

RESPONSIVE CITIES

Urbanism in the Experience Age

Barcelona, September 16th – 17th, 2016

CaixaForum Barcelona
The Social and Cultural Centre of “la Caixa” Banking Foundation in Barcelona
Av. Francesc Ferrer i Guàrdia 6-8 Barcelona

The **Responsive Cities Symposium** is one of the main activities carried out under the Knowledge Alliance for Advanced Urbanism - KAAU (www.ka-au.net) EU co-funded project. Based on the assumption that the increasing availability of data creates new opportunities not only for monitoring and management, but also for changing the way we describe, understand and design cities, KAAU is seeking to promote the innovative education and training that emerging technologies require, developing courses, symposiums and an educational and training platform.

Partners

Institute for Advanced Architecture of Catalonia (IAAC) - www.iaac.net

Università degli Studi di Genova (UNIGE) - www.arch.unige.it

École Nationale Supérieure d'Architecture de Montpellier (ENSAM) - www.montpellier.archi.fr

Santa & Cole - www.santacole.com

Darts Engineering - www.darts.it

Technilum® - www.technilum.com

MCRIT - www.mcrit.com

Useful Simple Projects (USP) - www.usefulsimpleprojects.co.uk

inAtlas - www.inatlas.com

ACTAR - www.actar-d.com

Champs Libre - www.festivaldesarchitecturesvives.com

Background

Over the last decades a new generation of cities and new city-planning paradigms have emerged. Urban development leaders and governments throughout the world has begun to consider innovative systems driven by information and communication technologies to be critical drivers with which to face today's urban challenges. Cities have started to invest in technology through the implementation of new transport management systems, water and contamination monitoring systems, smart energy grids and energy efficient buildings, to name a few.

The intelligent systems and devices formed a new hidden layer enhancing performances but basically remaining separate from the city's materiality and spatiality. This hidden layer took the name of Smart City and it is the expression of the Information Age, a period dominated by information accumulation, organization and transmission through desktop computers.

During the Information Age the role of architects and urbanists in generating visions for the city's future has started to fade, and the Smart City began to be theorized, described and developed by IT companies.

Today's advances create a scenario where technology has started to be embedded in our everyday life in such ways that it is becoming part of our bodies and surrounding environment, hence overcoming the desktop era. Wearable and VR technologies allow us to interact with each other and with the environment at augmented levels. Objects are interacting with us, building skins are becoming interfaces and architecture is becoming a series of evolutionary organisms, able to react, in real time, to multiple agents such as the environment, time or user needs.

It seems that the Information age is giving way to the Experience age, characterized by a high level of physical interaction and emotional involvement.

In this context, the *Urbanism in the Experience Age* Symposium claims a renewed active role for architects: the objective is to go beyond the limitations of the "Smart City" vision, investigating "Advanced Urbanism", intended as the practice of designing and planning receptive and reactive spaces, rather than the mere application of technological systems. Such a vision requires to rethink our design tools and planning processes, as well as the invitation to revise the educational models surrounding urban sciences.

The city planned following the Advanced Urbanism paradigm is a Responsive City that, through new communication protocols and design approaches, becomes an adaptive, emotional and experiential environment, able to hyper-connect and process information, changing its shape and performance according to the contingencies.

Day 1 – Keynote Speakers

Welcome and Introduction

Mathilde Marengo / IAAC
Chiara Farinea / KAAU
Areti Markopoulou / Responsive Cities Symposium

Citizen Participation in the Responsive City

Moderator: Judit Carrera – CCCB
& Mathilde Marengo –IAAC, Advanced Architecture Group

Albert Cañigüeral – OuiShare / Collaborative City
Janet Sanz Cid - Ayuntamiento de Barcelona / Common City
Mariina Hallikainen – Colossal Order / Gaming City
Saskia Sassen - Columbia University / Open City
Round Table Discussion

Dynamic Ecosystems in the Responsive City

Moderator: Maite Bravo – IAAC, Urban Sciences Lab
& Chiara Farinea –IAAC, Advanced Architecture Group

Philippe Rahm – EPFL - Philippe Rahm Architects / Energy City
Lydia Kallipoliti – EcoRedux; Rensselaer Polytechnic Institute / Ecosystemic City
Maíta Fernández-Armesto – UN Habitat / Adaptive City
Areti Markopoulou - IAAC, Advanced Architecture Group / Responsive City
Round Table Discussion

Digital and Social Data in the Responsive City

Moderator: Ramon Prat - ACTAR
& Aldo Sollazzo - IAAC, Advanced Architecture Group

Mar Santamaria – 300000kms / Data City
Manuel Gausa - UNIGE / Resili(g)ent City
Ethel Baraona Pohl – dpr-barcelona / Adhocratic City
Daniele Quercia – Bell Labs Cambridge / Sensory City
Tomas Diez - IAAC, Fab City Research Laboratory / Fab City
Round Table Discussion

CLOSING SESSION – Salvador Rueda - Superblock

CLOSING COMMENTS – Areti Markopoulou

Day 2 - Panel discussions

INTRODUCTION – Mathilde Marengo

DESIGN - designing intelligence | physical and digital merge | new interfaces

Moderators: Alexandre Dubor – IAAC, Advanced Architecture Group
& Rodrigo Rubio – IAAC, Project for the Self Sufficient City

Shima Roshanzamir / Morteza Farhadian Dehkordi - University of Applied Arts Vienna
Davina Jackson - University of London
Dimitris Papanikolaou - Harvard University
Iacopo Neri - Politecnico di Milano
Ben Hooker - ArtCenter College of Design
Alper Derinbogaz - Salon Architects
Djordje Stojanovic - 4ofseven

SHARE - open innovation | citizen participation | ethical cities | sharing economies

Moderators: David Bravo – CCCB
& Mara Balestrini – Ideas for Change

Sergio Tirado – RMIT
David Calas – Urban Sync
Laura Ferrarello / Suramyia Kedia - Royal College of Art Fabio Galicia
/ Daniel Szemerey - University College London Nonthavit Jitsupa -
Keio University Graduate School of Media Design Alessandro
Seravalli - GeoSmart Lab/Sis.Ter srl

ADAPT - resilience | programmable landscape | dynamic ecologies

Moderators: Vicente Guallart – IAAC, Project for the Self Sufficient City
& Silvia Brandi – IAAC

Eugenio Tisselli – Motorhueso
Jonathan Minchin, IAAC, Green Fab Lab
Zhao Deli - China Academy of Art School of Architecture and Art - Zai-Zao Architecture
Dennis Dollens - Studio Exodesic
Lorena Perona Ribés - Diputació Barcelona
Giulia Boller – University of Trento
Maider Llaguno-Munitxa / Biayna Bogosian - ETHZ / USC

EXPERIENCE - gaming | hyper cities | augmented reality

Moderators: Luis Fraguada – IAAC, Advanced Architecture Group
& Angelos Chronis – IAAC, Innochain

Jussi Holopainen – RMIT
Teodora Constantinescu - Hasselt University Jose
Sanchez - University of Southern California Temitope
Olujobi / Amber Bartosh - Syracuse University

BARCELONA LEARN – new educational models | making | research innovation

Moderators: Willy Müller - IAAC, Urban Science Lab
Areti Markopoulou - IAAC, Advanced Architecture Group

ETSAB, Escola Tècnica Superior d'Arquitectura de Barcelona
ETSAB, Vallès School of Architecture
La Salle, Universitat Ramon Llull
UIC, Universitat Internacional de Catalunya
IAAC, Institute for Advanced Architecture of Catalonia

ADVANCED URBANISM - LEARN – new educational models | making | research innovation

Moderators: Marité Guevara – MCRIT
& Luis Falcon – InAtlas

Chiara Farinea / Mathilde Marengo – IAAC
Raffaella Fagnoni / Nicola Canessa – UNIGE
Jacques Brion / Elodie Nourrigat – ENSAM
Claudia Roselló / Àfrica Sabé - Santa & Cole
Andrea Caridi - DARTS
Andreu Ulied – MCRIT
Vassili Beillas – TECHNILUM
Judith Skyes – USP

DISCUSSING THE RESPONSIVE CITY

Moderators: Maria Kuptsova - IAAC Advanced Architecture Group
& Jordi Vivaldi Piera - IAAC, Urban Sciences Lab

Rosalea Monacella / Craig Douglas – RMIT
Justyna Anna Karakiewicz - University of Melbourne
Christina Matika - Aristotle University of Thessaloniki
Wendy W Fok - Parsons School of Design Strategies
Christina Kalampouka / Evangelia Mori - National Technical University of Athens
Mora Kestelman - Sociedad Central de Arquitectos, Buenos Aires
Nicola Dario Baldassarre / Salvatore Dentamaro – Collettivo Arcipelago

CLOSING SESSION – Carlo Ratti - Senseable City

CLOSING COMMENTS – Areti Markopoulou, Chair Responsive City