

# ENGINEERS IN SUSTAINABLE DEVELOPMENT SOCIETIES

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Forum topics	<input type="checkbox"/> Energy in 21st Century	<input type="checkbox"/> Cultural Heritage in Digital World
	<input checked="" type="checkbox"/> Engineering Capacity Building	<input type="checkbox"/> Disaster Risk Management & Governance for Resilient Communities
	<input type="checkbox"/> Construction 4.0	<input type="checkbox"/> BIM Lifecycle, Facility & Asset Management

**Abstract:** (250 to 500 words: for each heading use the bullet points or narrative - the submission including graphics should not exceed one page)

Problems - Issues / Challenges-Needs	<p>In national strategy documents of European countries sustainable development (SD) has been stipulated as a central development guideline and has become the starting point and a concept for shaping national development policies. By setting sustainable development as the starting point for development policies, the practices and criteria for measuring development are changing, which, in addition to technical and economic aspects, also include environmental and social aspects.</p> <p>Sustainable development in construction is mainly focused on sustainable construction, i.e. on the technical aspect of sustainable development, which is indirectly related to environmental protection, but not to other aspects of SD, which characterize the sustainable construction of structures. For this reason, the integrity of the changes brought about by sustainable development into the process of building structures has been overlooked and is thus reflected both in practice and in construction legislation.</p>
Solutions - Methods / Results - Findings	<p>As in other areas of society, the construction sector is also faced with multidimensional objectives of building investment, the interdisciplinarity of the profession and the specialisation of work, as well as the increasingly intensive involvement of various social groups in the process of building structures. Due to these characteristics, there are an increasing number of stakeholders, and processes and procedures are becoming increasingly complex and demanding; considerable of time is dedicated to coordinating goals and interests and finding compromise (and not merely technical) solutions.</p> <p>The environment is becoming more and more complex and turbulent, therefore, in sustainable construction; it is no longer just about technical aspects, such as materials and technological processes, but also about the introduction of new dynamic models for the management of construction designs. In such an environment, the role of engineers is becoming increasingly important, and it is important also to provide different skills and competences in response to the interdisciplinarity of the profession.</p>
Novelty - Value / Relevance to ...	<p>The field is relevant for defining and evaluating the role of engineers in sustainable development societies and for determining their skills and competences. The paper will highlight the characteristics of sustainable development which are not directly related to the technical aspect of sustainable development and are therefore generally overlooked in technical disciplines. At the same time, these characteristics have a major influence on the work of engineers and determine their role in modern society.</p>
Forum statement	<p>Sustainable development brings interdisciplinarity to the construction profession and is changing the role of engineers.</p>

**Keywords:** (up to 5 keywords)

Sustainable development, engineers, stakeholders

**Graphics:** (please use the grey area below for *representative graphics* or *graphical summary*: select the grey area below and paste your graphics)

