Carmine Gambardella

XI Forum Internazionale di Studi



focus on CONSERVATION REGENERATION INNOVATION Fabbrica della Conoscenza numero 39 Collana fondata e diretta da Carmine Gambardella

Fabbrica della Conoscenza Collana fondata e diretta da Carmine Gambardella

Scientific Committee:

Federico Casalegno

Professor,

Massachusetts Institute of Technology, Boston, USA.

Massimo Giovannini

Professor and Rector, University "Mediterranea" of Reggio Calabria, Italy.

Diana M. Greenlee

Professor, University of Monroe Louisiana, USA.

Bernard Haumont

Professor,

Ecole Nationale Supérieure d'Architecture Paris Val de Seine, France.

James Kushner

Fullbright Visiting Professor Southwestern Law School, Los Angeles.

Maria Grazia Quieti

Ph.D., Executive Director, The U.S.- Italy Fulbright Commission.

Elena Shlienkova

Professor and Director of the Design Department, Togliatti State University, Russia.

Editorial Committee:

Pasquale Argenziano Alessandra Avella Antonio Calderone Fabio Converti Nicola Pisacane Manuela Piscitelli

HERITAGE ARCHITECTURE LANDESIGN

focus on CONSERVATION REGENERATION INNOVATION Le vie dei Mercanti $_$ XI Forum Internazionale di Studi

Carmine GAMBARDELLA



La scuola di Pitagora editrice

Carmine Gambardella (a cura di)
HERITAGE ARCHITECTURE LANDESIGN
focus on CONSERVATION REGENERATION INNOVATION
Le vie dei Mercanti
XI Forum Internazionale di Studi

editing:

Caterina Cristina Fiorentino Manuela Piscitelli

© copyright 2013 **La scuola di Pitagora editrice** Via Monte di Dio, 54 80132 Napoli Telefono e Fax +39 081 7646814

È assolutamente vietata la riproduzione totale o parziale di questa pubblicazione, così come la sua trasmissione sotto qualsiasi forma e con qualunque mezzo, anche attraverso fotocopie, senza l'autorizzazione scritta dell'editore.

www.scuoladipitagora.it info@scuoladipitagora.it

ISBN 978-88-6542-290-8

Heritage Architecture Landesign focus on Conservation Regeneration Innovation Le vie dei Mercanti XI Forum Internazionale di Studi

Aversa | Capri June 13th- 15th, 2013

Conference topics:

Heritage

Tangible and intangible dimensions, Heritage management, History, Culture, Collective identity, Memory, Archaeology, Cultural landscapes.

Architecture

Survey, Imaging, 3D modeling, Techniques for analysis, diagnostics and monitoring, Preservation, Restoration, Conservation, Architecture Design, Technologies, Building materials.

LanDesign

Landscape design, Sustainable design, Environmental design, Eco design, Low-cost design, Design for all.

Le vie dei Mercanti _ XI Forum Internazionale di Studi

Aversa | Capri June 13th- 15th, 2013

General Chair:

Carmine Gambardella

Professor and Director, Department of Architecture and Industrial Design "Luigi Vanvitelli", Second University of Naples – President of BENECON SCaRL

International Scientific Committee:

Ahmed Abu Al Haija

Professor and Head, Environmental Design, Urban and Architectural Heritage, Faculty of Engineering, Philadelphia University, Jordan

Pilar Garcia Almirall

Professor, UPC Ecole Tecnica Superior d'Arquitectura, Barcelona, Spain

Harun Batirbaygil

Professor and Head, Department of Architectural, Okan University, Istanbul, Turkey

Federico Casalegno

Professor, Massachusetts Institute of Technology, Boston, USA

Joaquín Díaz

Dean and Professor, Technische Hochschule Mittelhessen-University of Applied Sciences, Department of Architecture and Civil Engineering

Carmine Gambardella

Professor and Director, Department of Architecture and Industrial Design "Luigi Vanvitelli", Second University of Naples - President of BENECON SCaRL

Massimo Giovannini

Professor, University "Mediterranea" of Reggio Calabria, Italy

Xavier Greffe

Professor and Director, Centre d'Economie de la Sorbonne Paris, France

Manuel Roberto Guido

Director Enhancement of Cultural Heritage, Planning and Budget Department, Italian Ministry of Heritage and Culture

Bernard Haumont

Professor, Ecole Nationale Supérieure d'Architecture, Paris Val de Seine, France

Mathias Kondolf

Professor and Chair, Landscape Architecture and Environmental Planning, University California Berkeley, USA

David Listokin

Professor, Edward J. Bloustein School of Planning and Public Policy, Rutgers University, USA

Maria Dolores Muñoz

Professor, UNECO Chair, EULA Environmental Centre, University of Conception, Chile

Jorge Peña Díaz

Professor, Decano de la Facultad de Arquitectura, Instituto Superior Politécnico José Antonio Echeverría, Cub**a**

Giovanni Puglisi

Professor, Rector IULM e President Italian National Commission for UNESCO

Maria Grazia Quieti

Ph.D., Executive Director, The U.S.- Italy Fulbright Commission

Michelangelo Russo

Professor, University Federico II di Napoli, Italy

Lucio Alberto Savoia

Ambassador and General Secretary, Italian National Commission for UNESCO

Flena Shlienkova

Professor, Director of the Project Support Center of Regional and International Programs of the Russian Presidential Academy of National Economy and Public Administration, Russia

Eusebio Leal Spengler

Professor, honorary president of the Cuban ICOMOS Committee, Cuba.

Isabel Tort

Professor, Director of the Forum UNESCO University and Heritage (FUUH) Programme, Universitat Politècnica de València UPV, Spain.

Andrey V. Vasilyev

Professor and Director, Institute of Chemistry and Environmental Engineering, Togliatti State University, Russia

Organizing and Scientific Local Committee:

Department of Architecture and Industrial Design "Luigi Vanvitelli", Second University of Naples

Manuela Piscitelli

Responsible for the organizing process of the scientific proposal

Alessandra Cirafici, Caterina Cristina Fiorentino Graphics and Communication

Luciana Mainolfi

Administrative responsible for the management and the financial control

Alessandro Ciambrone

Relationships with the International Scientific Committee

Giuseppe Klain

Web master

Pasquale Argenziano, Alessandra Avella, Fabio Converti, Maria Cristina Miglionico, Nicola Pisacane, Gabriella Abate, Antonino Calderone, Gaia Giordano.

Peer review

Scholars has been invited to submit researches on theoretical and methodological aspects related to Heritage, Architecture and LanDesign, and show real applications and experiences carried out on this themes.

Based on blind peer review, abstracts has been accepted, conditionally accepted, or rejected. Authors of accepted and conditionally accepted papers has been invited to submit full papers. These has been again peer-reviewed and selected for the oral session and publication, or only for the publication in the conference proceedings.

Conference report

200 abstracts received from:

Australia, Austria, Brazil, Canada, Chile, China, Cyprus, Denmark, France, Germany, Greece, India, Israel, Italy, Jamaica, Jordan, Kingdom of Bahrain, Kosovo, Lebanon, Malaysia, Malta, Morocco, Mexico, New Zealand, Poland, Portugal, Russia, Serbia, Slovak Republic, Spain, Tunisia, Turkey, Ukraine, United Kingdom, U.S.A.

About 300 authors involved.

157 papers published.

Preface

The XI edition of the International Forum Le Vie dei Mercanti entitled Heritage, Architecture, LanDesign aims to promote an international debate on local experiences relating to the issues of conservation, regeneration and innovation in heritage, architecture, landscape and design.

In recent years, technological developments have revolutionized not only the forms that surround us but also our daily routines. However, this new global language often does not take into consideration the identity and vocation of the area, which require appropriate courses of action in relation to both the individual context and local traditions.

The historical memory of the characteristics of the identity, local materials, building traditions as well as the tangible and intangible cultural heritage is a repertoire of signs to draw from in order to operate within each historical context and consequently enhance its uniqueness.

The recovery of the authentic vocations of a place does not mean inaction, but rather regeneration through measures to enhance an area by increasing its natural strengths, transforming the weaknesses into opportunities for future development based on innovation.

The international comparison can be an opportunity to share good examples of conservation, regeneration and innovation related to the tangible and intangible heritage in its broadest sense; architecture intended as the identity of the places that shapes the landscape, from traditional to global forms; design at all scales, from the object to the territory, in a sustainable way to start a process of regeneration through a new relationship between man and the environment.

The conference is open to multidisciplinary experiences of one or more of the proposed themes. Scholars are invited to submit research on theoretical and methodological aspects as well as present experiences and practical applications carried out on these issues.

Carmine Gambardella

Pag. 24 ID 000

Architecture, heritage, landscape, in time of crisis

Carmine GAMBARDELLA

Table of contents _ HERITAGE

P. 35 ID 001

Noli Me Tangere – On Touch Monika BOGDANOWSKA

P. 43 ID 002

A New Cultural Landscape: The Historic District of Zhong Shan

Livio SACCHI

P. 52 ID 004

Disclosure of Historic and Cultural Potential and Proposal for Restoration of the Castels of the Western Ukraine

Jawdat GOUSSOUS, Galina TOTOVITSKAYA

P. 59 ID 005

Documenting the Architecture of Modernism in European Seaside Centers. Case Study in Italy and Bulgaria

Manuela PISCITELLI, Milena KICHEKOVA

P. 69 ID 014

Brazilian Parties: The Transformation of Obligation into Fun

Maria Cristina CAPONERO

P. 77 ID 015

Pursuit of Style: the Importance of Historical, Archivistic and Treatise Heritage

Cristiana BEDONI, Daniele CALISI

P. 87 ID 016

Heritage Management in Sydney, Australia – a Case Study on The Replacement of Degraded Sandstone on Heritage-Listed Buildings

Elanor PITT, Emma CULLEN, Gwénaëlle PROUST

P. 97 ID 023

The "Neustadt" of Strasbourg: Perception and reception of a late 19th century urban extension project at the interface of France and Germany

Johannes DAHM, Sophie EBERHARDT

P. 107 ID 028

From the Concept to an Environmental Design of Gaudì: The Batllò House

Leonardo BOGANINI, Lidia PADRICELLI

P. 114 ID 030

The Reconversion of Italian Fortress Through the Use of Modern Tools

Alice PARRI, Laura BENASSI, Denise LA MONICA, Eliana SIOTTO, Marco CALLIERI Paolo PINGI, Roberto SCOPIGNO

P. 123 ID 032

Investigation and Knowledge for promoting cultural heritage

Antonella DI LUGGO, Riccardo FLORIO, Massimiliano CAMPI

P. 132 ID 034

Beauty and Sustainability - Survey an Liberty Heritage an Varese and Ticino Area Anna ANZANI, Angela BAILA, Claudia CARAMEL, Margherita GUARISCO

P. 142 ID 036

Heritage and Sustainable Development: The Middle East and Doha

Francesca Romana MORETTI

P. 150 ID 038

Industrial heritage, the Fabra I Coats engine room in Barcelona: a terrestrial laser scanning pointcloud classification

Juan Manuel CORSO, Alejandro MARAMBIO, Pilar GARCIA-ALMIRALL

P. 160 ID 039

Southeast Asia's Built Heritage at the Cross-Roads -

How to Reconcile Tradition and Modernity within Competing Constraints

Ahmad Najib ARIFFIN

P. 170 ID 040

Archaeology and Architectural Design. Project for Alexandria in Aria-Herat (Afghanistan) **Luisa FERRO**

P. 181 ID 047

A Settlement of The Knights of Malta in Campania: the Castrum of Cicciano (Na)

Maria Archetta RUSSO

P. 191 ID 048

The valorisation of Italian rural historical buildings and territory

Valentina CINIERI, Emanuele ZAMPERINI

P. 201 ID 053

Peripheral Porosity: Cultural Landscapes of Indigenous Heritage Conservation

Hannah Hunt MOELLER

P. 208 ID 054

The End of Urban Exploitation and the Rise of the Urban Imaginary:

Histories and Futures of Detroit, Michigan

William MARTIN

P. 218 ID 055

The San Antonio River: a Rich and Complex Cultural Landscape in Texas

Angela LOMBARDI, Sedef DOGANER

P. 227 ID 056

Managing Heritage Sites while Accelerating Cultural heritage. Tourism in Antalya, Turkey **Sedef DOGANER, Angela LOMBARDI, Ege Uluca TUMER**

P. 236 ID 057

The Historic Center of Lima, Peru: a Gis Database as a Tool for Safeguarding and Developing Angela LOMBARDI, Patrizia MONTUORI

P. 245 ID 061

Memories in stone

Ornella ZERLENGA

P. 256 ID 063

Eminent De[con]struction: Conservation Acts of Modern Vandals within Built Forms,

Landscapes and Cities

Catharine PYENSON

P. 262 ID 066

Hidden Cultural Landscapes: Survey and Digital Enhancement of The Catacombs of San Giovanni in Syracuse

Elisa BONACINI, Graziana D'AGOSTINO, Mariateresa GALIZIA, Cettina SANTAGATI, Mariarita SGARLATA

P. 272 ID 068

Integrated Approach to Museology: Proposal for a Route Linking Archaeological sites in Çanakkale, Turkey

Harun BATIRBAYGIL, Susana ALVES, Bahar BASER, Ayse Özbil TORUN

P. 278 ID 069

Comparison of 3D Documentation Methods in Sculptural Figures with Poor Radiometric Information: Shape from Stereo vs Shape from Silhouette

Antonio ÁLVARO TORDESILLAS, Jorge GARCÍA FERNÁNDEZ, Salvatore BARBA

P. 287 ID 076

Ancient Ruins of the Future

Adriana ROSSI

P. 297 ID 079

The Monumental Unit of Massenzio: environmental requalification project and development of the archaeological emergencies

Maria Grazia CIANCI

P. 308 ID 081

The Matter of Architecture: the Medieval Walls of Benevento

Luigi GUERRIERO, Luigi D'ORTA, Antonietta MANCO, Francesco MIRAGLIA

P. 316 ID 088

Dwelling on the Past - Built Heritage and Urban Development Policies.

The Case of Vienna (Austria)

Barbara RIEF VERNAY

P. 325 ID 092

Turin for the French

Nadia FABRIS

P. 330 ID 095

Building a new landscape. Land reclamations and new rural towns during the fascist regime along the Coast South of Salerno

Antonella MARCIANO

P. 341 ID 103

Sensory Experience in Architectural Memory: Transformation of Industrial Buildings Mads Harder DANIELSEN

P. 349 ID 106

Characters of The Rural Heritage in the Var

Laura BLOTTO

P. 357 ID 109

Permanences and morphologies of historic landscapes. The hill of the Vomero in Naples **Maria MARTONE**

P. 367 ID 111

A Landscape in Transition or a Landscape in Danger? The Olive Groves' Cultural Landscape of Corfu **Spyridoula ARATHYMOU**

P. 372 ID 112

Landscape as Cultural Heritage – the Several Dimensions of Heritage Management – Aljezur and the Vicentina Coast Portugal

Maria João PEREIRA NETO, Mário S. Ming KONG, Andreia GARCIA, Pedro JANUÁRIO

P. 379 ID 116

Becoming the Olympics: the Sound Proof Series of Exhibitions (2008-2012)

Monica BIAGIOLI

P. 389 ID 117

The rural landscape in Campania. The role of the graphic representation in the documentation and valorization process

Stefano CHIARENZA

P. 399 ID 127

Milan-Turin: a bundle of infrastructures to access to a network of places, between cultural heritage and landscape

Andrea ROLANDO, Alessandro SCANDIFFIO

P. 407 ID 128

Water and its forms. Natural elements semantic icons in Turin

Maria Paola MARABOTTO

P. 414 ID 129

Historic Gardens as a Part of the National Cultural Heritage – a short view on a garden history in Bratislava, the Slovak Republic

Tamara REHÁCKOVÁ

P. 424 ID 137

The origin of the conservation of the twentieth century architecture in France: the action of Andre Malraux in favor of Le Corbusier's work

Antonella VERSACI, Alessio CARDACI

P. 434 ID 142

Understanding Location Preferences of Entrepreneurs and Innovators in Historic Maritime Cities Laurie ZAPALAC

P. 444 ID 144

"The Fragile Ecosystem of Memory": Literary House Museums in New Zealand Elizabeth AITKEN ROSE

P. 454 ID 145

Representation and Continuity. The regeneration of the area, the city and the architecture **Paolo GIORDANO**

P. 464 ID 147

The Conservation of Jerusalem's City Walls

Avi MASHIAH

P. 473 ID 155

Two Different Approaches of Urban Renewals of Historical Districts: the Comparison of Bordeaux, France and Cincinnati, United States

Ana Gisele OZAKI

P. 483 ID 160

Palazzo Marziani in Furnari Project of Restoration and Reuse

Alessandra MANIACI, Caterina GULLO

P. 491 ID 161

Greater Amman: Metropolitain Growth and Scenarios for Sustainable Urban Development Ahmed ABU AL HAIJA, Rob POTTER

P. 502 ID 164

The Challenge of Urban Sustainability in Seaside Cities Between Unlimited Growth and Serene Degrowth

Massimo CLEMENTE, Daniele DEMARCO, Eleonora GIOVENE DI GIRASOLE

P. 510 ID 171

Port Cities, Peoples and Cultures: Waterfront Regeneration and "Glocal" Identity Gabriella ESPOSITO DE VITA, Stefania OPPIDO, Stefania RAGOZINO

P. 522 ID 176

Bioclimatic Structures Design for the Archaeological Park of Nola

Antonella VIOLANO, Lucia MELCHIORRE

P. 529 ID 177

The Missing "Fan Vineyard" in San Leucio (Caserta, Italy). An "Agri+Cultural" Heritage" of "Two Sicilies" Borbone House

Andrea BUONDONNO, Eleonora GRILLI, Rosaria PARENTE, Nicola PISACANE Pierclaudio ODIERNA, Gian Franco CAPRA, Sergio VACCA

P. 538 ID 181

The "Capri style", a Debate Over a Century. Architecture, Environment and Preservation in the Island of the Sirens Since the Convention on the Landscape of 1922

Elena MANZO

P. 547 ID 182

The Management Plan of Unesco Sites: from the Conceptual Model to the Methodology Application through Gis

Lina ABATEGIOVANNI

P. 557 ID 190

Promotion of cultural heritage as an engine for territorial development in France Alessandro CIAMBRONE

Table of contents ARCHITECTURE

P. 568 ID 006

"Santa Sapienza allo studio" Chapel in Rome: a representation of its domed ceiling. Borromini master of "Trompe-I'œil"

Antonio MOLLICONE

P. 578 ID 007

Survey of the architectural and historical characters of the Pavone "ricetto" for the retrieval of its own environmental identity

Pia DAVICO

P. 588 ID 009

The Conservation Project of the Roman Theater of Málaga

Esteban José RIVAS LÓPEZ, María Victoria, LÓPEZ GALLARDO

P. 598 ID 013

Designing Future Heritage: Aldo Rossi's *Citta Analoga* as Incomplete Algorithm of Individual Expression within Collective Imagination

Jean-Pierre CHUPIN

P. 606 ID 018

Kultur-Fabrik-Perugia

Paolo BELARDI, Valeria MENCHETELLI, Luca MARTINI

P. 614 ID 019

Interpreting the Transformation of the Identity of Asmalimescit

Avsar KARABABA

P. 623 ID 020

Avalanche hazard on mountain chalets: prevention and modelling

Bernardino CHIAIA, Barbara FRIGO, Valerio DE BIAGI

P. 632 ID 027

The gap between the developed and the experience in the architectural space **Najjar ONS**

P. 640 ID 033

Love As

Iosif DAKORONIAS-MARINA, Michalis STOUPAKIS

P. 650 ID 045

Urban strategies to regenerate the moroccan public space in the urban tradictioanl tissues Fatimzahra BENHAMZA

P. 659 ID 046

Spomenik in Flux Erika LINDSAY

P. 666 ID 050

Assessment of the Bioclimatic Elements of Vernacular Architecture. The Historic Centre of Nicosia, Cyprus

Maria PHILOKYPROU, Aimilios MICHAEL, Stavroula THRAVALOU

P. 676 ID 051

Structural Assessment of a Roman Aqueduct 'Pont Del Diable' in Tarragona by F.E.M. Jaume FABREGAT, Anna ROYO, Agustí COSTA, Gerard FORTUNY, Josep LLUÍS

P. 685 ID 064

Plurisensory Approach as a New Technological Way for Building Design Luigi MOLLO, Rosa AGLIATA, Carlo GIUDICIANNI

P. 691 ID 065

Monitoring and storage: integrated survey of the old towns "crater" **Caterina PALESTINI**

P. 697 ID 072

Relocating the Past in Amman: Iraqi Architecture and Identity after Displacement **Sonia AL-NAJJAR**

P. 708 ID 077

A virtual garden: the scenographic Jappelli's engravings for "Palazzo della Ragione" in Padua Andrea GIORDANO, Cosimo MONTELEONE, Isabella FRISO, Marco PEDRON

P. 719 ID 080

Semantic 3D Models: Surveying and Drawing the Virtual City Maurizio UNALI

P. 724 ID 082

The functional node of traditional house in Kosovo Flamur DOLI, Jetik DOLI

P. 734 ID 083

Modular low-cost scenery to mounting some events: the example of the church of San Giuseppe delle Scalze

Alessandra PAGLIANO

P. 744 ID 084

Practice of reuse and recycle in retrofit interventions

Raffaela DE MARTINO, Rossella FRANCHINO, Caterina FRETTOLOSO

P. 750 ID 089

Drawing for the analysis of architectural language: the case of Giuseppe Palazzotto Eugenio MAGNANO DI SAN LIO, Mariateresa GALIZIA, Cettina SANTAGATI

P. 758 ID 094

Air Movement: from Tradition Towards Innovative Experiences

Fosca TORTORELLI, Francesca MUZZILLO

P. 764 ID 096

The everyday and the monument, a case study of two UNESCO World Heritage sites: the wooden churches of Vilupulli and Ichuac

Constantino MAWROMATIS

P. 774 ID 097

The quality of bridge design in the general design process

Michele CULATTI

P. 780 ID 098

Historical centers in seismic area: methodology for conservation, prevention and reconstruction.

The case study of Villa Sant'Angelo

Davide INDELICATO

P. 788 ID 100

The roman amphitheater of Syracuse: archaeological artifact forgotten

Giuseppe DI GREGORIO, Domenico GIACCONE, Angelo MONTELEONE

P. 796 ID 101

The Interlacing Arches System in Salerno and Amalfi Coast

Barbara MESSINA

P. 806 ID 105

Digital Reconstruction of the Maritime Theatre in Hadrian's Villa at Tivoli

Alberto SDEGNO

P. 815 ID 113

In Place

Maria Ines PASCARIELLO

P. 821 ID 114

Structural building information modeling of casale castello

Ingrid TITOMANLIO, Giuseppe FAELLA

P. 829 ID 120

Functional recovery and structural refurbishment of disused industrial buildings: an integrated approch

Ingrid TITOMANLIO, Giulia MATERAZZI

P. 838 ID 121

Challenges in the field of heritage conservation in the developing world: a case study of Bihar, India

Kamini SINHA, Shailendra Kumar MANDAL

P. 846 ID 122

Decoding a merchant town: photograpy, history and survey

Antonella SALUCCI

P. 855 ID 123

The historic fabric of Naples. Via Banchi Nuovi between regeneration and conservation Daniela DE CRESCENZO, Carmela FRAJESE D'AMATO

P. 860 ID 124

Characterization of Uncertainty and Approximation in Digital Reconstruction of CH Artifacts Fabrizio I. APOLLONIO, Marco GAIANI, Zheng SUN

P. 870 ID 125

A Synergy of Addends for the Definition of a Charter of Protection Giacinto TAIBI, Rita VALENTI, Mariangela LIUZZO

P. 880 ID 130

Multidisciplinary team activity for BIM using interoperability. A PhD course experience at Politecnico di Torino working on existing buildings

Anna OSELLO, Andrea ACQUAVIVA, Anna PELLEGRINO, Elena CANDELARI Giacomo CHIESA, Daniele DALMASSO, Matteo DEL GIUDICE, Kamila MANNANOVA lasef MD RIAN, Michel NOUSSAN, Edoardo PATTI, Marco PIPPIONE Alessandro SERRA, Rajabzadeh SHAGHAYEGH, Zhu SHICHAO, Riccardo TOMASI

P. 890 ID 132

The Arab-Norman civil architecture in Palermo: enhancement strategies Irene TRENTO, Liboria Laura ZABBIA

P. 899 ID 133

Cultural Heritage and "Freedom of Panorama". Representing Italian Identity **Enrica BISTAGNINO**

P. 905 ID 136

Between anti-museum and interactive museum: the case study of Paolo Orsi in Syracuse, Italy Alessio CARDACI, Antonella VERSACI, Luca FAUZIA

P. 915 ID 138

A New representation of an Ancient Monument. La Piscina Mirabile Raffaele MARTINELLI

P. 923 ID 140

The oval cloister of Santa Maria alla Sanità Church: a virtual representation of the original destroyed shape

Roberta MONTELLA, Emanuela LANZARA

P. 929 ID 141

Geoconservation analysis at Ackendown, Jamaica defining geoarchitecture **Patricia Elaine GREEN, Sherene Andrea JAMES-WILLIAMSON**

P. 939 ID 146

Building information modeling. An instrument of knowledge for the fortified architecture **Luigi CORNIELLO**

P. 949 ID 150

Control and reuse of the rainwater in the urban context

Rossella FRANCHINO

P. 954 ID 158

Standardisation of the design process using BIM Software

Saverio D'AURIA, Davide BARBATO

P. 962 ID 162

The court house in rural and urban by Campania - Private and public in educational experiences and design architecture

Massimiliano RENDINA

P. 970 ID 163

The museum of the territory. Notes for active conservation

Efisio PITZALIS

P. 980 ID 166

Design of multimedia archaeological park in the mediterranean area. Survey, modelling and communication. The case of Leptis Magna

Andrea MANTI, Chiara SCALI, Domenico TOSTO

P. 988 ID 169

Smart communities and local company museums: two new concepts for the Mediterranean Museum System of Design and Applied Arts

Claudio GAMBARDELLA, Jochen SIEGEMUND

P. 999 ID 178

Measurement, Representation and Rural Architecture Exploitation: Knowledge through Historical Maps from Mills to Hydropower Stations

Fabio CONVERTI

P. 1013 ID 180

Sprawl Repair. Site-specific tools for Neapolitan sprawl town

Fabrizia IPPOLITO

P. 1017 ID 183

Design the monument in the twentieth century. Innovation and tradition

Saverio CARILLO

P. 1027 ID 184

The Beuronese School and the Schwarz's essays in the architecture sacred of the XX century Maria Carolina CAMPONE

P. 1037 ID 185

The contribution of diagnostics in architectural survey; case study of combined thermography application

Gerardo Maria CENNAMO

P. 1044 ID 188

The room ablution of Hafsid era in Tunis (XV cent.): architectural and artistic aspects **Lamia HADDA**

P. 1051 ID 189

18th Century's cheap and lower-class dwellings in Caserta

Riccardo SERRAGLIO

P. 1061 ID 192

Borgo Appius - Borgo Domitius

Gianluca CIOFFI

P. 1071 ID 196

New urban models in the vesuvian Sarno plain

Carlo A. MANZO, Marino BORRELLI, Emanuele CARRERI, Carlo COPPOLA, Francesco COSTANZO, Efisio PITZALIS, Massimiliano RENDINA

Gianluca CIOFFI, Maria Antonia GIANNINO, Gaspare OLIVA, Andrea SANTACROCE, Pasquale ZEPPETELLA, Rejana LUCCI, Enrico CARAFA

P. 1079 ID 197

Urban Regeneration. Methods and Strategies

Maria Antonia GIANNINO, Agrippino GRANIERO, Gaspare OLIVA, Ferdinando ORABONA

P. 1089 ID 198

The Rural Homestead of Casignano: taken from Documents Regarding the Monument Rossella BICCO

P. 1093 ID 200

Saint Lawrence outside the walls. Notes one the nineteenth-century restoration by Virginio Vespignani

Cesare CUNDARI, Gian Carlo CUNDARI, Maria Rosaria CUNDARI

Table of contents _ LANDESIGN

P. 1104 ID 003

Kusadasi, the Ancient 'Scalanova'

Ahmet Vefik ALP

P. 1110 ID 010

New Contemporary Art Museum Buenos Aires

Anna MANDIA

P. 1115 ID 012

Confronting Contemporary Sustainability Norms with the Durability of Historical Buildings

Carmela CUCUZZELLA

P. 1123 ID 021

The Influence of New Technologies on Sustainable Parks: Duisburg North Park and Central

Park Valencia

Carmen VESES JIMENEZ, Ignacio BOSCH REIG

P. 1132 ID 024

Linear limbic spaces between land and sea: landscape designing in river Evro's delta

Eleni OUREILIDOU

P. 1142 ID 031

Affirmation and Integration of Architectural Heritage in Urban Landscape: Contribution of

Landscape Architecture

Jelena RAKOCIJA, Marko DIMANIC

P. 1150 ID 052

Making Belief: Taste-Making, the Public Imagination, and the Spaces of Everyday Life

Tim WATERMAN

P. 1158 ID 060

Planning Form the Awareness of a Place

Miguel A. MEDINA

P. 1168 ID 062

A Dicussion On The Micro-Scale Urban Preservation Projects In Turkey

Seyda GÜNGÖR AÇIKGÖZ, Burcu CEYLAN

P. 1176 ID 067

A Transparent Choice

Antonella VIOLANO, Francesca VERDE

P. 1183 ID 073

Approaches to environmental impact assessment of physical pollutions of territories during design and construction of industrial objects and its realization in Samara Region of Russia

Andrey VASILYEV, Vitaly BUKHONOV, Vladislav VASILYEV

P. 1191 ID 074

Approaches to classification and to reduction of negative impact of lubricating cooling liquids

Andrey VASILYEV, Pavel MELNIKOV, Vlada ZABOLOTSKIKH

P. 1196 ID 086

The ISO 50001: a tool of energetic management of architectural public heritage

Monica CANNAVIELLO

P. 1200 ID 087

Design and handcraft for new creative dimension of industry

Marco BORRELLI

P. 1210 ID 090

Visione sostenibile (Sustainable Vision in the Conservation of Cultural Heritage Project)

Anna MAROTTA

P. 1220 ID 110

The quarry landscape of Guidonia Montecelio in Lazio. Knowledge, survey and project of a built environment

Laura FARRONI, Annalisa METTA

P. 1230 ID 134

Cultural landscapes in transition: representation and relationship between shape and context **Serena ABELLO, Chiara CANNAVICCI**

P. 1240 ID 152

Sustainable LanDesign for Archeology

Ottavia GAMBARDELLA

P. 1245 ID 153

Use of a scale model under artificial sky for daylighting design Antonio ROSATO, Michelangelo SCORPIO, Sergio SIBILIO

P. 1253 ID 154

Simeto valley

Alessandra MANIACI, Alessandra BRANCATELLI

P. 1261 ID 167

Towards a theory of impermanence

Silvana SEGAPELI

P. 1268 ID 168

Landesign "Between Agnena and Regi Lagni"

Vincenzo POLLINI

P. 1275 ID 170

The project expression of aesthetic quality within the culture of physical transformation **Paola GIANNATTASIO**

P. 1286 ID 174

Design of energy systems through the crop circles geometry

Claudia CENNAMO, Rosanna DRAGO

P. 1294 ID 175

The Analytic Network Process (ANP) as environmental assessment tool to design an ecomuseum in Pompei

Maria Cristina MIGLIONICO, Giuseppe D'ANGELO

P. 1301 ID 179

Sustainable Design and sense of funny

Cognitive survey methods and riassertion of identities

Antonino CALDERONE

P. 1314 ID 186

Representing urban landscapes. Narration and sense-making

Alessandra CIRAFICI, Caterina C. FIORENTINO

P. 1324 ID 187

Authenti-city. A militant design project

Caterina C. FIORENTINO, Alessandra CIRAFICI

P. 1334 ID 191

Hyperspectral and thermal airborne surveying for the characterization and the monitoring of natural and anthropized environment

Carmine GAMBARDELLA, Pasquale ARGENZIANO, Alessandra AVELLA Stefano BASTONI, Giuseppe CASBARRA, Flaviano TESSITORE

P. 1358 ID 194

The New Landscape Mario PISANI

P. 1364 ID 199

The SEEM project: a Solar Eco-Efficient Envelope Model

Stefano ALBRIZIO, Bernardo BUONOMO, Lorenzo CAPOBIANCO, Corrado DI DOMENICO, Amedeo FIORE, Walter FIORE, Rossella FRANCHINO, Caterina FRETTOLOSO, Carmine GAMBARDELLA, Luciana MAINOLFI, Oronzio MANCA, Francesca MUZZILLO, Sergio NARDINI, Paolo ROMANO, Antonella VIOLANO

P. 1372 ID 201

Regina Viarum, Appia Antica

Gilda EMANUELE

P. 1377 ID 202

Landscape design and sustainable development: from smart City to the smart Land **Tatiana KIRILOVA KIROVA, Davide MEZZINO**





CONSERVATION
REGENERATION
INNOVATION



Architecture, heritage, landscape, in time of crisis

Carmine GAMBARDELLA

Department of Architecture and Industrial Design "Luigi Vanvitelli", Second University of Naples, Italy carmine.gambardella@unina2.it

In this times of crisis, there has been a return to discussing the value of cultural, architectural and landscape heritage, with the use of quite worrying terms such as "consumption" of art or "offer" of culture, almost as if they were goods to be sold to "consumers" or sold off to the highest bidders.

The problem of the commodification of cultural and environmental assets in Italy, launched more than 10 years ago, is still far from having found a solution. It was July 2002 when the most important German newspaper, the "Frankfurter Zeitung Allgeimeine" broke the news of the Italian law which made the alienation of state assets possible, including the cultural ones, with an article entitled "The Taliban of Rome. End of season sales. Italy is going to sell out its cultural heritage."

The article referred to the Tremonti Decree with "Urgent provisions for the privatization and exploitation of public property and real estate development investment funds", which are still today the fundamental regulations for the dismissal of public assets. In conclusion, the journalist Ute Diehl commented: "Today the cultural heritage of Italy has been degraded to a mere economic value, as a resource that can be discarded at will. However, there is nothing that gives the measure of the state of health of a society as the relationships it is able to have with its monuments and its own landscape".[1]

Taking a stand with his 2002 book "Italy S.p.A., The assault on cultural heritage", Salvatore Settis explained that "What is being destroyed is neither the Coliseum nor a castle in Aosta, nor the Parco degli Abruzzi nor the smallest and most beautiful church in Tuscany, but a much larger monument, even more significant (because it is the safety of all others): the age-old culture of conservation developed by the Italians over generations, on an institutional level and in terms of social conscience".[2]

The desired institutional consideration and reversal of the trend, unfortunately, has not arrived, nor have investments been made in education in order to make citizens understand, and in particular young people, that the landscape, coast, mountains, cities with their churches and palaces, constitute our identity, our consciousness, our soul, and that commodifying them would mean selling ourselves, an identity built by generations of Italians who were the first in the world to create a culture of conservation that is now at risk of disappearing.

The results have not been slow to emerge, involving the most famous and valuable monuments: to give just one example, the area of the excavations of Pompeii, the most famous archaeological site in the world, a UNESCO World Heritage Site, has been hit by a series of collapses and upheavals, which began in November 6, 2010 with the collapse of the Schola Armaturarum, the gladiator school along Via Abundance, and has continued until today with relatively severe episodes.

Unfortunately, Pompeii is not an isolated case, but is the most emblematic example of the degradation that is eroding many monuments, in the absence of effective planning of interventions and adequate funding.

There seems to be the idea of making a profit from cultural heritage without investing. In an article last year, Sergio Rizzo reported the Court of Auditors' report on the reduction of public funds to artistic and cultural heritage, equal to 0.19% of public expenditure compared to the 0.34% of a few years ago, while the French state invested a budget five times higher than ours and Germany had increased its expenditure by 7%. [3]

In the same article, data from the Court of Auditors were also reported about the size of the Italian cultural heritage, amounting to 3,430 museums, 216 archaeological sites, 10,000 churches, 1,500 monasteries, 40,000 castles, towers and fortresses, 30,000 historic houses, 4,000 gardens, and 1,000 historical centres. It also drew attention to the responsibility of Italy compared to the rest of the world, as the guardian of the greatest number of assets protected by UNESCO: 45 out of 911.

A cultural heritage of this magnitude, widespread throughout the country and in addition to a natural heritage and landscape of great variety and beauty, is a special case within a global context, and as such, should be understood and protected with appropriate solutions. It seems that this heritage is mostly seen as a burden, to be freed of at the earliest opportunity by selling it off and with the only advantages being for the private buyer.

It is clear that the Italian heritage needs to adequately managed, even if it may not be easy. In Italy, there is no sense in trying to apply the American model of sponsorship to isolated "emergency" cases as attractors of tourist and consumer flows: our museums, churches, works of art, are incardinated into the territory, the landscape and the city, being essential elements of continuity, not severable and not to be understood outside of their context. This was fully understood by the Italian legislators of the past. From the edicts of the pre-unification states to the Constitution of the Italian Republic, up to Law 1089 of 1939 on the "Protection of the things of artistic and historical interest", it is possible to recognise the respect of two guiding principles that have now seem to be forgotten: the public artistic heritage is property of citizens as holders of popular sovereignty, and the State has a duty to protect the cultural heritage in its entirety, promoting knowledge through research.

The American museum-centric model, characterised by strongly attractive collections completely unrelated to the context of the host, is absolutely misleading and inapplicable to the Italian context. Unfortunately, life in capitalist society in general has become a build-up of shows, and culture is no exception, as claimed by Mario Vargas Llosa in a paper recently published entitled "The civilization of the show". The contents of literature, music and art are oversimplifying: everything has to entertain and amuse; artists does not have to justify their talent through their own works, but by becoming shows themselves; museums have to attract throngs of conformist admirers through major events, when "The number is not the quality. Culture was never justified statistically". [4]

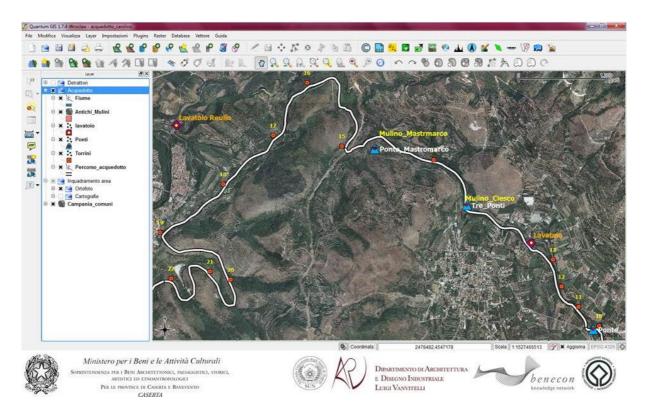
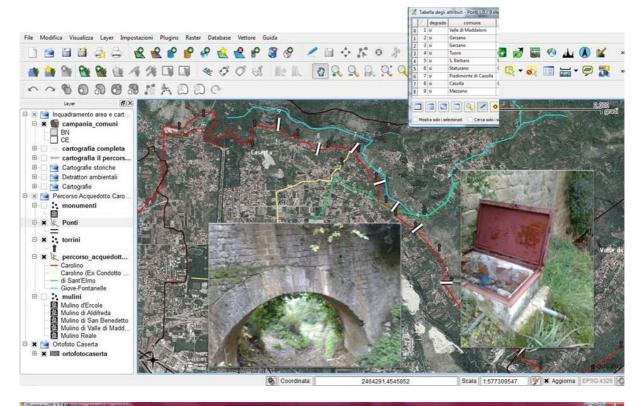


Fig. 1: Management Plan of the UNESCO site "Royal Palace of the eighteenth century in Caserta with the Park, the Aqueduct of Vanvitelli and the complex of S. Leucio." Geographic Information System.



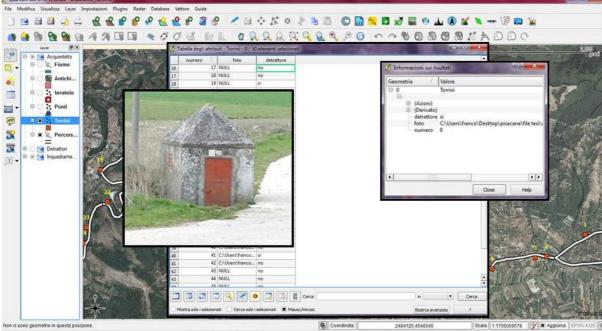


Fig. 2-3: Geographic Information System: analysis of the bridges (fig. 2) and the towers (fig.3).

In our country, the cultural heritage, both inside and outside museums, must be considered as a unicum (whole), within which it is a mistake to focus on ephemeral and spectacular events rather than on the knowledge and protection of the heritage itself as a structural and permanent objective.

The idea of spectacularising culture is ruining the symbol of Italian art cities such as Florence and Venice, reduced to tourist fetishes, money making machines, a sort of amusement park or shopping centre in which citizens have lost the spaces of their everyday lives.

This is what emerges from the words of Tommaso Montanari in "A Manifesto for our heritage", in which he reiterates the civil and constitutional function of heritage, which must be maintained with public money, but is the property of every citizen. "The Italian historical and artistic heritage is coextensive and fused with the environment and must be protected, understood and communicated in its organic and continuous aspects. It is unacceptable for any cultural policy that focuses on so-called "absolute" masterpieces (i.e., literally, "freed" from any network of signifiers), to explant and force them

into exhibition routes with a cognitive value of zero. In other words, the events in Italy are killing monuments and, therefore, there is a need for a drastic change of direction. The vast majority of ancient art exhibitions are also marketing operations which exploit the works, ignore research and promote a passive reception based on the television model". [5]

The same issue had been raised by Settis for whom "The concept of the exhibition as a tourist trap is not only culturally backward, but is a short-sighted economic calculation, likely to cause sudden ignitions of interest and increase in visits, followed by desert and silence [...] The only exhibitions encouraged should be those aimed not at the ephemeral but the permanent, opportunities for knowledge which lead to a reassessment of the lesser known parts of the heritage, and therefore forms of winning investment (in money and energy)". [6]

Against the mis-education produced by the dominant models, the only way out is to start from the educational role of art, culture and the landscape. Heritage is like school: it is a powerful tool for citizenship education and spiritual upliftment. It cannot be considered a luxury or entertainment, and especially not with an ultimate goal of producing an income.

Any consideration of privatization, hiring, contract management or disposal, gives citizens a distorted view of the assets as a "cultural bed", like Italian oil, to be extracted and put to use.

The same is true for the landscape, systematically destroyed for profit, with a short-sighted perspective that does not take into account the enormous damage arising from the hydrogeological instability that subsequently entails, in addition to the loss of environments in which national identity is no less reflected than in cultural heritage. Also in this case, the defence of the environment and landscape includes ethical values, the civil and social associated with them, to contribute to building a better future.

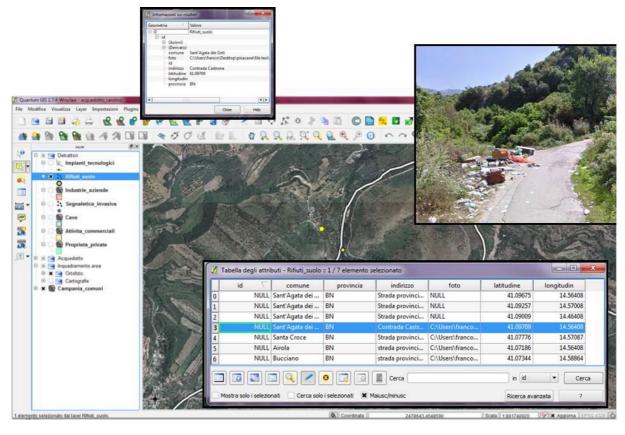


Fig. 4: Geographic Information System: survey on waste.

Starting from education means counteracting widespread figurative illiteracy, making the art, history and culture of the country, which are essential for full conscience of the nation to which one belongs, known and loved by children and young people within the Italian education system.

Young people, when at school, must be the first and most important recipients of the initiatives related to cultural heritage and landscape, in order to be able to understand the national identity understood as a connective tissue which includes monuments, language, literature, theatre, music and so on. The

investments made in this direction would certainly pay off in terms of wealth for the country itself, as is always the case for any investment in human capital, which should never be cut in times of crisis.

The museums, instead of investing in ephemeral events, should be seen as places of research and education, to develop, in cooperation with other research institutions, strategies of knowledge and access to their heritage, differentiated by specialists, for the general public as well as for the younger members of society.

Regarding the role of specialists, who must be professionals with technical and cultural skills, or in other words art historians, archaeologists, architects and restorers, and in addition, they should have a civic and institutional sense that only education can give. One of the roles of universities today is to form young people from both a moral and intellectual point of view as well as a technical and professional one, so that they can act with due sensitivity in this area.

University also has a key role in research, assuming that the acquisition and dissemination of knowledge is a worthwhile investment for the protection (i.e. to preserve the value of assets) but also to increase its value through proper communication activities.

Also in this case, research should be specifically addressed to the peculiarities of Italian heritage. It has been said how this is a unique connective tissue. It is therefore important to create a network, a sort of virtual museum of the territory, in which the relationships between the artefacts stored in museums, the other works in the area, villas, churches, monuments, and so on are highlighted. The aim is to broaden knowledge and hence the widespread interest in the assets, creating alternative itineraries to major attractors, allowing less well-known sites to enter the virtuous circle of knowledge.

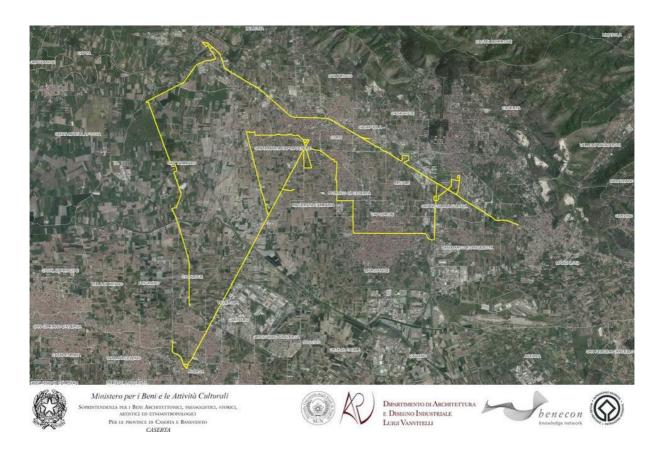
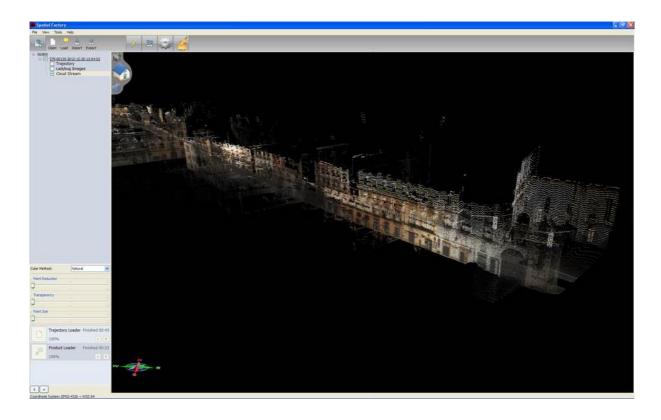


Fig. 5: Management Plan of the UNESCO site "Royal Palace of the eighteenth century in Caserta with the Park, the Aqueduct of Vanvitelli and the complex of S. Leucio." Path surveyed by platform Topcon IP-S2 Mobile Mapping installed on a dedicated vehicle.



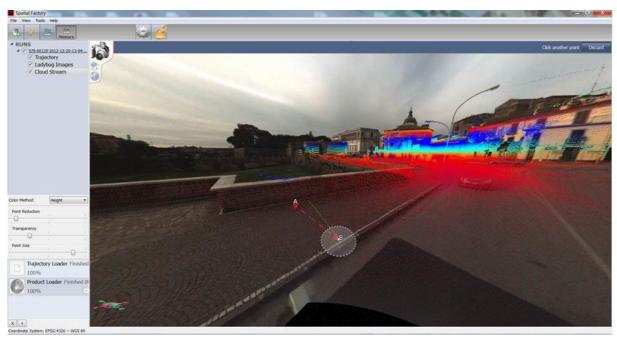


Fig. 6-7: Images captured by platform Topcon IP-S2 Mobile Mapping installed on a dedicated vehicle.

As stated by Settis, in his recent "Landscape. Constitution. Cement" when he wrote that "museums and monuments, so as not to die, must converse with the city and the world that surrounds them, repositioning themselves through knowledge and communication mechanisms suitable to the times. To start from the museum, it must be an essential urban node that is grafted onto the heritage, civil and social fabric of the city, the distillation and showcase of the historical sedimentation and collective memory". [7]

The network would have a key role in reconnecting the works to their tissue of belonging and reuniting lost contexts or geographically dispersed collections, for a better understanding of the work, the artist and the cultural context that produced it. Technology makes it possible to multiply indefinitely the connections, as well as display the logical, chronological, stylistic, geographical, genetic relationships

and so on between a given object and a variety of other items.

Thus, knowledge becomes alive, attractive, accessible. The route is not approved and imposed onto the visitor as exhibitions-event, but it is in progress, in the sense that it depends on the relationships that individual users prefer to view, creating their own specific cognitive approach.

In this direction, a collaboration between universities, research centres and institutions, against every self-referential mechanism, would be essential in order to develop strategies and objectives that maybe, without following the logic of income, could really generate wealth for our country.

To conclude with the words of Montanari, "We have to fight so that the historic fabric of our cities returns to being the instrument of cultural growth guaranteed by the Constitution, and escape the choice between destruction and transformation into an entertainment theme park".

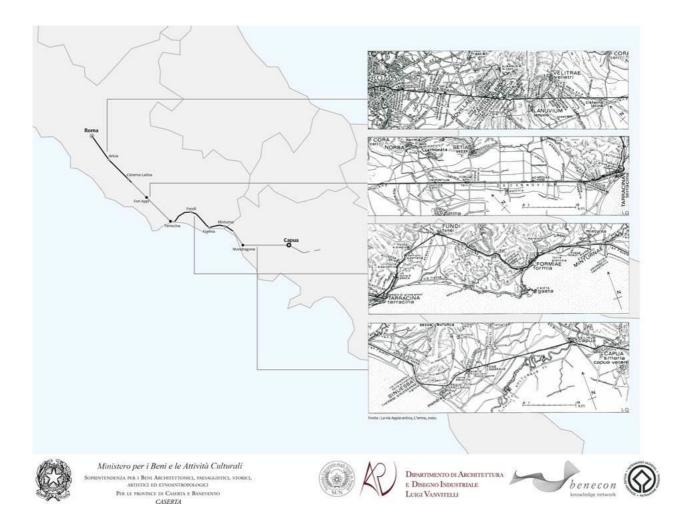


Fig. 8: Management Plan of the UNESCO site "Royal Palace of the eighteenth century in Caserta with the Park, the Aqueduct of Vanvitelli and the complex of S. Leucio." Identification of the tracing of the Via Appia.

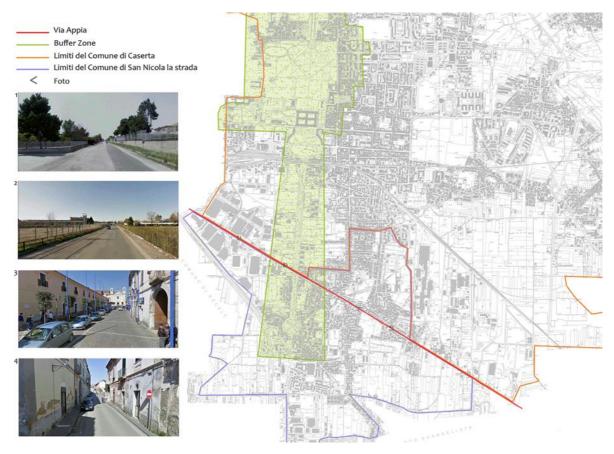


Fig. 9: The Via Appia between the town of Caserta and San Nicola La Strada.



Fig. 10: The Via Appia in the area to be redeveloped.

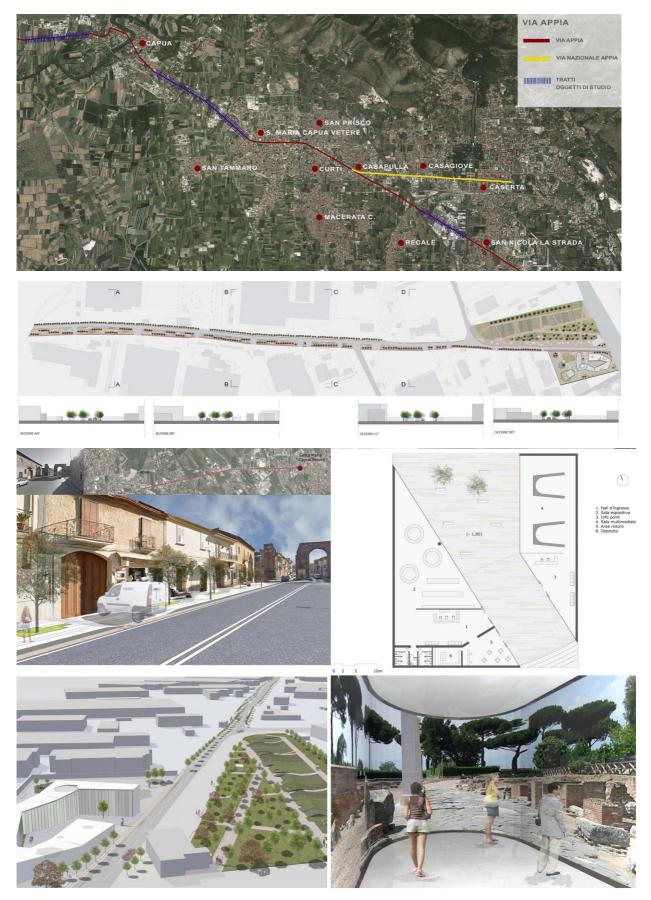


Fig. 11: Architectural and urban design on the part of the Via Appia within the buffer zone.

Bibliographical notes

- [1] Ute DIEHL, I talebani di Roma. Saldi di fine stagione. L'Italia sta per svendere i propri beni culturali, in: Frankfurter Allgeimeine Zeitung, 9 luglio 2002.
- [2] Salvatore SETTIS, Italia S.p.A. L'assalto al patrimonio culturale, Einaudi, Torino 2002, p.6.
- [3] Sergio RIZZO, Beni fantasma, spese poco trasparenti . Così l'Italia non tutela i capolavori, in: Corriere della Sera, 9 luglio 2012.
- [4] Mario VARGAS LLOSA, La civiltà dello spettacolo, Einaudi, Torino 2013.
- [5] Tommaso MONTANARI, *Un manifesto per il nostro patrimonio*, in: *Il Fatto quotidiano*, 5 aprile 2012.
- [6] Salvatore SETTIS, Italia S.p.A., cit. p. 94.
- [7] Salvatore SETTIS, *Paesaggio. Costituzione. Cemento. La battaglia per l'ambiente contro il degrado civile*, Einaudi, Torino 2012, p. 135.

















