

ICSD 2018



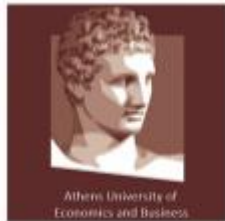
4TH INTERNATIONAL CONFERENCE ON
SUSTAINABLE DEVELOPMENT

BOOK OF ABSTRACTS

April 11 - 15, 2018 Athens

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Organized by



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4th INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT (ICSD)

ISBN 978-605-67955-7-2

BOOK OF ABSTRACTS OF THE
4th INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT (ICSD)
11-15 APRIL 2018, ATHENS

Edited by

Prof. Dr. Özer Çınar

Published, 2018

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www.icsd.eu

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WELCOME TO ICSD 2018

On behalf of the organizing committee, we are pleased to announce that the 4th International Conference on Sustainable Development (ICSD-2018) is held from April 11 to 15, 2016 in Athens -GREECE. ICSD 2018 provides an ideal academic platform for researchers to present the latest research findings and describe emerging technologies, and directions in Sustainable Development issues. The conference seeks to contribute to presenting novel research results in all aspects of Sustainable Development. The conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of Sustainable Development. It also provides the premier interdisciplinary forum for scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications in all areas of Engineering and Natural Sciences. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. ICSD 2018 is the oncoming event of the successful conference series focusing on Sustainable Development. The scientific program focuses on current advances in the research, production and use of Engineering and Natural Sciences with particular focus on their role in maintaining academic level in Engineering and Applied Sciences and elevating the science level. The conference's goals are to provide a scientific forum for all international prestige scholars around the world and enable the interactive exchange of state-of-the-art knowledge. The conference will focus on evidence-based benefits proven in clinical trials and scientific experiments.

Best regards,

Prof. Dr.Özer ÇINAR

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EVALUATION OF SUSTAINABILITY OF IRRIGATION AREAS IN GAP PROJECT WITH EXISTING APPLICATIONS

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Abstract:

The Southeastern Anatolia Project, its Turkish acronym is GAP, Turkey's semi-arid applied in the Southeastern Anatolia Region, is the most comprehensive regional development project. The Project area covers almost 10% of Turkey, in terms of area and population. The main objective in regional development is to promote the welfare of both the region and the country through the sustainable use of water and land resources in the project area. Within the scope of the project, 22 dams, 19 HEPPs and 1.84 million hectares of irrigation are foreseen. GAP is expected to increase the per capita income by 209% and increase the GDP by 409% in the Region. The basis for these increases will be achieved through the efficient and sustainable use of water and land resources. The GAP irrigation began in Harran in 1995 with an area of 30 thousand hectares and today over 150 thousand hectares. In Harran plain, 88.5% of the gravity irrigation is being done, and problems of water insufficiency in the lower parts of the plain, salinity problems in the middle and in the lower parts of the region are seen. As a natural consequence of this, water levels increase in some areas and in some areas crop losses occur due to water insufficiency. On the other hand, because of the random and unplanned urbanization in Harran, both the amount of fertile agricultural land decreased and water, soil and environmental pollution based on the living centers begin to be seen. There are structural problems arising from irrigation management and irrigation methods in Harran, which creates a pressure and a threat to sustainability. Pressure and water saving irrigation systems should be introduced in these areas, irrigation training should be given to farmers, structural problems of irrigation units should be solved and unintentional urbanization should not be permitted.

Keywords: GAP, Sustainable Development, Water And Soil Resources, Irrigation

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