

PROCEEDINGS

of the

INTERNATIONAL CONFERENCE

on

CHANGING CITIES III

Spatial, Design, Landscape & Socio-economic Dimensions

Under the aegis of

The Department of Planning and Regional Development, University of Thessaly
The Greek Ministry of Tourism

Editor:

Professor Aspa Gospodini

University of Thessaly

Syros-Delos-Mykonos Islands, Greece • June 26-30, 2017

Title: Proceedings of the International Conference on Changing Cities III:
Spatial, Design, Landscape & Socio-Economic dimensions

ISBN: 978-618-5271-12-1

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GRAFIMA PUBLICATIONS

Str. Eksadaktylou 5, 546 35 Thessaloniki, Greece

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Proceedings

of the International Conference on **Changing Cities III:**
Spatial, Design, Landscape & Socio-economic Dimensions
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Urban Natures for Changing Cities



Organized and chaired by:

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Fair natures in emerging minor urbanities. A green guide for seven categories

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Abstract

"Gazing at the horizon" - like Maria Reiche, who studied on the ladder the Nazca lines and who became the icon of the XV Biennale of Architecture in Venice - at a time of particular attention for the landscape and its transformations, our paper aims to re-map and highlight new ways to redesign open space, as though it was a fight to reaffirm the relationship between man and nature, in the a wide panorama of challenges faced in the minor urbanities.

Our research focuses on a broad review of interventions in the various sites taken into account and tries to develop a catalogue consisting of seven categories:

- Nature Agriculture - the agri-food necessity interacts with the urban reality;
- Nature Architecture - renewed inescapable historical relationship;
- Nature Art - *ex-officio* spontaneous and intentional relationship;
- Nature Culture - implant cultural use of the site;
- Natural Nature - unsubdued site;
- Nature Redemption - redeemed site;
- Nature Service - multitasking performances;
- Nature Sustainability - mandatory quality of the project.

Within each category several human project actions are attributable, whose purpose is to bring back the natural element to the center, with the aim to reconstruct the relationship.

The projects presented for each category contain symbolic values of all the selected criteria, but are placed in a specific category for the predominant feature.

Keywords: urban natures; minor urbanity; green categories; sustainability; green guide

INTRODUCTION

Going beyond the acknowledgment of the role of nature in its traditional and latest interpretations, this research aims to show some nude categories of relationships, where Nature, as the main character of the landscape, is not only a background figure, but it is also actor in seven pairs.

Recognizing nature as an exegete of contemporary design and, therefore, as a sustainable practice of the project, represents the transition toward a commitment to harmonious coexistence with nature. Identifying nature not only as a natural element of appearance or scene in architectural design - or in the global practice, as an object of exploitation - but as a bearer of rights subject, represents a fundamental change for our quality of life.

Replacing the role of the nature at the core of the project, in its deepest essence, not only as a pattern or shape creator and incubator of proposals, but as a way to affirm again the experience of an ordered world, governed by the laws of the nature, as it was in the Natural philosophy from the beginning¹.

Our research selects seven categories to organize seven pairs of Nature: Nature Agriculture, Nature Architecture, Nature Art, Nature Culture, Natural Nature, Nature Redemption, Nature Sustainability.

Each category summarizes and contextualizes contemporary fundamental relationships with nature and presents examples ascribable in the group, chosen according to two logics of belonging, a system that is not significant in terms of dimension, and another that collects all the case studies in terms of cultural and economic *minority*².

Speaking of the character of *minority* that qualifies the selected projects, an explanation is deserved. In particular, in our philosophical and disciplinary system, which pays attention to urban and regional contexts, the concept of minority is often associated with minimal urban conditions: small size cities or places, marginal communities subject to little attention from the social system.

In our view in the transformation of landscapes and the relationship man/nature, the concept of minority expands and at the same time is described in a specific way, focusing on marginal issues, helpful even within contexts of great dimension, with a consequent ground- ing feature even within large urban areas.

Many of the projects presented here have participated in the exhibition “Reporting from the front” at the 15. Biennial of Architecture in Venice [1] where this aspect of the design in the condition of minority has been the leading recurrence.

The projects, chosen for each identified pair, together constitute the issues for a not exhausted green guide, that could summarize the values in the making of an emerging culture concerning the man’s relationship with nature and, specifically, its urban nature dimension [2].

1. NA1 NATURE AGRICULTURE . The agri-food necessity interacts with the urban reality

Urban and suburban agriculture turns abandoned lots, in the center or in the periphery of cities, into places of re-naturalization of areas - frequently run-down areas - where biological and Km0 products are cultivated, creating jobs and strengthening the sense of community and neighborhood.

Urban agriculture, born in the Seventies, has undergone a strong acceleration in the last fifteen years. This revival started from the southern cities of the world in response to the excessive growth of food prices, and was soon recognized by the Food and Agriculture Organization of the United Nations (FAO) as a key tool in order to counter the increasing extreme poverty in the cities.

Il Prinzessinnengarten is a 6.000 sqm allotment in form of community garden in the center of Kreuzberg, born in 2009, from the Nomadisch Grün association’s project in an abandoned area of public property. The association considers this area as a new urban place of learning, where people can come together to experiment organic food production, biodiversity and climate protection. This project intends to increase biological, social and cultural diversity

¹ In fact, the Greeks called the world “kosmos” (harmonious order).

² Etymologically minority defines a quantity not exceeding the majority. In terms of numbers, the minority condition is a quantity even infinitesimally below 50%, in relation to the total amount of reference. In global terms a minority can be defined by a very large number. From the social point of view, however, the minority condition refers to marginal situations whose interest is wholly internal to specific areas.

and offers a new way of living in the city, by means of a recovery of a new relationship man/nature through agriculture [4].



Figure 1. Nomadic Green,
Prinzessinnengarten, Berlin, Germany 2009



Figure 2. Brooklyn Grange, Urban farming,
New York, USA 2010

Brooklyn Grange is a 2.5-acre organic urban rooftop farm in New York City. Since May 2010 it grows and distributes fresh local vegetables and hosts events and educational programming [8].

The *healthy food* issue is very sensitive in the United States. Spokesmen are internationally renowned chefs and Michelle Obama, messenger of it in her role as first lady, but the matter becomes even more interesting, especially from an architectural and moral point of view, when creating urban gardens can even avoid the “land use”.



Figure 3. Yichen Lu, The Land of Hope, China pavilion, Expo Milano 2015

A multitude of yellow flowers surrounded the entrance of Chinese pavilion at Expo Milano 2015 [9] evoking the expanses of ripe wheat fields. Yichen Lu and Tsinghua University were aimed to show the process of the crop according to the Chinese lunar-solar calendar and the five colors of the soil, a synthesis of cultural traditions and technological innovation in the field of agriculture, which is the soul of China through the millennia.

2. NA2 NATURE ARCHITECTURE. Renewed inescapable historical relationship

According to Karl Friedrich Schinkel, Architecture is the persistence of nature in its constructive activity. The Architecture and Nature relationship is therefore intrinsic, not only when it is inspired or imitates natural processes. However, it assumes an ethical character when it is established in terms of minority, sometimes becoming a minimal gesture but able to restore order and justice, to reconnect areas, activate local communities, improve the ethical value with aesthetic quality.

The Friendship Centre (Aga Khan Award for Architecture), was built for the local non-governmental organization which supplies services for poor citizens. The architect Kashef

Mahboob Chowdhury designed it to provide an inviting and accessible space, to blend with the natural environment the ruins of Mahasthan, a Buddhist dwelling from the third century BC. The Centre provides educational and housing objectives and is located in an agricultural area susceptible to flooding and earthquakes. The project relies on natural ventilation and cooling, facilitated by green roofs, courtyards and pools.



Figure 4. Kashef Mahboob Chowdhury,
The Friendship Centre,
Gaibandha, Bangladesh 2011



Figure 5. Vo Trong Nghia Architects,
House for Trees, Ho Chi Minh City,
Vietnam 2015

House for Trees is a possible answer to the rapid urbanization of cities in Vietnam. Vo Trong Nghia mentions that in Ho Chi Minh City only 0.25% of the entire metropolitan area is covered with greenery, making over the Vietnamese origins characterized by extensive tropical forests. Therefore, new generations are losing their connection with nature. The aim of the project is to re-establish it bringing green space back into the city by a tight budget (156,000 USD) intervention of housing. Trees grow on the roof of five concrete little buildings conceived as oversized pot plants, standing in a little area (226 sqm), crowded in one of the most densely populated of the city.

The Ring is an international center for sports innovation in the natural environment. It is a building suspended between heaven and earth in a large pristine forest that hides and protects the ruins of a Roman temple in Spain. From above architecture appears as a strong and mandatory sign, anti-organic, from below, on the contrary, it is perceived as a path traced in the landscape, and wedged open to the views of the wood and the sea. The large landscape scale is mediated by the alternation of the microscale of successive sequences of views, always the same and suddenly different for the peculiarity of the circular path.



Figure 6. José María Sánchez García,
The Ring, Guijo de Granadilla, Cáceres,
Spain 2011



Figure 7. Marte.Marte Architects,
Bridge Schanerloch, Dornbirn,
Austria 2005

The bridge through the Schanerloch is part of a spectacular route to an ancient settlement area characterized by a series of natural rock tunnels and stone arch bridges. Due to modern technology the geometry of the arch, curved and twisted, is decreased to its very limits.

The result is a concrete sculpture that might look unspectacular in plan and from the driver's point of view, but from the shore of the river, winding through the gorge, it unveils its compelling fascination: it playfully mimes the frozen dynamic of the mountain road and captures the dramatic place in reinforced concrete. Perfect in form, a masterpiece of design and statical calculation precisely fixed in the spectacular scenery.

3. NA3 NATURE ART. Ex-officio spontaneous and intentional relationship;

From an intuitive reading of the place art interventions on the landscape rise. These kinds of projects propose synthetic methods and conceptual vision, sometimes hyperreal combination of Art and Nature, which weaves a relationship of mutual exchange, that is almost a dialogue. In the man/nature relationship, therefore, a third person intervenes: the artist who, with overwriting actions, enhances the characters of the place producing, on one hand, an augmented reality for those who approach this new landscape, on the other producing artistic actions and objects on a large scale.



Figure 8. Nek Chand, The Rock Garden, Chandigarh, India 1957

Nek Chand was a self-made artist who began clandestinely to unclutter a portion of protected forest collecting materials from demolition sites to shape thousands of sculptures interlinked with courtyards and waterfalls. His artistic work is in the tradition of the Park of the Monsters at Bomarzo, Gaudi's Park Guell and Niki De Saint Phalle's Garden of Tarot, but in a primordial way. As if, the lure of the Nature itself aroused the need of Chand's artistic expression.



Figure 9. Teresa Moller, Catch the landscape, a) Calama, Chile 2016,
b) Venice, Biennale 2016

Among the most complex artistic experiments inspired by nature, works attributable to the Land Art are included. The most recent works by Teresa Moller are extremely conceptual. Particularly, *Catch the Landscape* is a sort of ubiquity representation: discarded marble blocks, as recycled material of the quarry coming directly from Atacama Desert (Northern

Chile), are placed in different outdoor areas at Biennale of Venice 2016 as well as in the original site, giving the visitors the chance for observation and contemplation of the landscape's and/or the architecture's beauty around them.



Figure 10. Ensemble Studio, Beartooth Porta, Fishtail, Montana, USA 2015

The structure, emerging from the earth on a large scale, is composed of two vertical rocklike forms that lean together at the top. The architects' purpose is to guide and inspire visitors in their exploration of the land. Beartooth is part of a collection of large-scale sculptural site-specific installations by leading artists and designers. These spatial settings reply to the environment by blending the boundaries of art, nature and architecture.

4. NC NATURE CULTURE. Implant cultural use of the site

The Nature Culture relationship is a complex field where complex mutations happen: different universes of learning, according to the specific issues, relate to the nature and can become a learning scenario itself. The educational purpose is integrated with the architectural design, with the building practice and materials, and the whole process is part of an educational experience that calls for a cultural awareness, research, construction of a social image, and life.



Figure 11. Elton & Léniz, Ande's shadows, San José de Maipo, Chile 2014

These features are widely fulfilled in Elton Léniz's Parque Likandes project, a minimal intervention in what costs and simplicity of construction are concerned, which is the Chilean and American resource within the Andean Mountains constraint and its heritage. The project, which provides accommodation for students and teachers, cafeterias, multipurpose rooms and services, reflects the care for nature by preserving of the local flora and fauna and, thanks to minimal architecture that redeems local materials, merges with the landscape of the park.



Figure 12. Vo Trong Nghia Architects, Farming Kindergarten, Biên Hòa, Dong Nai, Vietnam 2013

Vietnamese children find in this Farming Kindergarten green lands and playgrounds, thus relationship with nature, of which they were deprived by rapid urbanization.

The building, designed for 500 children of the factory's workers, is conceived as a continuous green roof, providing food and agriculture experience to children, as well as an extensive playground to the sky. On the green roof is realized an experimental vegetable garden where five different vegetables are planted in 200 square meters garden for agriculture education.



Figure 13. Jiakun Architects, West Village, Basis Yard, Chengdu, China 2014

The West Village encircles is a multifunctional complex consisting of various cultural activities and multitasking performances. The project, a contemporary arena for diversified lifestyles, aims to integrate a variety of social resources into a local collective-living space accommodating sports and leisure activities, cultural and artistic events, fashion and creative industries. In that place, there were a golf course and a natatorium, which has been preserved and rehabilitated as a multifunctional center. A walkway entwines the yard connecting each floor and, through essential structures, synthesizes collective memory, local characteristics and modern lifestyle like a strong energizer for urban communities. The application of locally handmade bamboo pallet delivers a unique texture on the surface of concrete, which also abstractly refers to the local vegetation.

5. NN NATURAL NATURE. Unsubdued site

A sort of integral ecology is at the root of the project on the landscape that adopts the principle of building with Nature as its mission. The project has to appear minimal for the almost total absence of construction of tectonic elements, but takes on the strong and powerful character of Nature adopting its own rules to which man must undergo. The design action therefore envisages a mimesis, an imitation of natural processes, a deep dive into the character of the place, which, in degraded contexts, reestablish a kind of original state, and in

protected landscape systems, the project foresees its use addressed to knowledge, environmental safeguard, enhancement.



Figure 14. *Toni Girones, Museum of Environment and Climate, Lleida, Spain (in progress)*

The climate is the first material of this project, where container and content coincide. A stable temperature inside a semi-built environment is a consequence of the perfect harmony man/nature and, specifically, designer/context. Taking advantage of the natural elements, the boundaries of the building dissolve in a large park that is part of the natural site, which is equally distant from the mountains (Pyrenees) and from the sea (Mediterranean coast between Tarragona and Barcelona). A new atmosphere envelops the visitors, and between light and dark, the sound of water accompanies people in an inside-outside experience.



Figure 15. *Plan for the Redevelopment of Coastal Landscapes, Ugento, Italy 2015*

The Ugento Park, today consists of a system of dunes, basins and canals; it is the largest in the Mediterranean area of Salento. The winner of the competition project for its development foresees the insertion of floating natural islets, made with bamboo and marsh bulrush structure in the form of large creels, ideal for the formation of natural habitats for spontaneous or induced fauna restocking, integrated with activities related to sustainable tourism.



Figure 16. *West 8, The new Hondsbossche Dune, The Nederland 2016*

The project is one of many examples of the Dutch government's approach to create natural coastal places. In this project, West 8 integrates the existing dunes overgrown with native vegetation with new designed elements aimed to minimize the dune erosion. The dunes offer natural mitigation from storms flows, with the added benefit of supporting botanic and zoological biodiversity. The project is sort of dynamic solution: shifting sands and vegetation interact with the beach environment and continue to evolve organically and reinforce leisure activities.

6. NR NATURE REDEMPTION. Redeemed site

The Nature Redemption category groups together and illustrates projects where the social redemption characterizes and invests abandoned and carelessly places turning them into new spaces, local embryos of new energy. Redemption, actually, belongs to all natural abandoned places to which a new life is given, thanks to a retraining project, but in the specific group, we have cataloged only those projects where the new use has minimal environmental impact with regard to a small investment for the achievement of an important social objective [5].

In 2008 in the park was build a Concessions Stand and a Skatepark and after a second basketball court, a combination pee-wee football/soccer field, and a secondary social hub called the Great Lawn which is sized for 3 regulation volleyball courts. The Great Lawn is enclosed with two mounds made from the excess dirt from the football field and anchored by an existing barbecue pavilion that the students renovated. The skate park is designed utilizing earth forms in order to minimize cost of a series of concrete strips.



Figure 17. Rural Studio, Lions Park Skatepark, Greensboro, Alabama, USA 2009



Figure 18. Assemble Studio, Baltic Street Adventure Playground, Glasgow, UK 2014

This new playground and organization in East Glasgow was realized through an on-going collaboration with the children and families of Dalmarnock (where around 54% of children live below the poverty line). It is a supervised child-led space offering free open-access play, caring adults, daily campfire food and warm and waterproof clothes to children from 6 to 12 years of age. Baltic Street offers space for children to grow in every and any direction they choose, embracing both creativity and destruction.



Figure 19. Toni Girones, Les Planes, Barcelona, Spain 2014

The micro-urban plan foresees an agile intervention in several municipal and abandoned plots in order to foster a new urban impulse. The common purpose between all these little projects that the city council of Barcelona has been developing during the 2014, which have been executed with very restricted budgets, has been to transform these spaces into sites for the citizens, regenerating and improving the immediate surroundings.

7. NS NATURE SUSTAINABILITY. Mandatory quality of the project

The projects presented in Nature Sustainability category show some of the qualities that characterize all projects that are aware to issues related to sustainability, which implement some environmental devices or special solutions, at different scales, careful to the preservation of environmental resources, stated as recovery strategies or zero energy projects [7].

In 2014, this intervention of landscape restoration won the International Architecture Award in the Category “Landscape Architecture”. The overall restoration project aims to reintegrate the landfill “Vall d’en Joan” in the area of the Garraf Natural Park. The restoration of the tank aims to enhance the character of the space available and a new door to the Garraf Natural Park in connection with the path GR-92.



Figure 20. Enric Batlle, Joan Roig, Teresa Galí-Izard Landscape Restoration of Garraf Park, Barcelona, Spain 2014



Figure 21. Marco Casagrande, Taitung Ruin Academy, Taitung, Taiwan 2010

The research center for bio-urbanism inside an abandoned sugar factory in South Taiwan, by C-LAB design studio, is a perfect example of sustainable natural integration where multifunctional education spaces are complemented with extensive community gardening and the introduction of wild plantation. All the interior walls of the building and all the windows are removed in order to grow bamboo and vegetables inside the house and the building’s roofs and rain water channels have been reorganized to harvest rainwater, while part of the ceiling has been removed in order to allow rain to fall on carefully selected areas of vegetation. According to ecological teachings the Ruin Academy hooks on to the Local knowledge of the Taipei basin and reacts on this and the design does not replace reality.



Figure 22. Atelier Coloco Tripoli Green Belt, Tripoli, Libya 2008-2009

Tripoli Green Belt develops a new urban vision and redefines the role and functions of

parks and public spaces in Tripoli. This intervention creates the conditions for an ecologically exemplary city where the challenge of combining city and nature creates a symbiotic system of parks with the aim of urban development not separated from a water-saving strategy, implemented to preserve scarce resources. The project, which starts from the existing natural features, builds an ecological corridor that works on the external interfaces of the city.

8. CONCLUSIONS

A green guide about fair minor natures is a knowledge tool for the dissemination of good practices of projects aimed at enhancing and reclaim *brownfields* and *greenfields* in borderline conditions.

The guide is intended to suggest procedures for the recovery of places at different scales and to provide a dynamic picture of what's going on now through examples built into an international environment. The undertaken actions at this precise historical moment, in fact, can contribute to a correct reading of our contemporary world.

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of the International Conference on **Changing Cities III:**
Spatial, Design, Landscape & Socio-economic Dimensions
 Syros, Delos, Mykonos Islands, Greece • June 26-30, 2017
 ISBN: 978-618-5271-12-1

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of the International Conference on **Changing Cities III:**
Spatial, Design, Landscape & Socio-economic Dimensions
 Syros, Delos, Mykonos Islands, Greece • June 26-30, 2017
 ISBN: 978-618-5271-12-1

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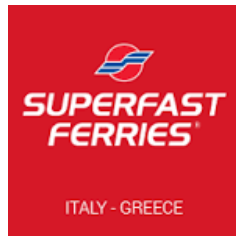
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