

Living and Sustainability: An Environmental Critique of Design and Building Practices, Locally and Globally

1. Paper / Proposal Title:

Smart Cities and e-planning - Biourbanism in education and urban renewal innovation.

2. Format:

Verbal presentation/paper

3. Author(s) Name: Dr. Eleni Tracada

4. University or Company Affiliation: University of Derby, College of Engineering and Technology, Department of Built Environment, Markeaton Street Campus, Derby DE22 3AW

5. Abstract (300 words):

New methods of designing or revitalising cities today follow new forms of urbanism, such as Biourbanism. Biourbanism introduces new conceptual and planning models for a new kind of smart city, which values social and economic regeneration of the built environment by developing healthy communities. Biourbanism combines technical aspects, such as zero-emission, energy efficiency, information technology, etc. and the promotion of social sustainability and human wellbeing. Biourbanism has the potential

to educate the next generation of architects and enable them to create original and human oriented designs.

The use of live projects in the delivery of modules linked to Biophilic Design and Biourbanism can offer the opportunity to get educators from a variety of disciplines: sciences, design and architecture. Hence, active learners should be able to morph the future of urban space by successfully inputting their educational experiences into new and innovative designs governed by new urban theories and planning practices, such as e-planning of smart cities. Research carried out in live projects offers the opportunity to teachers and learners to share common experiences and evaluate important factors of anticipation of future events, such as the life span of urban areas and their future mutations.

Since 2007, the European Smart City Model cherishes that a smart city is a city well performing in six characteristics, which are 'built on the smart combination of endowments and activities of self-decisive, independent and aware citizens'; that means this model cares about healthy citizens and cities as much as Biourbanism educators and scholars. Smart cities' six characteristics are: smart economy, smart mobility, smart environment, smart governance, smart living and above all smart people. These also become the main topics/arguments researched and discussed in live projects implementing Biophilia and Biourbanism principles and practices.

6. Author(s) Biography (200 words each):

Dr. Eleni Tracada teaches in the architectural programmes of the University of Derby; she taught Interior Design/Interior Architecture in the Leeds College of Art & Design, Leeds (2001-2007). She is Principal Tutor in the Built Environment (Architecture), Chartered Member RIBA Part III, Senior Fellow in HEA. Eleni was born in Athens, Greece; she graduated from the Faculty of Architecture of Florence in 1980 and worked as a self-employed architect in Florence (1983-1993). She was awarded a Master's degree in Interior Design, Manchester Metropolitan University in 1996. She is a member of the Scientific Committee of the International Society of Biourbanism; she has been Editor in Chief of the Journal of Biourbanism (2011-2014). She was awarded a PhD by Published Works at Derby; she writes and publishes articles in international journals and conference proceedings and chapters in books and e-books. She has participated in several international research projects, such as BEST Leonardo Lifelong learning (2011-2013), Wor(l)ds which Exclude (2013-2014), Dance Architecture Spatiality (2012-2014). Her research interests include human behaviours in urban spaces, architectural psychology and place making, Biourbanism and human-oriented design, ageing population needs in design. Eleni is co-Chair of People and Communities Technical Committee in Water Efficiency Network (WATEF).