

International Congress on “Green Infrastructure and Sustainable Societies/Cities” GreInSus’14



May 08-10, 2014

Izmir-TURKEY

ABSTRACT BOOK

This book of abstracts has been prepared from different abstracts sent to the congress secretary only by making some changes in the format.

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PREFACE



We warmly welcome you to the 1st International The International Congress on Green Infrastructure and Sustainable Societies / Cities (GreInSus) which will be held in Izmir Turkey during May 08 - 10, 2014. This event aims to gather researchers from the entire spectrum of the multi-disciplinary fields of environmental science and technology with a special emphasis on "sustainable societies and cities". The main objective of the congress is to present the achievements of scientific and professional works/researchs on approaches and techniques for reducing environmental and societal impacts of future societies / cities. Thus, the congress provides opportunities for the participants to exchange new ideas and application experiences and to establish future collaborations. In this way use of green infrastructures in reaching sustainable societies/cities can be motivated. The official language of the Congress and Symposium is English.

We would like to invite you and your colleagues to participate to this event. We look forward to the scientific exchange, and the profile you will bring to our meetings.

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GREEN PLANNING

Re-Architecture of Existing Building Stock with Sustainable Approach: The Analysis of the City of Izmir

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Abstract: Ecosystem can be defined as living and non-living environment that surrounds the living creatures. Referring to this, ecology has broader definition than the nature and the environment. Besides, sustainability can be defined as providing the best life conditions for living creatures in modern city environments for maintaining continuity in natural environment by protecting the historical and the cultural elements. In addition to the planning decisions in upper scales, it is important to design the structures under the scope of "sustainability" which can have positive contributions to the environment and redounded to the city with the help of some definitions like re-functioning, re-use, decontamination and others within the enhancement of existing building stock which does not ignore the data that compose cities' ecosystem. Ecological sensitivity starts with the forms of existing buildings, spatial organization of these, material selection, renewable energy usage, the recycle of water; air and their waste's, and then starts to spread through streets, neighborhoods, districts, cities, regions and to whole country. Thus, re-consideration and re-evaluation of the existing buildings is important as constructing new buildings within the scope of this comprehension. This study aims to examine the above definitions in the case of Izmir. In this scope, the ways of providing collapse zones' socio-spatial improvements' were analyzed within the frame of urban development principles by specifying the distribution of existing building stock within the city. In this research, the distribution of the existing building stock in the city of Izmir that should be reconsidered and enhanced; functions of these existing building stocks and their potential for re-functioning were detected. For this purpose, local governments' applications on this issue were examined on their sites. In addition to this, the news related to the urban transformation and recruitment that took place in the media was analyzed by gathering information from the news archive. At the same time, through literature review; by putting emphasis on the important examples on sustainability and ecological approaches in the world, criteria were set which were needed to be considered while trying to retrieval of the existing building stock both in Izmir and our country.

Keywords: re-architecture, sustainability, adaptation, green building, existing building stock



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