







dicar

Department of Civil Engineering and Architecture Polytechnic University of Bari https://www.dipartimentoicar.it/



U+D urbanform and design

International scientific journal http://www.urbanform.it/



lpa

Laboratorio di Lettura e Progetto dell'Architettura via A. Gramsci, 53 https://web.uniroma1.it/lpa/



SPBAP

Scuola di Specializzazione in Beni Architettonici e del Paesaggio via E. Orabona, 4 http://www.specializzazionepoliba.it/



Dottorato di Ricerca | Politecnico di Bari

Conoscenza e Innovazione nel Progetto per il Patrimonio via E. Orabona, 4

ISUFitaly

International Seminar on Urban Form Italian Network http://www.isufitaly.com/ Contacts Phone: +396 49919133 Fax: +396 49919240

PROCEEDINGS

edited by Paolo Carlotti Loredana Ficarelli Matteo leva

ISBN: 978-88-941188-6-5 U+D Editions



Organization

Conference Chairs

Matteo leva, Polytechnic University of Bari, Italy Paolo Carlotti, 'Sapienza' University of Rome, Italy Loredana Ficarelli, Polytechnic University of Bari, Italy

Scientific Committee

Luis C. Alonso-de-Armiño Pérez, Polytechnic of Valencia, Spain Giuseppe Arcidiacono, University of Reggio Calabria, Italy Enrico Bordogna, Polytechnic of Milan, Italy Alessandro Camiz, Girne American University, Cyprus Renato Capozzi, 'Federico II' University of Naples, Italy Paolo Carlotti, 'Sapienza' University of Rome, Italy Giancarlo Cataldi, University of Florence, Italy Vicente Colomer Sendra, Polytechnic of Valencia, Spain Edoardo Currà, 'Sapienza' University of Rome, Italy Anna I. Del Monaco, 'Sapienza' University of Rome, Italy Carlos Dias Coelho, University of Lisbon, Portugal Wowo Dina, University of Naniina, China François Defaux, University of Laval, Canada Loredana Ficarelli, Polytechnic University of Bari, Italy Luigi Franciosini, Roma Tre University, Italy Matteo leva, Polytechnic University of Bari, Italy Vincenzo Latina, University of Catania, Italy Wendy R. McClure, University of Idaho, USA Gino Malacarne, University of Bologna, Italy Teresa Marat-Mendes, University of Lisbon, Portugal Marco Maretto, University of Parma, Italy Nicola Marzot, University of Ferrara, Italy Anna Bruna Menghini, Polytechnic University of Bari, Italy Carlo Moccia, Polytechnic University of Bari, Italy Pierluigi Morano, Polytechnic University of Bari, Italy Dina Nencini, 'Sapienza' University of Rome, Italy Rita Occhiuto, University of Liege, Belgique Vitor Manuel Araujo Oliveira, University of Oporto, Portugal Attilio Petruccioli, 'Sapienza' University of Rome, Italy Franco Purini, 'Sapienza' University of Rome, Italy Carlo Quintelli, University of Parma, Italy Antonio Vito Riondino, Polytechnic University of Bari, Italy Francesco Rispoli, 'Federico II' University of Naples, Italy Renato Rizzi, IUAV, Italy Giorgio Rocco, Polytechnic University of Bari, Italy Ivor Samuels, University of Birmingham, United Kingdom Andrea Sciascia, University of Palermo, Italy

Uwe Schröder, RWTH Aachen University, Germany

Giuseppe Strappa, 'Sapienza' University of Rome, Italy Fabrizio Toppetti, 'Sapienza' University of Rome, Italy Federica Visconti, 'Federico II' University of Naples, Italy Michele Zampilli, Roma Tre University, Italy

Organizing Committee

Paolo Carlotti, 'Sapienza' University of Rome, Italy Loredana Ficarelli, Polytechnic University of Bari, Italy Matteo Ieva, Polytechnic University of Bari, Italy Anna Bruna Menghini, Polytechnic University of Bari, Italy Carlo Moccia, Polytechnic University of Bari, Italy Annalinda Neglia, Polytechnic University of Bari, Italy Antonio Vito Riondino, Polytechnic University of Bari, Italy Giuseppe Francesco Rociola, University of Bari, Italy Nicola Scardigno, Polytechnic University of Bari, Italy Mariangela Turchiarulo, Polytechnic University of Bari, Italy

Conference Office

Marianna Calia, Polytechnic University of Bari, Italy Antonio Camporeale, 'Sapienza' University of Rome, Italy Nicola Scardigno, Polytechnic University of Bari, Italy Luca Tommasi, Polytechnic University of Bari, Italy

Conference Staff

Paolo Baronio, Polytechnic University of Bari, Italy
Francesca Delia De Rosa, Polytechnic University of Bari, Italy
Tiziano De Venuto, Polytechnic University of Bari, Italy
Antonello Fino, Polytechnic University of Bari, Italy
Alessandro Labriola, Polytechnic University of Bari, Italy
Rachele Lomurno, Polytechnic University of Bari, Italy
Francesco Paolo Protomastro, Polytechnic University of Bari, Italy
Vito Quadrato, Polytechnic University of Bari, Italy
Giuseppe Tupputi, Polytechnic University of Bari, Italy
Valentina Vacca, Polytechnic University of Bari, Italy
Marco Veneziani, Polytechnic University of Bari, Italy

Graphic design, editing and layout

Francesca Delia De Rosa, Polytechnic University of Bari, Italy

Conference Themes

T_Theory

- A.1 In the making structural or timeless paradigm?
- **B.1** Urban form between architecture and landscape
- C.1 Urban form between identity and spatial semantics
- D.1 Contemporary urban spaces between form and process
- **G.1** Urban form theories

R_Reading

- A.2 Form and structure of the historical city I
- **B.2** Form and structure of the historical city II
- C.2 Form and structure of the historical city III
- D.2 Form and structure of the historical city IV
- E.1 Urban morphology and settlement process I
- **E.2** Urban morphology and settlement process II
- F.1 Urban morphology and settlement process III
- **F.2** Urban morphology and settlement process IV
- G.2 Relation between periphery and natural space
- H.2 Structure of the informal city

D_Design

- A.3 Today's city and future shape I
- **B.3** Today's city and future shape II
- C.3 Today's city and future shape III
- **D.3** Urban restoration and post-trauma re-construction between conservation and innovation I
- **E.3** Urban restoration and post-trauma re-construction between conservation and innovation II
- F.3 The urban project between city and nature I
- G.3 The urban project between city and nature II
- H.3 Ecological urban environments

Ita_Lettura e Progetto

- H.1 Lettura urbana e forma futura
- H.4 Forma e struttura della città ereditata

Contents

43 THEORY

A.1 In the making structural or timeless paradigm?

- 45 Material intelligibility of urban spaces: matter and suspended forms of time. Kaltrina Jashanica
- 53 Proto 'Plastic' Architecture. Before Reinforced Concrete. Antonio Camporeale
- The shelter as architectural archetype for the architectural organism. Three South American paradigms (1950-1960).

 Vito Quadrato
- 75 Design Research for a New School of Health Professions at NYIT, Old Westbury, Long Island, New York. Giuseppe Fallacara
- 87 A matter of voids: A phenomenological survey of the Neapolitan Palazzo. Luigiemanuele Amabile, Marianna Ascolese, Alberto Calderoni, Vanna Cestarello

B.1 Urban form between architecture and landscape

- 97 (Re)shaping landscapes: scenic Hellenistic architecture in the making of a monumental urban form and its spread in Roman period.

 Antonello Fino, Alessandro Labriola
- 111 For a modern rural planning.

 Micaela Bordin
- Morphological change in the mediterranean cities. Gennaro di Costanzo
- 131 Void(s): excavations, clearings and caves.

 Marco Veneziani

C.1 Urban form between identity and spatial semantics

- 139 Livio Vacchini: the character of an urban architecture.
 Tiziano De Venuto
- 149 Heritage, tourism and identity: the repercussions on urban space.

 Gaia Vicentelli
- 157 City of Towers. The Auguste Perret project for Amiens.

 Antonio Nitti

167 Mapping places and memories through language: the AFOr (Archivio di Fonti Orali) project.
Matteo Di Cristofaro, Silvia Tagliazucchi

173 Analysis device: mega-structures on the threshold. Luigi Mandraccio

D.1 Contemporary urban spaces between form and process

- The role of urban analysis in the requalification of schools in historical centers, the case of Via Giulia.
 Aya Mohanna, Cinzia Paciolla, Sergio Policaro
- Possible Instruments for Understanding and Managing Complex Phenomena in the Contemporary City.

 Ledian Bregasi
- 203 Contemporary Public Spaces, Mobility and Porosity: shaping equal cities. Lucia Capanema Alvares
- Nuno Portas and the research on urban morphology at the Portuguese National Laboratory for Civil Engineering: Retrieving a possible glossary of urban form.

 Patrícia Bento d'Almeida, Teresa Marat-Mendes
- Fragmented Cities: Reviewing sub-communities in the Contemporary Metropolis.

 Aya Mohanna

G.1 Urban Form Theories

- The emergence of cities, in between the urban morphological studies, the design poetic achievements and the ethnometodological social surveys.

 Rasoul Ameli, Júlia Beltran Borràs, Magda Saura Carulla, Josué Nathan Martínez Gómez, Josep Muntañola Thornberg
- 241 Urban form as a stochastic equilibrium: some applications of Alan Turings morphogenetic model.

 Irene Cazzaro
- Comparative urban/architectural typology of the Central European towns (1867-1918).

 Éva Lovra
- 261 Compose with the fragments. Ludovico Romagni

269 Urban morphology and contemporaneity: using contemporary types in typological design.

Mazyar Abaee

283 **READING**

A.2 Form and structure of the historical city I

- Learning from the ancient city: Pompeii, the form of the city, the form of the block, the form of the house.

 Federica Visconti
- 297 Attractors, repellers and fringe belts: origins and medieval transformations of Arsinoe, Ammochostos, al-Mau'dah, Famagusta, Magusa.

 Alessandro Camiz
- 309 Historical urban patterns overlapping in Mediterranean old towns: the case of Roman, Muslim, Christian cities and updating urban renewals in Valencia (Spain).

 César Damián Mifsut Garcia
- 315 Issues on type and construction in the rioni of Rome built after the unification of Italy.
 Edoardo Currà, Malte Nettekoven
- 325 Historical domestic architecture in the old city of Taranto. Alessandro Iacovuzzi, Ubaldo Occhinegro

B.2 Form and structure of the historical city II

- Tarragona: fragmented development of a city.

 Federica Bonerba, Valeria Cinnella, Francesca Delia De Rosa, Matteo Ieva
- Tarragona: stratifications of the urban fabric on the Roman pre-existences.

 Debora Anelli, Antonio Brunetti, Maximillian Campicelli, Giuliano Pugliese,
 Matteo leva
- 359 Fortified architecture as monarchy propaganda in Sicily.

 Davide Falco
- From ghost town to guest town: the show as urban renewal. Susanna Clemente, Pia Marziano
- 381 Substrate architecture: characters of permanence in the formative process. Cristian Sammarco

C.2 Form and structure of the historical city III

- Reflects the tenet of privacy to be formed of the dead end in Iranian urbanism after Islam. Case Study: Historical Center of Shiraz. Iran. Farzaneh Nahas Farmaniyeh, Ali Sokhanpardaz
- A phase of development and completion in the urban structure of Torino: the Crocetta neighbourhood.

 Rossana Netti
- Railway stations: between past and present in the urban fabric of historic cities. Case studies in Italy and Spain.

 Letizia Musaio Somma
- 421 Boundary: a key urban fabric element to ensure urbanity.

 Abbas Senouci
- Between heaven and earth. Town planning and urban image in the Etruscan cities of the Late Archaic period.

 Paolo Baronio
- 445 City and penitentiary type. Letizia Gorgo

D.2 Form and structure of the historical city IV

- A city written by the water and by the men. The example of Liège. Paul-Christian Hautecler
- Detecting the non-existent: knowledge, analysis and reconstruction. The Campitelli district and the demolition of the late nineteenth century.

 Daniele Calisi, Maria Grazia Cianci
- Investigating the physical integration of historical bazaar as an urban structure of Iranian city, case study: Kerman bazaar.

 Pantea Hakimian, Azadeh Lak
- 489 Urban morphology and transformation. The pattern of housing in the historical cities of Iran. Case Study: Historical Texture of Shiraz. Iran. Ali Sokhanpardaz, Farzaneh Nahas Farmaniyeh

E.1 Urban morphology and settlement process I

- 501 The urban form after growth. Francesca Calace
- The use of Design Codes in Contemporary Urbanism between Tradition and Continuity.

 Vito De Bellis

Taranto from the post-war period to "the big industry". For a history of the city between urban morphology and settlement process.

Antonio Labalestra

Value and significance of Philippe the II ordinance in the colonial Latin American cities. Buenos Aires 1532-2018.

Anna Rita Donatella Amato

E.2 Urban morphology and settlement process II

543 Urban village and its Urban village and its transformation in the city center of Bandung.

Soewarno Nurtati

Mobile technology (GPS) and spatial appropriation in public spaces in São Paulo, Brazil.

Emika Takaki

Historicizing spontaneous city. Michel Ecochard and the «habitat pour le plus grand nombre» in Morocco.

Luca Maricchiolo

573 The characters of French planning in the Republic of Congo during the colonization.

Horsus Amède Bahonda, Giovanni Panetti

- 579 A paradigm of the modification. About a Vittorio Gregotti's project. Alessandro Oltremarini
- 589 Urban Open Spaces and the relation with Urban Development in Tirana City. Andi Shameti, Armand Vokshi, Doris Alimerko

F.1 Urban morphology and settlement process III

599 Commercial Spaces retrofit for City Regeneration: The Case Study of Nikolai-Quartier in Hamburg. Ambra Migliorisi, Greta Pitanti, Francesco Scattino, Francesco Sica

609 Understanding the Transformation of Urban patterns in Korça through Morphological Analyses.

Egin Zeka

Reading the Chinese Contemporary City through the morphological approach.

Domenica Bona

Transformation of Urban Form in Shkodër, Albania from a Venetian Outpost to an Ottoman Vilayet Center 1479 -1912.

Ermal Shpuza

F.2 Urban morphology and settlement process IV

- Sustainable design of urban heritage undertaking change: case study of the revitalisation of Darb Allabana area in historic Cairo.

 Doaa Salaheldin Ismail Elsayed
- 657 River landscapes of former Yugoslavia: urban systems in the archipelago city.

 Mariangela Turchiarulo
- Shopping suburban fabrics as a contrada: reading and transformation perspectives.

 Vincenzo Buongiorno
- 681 Living afloat: the last trend os setting in European Metropolis.

 Martina Callegaro
- Research on the form of urban productive public service facilities and the evolving mechanics analysis: the case of Nanjing city.

 Jin Li, Yue Su, Junyan Yang
- 701 Earth grooves and urban morphology. Canals and alleys nets in Guangzhou, China.

 Marianna Calia

G.2 Relation between periphery and natural space

- 711 Tirana's peripheries shiftings and their relations with nature. Irina Branko, Andi Shameti, Juljan Veleshnja
- 721 The hydrographic system as an urban structure in the plain north of Naples. Luigi Cimmino
- 731 Bottom-up representations of besieged urban neighborhoods.

 Matteo Giuseppe Romanato
- 741 The stone settlements of Basilicata and the rock archetype. Giuseppe Francesco Rociola
- Pioneer examples of planned garden housing settlements in Istanbul from 1950 and still in process.

 Otkunc Arbil, Öncel Derin, Barkul Ömür, Özaydin Gülsen, Cankat Ayegül

H.2 Structure of the informal city

- 767 Urban development and the informality of Tirana city. Juljan Veleshnja, Irina Branko
- 777 Proto-urban of Mongolian landscapes. *Nicola Scardigno*

787	Sheep track as "project matrix" of a landscape 'in becoming'. Nicola Scardigno
793	Urban sprawl of informal settlements in Belgrade, Serbia Models for standardization and reflections on recovery. Tanja Bajic, Natasa Danilovic Hristic, Jasna Petric
803	The informal city as a different way of urban regeneration. Maria Fierro, Paola Scala
815	Depicting and transfiguring informal constructions in Albania. Domenico Pastore
825	DESIGN
	A.3 Today's city and future shape I
827	New Forms of Living: The metaphor of the city within (and against) the city. Marson Korbi
839	The places for archeology in the city. Projects for the Imperial Fora. Rachele Lomurno
847	The opportunity of the dismantled. An Eduardo Souto de Moura's projects for a former factory in Portalegre. Francesco Paolo Protomastro
857	A new School Complex in Inveruno Milan. Transformation of an industrial area. Fancesco Menegatti, Tomaso Monestiroli
	B.3 Today's city and future shape II
863	Masterplan for the historical center of Viterbo. Paolo Marcoaldi
873	Merge teaching space and urban space. Reuse of school buildings heritage for a new didactics. Roberta Esposito, Enrico Marani, Giorgio Quintiliani
883	Architecture in motion. Hinged spaces for future cities. Gennaro Rossi
889	The urban form as variation of identity in a city. Mirko Russo, Claudia Sansò
897	Future cities between forms of space and forms of time: the urban regeneration case of the De Cuevel site in Amsterdam.

Laura Pavia

C.3 Today's city and future shape III

- The Interaction between the Geography and Built Environment in Istanbul Levent Integrated Valley System: A Reading of Urban Morphology based on a Metabolic Approach.

 Melih Birik, Tugce Tezer Cilgin
- 921 Co-Cairo: A Disruptive Paradigm Re-Defining our Future Juxtopolis Nadine Elsaket, Yara Elmalky, Shaymaa Khaled, Melissa Michail, Magda Mostafa, Farah Wahdan
- 929 La Piazza Spirito Santo, in Catania: Al confine tra Antico e Moderno Giuseppe Arcidiacono
- 937 The right to Architecture. Form of differt and the power of the project.

 Nicola Marzot
- 951 Urban renewal of Oran city center into question. Asma Rezk-kallah, Fadila Kettaf
- 963 On the search of human willfulness that had driven the making of a city in history: Morella.

 Júlia Beltran Borràs

D.3 Urban restoration and post-trauma re-construction between conservation and innovation I

- Water routes and open spaces for the urban regeneration of the Kasbah of Algiers.
 Giulia Annalinda Neglia
- 783 The restoration of a notable building: Palazzo Testa-Pelosi in Frigento. Renato Capozzi
- 995 Architectural forms on archeological ruins: a techtonic approach. Vincenzo Paolo Bagnato
- 1003 Authenticity/Identity. Forms and Features of the Post-Earthquake Reconstruction.

 Michele Montemurro

E.3 Urban restoration and post-trauma re-construction between conservation and innovation II

1011 Zone Urbaine Sensible and urban regeneration: preserving place identity by improving social inclusion.
Marichela Sepe

Marsica. Marco Felli 1027 The opportunities for smaller villages in the rapidity of globalization: some reasoning on the villages of the Alta Murgia. Giacomo Martines 1037 Heritage and renewal of the historical urban ensemble of Ulcini castle. Ledita Mezini, Florian Nepravishta 1047 The ancient center of Ascoli Satriano: studies on urban restoration. Angelo Memeo, Giuliana Petruzzellis, Simona Ricchitelli 1055 The ducal 'palazzo' of Ascoli Satriano. Roberta Mennea, Silvana Paloscia, Francesca Pinto F.3 The urban project between city and nature I 1061 City and Nature: Writings of a Fragile Balance between Erasure Overlap and Transformation. Rita Occhiuto 1069 The historical landscape in Albania: Ottoman tradition and challenges of the new expansion. Anna Bruna Menghini, Frida Pashako 1081 New Paradigms of city-nature. Giuseppe Tupputi 1091 Rural identity in the making. Architectural and urban design between city and nature. Bruna Di Palma G.3 The urban project between city and nature II 1101 The urban project betwen city and nature: the lesson of Arne Jacobsen in Copenaghen. Manuela Antoniciello, Felice De Silva 1111 Building the Open City. Francesca Addario

Conception of Water Element as part of Urban Fabric. Cases of

Evgenios Balasis, Suri Deepthi, Hadeel Fouad, Eleni Malamateniou, Nikita

Restoration Strategies on Historic Buildings after the Earthquake of 1915 in

Developments in Middle East.

1019

1119

Sharma

1133 The future of marginal and residual spaces in contemporary peri-urban landscapes.

Andrea Oldani

H.3 Ecological urban environments

- 1143 Toward clarification of meanings via ontological analysis method in environmental planning processes and actions.

 Stefano Borgo, Dino Borri, Domenico Camarda, Maria Rosaria Stufano Melone
- 1155 Timgad e Djemila, order and nature.

 Camillo Orfeo
- 1163 The principle of 'water attachment' for the Chinese cities: some consideration on settlement systems in Guangdong.

 Valentina Vacca

1173 LETTURA E PROGETTO

H.1 Lettura urbana e forma futura

- 1175 Morfologia urbana e resilienza. Strumenti e modalità del progetto contemporaneo tra permanente e temporaneo.

 Angela Fiorelli, Paolo Verducci
- 1185 Il piano della densificazione. Edilizia di base, livello di aggregazione degli edifici e densità.
 Marta Crognale, Paolo Carlotti
- 1197 La città contemporanea fra crisi di identità e ricerca di possibili istanze semantiche.

Antonio Vito Riondino

1207 Progetti di riqualificazione/rigenerazione urbana: occasione per un risanamento di anomalie morfologiche.

Leonardo Rignanese

H.4 Forma e struttura della città ereditata

- 1215 Protezione, conservazione e valorizzazione del patrimonio costruito e della città storica. Il caso di Locorotondo (BA).

 Rossella De Cadilhac
- 1227 Architettura monumentale fascista a Taranto. Giuseppe Volpe, Stefano Quatela, Simona Masciopinto, Saverio Lavolpicella, Leonardo Preziosa, Giuliana Vasquez

- 1237 I mulini per la canna da zucchero di Puerto Rico: un sistema infrastrutturale territoriale produttivo e un patrimonio di archeologia industriale in abbandono. Riflessioni e studi comparativi.

 Gentucca Canella, Anna Irene Del Monaco
- 1251 Indice dei nomi

The future of marginal and residual spaces in contemporary peri-urban landscapes

Andera Oldani

DAStU Dipartimento di Architettura e Studi Urbani, Politecnico di Milano, Via Bonardi 3, 20133, Milano, Italy andrea.oldani@polimi.it

Keywords: Residual Open Spaces, marginal spaces, peri-urban landscape

In the last years, the topics of regeneration and transformation of peri-urban borders have assumed an extraordinary relevance. On one side the excessive soil consumption has obliged to reduce the advancement of urbanisation processes, to preserve permeable soil 1133 and guarantee the minimal continuity of residual open spaces.

On the other, there has been growing evidence of marginalisation and decay in the existing borders that claims for reinvention and reevaluation of open spaces and city fabric. Those are topics that introduce a relevant material for the rediscussion of the role and the limits of open space design in the contemporary cities and highlit some ambiguities that require a cultural and theoretical realignment. It can be noticed the existence of an unmotivated disjunction between the physical reality of the built environment and an idealised concept of landscape as well as an evident ambiguity in the definition of the notion of nature.

In addition to this, it is indispensable reflecting on the role played by infrastructures as substantial elements of these territories. The contribution addresses these topics to the attention of the conference presenting some studies, analysis, and strategical proposals developed during the last decade in Milan and its metropolitan area.

Here the limits of the cities are faded in the residual open spaces where the traces of the previous territorial organisation are still visible. Territories that are cut by new and old infrastructures were vast industrial brownfields demand recovering, reuse or renaturalization. Obsolescence, neglection, abandonment, and diffused marginality are the topic where landscape and architectural design can still offer a possible future.

Today there has been a growth of interest in the topics of the regeneration and the transformation of peri-urban borders. Such attention can be related to a plurality of concurrent factors. For this reason, the critical debate on these territorial materials implies the necessity to deepen some probable reasons justifying such interest, to recalibrate the cultural terms involved in the debate, and finally to present some possible strategical approaches.

In fact, the design interpretation of the highly urbanised regions surrounding the major settlements implies an extensive revision of the cultural models inherited from the traditional disciplinary references, in favour of a more inclusive view on landscape. In these territories, limits are faded, coexistence and confusion are dominant and the whole pattern is unclear and unstable. The traditional opposition between urban and rural has ceased to exist since a long time. The dense traditional urban fabric has been replaced in place of a different concept of density based on the dilatation of distances. Here, in the place dominated by connecting infrastructures, the role and meaning of open spaces have undergone a constant change, losing of significance and progressive decline. These complex fields are difficult to understand and describe, as well as, because of their ambiguity, improbable to classify using the classical vocabulary. This paper tries to offer a possible view, discussing some theoretical questions and building a comparison with some research by design experiences developed around Milan.

A short trip in a standard scenario

Moving outside the city the reassuring succession of row houses started being discontinued. Old blind facades, with weak and peeling plasters, suitable only for billboards, were still waiting to accommodate other buildings never arrived. The interstitial spaces, occupied 1134 by leftovers of small productive activities and old mansions were still surviving to the urban growth. Vacant plots were unreasonably left to their destiny. Around there were some new buildings, breaking the friendly structure, like wedges in the voids, partially masking the nudity of the neighbouring fronts.

This was only the premise to a quick change of condition. After crossing the bridge on a small river, which was like sewage, the street surroundings became being variable.

The limits were faded, the space of the street grew incredibly. On the sides of the main lanes, a succession of spaces with variable depth and uncertain character preceded a varied succession of buildings. Here the most forbidden dreams of building contractors have become a reality in the form of unqualifiable architectural pieces. Massive brutalist blocks interrupted by clear crystal prisms were counterposed to hybrids post-modern linguistic experiments. This scenario appeared completed by private gardens full of trees, and concrete paved public parking areas, with rows of "ball-style" street lamps. Morphological and typological constants, rhythms, harmonies of the old city: all disappeared.

Immediately after, on the right, like a mirage, a dense scrub of trees partially covered a well-organised group of modest but fair buildings. It was a social housing complex from the fifties, once isolated in the peri-urban landscape. A little further on a group of towers emphasised the presence of a modest park. From the car, behind the bushes, it was possible noticing two battered swings and further an almost crumbling pedestrian bridge. It probably crossed the same derelict river we met before. Almost immediately a timid reappearance of row houses seemed to demonstrate the presence of a historically sedimented place.

Tha car was finally reaching the ring road that leads to the highway.

Some semi-abandoned industrial buildings appeared as a counterpoint to shreds of scattered agricultural fields on both sides. The view of a row of trees mirrored in a moat returned the sense of the original landscape. It was only a transitory image, lasted few seconds, because immediately the car was swallowed by the fast road junction.

The landscape of fringe belts

The scenario just now described is not far from the typical situation prevailing in many Italian and European cities. In fact, the progressive abandonment of the standard block type pattern, typical of the nineteenth-century city, has allover produced a decrease of

compactness in favour of dispersion. The result is from case to case variable, but almost everywhere characters and shapes produce a weak condition, where city users are still looking for a "traditional" urban realm, that is missing. All these aspects are emphasised in proximity to urban borders and fringe areas. Here the condition of dispersion is more critical because of a high level of contamination between different categories of spaces, and as a result of the degree of incompleteness of some parts.

The responsibility for the production of this condition is difficult to ascribe. Undoubtedly a crucial role has been played by urban and design theories that revolutionised the traditional idea of the city in favour of new models. As noticed by some scholars the progressive abandonment of the human scale of the old city also depends on the technological advancement of the first half of Twentieth Century. The diffusion of cars has undoubtedly increased the possibility of movement, allowing the growth of distances, as well as new space requirements. All factors that match the model of the diffused city (Gehl, 1971, 2010).

Looking at the physical conditions of fringe areas sometimes leaves astonished, and it appears unbelievable that such squalor can derive from a planning action. In this sense, it is necessary considering the complex interaction between processes of territorial economy, social dynamics and development, as well as transport and logistics system; all components strictly linked but not synergic in their reciprocal work. As a consequence, it appears a striking distance between the ideal forecasts and the actual results of the development, with results that are not gratifying compared to expectations.

Despite described in a rather simplistic way, this complicated relationship between project, territory, political, economic and social issues is crucial, and it is manifest in multiple phenomena regarding ordinary life. The image of a car-dominated scenery, for example, is well expressive of the suffering that contemporary humanity experiences concerning the spaces of dispersion. Moreover, it represents a cultural failure and highlights the necessity of 1135 "a new planning dimension", recovering the human scale for a more "lively, safe, sustainable and healthy city" (Gehl, 2010).

This problematic condition has a quite long critical history. The change in scale between the compact city inherited from history, and the dispersed form, typical of the developmental era, has been underlined more than thirty years ago (Choay, 1992). A little later this physical entity has been named as "urbanised territory" (Turri, 2000). More recently there have been many experiments in describing these territorial materials where it is difficult to identify borders, to highlight a centre, to recognise the thresholds that allow the distinction of the parts (Boeri, 2011). Meanwhile, it has been made recurrent the idea that "the future city will be that one built on the already urbanised territory" (Sotoca, 2012). Thought that opened a season of investigation of topics related to the possibilities of regeneration, recovering and reuse of existing buildings and fabric (Muck and Heilmeyer, 2012). Furthermore, the necessity of preserving virgin soils as an ecological and environmental resource for urban areas has imposed new rules for land use reduction.

Reclaiming fringe belts

This set of factors, as well as a diffused economic crisis, has imposed a rethinking of policies, processes and ways of development. As a result, it is undergoing a profound revision of the meaning of existing or potential void spaces characterising urban fringe belts.

The situation already described is clearly showing the existing of crisis phenomena that requires a consistent shift in the management of space. It is mandatory finding out a new concept for the scattered peripheries around the cities. The same idea of relationship must be upgraded, basing it on weak textures instead of massive connecting infrastructure. In the same way, the meaning of spaces and their hierarchy has to be revised, breaking the dominance of buildings in favour of open spaces, using landscape as the mean to give back form to the city (Corner, 1999; Waldheim, 2006). Similarly, the time of the transformation needs to increase, allowing sedimentation of ideas, choices, and processes. This goal can be obtained, first of all, revising the old vocabulary used to name the traditional city, assuming the ambiguities of fringe spaces as the starting point for a theoretical reinvention or realignment.

Fringe areas are unclear, and this character makes the traditional vocabulary uncertain if applied to them. For instance, the idea itself of the piazza, frequently used for a generic public space, does not correspond to the meaning, the morphological quality and the scale of the historical one. Here thinking on urban fabric in term of form is impossible as well it is almost unrealistic reasoning on scales and proportions. Distances are augmented, limits are faded, the compactness minimal, and the possibilities of geometrical relationships very low. After a long time of experimentation, it can be noticed that the attempts to re-shape the morphology of diffused city working on the vocabulary of the old urban form are widely failed. For this reason, the quality of traditional public spaces obtained from the generic city is even so poor.

Some key-concepts on open spaces in peri-urban borders

The character of ambiguity it has been already underlined can be applied to the open spaces of the fringe belt areas. As well as for public spaces and urban fabric a new vocabulary is missing, and the traditional definition does not work with the real meaning.

There are at least three main words/concepts that should be briefly analysed.

The first is the concept of "void". Premised the vagueness of this term, the idea of "void" as "emptiness" (like a vacant lot, an interstitial space, or an open urban area) always refers to the fullness of the constructed fabric, and it rarely represents a problem in the traditional city. Vacant or interstitial places were historically waiting to be filled by new constructions, and, in contrast, open spaces were private or public gardens offering a controlled, measurable break in the compactness of the cities.

As opposite, the fringe areas offer uncertain voids, reluctant to be categorised into specific types. Some of them are merely areas that have escaped the building process, resulting as vacant lands. In this category, they can also be considered the numerous areas resulting from demolition processes. Together with this, the majority of these unclassifiable "voids" are the result of planning rules and urbanisation processes. Indeed, the demand for public green standards has produced a constellation of separate fragments and degraded areas, including countless piazzas without sense and meaning. In the border areas are frequent also interstitial agricultural lands. Those are only partially active spaces in which the ancient functional vocation persists, including pre-existing signs and traces of the agricultural palimpsest (Dondieau, 2006; White and Przybylski, 2010). This complex mosaic is completed by many other residuals produced by infrastructural design. These fringes should be not confused with the spaces placed alongside roads designed according to a late nineteenth-century style that included large parterre, quays, strolls, today improperly used as parking areas, unrecognisable, and waiting to be recovered.

Fringe belts voids are demanding new ideas and use for these voids. The peripheral city should be redone starting from the design of new narratives based on open spaces. The traditional separations between streets, sidewalks, public and private green areas must be reviewed and modified in favour of a more complex and rich dialectic, that includes the creation of green masses, a sort of "vegetal blocks", obtained between the voids, through the concentration of trees, up to overturn the traditional figure-ground concept: a green morphology to restore the city.

This concept is subject to a complicated history, strongly influenced by national cultural backgrounds, and despite the attempt to give a unitarian definition through the European Landscape Convention, it is still full of ambiguities. It is common assisting to an unmotivated disjunction between the physical reality of the built environment and an idealised concept of landscape. This cultural approach is evident in the fringe belts areas. Here the existence of various sized open spaces, including several agricultural territories, moves the public attention towards the preservation of the ecological values and the primigenial characters of these areas. That is evident in the diffusion of a multitude of peri-urban parks, grew up to protect and preserve these relics. Indeed those are great initiatives, that "saved" essential parts of the territory, but on the other hand, it is indispensable moving the general and specialised attention toward a more inclusive concept of landscape. The task is that of breaking some

barriers, making clear the idea of landscape as the totality of the territory, including the relationship between built parts, open spaces and infrastructures, their quality, mutual interaction, formal and aesthetical values. This view is aimed at clarifying that the landscape is not one "aspect" or a "part" of the environment, as often affirmed by some ecologist branches, but a more complex and historical notion, that includes a fundamental aesthetic analysis and the sum of multiple cultural values (Roger, 1999).

In this sense, it is imperative also reconsidering the role and meaning of nature.

Finally, the last key-topic for fringe belts it is contained in the concept of relationship. The process of recovering of peri-urban open spaces should be set up from a strategy of relationships. These will consists of, not only physical connections but also perceptive, sensory, environmental aspects. The generic city does not offer a variety of experiences. Walking in the fringe areas is hugely annoying because their city realm was not though for pedestrians. There is always a direct correspondence between streets and walkways. The atmosphere is messy, congested with cars, sometimes noisy. The scale is dominated by bigness. People do not feel safe. Public leisure areas and open spaces are excluded from walking routes, frequently are fenced, insolated from daily pedestrian movement. Varying the route trying to cross them is inconvenient, and the experienced offered does not compensate the efforts because of the laking of interesting points and the elementary and poor design. Despite some exceptions, broad interstitial agricultural areas are not accessible. Highways and ringroads impose themselves as insurmountable barriers, surrounded by a halo of horror, made of waste spaces and squalid technical components, unable to build a pleasant aesthetic reality.

Building new relationships means collecting all these elements of friction, ways of use, spatial conditions and materials, trying to recycle them for a new general plot. Like in the process of montage the design will recombine all the ambiguities, working on the scarceness 1137 of fringe areas; increasing density, frequency, intensity and complexity of relationships.

Strategic design experiments in the Milanese region

Some strategic design experiences conducted in the Milanese region offer certain primary occasions to describe, understand and forecast the transformation of fringe belt areas.

The conditions are similar to those of the generic fringe territories previously described. The possibilities of perceiving the landscape are absent. Everywhere dominates atopy and generality, some identitarian elements and architectural emergencies disappear in the accumulation of ruins that these places evoke.

The experiences, developed on occasion of two research experiences of relevant national interest supported by the Italian Government, focused on Milan's west border (PRIN 2008), on the Metropolitan City of Milan in Magenta, and the context of Bergamo (PRIN 2010-11). Despite the differences regarding time, place, and research topics the three cases are significant compared to the themes of this paper because they allow a comparison, useful to acquire some generalizable indication for the study and the strategical design of peri-urban borders. The three geographical conditions, although territorially close, offers multiple views on the typicalities of fringe belts. Milan's west border provides a focus on the typical assets of the metropolitan peri-urban areas, grown up to incorporate the neighbouring centres, and developed along radial and annular infrastructural systems, within a dense fabric where persist some residual interstitial agricultural areas.

The situation of Magenta, in the Metropolitan Region of Milan, offers another view on fringe belts areas. Here critical infrastructural corridors superimposed themselves to historical axes, still significant in the territorial order. The territory offers, together with some significant agricultural landscape, brownfields areas that require the development of recovering strategies for a vast area.

The condition of Bergamo, autonomous reality in the context of a dense and connected territory, allows a reflection on the relationship between industrial dismissions, residual open spaces and urban fabric. Significantly a minor reality offers similar topics for comparison with larger scale situations.

Here the aim is not offering a detailed presentation of these experiences, already

commented and described, but highlighting some clue-topics essential to establish a methodological approach for the recovering of fringe belt landscapes.

At first, it should be highlighted the importance of description. Despite traditionally considered as a tool, limited to approach the context to take design decisions, today this process of knowledge should become a public, shared and fundamental, part of each strategical design process. Indispensable resource to explain the critical position assumed, to illustrate it and to explain the relationships between place understanding and design choices. Deepening the knowledge of peri-urban borders requires encouragement of use and innovation of descriptive tools. The experience developed has been based on the use of maps in combination with photographic sections to maximise the effectiveness of the description. Maps, selecting, highlighting and hierarchically ordering, show the real consistency of the parts, emphasising factors of absence and future possibilities. Photographs allow the acquisition of a sequence of critical points of view on the landscape. Together the two analytical tools avoid the possibility of separating the perceptual reality from the synthetic and abstract vision.

The process allows deepening the complexity of fringe belt areas, building a catalogue of ambiguities, ready to be reordered through design.

The second aspect that emerges from these case studies is linked to the sense of impossibility that distinguishes the recovering of periurban landscapes. Traditional tools and qualifying categories, like scale, measure, morphology, cannot be applied.

The developed experiences demonstrate how the idea of relationship can be assumed as a first tool to establish some form of hierarchy in a too generic totality. Consequently, the design in peri-urban areas should be set according to a multiscale logic, starting with macro-actions in the broad area, going then to focus on local implementations. Recovering fringe belt areas imply the idea of working prevalently on open spaces and, if possible, at the ground level of buildings. For this reason, it is fundamental to reconsider the concept of relationship, concentrating all the actions in the design of the ground. The horizontal surface increases its thickness allowing a complex narration. Spaces should be strongly characterised, with the intent to build a rich plot, calibrated on every possible use and able to offer multiple experiences. This aspect obliges to consider a visual rearrangement of these places, aimed at characterising the landscape, offering some identification elements, ordinarily absent. Likewise, it stimulates to include new forms of public green, including the possibility of dense episodes. Not walkable woods, capable of constructing visual and physical limits in contexts predominantly horizontal.

Another third essential aspect pointed out by the research it is related to the question of time. Some proposals have been developed focusing on this question. Thus produced the idea of an incremental project for the reflexive transformation of fringe belt landscapes. The actions follow each other, with various steps to test and verify the effectiveness of the interventions. This necessity derives from the ascertainment of the failure of an "accomplished" idea of design that characterised a long season of architecture. Consequently, it consists of an "open" hypothesis, able to respond flexibly to the solicitations that may incur.

Finally, the future of fringe belts area depends also on a firm intention to replace some models inherited from the consumer society. For instance, one of the most problematic conditions afflicting peri-urban contexts is related to car's congestion. Accordingly, a useful infrastructural project finalised to implement an active, sustainable mobility system, should act as an engine for the landscape recovery.

Abandoning the Romanticist perspective

Sometimes it worth questioning if our century would be decisive in breaking a deep attachment in romanticist feelings towards the past and the tradition. If this also happens the destiny of fringe belts will be more clear. In other words, the future of peri-urban areas is strongly dependent on a shift of perspective. To stop looking at the historical city as a model and to invent a new city on the ashes of our suburbs is the starting point of a new renaissance. This paper points out some aspects that are fundamental to opening this new phase. First of all, it proposes to re-examine fringe belts areas through an accurate description.

Second, it indicates the question of open spaces as crucial and decisive compared to built spaces. Meanwhile, it underlines the necessity to create the landscape of peri-urban borders, revolutionising the idea itself of public open space, working on the hybridisation and the identification of forms of coexistence and distinction between spaces of diversified nature. Last, it evokes the perspective of open processes and development phases based on medium and slow time as opening for a more meditated development.

Figure 1. Milan's West sector: frictions, ambiguities and contraddictions. (Credits: Author).



Figure 2. Milan's West sector: a new strategy of relationship. (Credits: Author).

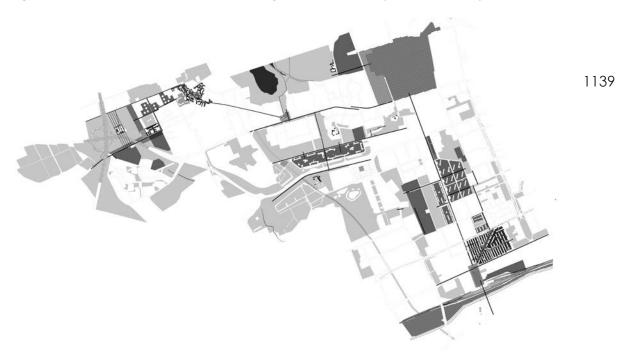
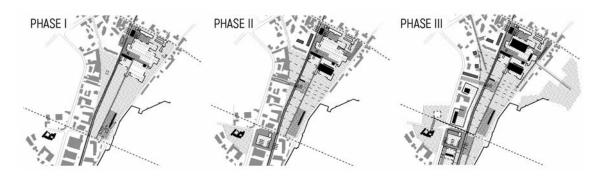
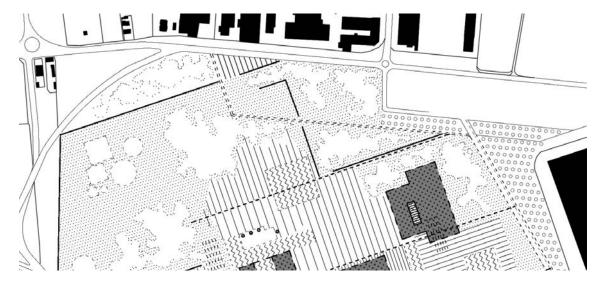


Figure 3. Bergamo, Area O.T.E: Incremental recovering process. (Credits: Author).



READING BUILT SPACES | cities in the making and future urban form

Figure 4. Magenta: Landscape porosity in brownfield recovery. (Credits: Author).



References

(Hatje Cantz Verlag, Ostfildern, Berlin).

Boeri, S. (2011) L'anti-città (Laterza, Roma-Bari).

Choay, F. (1992) L'orizzonte del post urbano (Officina; Roma).

Corner, J. (ed.) (1999) Recovering Landscape (Princeton Architectural Press, New York).

Donadieu, P. (2006) Campagne urbane. Una nuova proposta di paesaggio della città (Donzelli, Roma).

Gehl, J. (1971) Life Between Buildings (Danish Architectural Press, Copenhagen).

Gehl, J. (2010) Cities for People (Island Press, Washington).

Muck P. and Heilmeyer F. (eds.) (2012) Reduce / Reuse / Recycle - Architecture as Resource Roger, A. (1999) 'Life and Death of the Landscapes', in Lotus International 101, 83-90.

Sotoca, A. (2012) 'Habitability, Urbanity and Territorial Integration', in Sotoca, A., (ed.) After the Project: updating Mass Housing Estates (Politècnica de Catalunya, Barcelona).

Turri, E. (2000) La megalopoli padana, (Marsilio, Venezia).

Waldheim, C. (2006) The Landscape Urbanism Reader (Princeton Architectural Press, New York).

White, M. and Przybylski M. (ed.) (2010) 'On Farming', Bracket 1 (Actar, Barcelona).

1141