the drafting of the Urban Green Plan through the study of Green Plans drawn up by other cities and the internal comparison of the working group.	
Minimum viable action	
Must have: A period of internal study is planned, followed by comparison with other Italian and European experiences. Should have: Application of the Urban Agenda 2030. Could have:	
Responsibility - Who will implement the action?	
Greenery, Parks and Urban Agriculture Dept	
Estimated budget and resources	
STAFF: 30.000 €	
Measuring success	
Drafting of the Green Plan which provides for measures for resilient land management, reduction of heat islands, urban forestation and increase of green areas usable by all citizens.	

Timeline - Start and end dates
March 2020 – December 2020
City/region vision and beyond
The Green Plan is one of the strategic objectives of the Administration

Objective Title: NEW GREENERY REGULATION	Objective Number: 2
Action Title: MULTI – LEVEL ENGAGEMENT	Action Number (1.1. etc): 2.2
Origin of the action: <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
The path for the approval of the Green Plan foresees the comparison with the city's stakeholders (Forum Padova21) and with the neighbouring city (FUA).	
Minimum viable action	
Must have: The participatory path will use the approach developed in the UGB project and will aim to involve sensitive associations and citizens in the development and implementation of the Green Plan Should have: Could have:	
Responsibility - Who will implement the action?	
Greenery, Parks and Urban Agriculture Dept and Environment and Territory Dept	
Estimated budget and resources	
STAFF: 10.000 € Procurement: 10.000 €	

Measuring success
<ul style="list-style-type: none">- Sharing the Green Plan- participatory management of some of the city's green areas
Timeline - Start and end dates
June 2020 – december 2020
City/region vision and beyond
The Green Plan is one of the strategic objectives of the Administration

Objective Title: SUSTAINABILITY ENERGY AND CLIMATE ACTION PLAN	Objective Number: 3
Action Title: SECAP EDITORY AND APPROVAL	Action Number (1.1. etc): 3.1
Origin of the action: <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
The drafting of the SECAP will have within its rules and actions concerning Urban Green for a resilient management of the territory	
Minimum viable action	
Must have: Reduction 40% CO2 Increasing green areas Urban forestry Should have: Participated routes Financing of PPP projects Could have:	
Responsibility - Who will implement the action?	
Environment and Territory Dept	
Estimated budget and resources	
STAFF: 30.000 € Procurement: 15.000 € Subcontracting: 20.000 € Financed by Life Veneto Adapt Project	

Measuring success

- Measures to extend Urban Greenery
- Resilient Urban Green Management
- Urban forestry
- Nature Based Solutions Infrastructures

Timeline - Start and end dates

June 2019 – march 2020

City/region vision and beyond

- SECAP as a priority objective of the Administration
- Provide the Region with a guideline for the drafting of the SECAPs in Veneto

Objective Title: PARTICIPATORY GIS	Objective Number: 4
Action Title: ACTIONS FOR IMPLEMENTATION OF PARTICIPATORY GIS	Action Number (1.1. etc): 4.1
Origin of the action: <input checked="" type="checkbox"/> Transfer <input type="checkbox"/> New Concept <input type="checkbox"/> Other	
Action description - What will be done.	
<p>The action comes from the experimentation of the city of Padova in the UGB project through an extension of the activities. The aim is to involve citizens and stakeholders in the implementation of the city's GIS with regard to green areas.</p>	
Minimum viable action	
<p>Must have: - Involvement of citizens - Stakeholder involvement - Events organization - Using UGB APP - Participatory management of urban greenery</p> <p>Should have:</p> <p>Could have:</p>	
Responsibility - Who will implement the action?	
ICT Dept, Environment and Territory Dept, Greenery, Parks and Urban Agriculture Dept	
Estimated budget and resources	
STAFF: 25.000 € Procurement: 20.000 €	

Other costs: 10.000 €
Financing by city budget

Measuring success

- Involving Stakeholders
- Citizens engagements
- GIS concluded
- Resilient Urban Green Management
- Urban forestry

Timeline - Start and end dates

January 2020 – end 2025

City/region vision and beyond

Achievement of an important objective by applying participatory paths

SUMMARY

Vision:				
objective	Action title	Responsible	Budget	Timeline
objective 1	Action 1.1.FORMALISED INTER-SECTOR WORK GROUP	<i>Green, Parks and Urban Agriculture Dept., involved all Sectors mentioned</i>	STAFF: 50.000 € Procurement: 20.000 €	<i>September 2019 – december 2025</i>
	Action 1.2 - DATA RETRIEVAL FROM ALL CITY DISTRICT	<i>Green Sectors, Parks and Urban Agriculture - Environment and Territory - Information Services - Urbanism and Mobility</i>	STAFF: 20.000 € Procurement: 10.000 € Subcontracting: 20.000 € <i>Budget of Municipality</i>	<i>September 2019 – december 2020</i>
	Action 1.3 – CITIZEN INVOLVMENT	<i>Green Sectors, Parks and Urban Agriculture - Environment and Territory - Information Services - Stakeholders Forum Agenda 21 of Padua</i>	STAFF: 15.000 € Other: 8.000 € Procurement: 10.000 € <i>Budget of Municipality</i>	<i>June 2020 – december 2020</i>
objective 2	Action 2.1 - GREEN PLAN DRAFTING	<i>Greenery, Parks and Urban Agriculture Dept</i>	STAFF: 30.000 €	<i>March 2020 – December 2020</i>
	Action 2.2 - MULTI – LEVEL ENGAGEMENT	<i>Greenery, Parks and Urban Agriculture Dept and</i>	STAFF: 10.000 € Procurement: 10.000 €	<i>June 2020 – december 2020</i>

		<i>Environment and Territory Dept</i>	€	

<i>objective 3</i>	Action 3.1- SECAP EDITORY AND APPROVAL	<i>Environment and Territory Dept</i>	STAFF: 30.000 € Procurement: 15.000 € Subcontracting: 20.000 € <i>Financed by Life Veneto Adapt Project</i>	<i>June 2019 – march 2020</i>

<i>objective 4</i>	Action 4.1 - ACTIONS FOR IMPLEMENTATION OF PARTICIPATORY GIS	<i>ICT Dept, Environment and Territory Dept, Greenery, Parks and Urban Agriculture Dept</i>	STAFF: 25.000 € Procurement: 20.000 € Other costs: 10.000 € <i>Financing by city budget</i>	<i>January 2020 – end 2025</i>