

SMart URBan Solutions for air quality, disasters and city growth



Deliverable D7.3: SMURBS Leaflet & Brochure

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Authoring Partner	NOA				
Prepared by	Georgia Diakogianni				
Quality Assurance	Evangelos Gerasopoulos (PC-NOA)				
Contact Person	Dr Evangelos Gerasopoulos		Project Coordinator		
	Metaxa & Vas. Pavlou Str. • 152 36 Penteli, Greece				
	Email	egera@noa.gr	Phone	+30-2108109124	Fax +30-2108103236





Executive Summary

This document, entitled “D7.3 – SMURBS Leaflet & Brochure”, presents SMURBS brochure, the design and development of which was scheduled to be implemented within the first four months of the project (M4).

The leaflet/brochure is meant as a key mean among the communication tools, has as a main purpose to raise awareness of SMURBS, especially in workshops/conferences organized or attended by the consortium.



Project Information













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Project GA number: 689443 (ERA-PLANET)

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Project Beneficiaries:

N ^o	Official ¹ N ^o	Participant Legal Name	Country	Logos
1	26	NATIONAL OBSERVATORY OF ATHENS (NOA) - Coordinator	GREECE	
2	3	IDRYMA IATROVIOLOGIKON EREUNON AKADEMIAS ATHINON (AoA)	GREECE	
3	4	ARISTOTELIO PANEPISTIMIO THESSALONIKIS (AUTH)	GREECE	
4	1	CONSIGLIO NAZIONALE DELLE RICERCHE (CNR)	ITALY	
5	7	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FRANCE	
6	8	CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES (CREAF)	SPAIN	
7	18	HELMHOLTZ-ZENTRUM GEESTHACHT ZENTRUM FÜR MATERIAL- UND KÜSTENFORSCHUNG GMBH (HZG)	GERMANY	
8	20	ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE (ISPRA)	ITALY	
9	21	IVL SVENSKA MILJÖINSTITUTET AB (IVL)	SWEDEN	
10	22	INSTITUT JOZEF STEFAN (JSI)	SLOVENIA	
11	24	MASARYKOVA UNIVERZITA (MU)	CZECH REPUBLIC	
12	25	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS" (NCSR)	GREECE	

¹ As reported in the Grant Agreement AMD-689443-40, Annex 1 - Description of the action (part A).



13	27	PAUL SCHERRER INSTITUT (PSI)	SWITZERLAND	
14	35	ROMANIAN SPACE AGENCY (ROSA)	ROMANIA	
15	29	SPACE RESEARCH INSTITUTE OF THE NATIONAL ACADEMY OF SCIENCES OF UKRAINE AND THE NATIONAL SPACE AGENCY OF UKRAINE (SRI)	UKRAINE	
16	36	STOCKHOLMS UNIVERSITET (SU)	SWEDEN	
17	30	LEIBNIZ INSTITUT FUER TROPOSPAERENFORSCHUNG e.V. (TROPOS)	GERMANY	
18	37	HELSINGIN YLIOPISTO (UHEL)	FINLAND	
19	32	UNIVERSITA DELLA CALABRIA (UNICAL)	ITALY	



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Acronyms and Abbreviations

Acronym	Description
Dxx	Deliverable xx
EO	Earth Observation
GEO	Group on Earth Observations
GEOSS	Global Earth Observation System of Systems
Mx	Month x
PC	Project Coordinator
SDGs	Sustainable Development Goals
SMURBS	SMart URBan Solutions
UN	United Nations
WP	Work Package



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1. The leaflet/brochure

Overarching objectives

- Empower Earth Observation (EO)-enabled decision making
- Align national agendas and programmes, ongoing smart city projects
- Contribute to the implementation of the GEO Strategic Plan (2016-2025), optimize exploitation of Copernicus data and core services
- Augment cross-validated EO information and synergies between different platforms/services for city scale applications
- Reinforce interoperability via the use of the GEOSS Common Infrastructure (GCI) and the adoption of GEOSS Data Sharing and Management Principles

Expected impacts

- **Reinforce European Leadership within GEO post-2015** by bringing together EO-expertise and smart-city methods towards sustainable urban development
- **Build resilient societies** by identifying and facing cities' vulnerabilities and by supporting policies to mitigate the impacts of urbanization
- **Trigger economic benefits and growth** by canalizing technology, government and society into the smart city model, capitalizing on EO investments, creating cost-effective solutions and mitigating costs from urban pressures
- **Empower decision making and public awareness** by facilitating access to the information needed, in a timely, robust, understandable and open manner
- **Support the implementation of the Sustainable Development Goals (SDGs)** by realizing the potential of EO in the context of smart cities and urban resilience

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ERA-PLANET - Smart Cities & Resilient Societies, under Horizon SC5-15-2015 - Strengthening the European Research Area in the domain of Earth Observation Type of action: ERA-NET-Copernicus Grant agreement no: 689443

CONTACT INFO
Erasmus Garzaopoulos
Project Coordinator
Bioscience Resource, Greece
email: garza@smurbs.eu
smurbs.project@gmail.com

**Smart Urban Solutions
for Air Quality, Disasters
and City Growth**

Challenge addressed

According to the UN "World Urbanization Prospects: 2014 Revision" in today's increasingly global and interconnected world, **over half of the world's population lives in urban areas**, while the coming decades will bring further profound changes to the size and spatial distribution of the global population, also due to increasing migration processes. The continuing urbanization is projected to add 2.5 billion of urban population by 2050, and the **world population living in cities to increase to 66%**. Under these circumstances, **sustainable development challenges will increasingly concentrate in cities**.

Ultimate goal

Promote and coordinate the "smart city" concept into a European network of cities, serving the need for a common approach to enhance **environmental and societal resilience** to urban pollution, natural/manmade disasters and uncontrolled city growth, while at the same time setting the stage for integration of the still fragmented, multi-scale and multi-temporal Earth Observation (EO) resources, into information and decision making tools for individuals and local governments, in support of GEOSS and the Sustainable Development Goals (SDGs).

Concept and methodology

- **Integrate still-fragmented EO, into information and decision making tools** for individuals and local governments, engaging citizens in collecting and sharing data
- **Stimulate strategic planning** by reaching out to local authorities, urban planners, city-level stakeholders to map what is out there and understand what the users want
- **Refocus partners' expertise under the smart city banner**, to effectively interact and address the perplexed, urban environmental pressures
- **Develop a portfolio of Smart Urban Solutions** of tested, fine-tuned and inter-disciplinary products, tools and services for urban planners and decision-makers
- **Create a constellation of European and overseas cities** that employs, makes replicable and assures the cost-effectiveness of SMURBS products.



Pressures addressed



"Smart City" network

The motivation for SMURBS rises from its aspiration to **promote and coordinate the "smart city" concept** primarily into a European network of cities but also to cities overseas, illustrating the experience and learnings from a number of cities at different stages on the smart city journey.

- A group of cities of varying sizes, geographies, environmental pressures and levels of progress in terms of 'smartness' are selected with a **multi-criteria analysis**
 - Specific stakeholders and citizens' needs and requirements are gathered, clustered and classified allowing for the **hierarchy of urban pressures** and the optimum **issue-to-solution correspondence**
 - Cities implementing an integrated plan of a series of solutions, to one or more of the pressures addressed, act as **Lighthouse Pilots**, while **Follower cities** observe, interact and contribute to the exploitation of the smart city concept, paving the ground for future implementation of SMURBS practices
- SMURBS serves as **umbrella for "smart city" initiatives** in the EU relevant area, fosters networking, assures replicability and exploitation of existing and developed capacities.



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