

INTERNATIONAL CONFERENCE ARQUITECTONICS: MIND, LAND, SOCIETY

BUILDING THE SOCIAL LIFE: THE EMBODIED, CONFIGURATIVE AND DIALOGIC KNOWLEDGE EMBEDDED IN ARCHITECTURE AND URBAN PLANNING

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Title of the abstract: New lifecycles for drosscapes.
Recycle of a brownfield along the waterfront of Barcelona

Topic: Participation in planning. Environmental and hermeneutic planning

The new vision of the University and research centers as "urban institutions" gives them a privileged actor role for policies aimed at urban regeneration processes. The high offer of university education in Europe involves in part the "re-centralization" of old campuses and science parks, a suburban time, and on the other the spread of new decentralized centers as "science parks" and "teaching" of a network posted the training. The city of Barcelona has for years practiced this strategy and has deployed in different neighborhoods their universities, in order to ensure the functional *mixité* that gives life to the city.

The area of the *Parc de Les Tres Xemeneies* in Barcelona, next to the mouth of the River Besos, looks like a large production and energy transformation area waiting for a Recycling process. The old central - great archaeological ruins of contemporaneity - holds the symbolic and communicative power of the highly recognizable landmark to support that process of Recycle and encourage the conversion of the Cluster for Biomedical Research and Nanomedicine, able to mend the relationship between research and manufacturing, university and industry.

The river and marine ecosystem of this well-circumscribed portion of land increase the potential of a possible Recycle process: major environmental resources and open spaces favoring the connection between the parties and the creation of new places capable of becoming attractive for entire urban community (loisir, bathing, sports, culture). Furthermore they are able to guarantee the *Cluster de Les Tres Xemeneies* to be open and permeable to the city, excluding the idea of closed enclaves and restricted to a few uses / functions.

The research, of which this contribution is an extract, identify the problematic nature of the area and investigates three different cycles linked to each other: Cycle Industry, Landscape Cycle and Knowledge Cycle.

The first, the Industry Cycle, faces the high building density of Polygon Industrial, seen as a horizontal and compact city, not too different from an Arabic Qasbah.

The Landscape Cycle studies the urban form of Barcelona and shows the presence of a series of "pendulums" (Vila Olimpica, Parc de la Ciutadella, Parc Diagonal Mar) that hook to the coastal strip, which in this way wants to link the the whole territory.

The Knowledge Cycle binds research with industrial production: the choice of studying the relationship between the scientific and technical highly specialized activities and structures of the old partly abandoned industrial areas goes in the direction to verify the transfer and conversion of production Polygon in Industry 4.0 or in a Knowledge Industry.

This contribution is part of an experimental Master Degree thesis carried out as part of the Master of Science in Architecture at the Polytechnic University of Bari and discussed by the authors in January 2017, under the coordination of teachers: Nicola Martinelli, Imma Jansana, Vincenzo P. Bagnato, Anna Bruna Menghini, Michele Montemurro, Francesco Ruggiero, Francesco Trentadue.