

VENICE

AESOP ANNUAL CONGRESS

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JULY
2019



PLANNING FOR TRANSITION

Book of Papers

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Planning for Transition

Contemporary cities and territories face significant challenges – natural disasters due to climate change impacts, ecological crises, growing socio-economic unrest, global migration, political rifts including a rise of right wing factions, ambitious public works and mega-projects – all of which require new capacities in dealing with such individual and multiple groupings of such challenging and profound changes.

It is a matter of fact that at international level a discourse if not a condition of transition is pervading sectors and societies. This discourse points to alternative patterns and solutions to many of the challenges faced. A quickly changing scenario requires forms of planning, both locally and globally, which bear the capacity to support and manage mutable urban and environmental conditions. In fact, although cities do incessantly change, policy-makers and institutions are never fully prepared to respond to complex and risky situations, as well as relying on planning and policy tools which are often outdated; in addition, also existing theoretical frameworks, concepts, cognitive abilities and approaches become ineffective or outmoded.

Each unintended or unanticipated change comes as a break to existing social, political, and administrative routines and yet it may be anticipated that mechanisms of collective reflection and action will be generated. The congress invites scholars and practitioners to present and discuss case-studies of cities and projects that have engaged in meeting challenging situations – supporting transitions in urban contexts.

Specifically, it is aimed at offering an understanding of the forms of knowledge, concepts, tools, and skills needed to plan and address transition. Furthermore, it seeks to explore whether (and how) managing such changes has brought any overall reconsideration of the city design model and towards more general institutional reconfigurations.

The book collects all the papers presented at the Aesop Venice 2019 conference. It is articulated in chapters that correspond to the tracks (16) and special sessions proposed (23).

Tracks

1. Transforming built heritage and landscapes
2. Urban design for multilevel planning
3. Teaching planning for the transition
4. Institutional change and regional transition
5. Methods and technologies for transformative planning
6. Community-based planning and social innovation
7. Theorizing urban change: complexity and ethics
8. Transition paths and urban futures
9. Climate proof cities and resilient societies
10. Urban metabolism and circular economy
11. Housing, gentrification and socio-spatial dynamics
12. Food, planning and healthy cities
13. Planning for accessibility and sustainable mobility
14. Planning, Law and Property Right: facing urban transitions
15. Tourism, spaces and urban cultures
16. Urban and Regional economics for transition

Special Session

1. Transition Histories
2. Urban Tourism, Neighborhood Change and Social Conflicts
3. Innovative Agriculture for Healthy Cities
4. Towards Post-Growth Planning Theory and Practice
5. Planning and Designing Green Infrastructures
6. Land Development and Management in Post-Socialist Countries
7. Home Sharing. Short-Term Rentals Affecting Local Housing Markets
8. Dynamic Change, Uncertainty and Planning for Adaptivity
9. Space, Citizenship and Identity: The Eu-Mena Region
10. The Role of The Local in Improving Cohesion and Spatial Justice
11. Friendly Spaces and Mobility for Ageing
12. Emerging Spatialities and Eu Policy Instruments: Cases and Perspectives
13. Facing Migrants Exclusionary Urban Policies
14. Learning Loops in The Public Realm. Enabling Social Learning in Communities to Tackle the Challenges of Cities in Transition
15. Planning and Biodiversity
16. Acsp-Aesop Special Session: Morsels of Hope: Migration and Urban Planning
17. Spatial Tensions: Urban Microgeographies for Changing Cities
18. Affordable Housing in Developing Countries: a Comparative Perspective
19. Acsp-Aesop Special Session: Learning from Arnstein's Ladder: from Citizen Participation to Public Engagement
20. Smart Cities and Regions Informing the Energy Transition
21. Maritime Spatial Planning (MSP) In Europe: Challenges in Transition
22. Shrinking Cities and Sustainability
23. Regional Design: Impacts on Territorial Governance and Planning Practice



PA 02 Transforming built heritage and landscapes

INFLUENCE OF CREATIVE ACTIVITIES ON THE RESIDENTS AND CONSERVATION OF CULTURE, HISTORY, AND LANDSCAPE IN SETOUCHI ISLANDS, JAPAN Asai Yuka, Miyake Saki, Abe Hirokazu, Otsuka Noriko	2
INVISIBLE PROJECTS: IMAGINED NEARNESS AS A TOOL TO EXPLORE LONG-TERM TRANSITIONS OF LANDSCAPE/HERITAGE. THE CASE OF THE RIVER TIBER IN ROME Avellini Elisa	12
ASSESSING THE TRANSITION FROM TRADITIONAL TO PARTICIPATORY HERITAGE MANAGEMENT IN TURKEY Aydin Gizem, Bleil de Souza Clarice, Cerutti Federico	21
TRANSITIONS TOWARDS LANDSCAPE-AND HERITAGE-CENTRED LOCAL DEVELOPMENT: A MULTI-LEVEL PERSPECTIVE Barbanente Angela, Grassini Laura	35
THE SLOW LINE AS AN OPPORTUNITY TO REGENERATE HERITAGE IN THE FRAGILE AREAS: THE CASE OF THE VENTO PROJECT Dezio Catherine, Giambruno Maria Cristina, Oppio Alessandra, Pileri Paolo	49
RESEARCH ON THE RENEWAL STRATEGY OF NEW AND OLD INTERSECTION COMMUNITIES IN METROPOLIS BASED ON THE CONCEPT OF LANDSCAPE URBANISM - TAKING A PRACTICE IN SHANGHAI TIANLIN COMMUNITY AS AN EXAMPLE Hu Shufen	62
TOWARDS A HISTORICAL URBAN LANDSCAPE: PRINCIPLES AND APPROACHES IN RECENT BUILT HERITAGE AND LANDSCAPE REGENERATION PROJECTS IN THE YORKSHIRE REGION OF ENGLAND Huang Yong, Ren Xiang	75
UMBRELLAS, INCUBATORS, MOTHERS AND KILLERS: FOUR TYPOLOGIES OF RELATIONSHIP BETWEEN CULTURAL MEGA-EVENTS AND SMALL AND MICRO EVENTS IN HERITAGE-RICH EUROPEAN CITIES Jones Zachary, Ponzini Davide	85
REFLECTIONS ON INDIVIDUAL MEMORY IN THE TRANSFORMATION OF CULTURAL HERITAGE COGNITIVE CONTEXT Li Cong, Li Jiaying	95
EMERGING NEW MODEL OF URBAN RESIDENTIAL HISTORICAL BUILT-UP AREA RENEWAL IN CHINA: FIVE PRACTICE OF URBAN RENEWAL IN SHENZHEN, GUANGZHOU AND SHANGHAI Long Jiayu, Gang Liu	119
PARADOXES OF THE ITALIAN HISTORIC CENTRES BETWEEN UNDERUTILISATION AND PLANNING POLICIES FOR SUSTAINABILITY Pellegrini Paola, Micelli Ezio	132
ALPINE INDUSTRIAL LANDSCAPES IN TRANSITION. TOWARDS A TRANSFERABLE STRATEGY FOR BROWNFIELD TRANSFORMATION IN MOUNTAIN REGIONS. Modica Marcello, Weilacher Udo	147
BUILT HERITAGE AND LANDSCAPE ROLE IN THE ROME METROPOLITAN PLAN Nucci Lucia	166
THE PRODUCTION OF HERITAGE Pace Michela, Chandler Alan	172
DEVELOPING TRANSFORMATION STRATEGIES FOR ALPINE INDUSTRIAL LANDSCAPES SHOWN BY THE STYRIAN IRON ROUTE IN AUSTRIA Pechhacker Julia, Forster Julia	182
LET'S TALK ABOUT CHANGE - EXPERIENCES FROM A VIDEO EXHIBITION CONFRONTING THE PUBLIC WITH URBAN AND LANDSCAPE TRANSITION BY REVISITING THE ORIGINAL SITES OF RELOCATED HISTORICAL MUSEUMS BUILDINGS TO VIEW THESE SITES IN THEIR CURRENT STATE Schretzenmayr Martina, Casaulta-Meyer Simona	196



Table of Contents

THE INFLUENCES AND IMPLICATIONS OF THE EUROPEAN CAPITAL OF CULTURE ON INTANGIBLE HERITAGE: NOVI SAD 2021	209
Stupar Aleksandra, Camprag Nebojša, Polić Darko	
URBAN DESIGN METHODS OF SHANGHAI TILANQIAO HISTORIC DISTRICT UNDER THE BACKGROUND OF URBAN RENEWAL	223
Sun Xinyu	
IN SUPPORT OF GLOBAL INTEGRATED LANDSCAPE INITIATIVES: EXPERIENCES FROM THE GREEN HEART IN THE NETHERLANDS	236
Tisma Alexandra, Meijer Johan	
BUILT HERITAGE AND AGENDA 2030. EMBEDDING HERITAGE VALUES IN THE SPATIAL PLANNING LOCAL AGENDA	248
Trillo Claudia	
WHO IS AFRAID OF TRANSITION? MONITORING THE IMPACT OF TRANSFORMATION ON HISTORICAL RURAL LANDSCAPES AS INDICATOR OF COMMUNITIES' CHANGING NEEDS	261
Vigotti Francesca	
RECONSTRUCTING PUBLIC HISTORY THROUGH EUROPEAN SETTLER AND INDIGENOUS HERITAGE AND LANDSCAPE	272
Walker Ryan	
SUSTAINABLE PROTECTION OF CHINESE HUMAN-HABITAT HISTORICAL ENVIRONMENT FROM THE PERSPECTIVE OF TRANSITION:CASES STUDY OF TRADITIONAL VILLAGES AND ANCIENT CITY OF PINGYAO IN SHANXI PROVINCE	290
Xu Xiwei, Yin Xi, Li Yang	
TRANSFORMATION OF ROADS' FEATURE PROTECTION: STATUS AND FUTURE THINKINGS OF SHANGHAI'S FEATURE-PROTECTED ROADS:BASED ON THE CASE OF YUYUAN ROAD IN SHANGHAI	301
Zhou Yeyuan, Xueyan Wang	

PA 03 Urban design for multilevel planning

WHAT ROLE DO URBAN POLICIES PLAY IN ENHANCING THE SATISFACTION FROM NEIGHBOURHOOD OPEN SPACES IN MIXED-USE CITY CENTRES: LESSON FROM AUCKLAND	315
Amirshekari Razno Salma, Beattie Lee, Silva Cristian Alejandro	
OPPORTUNITIES, INNOVATION, AND LEGITIMACY IN PUBLIC-PRIVATE COLLABORATION. LESSONS FROM FRENCH PRACTICES	327
Ariani Camilla, Donvito Giacinto	
ROME CAPITAL REGION: REASONS AND SCOPE OF A DIFFERENT PROSPECTIVE	352
Caudo Giovanni , Baioni Mauro, de Strobel de Haustadt E Schwanenfeld Lorenzo	
EXPLORING IBA BASEL – ASSESSING THE IMPACT OF TRINATIONAL COOPERATION AND THE RESULTING PERSPECTIVES FOR THE POST IBA PERIOD	360
Förster Agnes , Frieling Katharina, Thissen Fee Natalie	
THE ROLE OF PARTICIPATORY PLANNING METHODS IN THE DEVELOPMENT OF PUBLIC SPACES: A SYSTEMATIC CASE STUDIES REVIEW ON SUSTAINABLE URBAN GOVERNANCE	375
Geddes Ilaria, Charalambous Nadia, Papallas Andreas	
LIVING APARTMENT BUILDINGS IN ANKARA AND THEIR RELATION WITH THE CITY	389
Gedikli Bahar	
RESEARCH ON RENEWAL OF LEFTOVER SPACES BASED ON MULTI-ACTOR PLANNING	410
Guo YUCHEN, Baykurt Burçin, Dai Shuyuan	
CITY AS A TRANSFORMATIONAL TOOL. THE INFINITY CITIES OF IVAN LEONIDOV	433
Lanini Luca	
PARTICIPATION AND COMMUNICATION: CHANGSHA CHILDREN FRIENDLY CITY PLANNING, DESIGN AND ACTIONS ON MULTIPLE LEVELS	444
Li Ziyue, Ze Zhang	



Table of Contents

A MULTILEVEL URBAN LANDSCAPE MEASUREMENT FOR ZONING CONTROL – A CASE STUDY OF GUSHAN KAOHSIUNG IN TAIWAN Li Jouhui, Han-Liang Lin	460
THE ROLE OF CLIMATHON® IN THE CHALLENGE OF MULTILEVEL ECOLOGICAL PLANNING Lorenzo Viviana, Massari Martina	479
INTERDISCIPLINARY METHODOLOGY FOR RETHINKING THE URBAN LAYOUT VIA MULTI CRITERIA ANALYSIS AND INDICATOR APPLICATION Luciani Francesca Romana, Caccamo Alessio, Herzog Lavinia, Nigro Silvia, Tommasoli Lavinia	488
COLLABORATIVE PROCESSES AND SPATIAL PLANNING: THE NATIONAL SPATIAL PLANNING POLICY IN PORTUGAL Maia Catarina, Sá Marques Teresa	499
FROM TRADITIONAL NEIGHBORHOODS TO URBAN ENCLAVES: AN INVESTIGATION ON THE RESIDENTS' PERCEPTIONS OF THEIR RESIDENTIAL TERRITORIES Memlük Çobanoğlu Nihan Oya, Akkar Ercan Müge	514
THE CHARACTERISTICS OF THE WORKING PLACE OF THE CREATIVE CLASS: THE CASE OF FASHION DESIGNERS IN ISTANBUL NISANTASI Olçay Gülsen Pelin, Mengin Hande	528
AN INCLUSIVE, MULTILEVEL PLANNING EXPERIENCE TO REGENERATE MILAN METROPOLITAN PERIPHERIES Pezzoni Nausicaa	545
CHARACTERISTIC OF FLEXIBLE SPACE OF TRADITIONAL URBAN STREET UNDER THE CONCEPT OF HEALTHY CITY: CASE STUDY OF MUSLIM SETTLEMENTS IN XI'AN Ren Yunying, Bai Shuaishuai, Wang Ruoyu	555
ASSESSING TERRITORIAL VULNERABILITIES AND SPATIAL INEQUALITIES: THE CASE OF PORTUGAL Marques Teresa, Saraiva Miguel, Matos Fátima, Maia Catarina, Ribeiro Diogo, Ferreira Márcio, Amante Ana	566
GRENOBLE-ALPES AND THE ECOLOGICAL TRANSITION: TERRITORIAL PLANNING IN MOTION Seigneuret Natacha	577
THE SPATIAL DIMENSION OF THE FLEMISH COVENANT OF MAYORS: A COMPARATIVE SPATIAL ANALYSIS ON THE TRANSITION TOWARDS ENERGY NEUTRAL MUNICIPALITIES Van Noordt Anneloes	591
SENSING OLDER PEOPLE'S LIVED EXPERIENCES THROUGH VISUAL IMAGES IN SINGAPORE Yuen Belinda	602
PRIVATIZATION, MARGINALIZATION AND REUSE OF WATERFRONT SPACE IN NEW TOWN - TAKING ZHANGJIANG SCIENCE CITY ZHONGSHI UNIT AS AN EXAMPLE Zhang Shuhan, Zhang Hanghua	613
STUDY ON THE CONSTRUCTION STRATEGY OF GREEN SPACE IN URBAN SHALLOW MOUNTAIN AREA—TAKING XISHAN MILITARY INDUSTRY COMMUNITY IN WULITUN AREA OF BEIJING AS AN EXAMPLE Zhao Xiyao, Zhuang Hang, Lin Qing	633

PA04 Teaching planning for the transition

THE ROLE OF THE UNIVERSITY IN THE PROMOTION OF SOCIO-SPATIAL JUSTICE Álvarez de Andrés Eva, Falleiros Frare Ulises	645
RESEARCHING SCHOOLS VS RESEARCHING WITH SCHOOLS. AN URBAN RESEARCH LABORATORY EXPERIENCE IN AN ITALIAN HIGH SCHOOL Aliberti Francesco, Avellini Elisa	654
RECONFIGURING TEACHING/LEARNING/ACTION/RESEARCH: APPARATUS FOR SOCIO-SPATIAL TRANSFORMATION WITH/IN DISADVANTAGED RURAL REGIONS Baxter Jamie	661



Table of Contents

INTEGRATED DEVELOPMENT PLANNING - POLISH PRATICE AND DIDACTIC CHALLENGES Churski Pawel	679
TEACHING URBAN PLANNING THROUGH INTERNATIONAL COOPERATION PROJECT WITH AFRICAN CITIES IN VERY FAST TRANSITION TIMES De Leo Daniela, Coralli Monica	694
A COLLABORATIVE LEARNING APPROACH TO PROMOTE POSITIVE INTERDEPENDENCE IN A “PLANNING SUSTAINABLE CITIES” COURSE Martinez Javier	699
TRAINING YOUNG PLANNERS AS EXPERTS IN PARTICIPATORY PROCESSES: THOUGHTS AND EXPERIENCES FROM PALERMO, ITALY Picone Marco, Schilleci Filippo	714
CREATING SHARED CONSCIOUSNESS THROUGH COLLABORATIVE EDUCATION: THE CASE OF MUNICIPAL AMALGAMATION IN UKRAINE Vlasenko Iegor, Thomann Urs	721
INCLUSIVE EXPERIENTIAL LEARNING AT GRADUATE LEVEL PLANNING STUDIO: A COLLABORATIVE GOVERNANCE CASE Waite Imge Akcakaya, Alkay Elif, Becerik Sinem	739
“COLLABORATIVE INTERNATIONAL WORKSHOPS – A JOINT BRAZILIAN-GERMAN TEACHING EXPERIENCE FOR PLANNING IN VULNERABLE AREAS COLLECTIVE LEARNING ON PLANNING FOR INTEGRATION AND TRANSITION” Wolff Almut, Leitão Gerônimo	762
 PA05 Institutional change and regional transition	
THE ROLE AND THE FUTURE OF SMALL TOWNS IN THE CENTRAL ITALY EARTHQUAKE CRATER 2016 AND “THE RECONSTRUCTION OF THE POSSIBLE”, PARTICIPATORY WORKSHOP FOR A POST-EARTHQUAKE DEVELOPMENT PLAN IN BOLOGNOLA Baiocco Ruben, Catalanotti Cristina, Ernesti Giulio, Barbiero Massimiliano	773
BETWEEN EAST AND WEST. EU AND CHINA'S COMPETING SPATIAL INTEGRATION LOGICS FOR THE WESTERN BALKAN REGION Berisha Erblin, Cotella Giancarlo	779
BUILDING RESILIENCE THROUGH COLLECTIVE LEARNING IN PROJECT-ORIENTED ORGANIZATIONS IN INFRASTRUCTURE PLANNING De Groot Bert, Leendertse Wim, Arts Jos	795
IN-BETWEEN DYNAMICS. TOWARDS A RECONCEPTUALIZATION OF SOFT SPACES IN REGIONAL PLANNING De Jong Martine, Hajer Maarten, Hoffman Jesse	810
METROPOLITAN GOVERNANCE IN MEXICO: THE INSTITUTIONS Demerutis-Arenas Juan Ángel	832
“THERE IS NO WAY OF SPEAKING LOGICALLY ABOUT THIS MESS”: THE IMPACT OF ACTOR-RELATIONAL DYNAMICS ON INTEGRATED PLANNING PRACTICE Eräranta Susa, Mladenovic Miloš N.	846
REGIONAL INNOVATION AND THE NEW TERRITORIAL GOVERNANCE. FRENCH AND SPANISH CASES García-Nicolás Cristina	858
REGIONAL TRANSITION, TERRITORIAL DIFFERENTIATION, COMPOSITION FOR SUSTAINABLE TRAJECTORY Verpraet Gilles	872
SETTING UP THE NEW PLANNING SYSTEM IN KOSOVO - EVOLUTION AND INFLUENCES IN THE DEVELOPMENT Gjinolli Ilir	891
RESPONSIBILISATION IN FISH HABITAT REHABILITATION AND STEWARDSHIP Gregory Kieran, Grant-Smith Deanna	912



Table of Contents

SPATIAL EVOLUTION CHARACTERISTICS AND THE PLANNING COORDINATION MECHANISM OF CROSS-BORDER REGIONS IN RESCALING Huang Yinbo	925
RESEARCH ON REGION GOVERNANCE CHARACTER AND MECHANISM OF SUBURBAN COUNTIES SURROUNDING METROPOLITANS IN CENTRAL CHINA Huang Yong, Sun Xuyang	937
SPATIAL GOVERNANCE AND PLANNING SYSTEMS AND THE CAPACITY FOR PUBLIC CONTROL OF SPATIAL DEVELOPMENT: A EUROPEAN TYPOLOGY Berisha Erblin, Cotella Giancarlo, Janin Rivolin Umberto, Solly Alys	951
ASPERN EXPLAINED: HOW THE DISCURSIVE INSTITUTIONALIZATION OF INFRASTRUCTURE PLANNING SHAPED NORTH-EASTERN VIENNA'S URBAN TRANSFORMATION Krisch Astrid, Suitner Johannes	965
"OBSERVING GOVERNANCE FROM THE 'STREET LEVEL' AN INVESTIGATION ON FIRST ACCESS SERVICES IN BOLOGNA, EMILIA ROMAGNA, ITALY" Marani Benedetta	985
INSTITUTIONAL PATTERNS FOR METROPOLITAN GOVERNANCE IN LAC COUNTRIES. THE DIFFERENTIATED EVIDENCE FROM BOLIVIA AND BRAZIL Pioletti Maurizio, Royer Luciana de Oliveira, Urquieta Crespo Patricia	1005
TERRITORIAL PLANNING AND URBAN TRANSFORMATIVE CAPACITIES. PRELIMINARY REFLECTIONS ON THE CASE OF VALENCIA IN SPAIN Segura-Calero Sergio, Peris Jordi	1026
URBAN RENEWAL MECHANISM IN MINORITY NATIONALITY AREAS OF CHINA IN THE NEW ERA Shen Cheng, Zhang Xinyi	1040
GRAND PARIS OR ÎLE-DE-FRANCE? COMPARING TWO INSTITUTIONAL MODELS FOR TRANSITIONING TO SUSTAINABLE TRANSPORT IN THE ÎLE-DE-FRANCE REGION Singerman Ray Rosalie, Maaoui Magda	1051
GOVERNANCE AND POWER IN THE METROPOLITAN REGIONS OF THE RANDSTAD Spaans Marjolein, Zonneveld Wil, Stead Dominic	1058
ADVISABILITY OF REINTRODUCING THE BUILDING CODE DOCUMENT TO CANTON SARAJEVO SPATIAL AND URBAN PLANNING LEGISLATION Tabori Nataša	1081
THE NEW DYNAMICS BETWEEN REGIONAL AND URBAN GOVERNANCE: RURAL AREAS AS CONNECTION ELEMENT Torrìsi Luca	1100

PA06 Methods and technologies for transformative planning

TERRITORY AS MEDIA AND SOCIAL MEDIA AS TERRITORY Aliberti Francesco	1116
TECHNOLOGY READINESS FOR CITIES: THE NEAR-FUTURE CASE OF AUTONOMOUS PASSENGER DRONES Donnet Timothy	1126
THE SYSTEM OF SOCIO-SPATIAL DIVERSITY MONITORING IN THE CITY OF GDANSK, POLAND Gralewska Anna	1133
URBAN PLANNING AND NATURE: PARAMETRIC MODELLING AS A TOOL FOR RESPONSIVE GREENING OF CITIES Lemes de Oliveira Fabiano , Hamdan Dana	1143
MAPPING THE LANDSCAPE OF BEHAVIOURAL THEORIES: SYSTEMATIC LITERATURE REVIEW (SHORT REVIEW OF) Kwon Heeseo Rain, Silva Elisabete A.	1156



Table of Contents

A TRANSDISCIPLINARY PERSPECTIVE ON CITY TECHNOLOGIES: TOUCHPOINTS BETWEEN INFORMATICS AND URBAN DISCIPLINES Lupi Lucia	1161
TOWARDS A BETTER UNDERSTANDING OF UPCOMING CHALLENGES RELATED TO TECHNOLOGY AND DATA USABILITY WITHIN DESIGN PRACTICE. KEY REFLECTIONS FROM A COLLABORATIVE PROCESS IN AMSTERDAM CITY Luque-Martín Irene	1178
LANDSUPPORT, A DECISION SUPPORT SYSTEM FOR TERRITORIAL GOVERNMENT Coppola Emanuele, Moccia Francesco Domenico	1192
A KNOWLEDGE-DRIVEN APPROACH TO URBAN TRANSFORMATIONS: DENSIFICATION STRATEGY OF THE CENTRAL PARTS OF BERGEN, NORWAY Roald Hans Jacob, Elric de Koning Remco	1203
SÃO PAULO CITY GIS PLATFORM: GEOSAMPA Seo He Nem Kim, Aguilar Carolina Bracco Delgado de	1217
EXPLORING THE RELATIONSHIP BETWEEN URBAN VITALITY AND THE DISTRIBUTION OF AMENITY TYPOLOGIES Sulis Patrizia, Manley Ed	1226
THE MAPPING OF HISTORICAL STREETS ON SOCIAL MEDIA: A CASE STUDY BASED ON IMAGE RECOGNITION AND SEMANTIC RECOGNITION Tang Haoming, Wang Weiqiang	1235
COMMUNITY-BASED DATA FOR A NEW TAXONOMY OF ABANDONED PLACES Garda Emanuele, Saloriani Stefano, Villa Daniele	1247
 PA07 Community-based planning and social innovation	
THE SELF-BUILD HOUSING IN MADRID (SPAIN): 40 YEARS OF STRUGGLE Álvarez de Andrés Eva	1257
NEW ROLES FOR ADMINISTRATIONS, PLANNERS AND CITIZENS IN THE SELF-ORGANIZATION VIEW Belingardi Chiara	1263
TERRITORIAL CONFLICTS IN METROPOLITAN AREAS. A REGENERATION PROJECT FOR THE RESURGENCE OF A COMMUNITY Caruso Elisa, Lingua Valeria	1272
CITIES AND SELF-ORGANIZATION. A DISCUSSION STARTING FROM ROME Cellamare Carlo	1280
THE SERIOUS GAME: A LEARNING TOOL TO ENHANCE THE COMMUNITIES IN THE CONTEXT OF SUSTAINABLE CITIES Cravero Sara, Lami Isabella, Abastante Francesca	1290
RESEARCH ON URBAN COMMUNITY MICRO-REGENERATION FROM PERSPECTIVE OF MULTI-ACTOR PARTICIPATION: THE CASE OF YANGPU DISTRICT IN SHANGHAI Fang Jialin, Yang Guiqing	1302
SENSE OF OWNERSHIP: APPLICATION OF PARTICIPATORY ACTION RESEARCH APPROACH IN CULTURAL ECOSYSTEM VALUATION PROCESSES IN CONTROVERSIAL URBAN DEVELOPMENT PROJECTS Fatourehchi Shabestari Akram, Ruth van Roon Marjorie	1323
LIVING SPACE RESEARCH IN TYPICAL RESIDENTIAL AREAS OF SHANGHAI Fu Yingzi, Wang De	1337
TRANSITION REQUIRES COLLABORATIVE WORK. DISCOVERING AND DEFINING ACTIONS THAT SUPPORT SUPERMIXED CITIES Huybrechts Liesbeth, Penninx Inge, Zaman Jan, De Mulder Sophie, Giaretta Federico, Tack Bram	1349
PUBLIC PARTICIPATION IN THE COMMUNITY PLANNING IN CHINA Jia Shuqian, Cao Kang	1363



Table of Contents

ENTREPRENEURIAL NEIGHBORHOOD PLANNING BASED ON MULTI-STAKEHOLDERS CO-CREATION Jiang Chenhan, Li Chen	1365
EXPLORATIONS ON THE ACTIVATION ROUTE OF GATED COMMUNITY BOUNDARY SPACE BASED ON COMMUNITY MICRO-RENOVATION—A CASE STUDY OF SHANGHAI Kai Xin, Yang Guiqing	1377
“STOP THE CHILD MURDER”: HOW A GRASSROOTS MOVEMENT FOR CHILDREN’S SAFETY FORMED A NEW PARADIGM IN URBAN DESIGN Katsavounidou Garyfallia	1397
URBAN MICRO-RENOVATION BASED ON ACTION RESEARCH METHODOLOGY: A CASE STUDY OF YIFENGLI, HONGKOU DISTRICT, SHANGHAI Li Qing, Lin Ni	1407
“THE ROLE OF ACTIVIST RESEARCHERS IN URBAN AND REGIONAL PLANNING. ANALYSING AND COMPARING INTERNATIONAL CASE STUDIES OF SOCIAL CHANGE” Scaffidi Federica, Franco Monica Lopez, Mottee Lara, Sharkey Megan	1416
NETWORKING COLLECTIVE KNOWLEDGE TO FOSTER CHANGE. THE CASE OF SANSHEROES NETWORK (SAN SIRO, MILAN) Maranghi Elena	1434
LET’S MEET AT THE URBAN COURTYARD! THE ROLE OF THE COMMUNITY PARTICIPATION IN MICRO-SCALE URBAN REGENERATION IN KRAKOW Miskowiec Magdalena	1443
LOST OR FOUND IN TRANSLATION? TRANSLATING INNOVATIVE FORMS OF PARTICIPATION INTO FORMAL DECISION MAKING Ringholm Toril	1456
TRANSFORMATION OF GROWN CITY CENTRES Schaumann Elisabeth, Simon-Philipp Christina	1474
CO-CREATING COLLECTIVE IMAGINATION. HOW TO PRODUCE THOUGHT-IMAGES FOR URBAN REFRAMING? Schreurs Jan E.a.	1485
STREET-LEVEL DEMOCRACY? URBAN PROFESSIONALS AS PARTICIPATORY INNOVATORS IN NEIGHBOURHOOD PLANNING PROCESSES Van Aanholt Jelle, Spanjar Gideon, De Nijs Karin, Suurenbroek Frank, Majoor Stan	1497
PLANNING FOR TRANSITION AND THE MULTIPLE PERSPECTIVES ON DEMOCRATIC LEGITIMACY Wolff Almut	1514
CULTURAL STAKING: TRANSITION OF THE CORE PUBLIC SPACE OF RURAL SETTLEMENTS Yang Guiqing, Xiao Yinghe	1524

PA08 Theorizing urban change: complexity and ethics

REBUILDING THE PLANNING SYSTEM: THE TRANSITION TOWARDS PROFESSIONAL ANTAGONISM IN THE UPHILL BATTLE OF MADRID NUEVO NORTE Aparicio Angel, Arias Félix	1537
SEX (ROLES) AND THE CITY Belingardi Chiara	1548
MANAGING RELIGIOUS MEGA-EVENT IN A MUNDANE URBAN COMMUNITY: THE CASE OF MUSLIM EID AL-FITR IN HUXI MOSQUE, SHANGHAI Cai Tong, Zhang Ze	1554
THE RIGHT TO HOUSING: FROM OCCUPATION TO TRANSITORY COLLECTIVE HOUSING IN TURIN. THE CASE OF VIA LA SALETTE Cottino Valeria, Gai Veronica, Masetto Annalisa, Sacco Paola	1559
URBAN AGRICULTURE AND THE SOCIAL ROLE OF URBANISM: PLANNING AND ETHICS FOR COMMUNITIES AND TERRITORIES Marat-Mendes Teresa, Cunha Borges João	1569



Table of Contents

TOWARDS POST-HUMAN URBANISM Lapintie Kimmo	1584
COMMUNICATION THROUGH VISUALIZATION: THE PURPOSE, ROLE AND STYLE OF VISUALIZATIONS IN URBAN PLANNING Mikulcik Burcu	1595
DESIGN IN THE ANTHROPOCENE: AN OPENING TO THE OTHER Rispoli Micol	1603

PA09 Transition paths and urban futures

LANDING. THE NEED FOR A RENEWED URBAN VOCABULARY FOR HOSPITALITY (AND THE CITY) Bovo Martina	1615
UNDERSTANDING THE URBANITE-ORIENTED PERFORMANCE OF ECOSYSTEM SERVICE I N PERI-URBAN AREAS: AN ANALYTICAL FRAMEWORK Liu Shuang , Li Zhipeng, Yan Kai, Chen Chen	1625
SUSPENDED TERRITORIES AND WINDOWS OF OPPORTUNITY AFTER THE 2016 EARTHQUAKE IN CENTRAL ITALY Francucci Marco Emanuel	1637
LITHUANIA AT THE CROSSROADS: EXPERIENCE FROM THE ‘MAKING’ OF A NATIONAL SPATIAL PLAN Gauce Kristina, Ratkute-Skackauskiene Giedre, Jakutyte-Walangitang Daiva, Neubert Nikolas	1645
BREX CITY: CURRENT AND FUTURE URBANITIES OF THE UNITED KINGDOM/REPUBLIC OF IRELAND BORDER Jefferies Tom	1660
BUILDING URBAN FUTURES THROUGH AN EXPLORATORY PROJECT: HOW CAN INNOVATIVE DESIGN APPROACHES BE USED TO REGENERATE URBAN PLANNING ROUTINES? Lavoie Nicolas, Abrassart Christophe, Scherrer Franck	1670
ADAPTATION. A METAPHOR FOR THE AGE OF CLIMATE CHANGE Magnabosco Giacomo, Bertin Mattia, Fabian Lorenzo	1686
QUESTIONS OF JUSTICE IN HYDROLOGICAL EXTREMES: ADVANCED REVIEW Savelli Elisa, Rusca Maria, Di Baldassarre Giuliano	1698
THE STRATEGIC DILEMMA OF AN OPEN AND CLOSED APPROACH OF TRANSITIONAL CHANGE. COMPARING THREE TRANSITION PATHS TO SUSTAINABILITY IN THE NETHERLANDS. Van der Wouden Ries	1710

PA10 Climate proof cities and resilient societies

URBAN RESILIENCE TO DISASTERS: A POLICY CASE FROM TURKEY Adikutlu Selin, Şenol Balaban Meltem	1726
CLIMATE CHANGE IMPACTS IN THREE REGIONS OF GREECE: INTERCONNECTIONS WITH REGIONAL PUBLIC PERCEPTIONS AND PLANNING POLICIES Angra Dimitra, Sapountzaki Kalliopi	1734
URBAN GREEN SPACES IN TRANSITION: URBAN SOCIAL-ECOLOGICAL RESILIENCE IN THE REGION FRANKFURT RHINE-MAIN—A REVIEW Bilgic Pinar	1754
A STUDY ON ESTABLISHMENT OF THE FLOOD PROTECTION STANDARD - A CASE STUDY OF DALI RIVER BASIN IN TAIWAN Chang Hsueh-Sheng, Katayama Takahiro	1770
CLIMATE JUSTICE AND INTEGRATED FLOODING RISK ASSESSMENT AND MANAGEMENT: A FRAMEWORK AND CASE STUDIES IN USA AND TAIWAN Cheng Chingwen, Chiang Li-Chun, Yao George C., Chou Wen-Jyun	1780



Table of Contents

LAND POLICY TOOLS IN FLOOD RISK GOVERNANCE: THE DIFFERENTIATED EXPERIENCES ARISING FROM THE BASINS OF THE RIVERS EVROS (GREECE) AND SCHELDT (BELGIUM)	1788
Delladetsimas Pavlos Marinos, Katsigianni Xenia, Van den Broeck Pieter , Hiergens Ide	
STUDY ON COUNTERMEASURES AND SPATIAL POTENTIAL OF CHINA'S COASTAL CITIES IN RESPONSE TO HEATWAVE AND FLOOD HAZARDS	1800
Feng Ning, Li Yang	
ERRATIC CLIMATE CHANGE PLANNING: THE GOLD COAST'S ALTERNATING TRANSITION	1821
Howes Michael, Dedekorkut-Howes Aysin	
ENHANCING CITIES' RESILIENCE IN THE FACE OF MULTIPLE CHALLENGES: ON-GOING EXPERIENCES IN ITALIAN AND GREEK CITIES	1833
Limongi Giada, Salata Konstantina-Dimitra, Galderisi Adriana	
FROM THE VIEWPOINT OF ECOSYSTEM SERVICE : A STUDY OF FUNCTIONAL REGIONALIZATION IN CHIAYI CITY, TAIWAN	1854
Lin Chia-Ming, Chang Hsueh-Sheng	
RESEARCH ON THE CONSTRUCTION OF "SPONGE CAMPUS" FROM THE PERSPECTIVE OF LOW IMPACT DEVELOPMENT - A CASE STUDY OF JIANGPU CAMPUS OF NANJING TECH UNIVERSITY	1863
Ling Lin, Dai Shenzhi	
CONVENING REGIONAL CLIMATE COLLABORATIVES: A CROSS-COMPARISON OF US CASES	1879
Margerum Richard D, Adams Steve, Bruce Josh	
SENSING THE CITY: CLIMATE CHANGES AND ADVANCED TECHNOLOGIES	1889
Fusero Paolo, Massimiano Lorenzo	
COOPERATIVE BRIDGES: THE ROLE OF RISK PERCEPTION IN CONSTRUCTION OF RESILIENT COMMUNITIES	1895
Monno Valeria, Frisullo Daniela	
BEYOND BARRIERS: EXPLORING THE FUTURES OF CLIMATE INFRASTRUCTURE ON THE VENETIAN LAGOON	1907
Toro Barragan Vanessa, Chan Collyn, Haney Elizabeth, Mohyuddin Azka, Ocampo Mary Anne, Ofsevit Ari, Purdy Bella, Smith Mary Hannah, Wong Angela	
PLANNING AND ARCHITECTURE FOR CLIMATE ADAPTATION: THE EXPERIENCES OF THE "STRUCTURE-TERRITORIES" IN LOW AND HIGH DENSITY CITY	1924
Serreli Silvia, Sanna Gianfranco, Biddau Giovanni Maria, Spanedda Pier Paolo, Chemli Nesrine	
FLOOD: CAN MIAMI LEARN FROM VENEZIA (OR THE OPPOSITE)	1941
WASHER CHRISTOPHE	
A COMPARATIVE ANALYSIS OF LOCAL CLIMATE CHANGE ADAPTATION PLANS FOR NATURAL DISASTER RISK REDUCTION IN SOUTH KOREA	1952
Yoon Dong Keun, Cho Seong Yun, Choi Yeon Woo, Jang Jung Woo	
RESILIENT PLANNING OF CHINESE DELTA CITIES UNDER CLIMATE CHANGE	1968
Zhang Xinyi, Shen Cheng	

PA11 Urban metabolism and circular economy

CIRCULAR ECONOMY IN URBAN PROJECTS: A CASE STUDIES ANALYSIS OF CURRENT PRACTICES AND TOOLS	1981
Appendino Federica, Roux Charlotte, Saadé Myriam, Peupartier Bruno	
URBAN METABOLISM AND THE CIRCULAR ECONOMY , THE CAPITAL APPROACH	1996
Hunt Peter	
LOCAL MANUFACTURING SYSTEMS IN THE PIEDMONT AREA. NEW SCENARIOS FOR AN INLAND METABOLISM	2009
Leonardi Maria	
RESEARCH ON THE THEORETICAL FRAMEWORK OF INTEGRATED URBAN WATER SYSTEM PLANNING BASED ON WATER CYCLE THEORY	2025
Liu Feiping, Dai Shenzhi	



Table of Contents

THE GOVERNANCE OF THE CIRCULAR ECONOMY: INSIGHTS FROM THE VENETO REGION Church Jon Marco , Lucertini Giulia, Bellinato Giacomo, Guolo Erika, Pizzo Giovanna, Bonomin Giulia	2043
BRINGING WASTE TO THE FOREGROUND OF CITIES. TOWARDS SUSTAINABLE TRANSITION MANAGEMENT IN THE URBAN REGION OF NAPLES (ITALY) Berruti Gilda, Palestino Maria Federica	2064
DATA CENTER AND THE CITY: A POTENTIAL FOR URBAN SYNERGIES Ramos Cáceres Cristina, Sandberg Marcus, Sotoca Adolfo	2072
RETHINKING ORGANIC WASTE STREAMS AS METABOLIC DRIVERS FOR IMPROVING URBAN SUSTAINABILITY AND AGROECOLOGICAL PRACTICES Stempfle Sarah, Tornaghi Chiara, Reho Matelda	2081
PA12 Housing, gentrification and socio-spatial dynamics	
HOUSING POLICIES BEYOND NUMBERS: A COMPARATIVE STUDY IN PORTUGAL AND ITALY Di Giovanni Caterina Francesca, Antunes Gonçalo	2088
HIGH-DENSITY LIVING IN HONG KONG FROM THE PERSPECTIVE OF TEENAGERS Hao Pu	2107
REACH HOMES - A CRITICAL EXTENSION OF DWELLING Holden Samuel	2117
IDENTIFYING THE IMPACTS OF UNION STATIONS ON HOUSING PRICE IN KAOHSIUNG CITY, TAIWAN HSU Cheng-Kai, Chen Yen-Jong	2128
THE POSSIBILITIES AND LIMITATIONS OF THE STATE AND LOCAL AUTHORITIES' ACTIVITIES IN RESISTING FINANCIALISATION OF THE HOUSING SECTORS IN CENTRAL AND EASTERN EUROPEAN COUNTRIES Lis Piotr	2136
SUBURBS AND SUBSIDIZED HOUSING IN THE UNITED STATES: WHAT MAKES SOME SUBURBS MORE RECEPTIVE TO LOW-INCOME HOUSING TAX CREDIT HOUSING THAN OTHERS? McClure Kirk, Schwartz Alex	2144
GENTRIFICATION AND COMMUNITY-LED DESIGN: RENEGOTIATION AND LIMITATION OF THE RENT GAP IN THE UK Morton Tom	2168
ICD-AN ALTERNATIVE AFFORDABLE HOUSING INITIATIVE Nautiyal Nidhi	2180
HOUSES BEYOND-THE-THRESHOLD. A NEW PARADIGM OF HOUSING FOR THE THIRD MILLENNIUM Pezzoni Nausicaa	2196
HOUSING DEFICIT AND HOUSING OPPORTUNITIES: IMPLEMENTING COLLECTIVE OWNERSHIP IN THE CENTRE OF SÃO PAULO, BRAZIL. THE CASE OF FICA FUND Pioletti Maurizio, Cymbalista Renato	2209
CHICANA NEIGHBORHOOD ACTIVISM: GENDER, RACE, AND URBAN PLANNING Sandoval Gerardo, Sosa-Riddell Citlali, Sosa-Riddell Ada	2219
MASS HOUSING, RELOCATION, AND MOTHERS' AND CHILDREN'S RESIDENTIAL SATISFACTION: EVIDENCE FROM ANKARA Severcan Yucel Can	2236
"RETHINKING PARTNERSHIPS FOR AFFORDABLE HOUSING: PLANNING POLICY DESIGN NEXUS" Tsenkova Sasha	2253
DISPOSSESSION OF THE POOR THROUGH AN URBAN RENEWAL PROJECT IN NARLIDERE IZMIR, TURKEY Uysal Ayça, Arslan Avar Adile	2264



Table of Contents

THE POTENTIAL OF ALTERNATIVE HOUSING INITIATIVES TO ‘TRANSFORM’ THE HOUSING SECTOR: EXAMPLES FROM NEW YORK CITY AND BERLIN Yonder Ayse Nilufer, Brunzema Meta	2280
THE SPATIAL CHARACTERISTICS AND SUPPLY OF URBAN AFFORDABLE HOUSING - AN INTERNATIONAL COMPARATIVE STUDY Zhang Xiuning, Yang Fan	2288
PA13 Healthy City Planning: Food, Physical Activity and Social Justice	
EMERGING PLACES OF SOCIAL INNOVATION (POSI). THE CO-PRODUCTION OF SPACE BETWEEN MULTILEVEL STAKEHOLDERS: THE CASE OF PRODUCTIVE URBAN GREEN INFRASTRUCTURE Ardill Nicholas, Lemes de Oliveira Fabiano	2303
HEALTHY NEIGHBORHOODS ALONG AN URBAN TO RURAL GRADIENT Carver Rial	2320
THE IMPORTANCE OF BUILT ENVIRONMENT: CHARACTERISTICS OF THE BUILT ENVIRONMENT AND SPATIAL PATTERNING OF TYPE 2 DIABETES IN PUDONG DISTRICT, SHANGHAI Chen Sijia, Yu Yifan	2334
DOES THE CONNECTIVITY OF URBAN PUBLIC GREEN SPACE PROMOTE USE? AN EMPIRICAL STUDY OF WUHAN INNER CITY Dong Yuping, Liu Helin, Zheng Tianming	2346
STUDY OF THE INTERRELATIONSHIP BETWEEN URBAN MICRO PUBLIC SPACE MORPHOLOGY AND MICROCLIMATE Han Shanshan, Song Dexuan	2361
A RESEARCH FRAMEWORK OF URBAN SPATIAL PLANNING REGULATION BASED ON CARDIOVASCULAR HEALTH IN THE CONTEXT OF SEVERE COLD CLIMATE Li Shuyuan, Leng Hong	2373
THE CONSTRUCTION OF PEDESTRIAN NETWORK IN URBAN BLOCKS: A CASE STUDY Li Wenzhu, Sun Tongyu	2383
“THE REPOSITIONING AND URBANISATION OF HEALTH: NEW HEALTHY PLACES ALONG HOSPITAL-CITY-CONTINUUM AND ITS IMPLICATIONS FOR HEALTHY CITY PLANNING” Maierhofer Magdalena	2395
PHYSICAL ACTIVITY IN FAMILIES DAILY-LIFE OF SUBURBAN AREAS – THE CASE OF RIO DE MOURO, LISBON METROPOLITAN AREA Marques da Costa Eduarda, Franco Pedro, Marques da Costa Nuno	2406
HEALTHY CITY OF TOMORROW Nucci Lucia	2416
SHAPING CITIES FOR HEALTH TO CONTRAST THE EFFECTS OF CLIMATE CHANGE: THE CCHURE PROPOSAL D’Onofrio Rosalba , Odoguardi Ilaria, Trusiani Elio	2423
SUPPLY-DEMAND ANALYSIS OF PARK SERVICES FOR DIFFERENT AGE GROUPS IN COMMUNITY LIFE CIRCLE: A CENTRAL DISTRICT IN SHANGHAI AS A CASE Qiu Ming, Wang Min	2434
WELL-BEING, SOCIAL INTERACTION AND PHYSICAL ACTIVITY: ENCOURAGING HEALTHY BEHAVIOURS THROUGH QUALITY URBAN DESIGN Sepe Marichela	2443
URBAN FARMING IN A RAPID URBAN TRANSFORMATION: COMMUNITY INITIATIVES AND POLICY CHALLENGES IN BANDUNG AND YOGYAKARTA Setiawan Bakti, Tuntung Pandangwati Sri	2451
USING SPATIAL AGGREGATION METHOD OUTCOME TO EXPLAIN THE INFLUENCES OF BUILT ENVIRONMENT ON HEALTH PROFILE Shen Yuanyi, Zhong Mengqi, Zhang Qinglai, Bu Jiatian, Yu Yifan	2466



Table of Contents

THE SPACE-TIME RELATIONS BETWEEN PEDESTRIANS AND STREET VENDORS: A CASE STUDY IN SUIHUA, CHINA Sun Ziwen	2473
WALKABILITY IN FLANDERS (BELGIUM): DEVELOPING A TOOL TO SUPPORT HEALTHY SPATIAL PLANNING. Vervoort Peter, D'Haese Sara, Verdeyen An, Van Acker Ragnar	2486
RESEARCH OF AN INDICATORS SYSTEM FOR THE COMPACT URBAN FORM BASED ON THE HEALTHY CITY CRITERIA Wang Yimin, Fu Bin, Zhang Haoyan, Yang Shaoliang, Hu Ying, Lin Zhongjie	2497
WALKING IN SHANGHAI: STREET PLANNING AND DESIGN BASED ON WALKABILITY Xu Xinxin, Zhao Xiyao	2505
THE INFLUENCE OF COGNIZED NEIGHBORHOOD ENVIRONMENT ON CHILDREN'S HEALTH AND OUTDOOR ACTIVITIES: A CASE STUDY OF SHANGHAI Zhai Baoxin, Zhu Wei	2513
THE SIGNIFICANCE OF URBAN HISTORICAL PARKS TO PHYSICAL ACTIVITY AND PUBLIC HEALTH: A CASE STUDY IN BEIJING, CHINA Zhang Sihan, Liu Xiaoming	2522
EXPLORING ASSOCIATIONS BETWEEN STREET NETWORKS AND CYCLING FROM THE PERSPECTIVE OF SPACE SYNTAX: AN EMPIRICAL RESEARCH OF YANGPU DISTRICT OF SHANGHAI Wang Lan, Zhou Kaichen	2535
URBAN RIVER REGENERATION AS A TOOL FOR HEALTHY CITY PLANNING: THE CASE OF SHENZHEN FUTIAN RIVER Zordan Mirna, Villani Caterina, Zou Junyu, Talamini Gianni	2546
TEMPORARILY PEDESTRIANISED STREET IN HONG KONG: GOVERNMENTAL STRATEGY OF IMPLEMENTATION AND TACTICS OF APPROPRIATION Villani Caterina, Cheng Yu Hin, Zordan Mirna, Talamini Gianni	2559
 PA14 Planning for accessibility and sustainable mobilities	
COMPARING IMPLEMENTATION APPROACHES IN MOBILITY INNOVATIONS: THE ECCENTRIC PROJECT IN MADRID Aparicio Angel	2573
SUSTAINABLE AND CONNECTED INFRASTRUCTURE NETWORKS AND URBAN REGIONS – TRANSITION TOWARDS INTEGRATED PLANNING OF URBAN NODES ON TEN-T CORRIDORS Arts Jos, Van der Linden Kevin, Van der Werf Sjaak	2584
CARGO HITCHING AS A TOOL TO TRASFORM THE URBAN MOBILITY SYSTEM. INTEGRATING PASSENGERS AND GOODS TRANSPORTATION TOWARDS A MORE SUSTAINABLE, DESIDERABLE AND EFFICIENT MOBILITY Bruzzzone Francesco	2599
AN ON DEMAND TRANSPORT IN A LOW DENSITY AREA OF PORTUGAL - ALENTEJO Carvalho Carmen	2613
CYCLING TO SCHOOL: EXPLORING KEY FACTORS INFLUENCING SCHOOL-GOING CHILDREN'S MOBILITY CHOICE TO CYCLE IN TALLINN, ESTONIA Kask Õne, Tan Wendy	2621
HOME PARKING AND COMMUTING: EXPLORING NEW WAYS OF ESTIMATING THE IMPACT OF PARKING ON MOBILITY CHOICES Khazaeian Omid, De Roiste Mairead, Daglish Toby, Saglam Yigit	2636
ALTERNATIVE DISCOURSE AND NARRATIVES FOR INSTITUTIONAL CHANGE IN TRANSPORT PLANNING Muhammad Imran	2647
CLASSIFYING GOVERNANCE INITIATIVES FOR AN EFFECTIVE INTEGRATION OF CAR SHARING WITH URBAN PLANNING AND TRANSPORT SYSTEMS Paganelli Luisiana	2661



Table of Contents

THE RELOCATION OF A CIRCUS SCHOOL FROM THE PERSPECTIVE OF MOBILITY OF ITS PARTICIPANTS Penninx Inge, De Mulder Sophie	2671
USING SNAMUTS TO PLAN FOR CHANGE: THE PLACE FOR ACCESSIBILITY MODELLING IN STRATEGIC PLANNING FOR URBAN TRANSITIONS Perkovic Jana, Stone John	2687
NEIGHBOURHOOD WALKING AS TRANSPORT, OUTDOOR RECREATION AND PUBLIC HEALTH Skjeggedal Terje, Vistad Odd Inge, Thorén Kine Halvorsen	2707
STEERING DISRUPTION: A BACKCASTING APPROACH TO GOVERN THE SPATIAL IMPACTS OF THE DIFFUSION OF AUTOMATED VEHICLES IN TURIN Staricco Luca, Rappazzo Valentina, Scudellari Jacopo, Vitale Brovarone Elisabetta	2722
BEYOND THE PLAN: METHODS OF TRIGGERING LONG-TERM CHANGE IN URBAN AND REGIONAL MOBILITY Förster Agnes , Strobel Eva	2732
ANALYSING THE RELATION BETWEEN TERRITORIAL FRAGILITIES AND ACCESSIBILITY: A FOCUS ON INDIVIDUAL DIMENSION AND NEEDS Vendemmia Bruna	2748
ENHANCING URBAN-RURAL CONNECTIVITY IN NON-METROPOLITAN REGIONS: A METHODOLOGY IN SUPPORT TO DECISION-MAKING Vitale Brovarone Elisabetta, Cotella Giancarlo, Staricco Luca	2756
‘STICKY FLOWS’ AND ‘PRODUCTIVE FRICTIONS’: UNTANGLING THE MECHANISMS OF STREET URBANISM Webb Jamme Hue-Tam	2769
PARKING PATTERN AND INFLUENCING FACTORS OF DOCKLESS PUBLIC BICYCLE: CASE STUDY FROM NANSHAN SHENZHEN Xie Zhaoyang, Liu Kun, Zhou Qingfeng	2796
“IMAGINING THE FUTURE OF MY NEIGHBORHOOD”: RESIDENTS’ PERCEPTIONS OF SUSTAINABLE MOBILITY AND REGENERATION AROUND METRO STATIONS IN THE CITY OF THESSALONIKI Papagiannakis Apostolos, Yiannakou Athena, Zachariadou Panagiota	2811
HOW COULD THE INTEGRATION OF LAND USE AND TRANSPORT IN PLANNING PRACTICE CONTRIBUTE ACHIEVING SUSTAINABLE URBAN FORM? – BY A CASE STUDY ANALYSIS OF KINGS’ CROSS AND OLYMPIC LEGACY IN LONDON Yue Yufeng, Shi Haochen	2822
BICYCLE–METRO INTEGRATION FOR THE ‘LAST MILE’ IN SHANGHAI Zhang Ze, Cai Tong	2846

PA15 Planning, Law and Property Right: in the face of transitions

RIGHT TO THE CITY, HUMAN RIGHTS, AND CANADIAN CITIES Agrawal Sandeep	2853
“TRANSPPOSITION OF ADVOCACY EXPERIENCE AS TRIPLE-LOOP SOCIAL LEARNING IN ALBANIA: FIGHTING HPPTS IN PROTECTED AREAS FROM THE VJOSA RIVER BASIN TO THE CANYONS OF OSUMI” Bekteshi Arba, Misho Erinda	2857
MONITORING AND ENFORCEMENT OF SHORT-TERM RENTALS RULES. MISSION IMPOSSIBLE? Calor Inês, Magarotto Mateus	2868
COMMON VALUE: TRANSFERRING DEVELOPMENT RIGHTS IN THE FACE OF CLIMATE CHANGE CHALLENGES Dyca Besmira	2878
URBAN-LEGAL PARADIGMS SUPPORTING POST-MILLENNIAL EVICTION: THE ROLE OF THE COURTS IN DISPLACEMENT PRACTICES Jahn Verri Fernanda	2895



Table of Contents

RESEARCH ON THE IMPLEMENTATION MECHANISM OF PRIVATELY OWNED PUBLIC SPACE - PLANNING IMPLEMENTATION OF THE PUBLICLY TRANSFERRED LAND IN FUZHOU CITY 2008-2017 Jiang Hong	2909
LEGITIMACY CRISIS OF THE VILLAGE PLANNING IN CHINA AND ITS RESOLUTION Li Yanqun, Geng Hong	2916
LAND USE PLANNING, TOURISM INTENSIFICATION AND REGULATION OF SHORT TERM COMMERCIAL VISITOR ACCOMMODATION: THE CASE OF EDINBURGH McCarthy John	2932
EVALUATION OF THE LAND VALUE CAPTURE (LVC) EXPERIENCE IN THE CITY OF SÃO PAULO, BRAZIL Nobre Eduardo	2940
UNINTENDED OUTCOMES OF THE MARKETIZED HOUSING AGENDA IN SWEDEN: THE TROLLS THAT NEVER WERE INVITED WHO WE NOW HAVE TO DEAL WITH Norén Bretzer Ylva	2948
NEOLIBERAL GOVERNANCE AND ACCUMULATION BY DISPOSSESSION IN KARABURUN PENINSULA, IZMIR, TURKEY Özcan Cive Yagmur, Arslan Avar Adile	2964
MASTERS IN TRANSITION? Rezac VIT	2977
IMPLEMENTATION PROBLEMS OF SOCIAL AND TECHNICAL INFRASTRUCTURE IN TURKISH SETTLEMENTS Subasi Gulden, Sence Turk Sevkiye	2985

PA16 Tourism, public spaces and urban cultures

INTERRELATION BETWEEN INCLUSIVITY OF PUBLIC SPACES AND SOCIAL COHESION: METAMORPHOSIS OF A HISTORICAL PARK IN ANKARA, TURKEY Akkar Ercan Müge, Oya Memlük Nihan	2998
WHERE THE STREETS HAVE NAMES Barbieri Lorenzo	3005
TRANSITIONAL APPROACH FOR ENHANCING PLACE-BASED AND COLLABORATIVE POLICIES, TOWARDS AN EVOLUTIONARY DIMENSION OF COHESION POLICY Bevilacqua Carmelina, Cappellano Francesco, Ou Yapeng	3016
SPATIAL DISTRIBUTION CHARACTERISTICS OF CULTURAL TOURISM IN HISTORICAL REGIONS: A CASE OF SHAOXING ANCIENT CITY BASED ON POI DATA Cai Tong	3029
“WHAT ELSE?”: COMMUNITY PERSPECTIVES ON TOURISM-LED URBANIZATION IN SPITI, INDIA Chakravarty Surajit	3038
HOW WELL CAN PRIVATELY OWNED PUBLIC SPACES (POPS) FACILITATE SOCIAL INTERACTIONS IN TAIPEI CITY? A CASE STUDY OF THE COMMUNITY RESIDENTS’ DAILY LIFE Cheng Wen-Chi, Chao Tzu-Yuan	3061
ANALYSIS AND RESEARCH OF URBAN STREET FUNCTIONS BASED ON GIS: A CASE STUDY OF XUHUI DISTRICT, SHANGHAI, CHINA Dai Luning	3075
BY NO PLACE TO PUBLIC SPACE: A NEW RESOURCE FOR CAPUA De Biase Claudia, D’Agostino Irene	3084
THE IMPACTS OF SHARING PLATFORMS FOR TOURISM ON SPACES AND COMMUNITIES: THE POSSIBLE ROLE OF PLACEBASED REGENERATION PROCESSES Daldanise Gaia, Esposito De Vita Gabriella	3103
READING THE CITY THROUGH THE LENS OF URBAN STANDARDS. THE CASE OF PONTICELLI, EAST NAPLES Franzese Alessia	3120



Table of Contents

ANTIFRAGILE PRACTICES TO DESIGN SOCIAL DIALOGUE IN CONTEMPORARY EUROPEAN PUBLIC SPACES Galimberti Beatrice	3131
RESEARCH ON MULTI-LEVEL PUBLIC SPACE SYSTEM PLANNING STRATEGY IN HISTORICAL AND CULTURAL BLOCK BASED ON THE CONCEPT OF “COLLAGE CITY” - TAKING BEIJING MOSHIKOU HISTORICAL AND CULTURAL BLOCK AS AN EXAMPLE Gao Yu, Wang Ziyao, Zhang Yunlu	3146
URBAN PUBLIC SPACE DESIGN FROM THE PERSPECTIVE OF ENVIRONMENTAL BEHAVIOR - A CASE STUDY OF THE ROUND-CITY-PARK IN XI'AN Gu Taiwei	3157
THE ROLE OF THE LOCAL IN IMPROVING COHESION AND SPATIAL JUSTICE Su Yuqian, Guo Yuchen, Wan Lu	3164
MUSEUM OF LONDON - A CITY MUSEUM IN TRANSITION Hebbert Michael	3174
SUITABLE RENEWAL AND SPACE ORGANIZATION METHODS OF HISTORIC TOWN IN THE TRANSITION PERIOD: A CASE STUDY IN CHINA Hou Wenjun, Ge Tianyang, Yang Jianqiang	3192
THE STUDY ON SPATIAL INTERVENTIONS FOR AGING COMMUNITIES IN TOURISM-ORIENTED HISTORIC DISTRICTS FROM THE PERSPECTIVE OF SPATIAL TERRITORIALITY Hu Ying, Lin Zhongjie	3201
SUSTAINABLE TOURISM AND PUBLIC SPACE - A CASE STUDY OF SKEPPSHOLMSVIKEN 6 IN STOCKHOLM, SWEDEN Jonsson Anna-Paula, Haas Tigran	3211
SUPPRESSING URBAN CREATIVITY: DISPLACEMENT OF THE ART SPACES OUT OF THE MAINSTREAM CULTURAL SCENE OF ISTANBUL Kahya Guzin Yeliz	3226
ALTERNATIVE URBANISM IN THE HISTORIC CITY CENTRE: A TRANSNATIONAL PERSPECTIVE ON THEORY AND PRACTICE Akl Ameera, Kamvasinou Krystallia	3237
RESEARCH ON THE IMPROVEMENT OF URBAN PUBLIC SPACE VITALITY BASED ON THE CONCEPT OF SOCIAL RESOURCE SHARING--TAKING TIANLIN COMMUNITY IN SHANGHAI AS AN EXAMPLE Li Qianwen	3249
RECENT DEVELOPMENTS IN CULTURAL PLANNING AS AN APPROACH TO BUILD CREATIVE CITIES Kattimani Raghavendra	3261
RECORDING, EVALUATING AND MANAGEMENT OF TANGIBLE AND INTANGIBLE CULTURAL HERITAGE, THROUGH A DECISIONMAKING MULTI-CRITERIA ANALYSIS Linaki Eleni	3268
THE RESEARCH ON FORMATION MECHANISM OF THE RURAL RED CULTURE TOURISM INDUSTRY CLUSTER AND APPLICATION --- REFLECTIONS FROM THE COMPARATIVE ANALYSIS OF THE “REVOLUTIONARY RESORT” XIBAIPO TOWN AND “GREEN DOT” DASHI TOWN Liu Shiqi	3274
“A STUDY ON THE DEVELOPMENT TREND AND TRANSFORMATION OF SHANGHAI AS A CREATIVE CITY IN THE 21ST CENTURY” Ma Xiaojiao , Wang Weiqiang	3287
UN HABITAT'S PARTICIPATORY INITIATIVE TO PUBLIC SPACE DESIGN INVOLVING RESIDENTS, REFUGEES AND LOCAL AUTHORITIES: THE CASE OF NABAA', BOURJ HAMMOUD, LEBANON Mady Christine	3299
ALONG THE RIVER CORMOR, RE-LINKING LANDSCAPES AND PUBLIC FACILITIES IN THE REGION FRIULI VENEZIA GIULIA Cigalotto Paola, Marchigiani Elena	3312
WHO LIVES HERITAGE: INVESTIGATION ON THE IMPACT OF TOURISM FLOWS AND HERITAGE PROTECTION IN THE USE OF PUBLIC SPACE Amato Chiara, Mondelli Francesca Paola	3335



Table of Contents

PUBLIC SPACE AS PROTEST SPACE: BETWEEN VISIBILITY AND INSECURITY Neumann Ute	3346
URBAN REGENERATION AND (OVER) TOURISM IN CHINA: EXPLORING ALTERNATIVE TRACKS IN SUZHOU'S HISTORIC CENTRE Nolf Christian, Wang Yiwen, Liu Mengchuan	3362
UNBALANCED DEVELOPMENT AND PERIPHERALISATION PROCESSES: A TESTING PHASE TO MAP STUDIES Oppido Stefania, Ragozino Stefania	3381
THE BUILT ENVIRONMENT AND ACTIVE LIFE-STYLES IN OLDER ADULTS: AN ANALYSIS OF THE LOCATION OF CARE SERVICES IN PORTUGAL Santinha Gonçalo, Wolf Jan, Costa Catarina	3394
NEGOTIATED PUBLIC: INVESTIGATING THE STREETScape OF BEIJING'S OLD CITY Sun Wenwen	3400
STUDY ON THE CHARACTERISTICS AND CHANGES OF STREET CULTURAL ATTRIBUTES IN MINGCHENG DISTRICT OF XI'AN Tian Bowen, Lei Yumen	3408
EXPLORING PORT-CITY RELATIONSHIPS THROUGH EVENT-LED URBAN REGENERATION Tommaschi Enrico	3423
SPACES FOR TOURISM, VENICE PLANNING TOPOGRAPHIES Velo Luca	3435
THE IMPACT OF CULTURAL CREATIVE INDUSTRIES AND TOURISM DEVELOPMENT ON THE AUTHENTICITY OF HISTORIC DISTRICT FROM THE PERSPECTIVE OF SPATIAL PRODUCTION: A CASE STUDY OF TIANZIFANG, SHANGHAI Xu Hui	3444
CHARACTERISTICS IN THE SPACE RESHAPING OF CREATIVE CLUSTER DURING GENTRIFICATION: THE CASE OF TIANZIFANG IN SHANGHAI Yang Yi	3452
PRIVATIZATION, MARGINALIZATION AND REUSE OF WATERFRONT SPACE IN NEW TOWN - TAKING ZHANGJIANG SCIENCE CITY ZHONGSHI UNIT AS AN EXAMPLE Zhang Shuhan, Zhang Hanghua	3461
"PRELIMINARY STUDY ON THE RENEWAL STRATEGY OF THE NEW ESTATE FOR WORKERS:FROM THE PERSPECTIVE OF PLACE-MAKING" Zhang Yuwei	3481

PA 17 Urban and Regional economics of transition

WOMAN LABOR IN TRANSITION PROCESS FROM AGRICULTURE TO INDUSTRY SECTOR Çetin Reyhan	3496
IS THERE A HOUSING SHORTAGE? A POST-KEYNESIAN ECONOMICS APPROACH TO THE FINANCIALISATION OF HOUSING IN ENGLAND Grace Richard	3507
THE ROLE OF TAIWAN'S INDUSTRIAL DIVERSITY IN REGIONAL EMPLOYMENT GROWTH - A COMPARATIVE STUDY ON DIGITAL ECONOMY INDUSTRY AND CULTURAL INNOVATION INDUSTRY Huang Chung-Chun, Lin Cheng-Yi	3523
FINANCIAL OR SOCIETAL RETURNS? EXPLORING THE AMBIGUOUS ROLE OF INTERMUNICIPAL ENERGY COMPANY FLUVIUS IN THE ENERGY TRANSITION IN FLANDERS Juwet Griet, Deruytter Laura	3536
EXAMINING THE REGIONAL SPATIAL SPILLOVER EFFECT OF HOUSING PRICE IN TAIWAN - AN APPLICATION OF HOUSING PANEL DATA Chen Yen-Jong, Tuan Pi-Wen, Liang Yung-Han	3553
USING VALUE-ADDED HIERARCHY METHOD TO ANALYZE INDUSTRIAL SPATIAL PATTERN IN THE BACKGROUND OF ECONOMIC TRANSITION -- A CASE OF GUANZHONG PLAIN URBAN CLUSTER IN CHINA Wang Xueyan, Zhou Yeyuan	3565



Table of Contents

SP 18 Transition histories

PROGRESS IN THE NINETEENTH-CENTURY: PLANNING, BUILDING AND MANAGING THE MODERN URBAN INFRASTRUCTURES IN COIMBRA Calmeiro Margarida	3580
BACK TO THE PAST? TRAM CITY, MOTOPIA AND LIGHT RAIL COMMERCIALISM IN CANBERRA Fischer Karl Friedhelm, Weirick James	3590
ALBERTO SARTORIS: TRANSITIONS TO A POSSIBLE URBAN UTOPIA (1922-1989) Gavello Cinzia	3602
TWENTIETH CENTURY TECHNOCRACY - A TRANSITION ABORTED Hebbert Michael	3613
RE-POSITIONING AFTER THE FALL OF THE GERMAN WALL: WORLD TRADE CENTERS DEVELOPMENT IN CITIES OF THE FORMER GERMAN DEMOCRATIC REPUBLIC: ROSTOCK, DRESDEN AND FRANKFURT (ODER) Leconte Uta	3627
THE TRANSITION URBAN PLANNING HISTORY OF LISBON METROPOLITAN AREA Marat-Mendes Teresa, Cunha Borges João	3635
NAPLES IN TRANSITION: A MULTIDIMENSIONAL DECISIONMAKING PROCESS FOR THE NAPLES PORT AREA SUSTAINABLE DEVELOPMENT Cerreto Maria, Regalbutto Stefania	3656
WHITE REVOLUTION: PLANNING SOFT TRANSITION TO STATE SOCIALISM Zaferani Azadeh	3669

SP 19 Urban tourism, neighbourhood change and social conflicts

PLACING SLUMS IN THE GLOBALIZED TOURIST CITY: A PERFORMATIVITY AND ACTOR-NETWORK APPROACH Altamirano Eugenia	3683
WHOSE HERITAGE? CHALLENGES COMING FROM TURNING CITIES AS TOURIST PLACES Calmeiro Margarida, Gonçalves Adelino	3698

SP 22 Planning and designing green infrastructures

GREEN INFRASTRUCTURE: FROM BENEFITS TO PLANNING Alberico Simonetta, Vayr Paola	3707
THE ANIENE RIVER: A GREEN INFRASTRUCTURE TO SET UP A METROPOLITAN STRATEGY D'Ascanio Romina, Palazzo Anna Laura	3720
MILTON KEYNES: THE "FOREST CITY" Forget Malaury	3728
WHEN CONSTRAINTS BECOME ASSETS IN THE DESIGN OF BLUEGREEN INFRASTRUCTURES: AN INSIGHT FROM TWO CASES IN THE WESTERN PART OF FRANCE (LOIRE RIVER BASIN) Fournier Marie, Bonnefond Mathieu	3741
FARMING IN A CITY WITHOUT FARMLANDS. CADASTRAL MAPPING OF AGRICULTURE IN TURIN AND EARLY ASSESSMENT OF MULTIFUNCTIONALITY VIABILITY Greco Mirko	3749
LANDSCAPE AND ECOLOGICAL NETWORKS IN URBAN PLANNING: TECHNICAL STANDARDS FOR IMPLEMENTATION La Riccia Luigi	3771



Table of Contents

NATURE-BASED SOLUTIONS: NEW CHALLENGES FOR URBAN PLANNING Longato Davide, Geneletti Davide	3785
--	-------------

ECOSYSTEM SERVICE EVALUATION FOR LANDSCAPE DESIGN: THE PROJECT OF A RURAL PERI-URBAN PARK AS A NODE OF THE LOCAL GREEN INFRASTRUCTURE Allocco Marco, Murgese Davide, Quaglio Giorgio, Salizzoni Emma	3793
--	-------------

SP 23 Land development and management in post-socialist countries

ÚZEMNÍ PLÁNOVÁNÍ VS. GENERALBEBAUUNGSPLANUNG: A COMPARISON OF PLANNING CONCEPTS AND PRACTICES BETWEEN THE FORMER CZECHOSLOVAKIA AND THE GERMAN DEMOCRATIC REPUBLIC Arzmi Azmah	3802
--	-------------

TOWARDS COMPREHENSIVE AND INTEGRATED LAND MANAGEMENT PRACTICES IN ALBANIA. HOW CAN THE NEW PARADIGMATIC SHIFT IN LAND USE PLANNING AND GROWTH MANAGEMENT FOSTER A POSITIVE IMPACT ON LOCAL FINANCES AND THE TAX BASE? THE CASE OF MUNICIPALITY OF TIRANA. Dhrami Kejt, Imami Fiona	3818
--	-------------

APPLICATION AND VERIFICATION OF MUNICIPAL ADMINISTRATIVE AREAS SPATIAL ZONING MODEL IN NEW TOWN LOCATION SELECTION Zhao Yujing, Leng Hong, Yuan Qing, Sun Pingjun	3839
---	-------------

SP 24 Home sharing. short-term rentals affecting local housing markets

BUILT COMMONS: RECLAIMING THE SHARING ECONOMY Petkova Ioana	3854
---	-------------

SP 25 Dynamic change, uncertainty and planning for adaptivity

SPONTANEOUS LIVING SPACES – DWELLINGS AND SETTLEMENTS IN PEMBA (MOZAMBIQUE) A TYPO-MORPHOLOGICAL ANALYSIS IN CHANGING URBAN ENVIRONMENTS Del Bianco Corinna	3865
---	-------------

SP 26 Space, citizenship and identity: the eu-mena region

THE JERICHO GATE PROJECT: PLANNING CHALLENGES AND POLITICAL STRUGGLES AROUND A MEGAPROJECT IN THE OLDEST CITY IN THE WORLD Isayed Mohammed	3883
--	-------------

SP 27 The role of the local in improving cohesion and spatial justice

THE PLA DE BARRIS: A REMARKABLE CASE OF PLACE-SENSITIVE TERRITORIAL POLICY Peverini Marco	3898
---	-------------

THEMATIC VILLAGES AS THE EXAMPLE OF NEO-ENDOGENOUS LOCAL DEVELOPMENT IN RURAL AREAS Tobiasz-Lis Paulina	3908
---	-------------

SP 28 Friendly spaces and mobility for ageing

ELDERLY PEDESTRIANS, AGED >65 YEARS, DURING WINTERTIME - ATTITUDES TOWARDS WALKING OUTDOORS, SAFETY EQUIPMENT AND EXPERIENCES OF FALLS. A COMPARISON WITH HEALTHY ADULTS. Berggård Glenn	3921
---	-------------



Table of Contents

OLD AGE-RELATED STEREOTYPES, INCLUSION AND THE DEVELOPMENT OF ‘AGE APPROPRIATE’ NEIGHBOURHOODS Fabian Carlo	3925
FRIENDLY AND ACCESSIBLE PUBLIC SPACES: THE VENETIAN CASE Revellini Rosaria, Tatano Valeria, Condotta Massimiliano	3934
MOBI-AGE: PROMOTING URBAN MOBILITY IN AGEING POPULATIONS Ribeiro Anabela, Bastos Ana, Brandão Alves Fernando, Cruz Sara, Cunha Inês, Martins João Pedro	3946
IS ACTIVE AGEING A REALITY FOR LOCAL POLICIES? A DISCUSSION BASED ON THE PORTUGUESE CONTEXT Fernandes Alexandre, Santinha Gonçalo, Diogo Sara, Forte Teresa	3955

SP 29 Emerging spatialities and eu policy instruments: cases and perspectives

EU URBAN STRATEGIES 2014-2020: EXPLORING THE FUNCTIONAL AREA APPROACH Fioretti Carlotta, Pertoldi Martina	3966
HOW TO CONNECT FREIGHT LOGISTICS, PERSONS MOBILITY, AND SPATIAL PLANNING IN AND BETWEEN URBAN REGIONS? PERSPECTIVES FROM DIFFERENT EUROPEAN URBAN NODES ON TEN-T CORRIDORS Linszen Raymond, De Bruijn Martijn, Poppeliers Ricardo, Arts Jos	3980
THE PLA DE BARRIS: A REMARKABLE CASE OF PLACE-SENSITIVE TERRITORIAL POLICY Pezerini Marco	3992

SP 30 Facing migrants exclusionary urban policies

LANDING: HOW PRACTICES OF TEMPORARY HOSPITALITY CHALLENGE URBAN SPACES AND POLICIES Bovo Martina	4003
URBAN INCLUSION OF REFUGEES AND VULNERABLE MIGRANTS IN PORTUGAL Leiria Viegas Sílvia	4014

SP 31 Learning loops in the public realm. Enabling social learning in communities to tackle the challenges of cities in transition

TRANSPPOSITION OF ADVOCACY EXPERIENCE AS TRIPLE-LOOP SOCIAL LEARNING IN ALBANIA: FIGHTING HPPS IN PROTECTED AREAS FROM THE VJOSA RIVER BASIN TO THE CANYONS OF OSUMI Bekteshi Arba, Misho Erinda	4024
A PARTICIPATORY APPROACH TO SOCIETAL COST BENEFIT ANALYSIS (SCBA) AS A WAY TO START THE DEBATE ON TRANSFORMING RESIDENTIAL SUBDIVISIONS Custers Lieve, Devisch Oswald, Huybrechts Liesbeth	4035
EVIDENCE-BASED URBAN DEVELOPMENTAL: BEYOND THE URBAN ANECDOTES. THE NEED OF GOING BEYOND ANECDOTAL KNOWLEDGE IN URBAN PLANNING Forsemalm Joakim, Johansson Magnus	4044
CO-CREATION A WAY OF SUPPORTING DEVELOPMENT OF NEIGHBOURHOODLEVEL TRANSPORT INNOVATIONS Haufe Nadine, Großmann Astrid	4058
LEARNING THROUGH CO-CREATION: HOW TO SOLVE URBAN PROBLEMS WITH CITIZENS Keseru Imre, Pappers Jesse, Evans James, Astbury Janice, Condotta Massimiliano, Ravetz Joe, Scanagatta Chiara, Macharis Cathy	4068
PARTICIPATORY SENSING WITHIN CO-CREATION: IMPROVING THE TRANSFORMATION OF THE URBAN ENVIRONMENT. THE VERONA CASE INSIDE THE LOOPER PROJECT Condotta Massimiliano, Scanagatta Chiara, Borga Giovanni, Ruggeri Paolo, De Maria Michela, Peron Fabio	4083



SP 32 Planning and biodiversity

SOIL ECOSYSTEM SERVICES ASSESSMENT TO SUPPORT LAND USE PLANNING - APPLICATIONS IN ITALY AND A REFLECTION FOR THE FUTURE	4102
Assennato Francesca, Strollo Andrea, D'Antona Marco, De Fioravante Paolo, Cavalli Alice, Munafò Michele	
SPATIAL PLANNING IN VIEW OF NEW CHALLENGES: LAND TAKE AND SOME EVIDENCE FROM GREECE	4115
Thoidou Elisavet, Foutakis Dimitris	

SP 34 Spatial tensions: urban microgeographies for changing cities

MOTIONLESS MOVEMENT - THE BRAZILIAN URBAN CRISIS FROM THE CREATION OF THE MINISTRY OF CITIES TO THE GREAT PROTESTS OF 2013	4127
Andrés Roberto	
FEAR AND SEGREGATION: ANXIETY BEYOND THE GATED COMMUNITIES. THE COSTA RICAN CASE.	4139
Barrantes Chaves Karla	
LOFTS DISTRICTS IN MILAN. OVERLAPPING TENSIONS BETWEEN USES AND REGULATIONS. INSTRUMENTS FOR URBAN AND ARCHITECTURAL DESIGN	4147
D'Armento Stefano	
DESIGN EXPERIMENTATION IN A CONTEXT OF CULTURAL DIVISION: THE CASE OF AHMEDABAD	4159
Gualdrini Giovanni	
RESISTING GENTRIFICATION. SOCIO-SPATIAL DYNAMICS OF THREE WORK PLACES IN BRUSSELS	4172
Lenna Verena, Martin Sanchez Luis Antonio	
URBAN CRISIS STORYTELLING: IDIOMS AND FORMS OF CITY'S EQUILIBRIUM INTEGRATING THE UNCERTAINTY	4185
Pietropaoli Martina	

SP 36 Acsp-aesop special session: learning from Arnstein's ladder: from citizen participation to public engagement

ENGAGING NON-CITIZENS IN AN AGE OF UNCERTAINTY: LESSONS FROM IMMIGRANT-SERVING NONPROFITS IN LOS ANGELES COUNTY	4196
Lee C. Aujean	
CITIZEN PARTICIPATION IN TRANSITIONAL SOCIETY: AN EVOLUTION OF PARTICIPATORY PLANNING IN SERBIA	4218
Peric Ana	

SP 37 Smart cities and regions informing the energy transition

THE NOTION OF SOCIOTECHNICAL SYSTEM IN THE PLANNING PROCESS OF A SMART REGION	4234
Balest Jessica, Garegnani Giulia, Pisani Elena, Secco Laura, Vettorato Daniele	
SPATIAL-BASED SCENARIO ANALYSIS FOR THE SMART ENERGY TRANSITION	4242
D'Alonzo Valentina, Vettorato Daniele, Zambelli Pietro	
THE ENERGY JUSTICE TOOL SUITE: AN INTERDISCIPLINARY AND COMPREHENSIVE METHOD FOR ENERGY TRANSITION TERRITORIALIZATION	4250
Henriot Carine, Artis Amélie, Molines Nathalie, Seigneuret Natacha, Antaluca Eduard, Lamarque Fabien, Martin Ewa	



Table of Contents

SMART ENERGY TRANSITION: EVALUATION OF CITIES IN SOUTH KOREA	4261
Lim Yirang, Edelenbos Jurian, Gianoli Alberto	
REVIEW OF DISTRICT HEATING SYSTEMS IN ITALY FOR FUTURE ENHANCEMENT	4278
Teso Lorenzo, Dalla Mora Tiziano, Romagnoni Piercarlo, Gasparella Andrea	

SP 38 Maritime spatial planning (msp) in europe: challenges in transition

CONCEPTUAL APPROACHES OF MARITIME SPATIAL PLANNING. PRINCIPLES AND PLANNING PARAMETERS	4295
Rampavila Mary, Avgerinou – Kolonias Sophia	
MANAGEMENT PLANS OF NATURA 2000 SITES AND COASTAL LAND USE PLANS: A STUDY CONCERNING AN INTEGRATED APPROACH TO MANAGEMENT OF COASTAL ZONES IN THE SULCIS AREA (SARDINIA, ITALY)	4305
Leone Federica, Zoppi Corrado	

SP 39 Shrinking cities and sustainability

DIALECTICAL UNDERSTANDING ON URBAN SHRINKAGE AND GROWTH IN CHINA: TAKING THE OLD INDUSTRIAL BASE CITIES IN NORTHEASTERN CHINA AS AN EXAMPLE	4316
Hu Qimin, Yang Fan	
A STUDY ON CHINA'S COUNTY SPORTS CENTER PLANNING STRATEGY FROM SMART SHRINKAGE PERSPECTIVE	4329
liang Bin, Wang Yang	
DEINDUSTRIALIZATION AND URBAN SHRINKAGE. ACHIEVING URBAN SUSTAINABILITY IN FORMER INDUSTRIAL CITIES IN FRANCE: THE CASE STUDIES OF NANTES AND SAINT-OUEN	4338
Toura Varvara	
DISCUSSION ON THE FACTORS OF SUSTAINABLE URBAN GROWTH IN SHRINKING REGION: CASE STUDY OF EUCALYPTUS HILLS IN THE CITY OF SAKURA DEVELOPED BY THE PRIVATE DEVELOPER YAMAMAN	4357
Uemura Tetsuji	
TIME SERIES OF URBAN SHRINKAGE ELEMENTS IN COALEXHAUSTED CITIES: A CASE STUDY OF TWO TYPICAL CITIES IN NORTHEAST CHINA	4380
Zhang Jie, Zhao Zhiqing, Li Peilun	

SP 40 Regional design: impacts on territorial governance and planning practice

FUELLING ENERGY-TRANSITION WITH REGIONAL DESIGN-ATELIERS	4393
Kempenaar Annet, Pleijte Marcel, Van Buuren Michael	
LAND TAKE AND REGIONAL PLANNING: PROMOTING SUSTAINABLE SETTLEMENT DEVELOPMENT IN URBAN REGIONS	4400
Wahrhusen Nina	
REGIONAL STRATEGY DESIGN – ADDRESSING TRANSFORMATIONS IN MULTIPLE WAYS	4410
Wirth Timo Matti	

SP 41 The darker sides of smart city development

DIGITAL PARTICIPATORY PLANNING TOOLS HELPFUL SIDE AND SIDE EFFECTS	4430
Shahin Anas	

Suspended territories and windows of opportunity after the 2016 earthquake in Central Italy.

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Abstract: While globalization is promoting strong economic concentrations in a few urban centres, peripheral regions are negatively affected by decreasing population and increasing impoverishment, due to the lack of policies and the failure to develop and maintain rural economies. Although natural disasters accelerate these trends, the shock created by unexpected events may generate a window of opportunity, linked both to risk-reduction processes and to transition paths towards more desirable futures. This review aims to discuss tendencies in post-disaster management in the central Apennines after the 2016 earthquake, since this shrinking rural region is slowly concluding the emergency phase and starting to plan reconstruction in the medium-long term. According to the UNISDR Sendai Framework for Disaster Risk Reduction, the reconstruction phase is a critical opportunity for Building Back Better. In order to achieve this primary objective, this paper suggests new scenarios based on a multi-scalar approach and on rural-urban interactions. This is a new opportunity for the rural areas in question to re-evaluate the role of the landscape and the environment and act accordingly. The creation of clusters of highly efficient multifunctional agricultural and infrastructure projects is seen here as an opportunity to create future ecosystems and new approaches to land and landscape management.

Keywords: Earthquake, Landscape, Valley Section, Urban Bioregion.

Introduction

We live in a world where it is becoming more and more difficult to distinguish between the urban and the non-urban; in the current age of Anthropocene, all the earth is urbanized and the environment is transformed by profound human interactions. A number of scholars have offered new conceptualizations to inform on the role of humans in shaping the environment; among them, Neil Brenner and Christian Schmid have attempted to describe the ubiquity of the “urban condition” and radically to rethink the epistemic enclosure of “the urban” as a category. They put the urban age under discussion and suggest innovative interpretations for “the creation of new scales of urbanization” (Brenner, 2013), proposing a shift from an urbanization made up of agglomerations and settlement types to the planetary urban fabric of operational landscapes. Operational landscapes support human agglomerations by transforming resources and energy and describing the planetary dimension of contemporary metabolic processes (Brenner *et al.*, 2014). This analytical construct helps us to understand the complex spatial relations of cities, political regionalism and the rescaling of state intervention to intermediate levels such as the city-region.

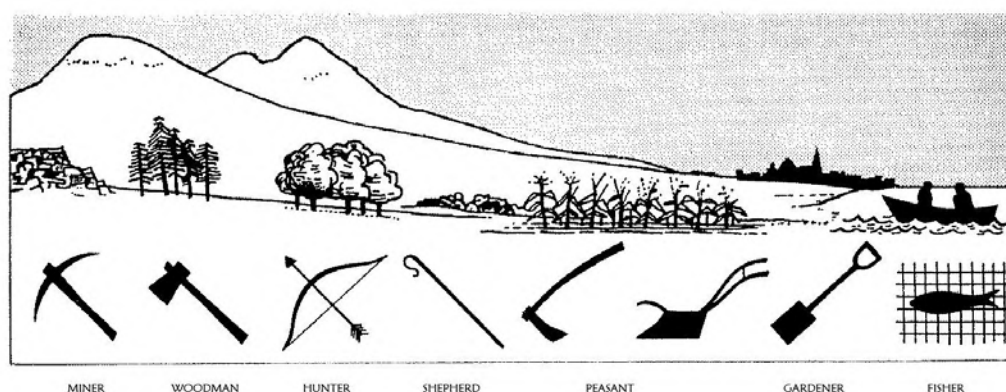


Figure 1. The Valley Section by Patrick Geddes.

Patrick Geddes was the first to stress the dependency of urban areas on the territorial configuration of society within its hinterland. In 1909 he drew The Valley Section (Figure 1), which depicts an ideal regional-urban condition. This is a topographic section, which begins in the mountains and then follows the course of a river down through a plain towards its estuary; where different forms of human occupation were related to specific geographic features.

“The valley section does not comprise a single valley, but a number of valleys. Seen from a bird’s-eye perspective, the diagram depicts a fan-shaped region of valleys focusing on the river’s estuary. Into this region, Geddes inscribed different meanings. Along the bottom of the diagram, he notes the so-called natural, i.e. best adapted, occupations represented by tools of different trades and crafts. [...] Higher up in the mountains one finds isolated huts and small villages, further down these settlements increase gradually in size until they culminate in a metropolis at the coast. This large metropolis is the one settlement which is not matched with one particular natural occupation. Ultimately, the large city was created by the united efforts of all the other natural occupations and smaller settlements. [...] Geddes does not refer to the obvious fact that a geographical hinterland might support a coastal metropolis. Instead, he expresses in The Valley Region that Enlightenment theory of social evolution that describes mankind’s development through the four stages of hunting, pastoral, and agriculture toward commercial societies. [...] It is important to note that the Valley Region was for Geddes not primarily a planning suggestion but first of all a depiction of an ideal type of city which could be found time and again throughout mankind’s evolution (Welter, 2001)”

These “occupations” and the use of natural resources through extensive agro-silvo-pastoral activities have been the driving force which has shaped landscape structures, and created functioning “cultural landscapes” (Antrop, 2005). Globalization has expanded the close sectional relationships described by Geddes “as it began to transcend the local (Masoud, 2013). Furthermore, the deep socio-economic changes that arise from industrialization, mechanization of agriculture and intensive farming have generated the abandonment of rural and mountain areas after centuries of human presence (Bracchetti *et al.*, 2012). These evolutions have dramatically transformed land use, as highlighted by the EEA report “Landscapes in transition: an account of 25 years of land cover change in Europe”; there are three emerging trends (EEA, 2017):

- expansion of urban areas (roads, rail, industrial parks, housing, commercial zones);
- decrease of agricultural land continues at an average rate of 1,000 km² per year;
- the area of European forests has increased since the 1960s.

Beside this, the Valley section remembers the morphology of Italian territory, where the Apennine Mountains divide the Adriatic coast from the Tyrrhenian: as in the Geddesian section, medium-large cities are mainly

located along coastal areas while networks of minor towns, villages and rural areas are located in hilly or mountainous zones. In recent decades, a combination of globalization, contemporary capitalism and technological change have accentuated the agglomeration and the density of many large metropolitan areas, leading to spatial and economic inequalities. Major urban systems host primary services and are a spatial concentration of innovative activities and knowledge, making them the major driving force of economic growth (Iammarino *et al.*, 2018). Major cities are becoming more important as concentration of economic activity, whereas marginal regions and centres of small and medium-sized manufacturing cities are affected by trends of demographic and economic decline. This current development path, characterized by unequal distribution of resources and opportunities, increases the vulnerability of peripheral regions, and produces differential risks (Collins, 2008). Furthermore diverse studies, in the field of *Disaster Research* and *Environmental Justice*, have observed how “hazard exposure, structural characteristics, and socioeconomic characteristics are significant predictors of structural damage” (Highfield *et al.*, 2014) and how pre-existing vulnerabilities influence the quality of the recovery process (Finch *et al.*, 2010).

This paper focuses specifically on the case of the 2016 earthquake in Central Italy to look at short- and long-term consequences on marginal territories affected by a natural disaster. The main question addressed here is the following: can catastrophes generate a window of opportunity to rethink the future of the territory? This contribution has been divided into three sections. The first offers a background of the pre-existing context; the second deals with the emergency management phases, with reconstruction after the impact of natural hazards and with tendencies in mid-term reconstruction; finally, in the last section a scenario is suggested on the regional scale.

Pre-existing context

Starting from 24 August 2016, several earthquakes struck the Central Apennine region, producing casualties and damage on structures and infrastructures. Those disasters involved a very large territory including several Regions (Abruzzo, Lazio, Marche and Umbria,) and 140 Municipalities; creating a new geography, the so called “Seismic Crater” (Figure 2). The crater area covers nearly 8,000 square kilometres (2.6% of the national territory), of which 2,000 square kilometres are located in protected areas or natural parks. Most of the municipalities in the earthquake area are located in the hilly and mountainous areas of the regions involved (more than 50% located at an altitude of over 900 meters asl). The Municipalities involved in the disaster are composed of small and very small settlements, 130 of which with fewer than 10,000 inhabitants and 56 with fewer than 1000; the total population amounts to almost 600 thousand. 25% of the inhabitants are seniors over 65, while 12% are children under 14, 2 percentage points below the national average. In 107 of the 140 Municipalities the population is decreasing, with rates of decrease up to 30%.



Figure 2. The Seismic Crater (Credits: Protezione Civile)

The economic sector is fragmented and diversified, the productive activities are almost exclusively limited to the sectors of agriculture, zootechnics and tourism, without, however, the presence of strong productive vocations and with a very low entrepreneurial density (the number of local units per sq km is equal to 5.9 against 15.6 at the average national level). There are about 25,000 farms for an average of 4 per 100 inhabitants, compared to a national density of 2.7 per 100 inhabitants. Almost all the farms are family-run (96.5%), often dedicated to small breeding and related activities such as the management of holiday farms, while the cooperatives are few and malfunctioning. Moreover, alongside the registered activities, there are many others that survive in the world of the informal economy, mostly managed by the elderly and voted to the exchange market or self-subsistence. Because of these, agricultural activity must therefore be considered an integral part of the culture and identity of the resident population, since it assumes not only economic but also social importance. While there are many shared aspects that can describe the crater as a whole, it is necessary to consider the areas affected by the earthquake as diversified from a socio-economic point of view. Indeed, it is possible to distinguish between the poorer inland areas most severely affected by depopulation dynamics and others, that before the disaster went through a phase of considerable recovery, placed at the centre of agro-food systems of excellence and dedicated to export (Olori *et al.*, 2017).

However, depopulation and cessation of traditional farming in the central Apennines is causing the disappearance of local cultural landscapes, which are the result of the millenarian integration between land use and natural processes.

Emergency management and reconstruction

The Presidency of the Council of Ministers, in reaction to the seismic events, provided a government structure in which the emergency and reconstruction activities were divided. On one hand, the emergency management phase was assigned to the Italian Civil Protection Department, through the establishment of the operational centre DICOMAC (Direzione di Comando e Controllo); on the other, the recovery and reconstruction management phase was delegated to an Extraordinary Government Commissioner. The Italian Civil Protection Department administrated the aspects connected with immediate support to the population and to the productive activities, in particular the recognition of damage to buildings and infrastructures, the management of

emergency housing solutions, support for zootechnics activities and collection and transport of rubble. A useful tool for supporting decision-making processes, rescue and aid delivery activities was provided by the European Space Agency, through the Copernicus Emergency Management Service activated for Earthquake in Central Italy. Real-time satellite images were used to make immediate broad assessments of damage, to calculate requirements for temporary accommodation, and, in general, to take stock of an evolving situation over large areas (Figure 3).

While the DICOMAC continued to manage the emergency phase, the Extraordinary Government Commissioner started the reconstruction phase. According to the Decree Law 189/2016 the Commissioner had the following tasks: to work in agreement with the Civil Protection, to coordinate the reconstruction and restoration of buildings and infrastructures, to support economic activities, and to monitor and supervise the funds, assisting the local authorities in planning the interventions. The Decree Law 189/2016 described a strongly centralized governance structure, in which the Extraordinary Commissioner acted as the pivot of the system and connected the Presidency of the Council of Ministers, the individual Ministries involved, and the Presidents of the four Regions who assumed the role of Vice Commissioners.

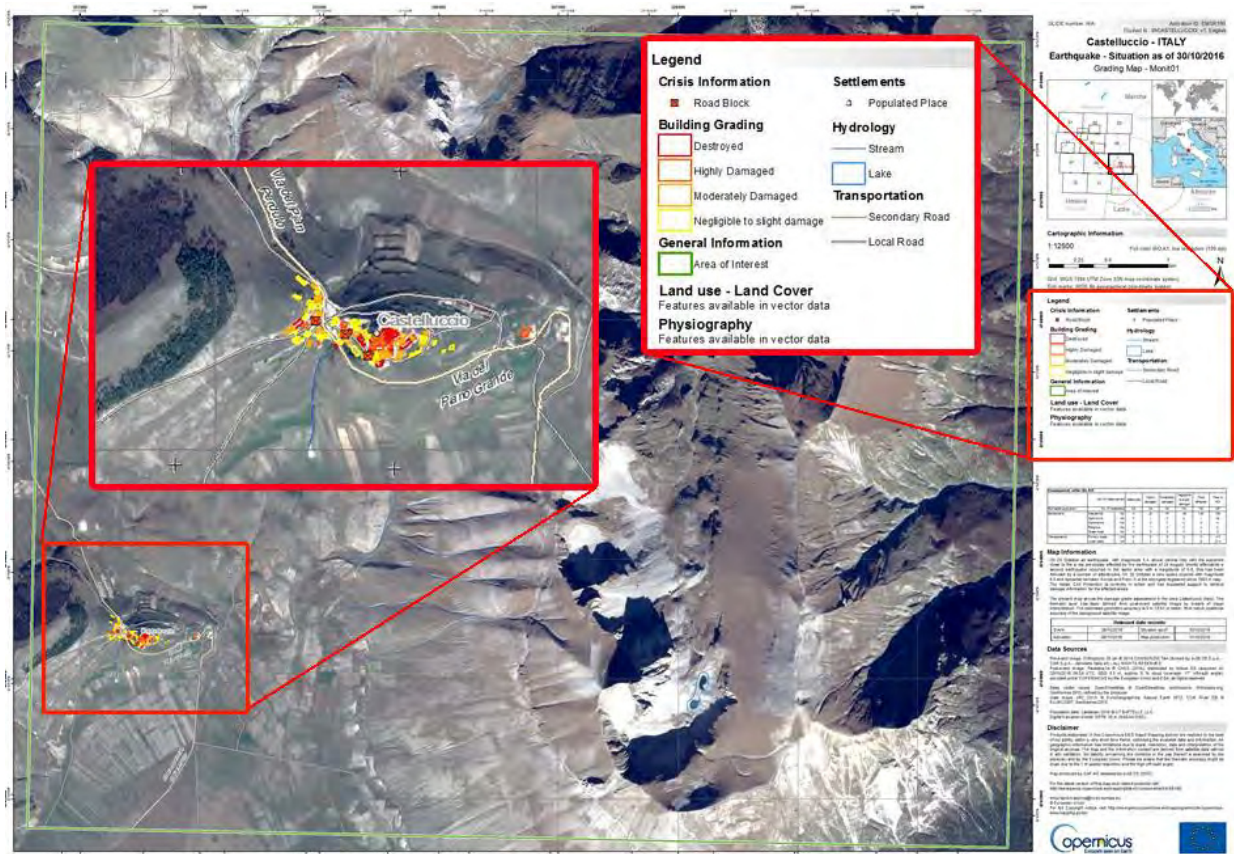


Figure 3. Copernicus EMS Grading Map of Castelluccio di Norcia, Italy (Credits: Copernicus Emergency Management Service).

This structure was organized on several institutional levels, where each institution was accountable for the matters of its competence, and, in some cases, even overlapping in order to define the strategic elements of the reconstruction. Furthermore, the reconstruction plan designed with the D.L. 189 was based on some fundamental elements, which established in particular:

- special reconstruction offices, set up by each Region together with the local administrations, with the task of managing the reconstruction;

- a reconstruction fund, established by the Ministry of the Economy and Finance, whose resources were allocated to the special accounting of the Extraordinary Commissioner;
- a central commissioner structure to assist the activities of the special offices for reconstruction and to implement the decisions of the Extraordinary Commissioner. (Bertelli *et al.*, 2017).

Today, two and a half years after the first earthquake, three different Commissioners have followed one another in close succession and the general situation is incredibly precarious, while reconstruction and recovery proceed at a slow pace. There is still work to be done to clear away all the rubble: in November 2018 only 50% of the public debris produced by the earthquake's destruction had been removed. In March 2019 some prefabricated post-disaster transitional dwellings were still lacking. Another issue concerning these transitional settlements relates to the question of how long people must stay there: experience from past disasters has shown how this temporality will last for at least ten years. Such delays are the result of a whole host of factors: on the one hand the considerable scale of the disaster and the different earthquakes that have taken place over time; on the other significant problems with the Italian Government's strategy for managing the aftermath of the disaster. This is because of a fatalistic attitude to disasters and "a pervasive lack of planning and a corresponding inability to set strategic priorities for resilience" (Alexander, 2013).

Furthermore, as pointed out in the investigation led by the independent research collective Emidio di Treviri, special post-earthquake legislation is characterized by a lack of social participation, indeed the involvement of the earthquake affected populations in crucial choices for their territory is at present completely absent (Barra *et al.* 2017). Furthermore, the current political approach on the national, regional and local scales indicates that no proper longer-term strategy is being developed.

Future scenario

Although the disaster has accelerated pre-existing conditions of marginalisation, post-earthquake reconstruction and related funds offer uncommon resources that may generate a window of opportunity, linked both to risk-reduction processes and to the possibility "to intervene on the wider and longer-term socio-spatial trajectory of a certain territory" (Coppola, 2016). Natural disasters serve as focusing events that generate policy windows (Solecki *et al.*, 1994) "they dramatize interdependencies between different scales, spatialities and temporalities creating a sort of augmented territorial condition" (Coppola, 2016). Evidence from past disasters indicates that policy windows are transitory opportunities: they may close quickly and do not ensure the adoption of transition paths towards more desirable futures. Before this window closes, there is a strong need to design participative settings aimed at involving a variety of local actors to outline transformative patterns of development, cooperation and innovation, in the search for a transition from current states of socio-economic decline to states of affairs considered more socially desirable.

Looking at the seismic crater through the lens of regional approaches offers valuable potentials for imagining new spatial outcomes related to the concept of operational landscapes "for the creation of selective regional closures of the regional economy and productive structure in relation to the global system" (Fanfani, 2018). Moreover "integrated multiscalar design and planning can address the consequences of development at the regional level while creating a context for designing on progressively smaller scales. [...] If regional design is the action that brings intelligence from the overall vision to the everyday detail, it also integrates disciplines such as economics, ecology and social policy as well as design and planning (Wall, 2008)." In this perspective, the re-appropriation of the Valley Section becomes relevant, as an exploration tool and as "a fundamental relational diagram between project and geography"; and also as a "design and planning tool, to recalibrate our understanding of regionalism and employ it as a substantial device in developing a contemporary attitude towards urbanism" (Masoud, 2013). The true potential of such investigation relates to the development of a contemporary conception of environmental and systemic thinking, which is leading to the design of alternative

relationships between places, communities and nature. Another important condition to develop new scenarios is the "new cooperation between urban and rural areas, conceived as basic tool of territorial innovation and local development" (Fanfani, 2018) linked with the dimension of the urban bioregion. This refers to geophysically and ecologically coherent area of territory (Atkinson, 1992) "defined by its natural physical characteristics, not by man-made political boundaries" (Tonn *et al.*, 2006) and characterized by a polycentric settlement model. An urban bioregional approach aims to achieve a balanced co-evolution between human settlements and the surrounding environment (Magnaghi, 2014), through the introduction of place-based development concepts "enabling especially local production/consumer clusters such as regional food-sheds or local food systems, local energy systems, districts of fair economics" (Fanfani, 2018). Moreover, the reconnection of urban and rural ecosystems, reinvented in an age of social innovation and networks, offers space for cooperation between alternative food networks, food businesses, education, research and policy-making. These may contribute to the "design of social infrastructures that enable the emergence of new enterprises, and the deployment of technology" (Thackara, 2019).

Indicators of the pre-earthquake statistics show that the agricultural system of the crater area, which now requires to be strengthened, has a development potential that is still largely unexpressed. These indications suggest a path of qualitative enhancement of local production, the reinforcement of the innovation processes of small companies also through the modernization of production structures and cooperation between producers in a supply chain logic (Arzeni *et al.*, 2017). To this end, it is necessary to invest in processes of institutional and social innovation to create alternative systems of food production, based on a framework of small-scale agro-ecological production, that are environmentally sustainable, economically viable, and socially fair. Furthermore, there is need for an urgent change in attitudes in the policy of recovery, in order to reverse the trends outlined herein. A more locally based, socially inclusive public governance is required, capable of dealing with multidisciplinary matters and delivering original and shared visions of development.

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