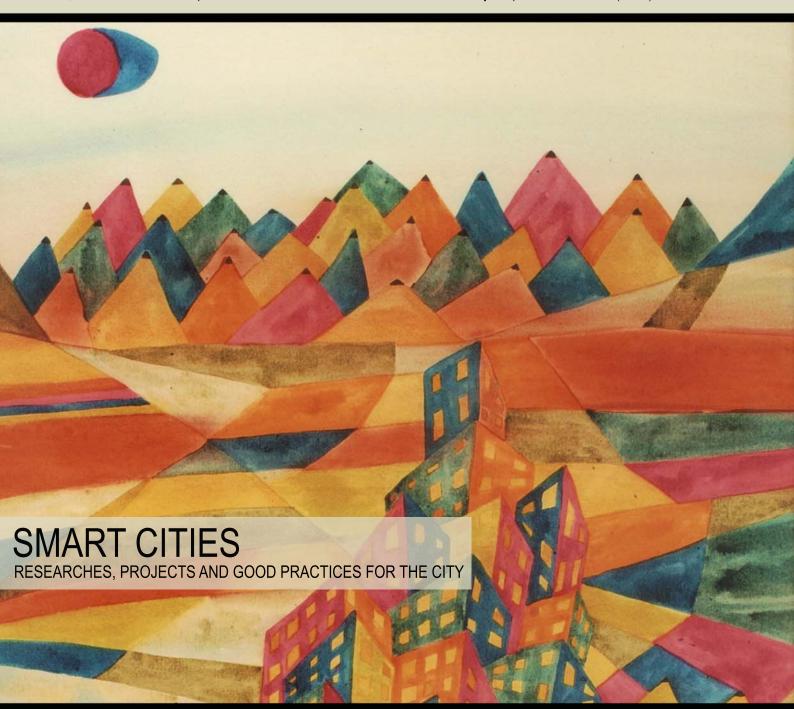
Tel/A Journal of Land Use,

Land Use, Mobility and Environment

The concept of "Smart City", providing a the solution for making cities more efficient and sustainable has been quite popular in the policy field in recent years. with a unified approach to planning and mobility. TeMA Journal has also In the contemporary debate, the concept of smart cities is related to the utilization of networked infrastructure to improve economic and political efficiency and enable social, cultural and urban development.

Tema is the Journal of Land use, Mobility and Environment and offers papers received the Sparc Europe Seal of Open Access Journals released by Scholarly Publishing and Academic Resources Coalition (SPARC Europe) and the Directory of Open Access Journals (DOAJ).





SMART CITIES:

RESEARCHES, PROJECTS AND GOOD PRACTICES FOR THE CITY

1 (2013)

Published by

Laboratory of Land Use Mobility and Environment
DICEA - Department of Civil, Architectural and Environmental Engineering
University of Naples "Federico II"

TeMA is realised by CAB - Center for Libraries at "Federico II" University of Naples using Open Journal System

Editor-in-chief: Rocco Papa print ISSN 1970-9889 | on line ISSN 1970-9870 Lycence: Cancelleria del Tribunale di Napoli, n° 6 of 29/01/2008

Editorial correspondence

Laboratory of Land Use Mobility and Environment
DICEA - Department of Civil , Architectural and Environmental Engineering
University of Naples "Federico II"
Piazzale Tecchio, 80
80125 Naples
web: www.tema.unina.it

e-mail: redazione.tema@unina.it

Cover image by: Roberto Matarazzo "Il Territorio della città", 100x70, inks, water based colors, courtesy of the author.



TeMA - Journal of Land Use, Mobility and Environment offers researches, applications and contributions with a unified approach to planning and mobility and publishes original inter-disciplinary papers on the interaction of transport, land use and Environment. Domains include: engineering, planning, modeling, behavior, economics, geography, regional science, sociology, architecture and design, network science, and complex systems.

The Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR) classified TeMA as one of the most highly regarded scholarly journals (Category A) in the Areas ICAR 05, ICAR 20 and ICAR21. TeMA Journal has also received the Sparc Europe Seal for Open Access Journals released by Scholarly Publishing and Academic Resources Coalition (SPARC Europe) and the Directory of Open Access Journals (DOAJ). TeMA publishes online under a Creative Commons Attribution 3.0 License and is blind peer reviewed at least by two referees selected among high-profile scientists. TeMA is a four-monthly journal. TeMA has been published since 2007 and is indexed in the main bibliographical databases and it is present in the catalogues of hundreds of academic and research libraries worldwide.

EDITOR-IN-CHIEF

Rocco Papa, Università degli Studi di Napoli Federico II, Italy

EDITORIAL ADVISORY BOARD

Luca Bertolini, Universiteit van Amsterdam, Netherlands
Virgilio Bettini, Università luav di Venezia, Italy
Dino Borri, Politecnico di Bari, Italy
Enrique Calderon, Universidad Politécnica de Madrid, Spain
Roberto Camagni, Politecnico di Milano, Italy
Robert Leonardi, London School of Economics and Political Science, United Kingdom
Raffaella Nanetti, College of Urban Planning and Public Affairs, United States
Agostino Nuzzolo, Università degli Studi di Roma Tor Vergata, Italy
Rocco Papa, Università degli Studi di Napoli Federico II, Italy

EDITORS

Agostino Nuzzolo, Università degli Studi di Roma Tor Vergata, Italy Enrique Calderon, Universidad Politécnica de Madrid, Spain Luca Bertolini, Universiteit van Amsterdam, Netherlands Romano Fistola, Dept. of Engineering - University of Sannio - Italy, Italy Adriana Galderisi, Università degli Studi di Napoli Federico II, Italy Carmela Gargiulo, Università degli Studi di Napoli Federico II, Italy Giuseppe Mazzeo, CNR - Istituito per gli Studi sulle Società del Mediterraneo, Italy

EDITORIAL SECRETARY

Rosaria Battarra, CNR - Istituito per gli Studi sulle Società del Mediterraneo, Italy Andrea Ceudech, TeMALab, Università degli Studi di Napoli Federico II, Italy Rosa Anna La Rocca, TeMALab, Università degli Studi di Napoli Federico II, Italy Enrica Papa, Università degli Studi di Roma Tor Vergata, Italy

ADMISTRATIVE SECRETARY

Stefania Gatta, Università degli Studi di Napoli Federico II, Italy



SMART CITIES: RESEARCHES, PROJECTS AND GOOD PRACTICES FOR THE CITY 1 (2013)

Contents

EDITORIAL PREFACE EDITORIALE Rocco Papa Rocco Papa FOCUS **FOCUS Towards an Urban Planners' Perspective** Towards an Urban Planners' Perspective on Smart City on Smart City Rocco Papa, Carmela Gargiulo, Adriana Galderisi Rocco Papa, Carmela Gargiulo, Adriana Galderisi ICT: interfacce ICTs: Interfaces between tra persone e luoghi People and Places 19 Corinna Morandi, Andrea Rolando, Stefano Di Vita Corinna Morandi, Andrea Rolando, Stefano Di Vita Le città smart e **Smart cities and Challenges** le sfide della sostenibilità of Sustainability 35 Francesca Moraci, Celestina Fazia Francesca Moraci, Celestina Fazia **Smart City: Smart City:** 47 riflessioni sull'intelligenza urbana Thinking about Urban Intelligence Romano Fistola Romano Fistola **European Strategies for Smarter Cities European Strategies for Smarter Cities** 61 Alessandra Barresi, Gabriella Pultrone Alessandra Barresi, Gabriella Pultrone

73

95

Towards Intelligently – Sustainable Cities?

Vittorio Gargiulo Morelli, Margot Weijnen, Ellen Van Bueren, Ivo Wenzler, Marke De Reuver, Luca Salvati

Towards Intelligently – Sustainable Cities?

Vittorio Gargiulo Morelli, Margot Weijnen, Ellen Van Bueren, Ivo Wenzler, Marke De Reuver, Luca Salvati

Siracusa, Smart City Euromediterranea

Luigi Minozzi

Syracuse, Euro-Mediterranean Smart City

Luigi Minozzi

LAND USE, MOBILITY AND ENVIRONMENT

LAND USE, MOBILITY AND ENVIRONMENT

Verde urbano e processi ambientali: per una progettazione di paesaggio multifunzionale

Raffaele Pelorosso

Urban Green and Environmental Processes: Towards a Multifunctional Landscape Design

Raffaele Pelorosso

OSSERVATORI

Gennaro Angiello, Gerardo Carpentieri, Giuseppe Mazzeo, Valentina Pinto, Laura Russo, Floriana Zucaro

REVIEW PAGES

Gennaro Angiello, Gerardo Carpentieri, Giuseppe Mazzeo, Valentina Pinto, Laura Russo, Floriana Zucaro



Journal of Land Use, Mobility and Environment

TeMA 1 (2013) 3-4 print ISSN 1970-9889, e-ISSN 1970-9870 doj: 10.6092/1970-9870/1544

Licensed under the Creative Commons Attribution – Non Commercial License 3.0 www.tema.unina.it

EDITORIAL PREFACE:

SMART CITIES: RESEARCHES, PROJECTS AND GOOD PRACTICES FOR THE CITY

ROCCO PAPA

Land Use, Mobility and Environment Laboratory – TeMA*Lab* University of Naples Federico II e-mail: rpapa@unina.it

URL: www.roccopapa.it

The concept of the smart city has been quite fashionable in the policy arena in recent years and the question of how we can live "smartly" in a city has become the focus of policymakers and private industry. The label smart city is still quite a fuzzy concept and is used in ways that are not always consistent. However, starting from a general definition, what is central to the concept of the Smart City and what makes it differ from 'sustainable cities' or 'ECO cities' is the use of Information and Communication Technologies (ICTs) in the process of creating a more sustainable city but also the availability and quality of knowledge communication and social infrastructure. Smart cities can be identified along six main axes or dimensions: a smart economy, smart mobility, a smart environment, smart people, smart living, smart governance.

Millions of euros are being invested in research, development and pioneer projects which tried to contribute to the construction of more intelligent urban areas. The European Union (EU), in particular, has devoted constant efforts to devising a strategy for achieving urban growth in a smart sense for its metropolitan city-regions.

However, after an enthusiastic first phase in which information technology and digital data were considered the solution for making cities far more efficient, some disappointing are growing around this theory. An article by Ludwig Siegele published in the Economist in 2012 analyses this phenomenon and describe the passage from top-down and bottom-up Smart Cities projects. He explain the main difference from the first Smart City ambitious projects that built shiny new metropolis on green fields—or in the desert as the famous Masdar in Abu Dhabi and the more democratic bottom up Smart City project developed in Amsterdam: a "smart-city platform" of institutions and infrastructure that helps businesses and citizens develop and test green projects. In the first top-down case the whole new cities are built from scratch and were thought holistically from the very beginning, the second case regards most European cities where the development towards becoming a Smart City happen within several bottom up stages. Some failures of the first and the achievements of the second, suggest that the smart cities of the future will not be those

created from the top down, but those that have grown organically more intelligent. This reinforce the concept according to which being a smart city, is not just about using less energy or being made of smart and reusable materials. It is about being able to function as an integral part of a larger system, that also regards participation, human capital, education and learning in urban development.

This first issue of TeMA, Journal of Land Use, Mobility and Environment, volume no.6 deals with the subject of Smart City with reference to the urban scale. Accordingly, the papers tackle the different aspects characterizing a smart urban development: ranging from the more specifically economic ones, targeted to the implementation of strategies expected to improve competitiveness of cities in the global scenario; to those more involved in environment questions aimed at identifying strategies for improving the city capability of facing the important challenges given by the ongoing climate change as well as by the ever-growing reduction of traditional energy resources, paying particular attention to the improvement of urban mobility and energy saving as well as of those connected with the quality of life of communities, with specific attention to the participation to decisions-making processes, equity in the access to resources, individual and collective safety, social cohesion.

In the FOCUS section the paper by Rocco Papa, Adriana Galderisi and Carmela Gargiulo focuses on the urban planners' perspective on Smart City. The paper by Corinna Morandi, Andrea Rolando and Stefano Di Vita present the research called "The smart region between Turin and Milan. Mobile services as drivers of spatial innovation towards Expo 2015" by Politecnico of Milan and Telecom Italia. The paper by Francesca Moraci and Celestina Fazia

proposes an idea of smart, secure and inclusive city. The work by Romano Fistola focus on the definition of Smart City bringing back the dynamics of development of the Smart Cities in their natural site of theoretical development.

The work by Alessandra Barresi and Gabriella Pultrone present the most recent studies and trials about innovation and competitiveness. The paper by Luigi Minozzi focuses on the study case of Siracusa, presenting the "Smarter Cities Challenge program", sponsored by IBM.

The LUME section includes papers on the general subject of the integration between land use, mobility and environment and in this issue proposes the study by Raffaele Pelorosso, Federica Gobattoni, Nicola Lopez, Antonio Leone with the title "Urban green and environmental processes: toward a multifunctional landscape design".



References:

Siegele L. (2012) Mining the urban data, The Economist June 2nd 2012