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Fabbrica della Conoscenza

Carmine Gambardella



La scuola di Pitagora editrice

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Collana fondata e diretta da Carmine Gambardella

Fabbrica della Conoscenza

Collana fondata e diretta da **Carmine Gambardella**

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Best practices in heritage
conservation and management
From the world to Pompeii

Le vie dei Mercanti _ XII Forum Internazionale di Studi

Carmine GAMBARDELLA

La scuola di Pitagora editrice

Carmine Gambardella (a cura di)

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Manuela Piscitelli

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Best practices in heritage conservation and management From the world to Pompeii

Le vie dei Mercanti
XII Forum Internazionale di Studi

Aversa | Capri
June 12th- 14th, 2014

Conference topics:

Heritage

Tangible and intangible dimensions, History, Culture, Collective Identity, Memory, Documentation, Management, Communication for Cultural Heritage.

Architecture

Surveying, Representation, Modelling, Data Integration, Technology Platforms, Analysis, Diagnosis and Monitoring Techniques, Conservation, Restoration, Protection, Safety, Resilience, Transformation Projects, Technologies, Materials.

Landscape

Cultural landscapes, Territorial Surveying, Landscape Projects, Environmental Monitoring, Physical Parameters, Government of the Territory, Sustainable Development, Social Sustainability, Economic Sustainability.

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Peer review

Scholars has been invited to submit researches on theoretical and methodological aspects related to Architecture, Industrial Design and Landscape, 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

238 abstracts received from:

Australia,
Brazil,
China, Colombia, Cuba, Cyprus,
Denmark,
Egypt,
France,
Greece,
Indonesia, Italy,
Japan,
Madagascar, Malta, México,
Portugal,
Russia,
Saudi Arabia, Slovakia, Spain, Sweden,
Turkey,
United Kingdom, U.S.A,
Yemen.

About 400 authors involved.

196 papers published.

Preface

The XII International Forum Le Vie dei Mercanti has the aim of promoting a debate on local and international experiences relating to the themes of the conservation and management of cultural, architectural, archaeological, landscape and environmental heritages. This debate is particularly relevant in Italy, with it not only being responsible to the world for housing the largest number of UNESCO sites but also having a natural and landscape heritage of great variety and beauty in a region characterised by an intrinsic geological fragility. The management of this vast heritage requires both a serious planning of the interventions as well as adequate funding. The same goes for the protection of the landscape, which in the past was systematically devastated within a myopic perspective that did not take into account the enormous amount of damage caused by wild speculation and hydrogeological instability.

Furthermore natural disasters, such as earthquakes, have led to the transformation and loss of environments which reflect local identity no less than the cultural heritage, in addition to economic damage and in terms of human lives.

In order to conserve and manage the heritage, it is necessary to adopt an integrated and resilient approach in which different skills contribute to the development of improvement and restoration projects, carried out through knowledge, sharing of decisions and proactive sharing, taking into account the social and environmental sustainability of interventions that should characterise the design method in all its aspects.

The key issue is the exchange of ideas so as to give life to a *technological humanism*, understood as the union between the cultural vitality that has characterized humanism and the Renaissance, producing excellent results in all fields of knowledge, and the possibilities currently offered by technological innovation to create platforms in order to support this knowledge. Thus, Pompeii, the most famous archaeological site in the world, is taken as the prime example of the need to adopt a virtuous cycle of conservation and management, supported by the dialogue between the different skills that interact by sharing the same technological platform.

The international debate can be an opportunity to share prime examples of the conservation, management and development of the archaeological, architectural, landscape and environmental heritage through the integration of ideas and experiences of specialists working in different disciplines as well as geographical and cultural contexts.

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

Carmine Gambardella

Table of contents

P. 28	ID 000 Best practices in heritage conservation and management. From the world to Pompeii Carmine GAMBARDELLA
P. 39	ID 001 The Fourth Right - a possible new way to conserve Chinese urban villages Yu-HUAN WANG
P. 48	ID 002 Turin observe the time Gian Giacomo Plantery Nadia FABRIS
P. 55	ID 003 The “illusory space” from wall frescos to “quadraturismo”, to cyclorama. Planar and solid representation techniques and restitution of imaginary space Antonio MOLLICONE
P. 65	ID 005 SmartEcoPhone, between research and enterprise. Enhancing the natural and cultural heritage of Rome Fabio ATTORRE, Giulia CERIANI SEBREGONDI, Fabio FRANCESCONI, Roberto VALENTI
P. 72	ID 006 Conservation and structural safety rehabilitation: a renewed approach needed Paola RONCA, Pietro CRESPI, Alberto FRANCHI, Nicola GIORDANO
P. 80	ID 007 Methods and approaches of estimation of negative impact of physical factors in conditions of urban territories Andrey VASILYEV
P. 87	ID 008 New approaches to estimation of ecological risks of urban territories Andrey VASILYEV, Vlada ZABOLOT SKIKH, Julia TERESHCHENKO, Ivan TERESHCHENKO
P. 94	ID 009 Improvement and realization of system of waste management of urban territories Andrey VASILYEV
P. 98	ID 010 Musealization and exhibit questions inside the archaeological site Gioconda CAFIERO
P. 106	ID 011 Restoration of the feudal castle of Ventimiglia family in Castelbuono (PA) Federica SCIBILIA, Marcello LA GUARDIA
P. 115	ID 012 The digitalization of cultural heritage’s tangible & intangible dimensions Davide MEZZINO
P. 123	ID 014 Accessibility of historical students accomodations: methods and solutions Alessandro GRECO, Matteo LOCATELLI

- P. 132** **ID 016**
Foligno city lab. The earthquake as a research opportunity
Paolo BELARDI, Fabio BIANCONI, Valeria MENCHETELLI, Simone BORI, Marco FILIPPUCI, Luca MARTINI, Giulia MATERAZZI, Giacomo PAGNOTTA
- P. 142** **ID 017**
Paris saclay – urban textures
Anna MANDIA
- P. 148** **ID 018**
Projects overlooking the sea, between stone and leaves
Cesare AJROLDI, Flavia SCHIAVO
- P. 157** **ID 020**
The development of Bad Nauheim as jugendstil spa complex
Elena MANZO, Manuela PISCITELLI
- P. 173** **ID 021**
Revitalization of Port Area as an Effort to Preserve the Identity of the City. Comparative Studies: Clarke Quay-Boat Singapore and Albert Dock Liverpool
Ari Widyati PURW ANTIASNING, Ashadi HADIWINOTO, Luqmanul HAKIM
- P. 183** **ID 022**
Requalification of historic buildings with special reference to the typological, technical and energetic aspects of collective residences
Elena ROMANO
- P. 193** **ID 023**
The management of vulnerabilities in cultural heritage: a possible model to parametrize the intervention priorities
Carlo MAMBRIANI, Eva COÏSSON, Elisabetta FADDA
- P. 203** **ID 024**
Green road project: promoting art, food, mobility and energy
Giulio CEPPI, Antonio PROTA
- P. 208** **ID 025**
Earthen Architecture: the ancient experiences as basis for the development of contemporary architecture
Alice PALMIERI
- P. 218** **ID 028**
Constructive technology and climate adaptation in modern architecture of Yucatan
Manuel Arturo ROMÁN KALISCH, Raúl Ernesto CANTO CETINA
- P. 228** **ID 029**
An advanced model to represent and manage knowledge in cultural heritage
Caterina GATTUSO
- P. 234** **ID 030**
Cultural itineraries and slow paths. Historical and environmental resources for the territorial planning
Massimo SARGOLINI, Roberta CAPRODOSSI, Maria Teresa IDONE, Paolo SANTARELLI
- P. 244** **ID 031**
Correct use of materials and technologies for a sustainable design: the study of “Acrilica” lamp by Joe and Gianni Colombo
Francesco TAMBURRINO, Raffaella AVERSA, Antonio APICELLA

- P. 251** **ID 032**
Methodological approach for the restoration of the Castle of Belvedere Marittimo (CS) – Calabria
Caterina GATTUSO, Renato OLIVITO, Elena BENCARDINO, Rosamaria ODISPOTI
- P. 261** **ID 035**
Specifics and landscape conditions of dispersed settlements in Slovakia - a case of natural, historical and cultural heritage
Ingrid BELČÁKOVÁ, Zuzana PŠENÁKOVÁ
- P. 269** **ID 036**
The Appian Way: enhancement of the landscape between nature and culture from Rome to Capua
Clelia CIRILLO, Ugo ZANNINI, Luigi SCARPA, Giovanna ACAMPORA, Marina RUSSO
- P. 276** **ID 037**
Laser scanning as a measuring tool: a practice in laser scanning at Pompeii for archaeology and architecture
Osamu AJIOKA, Yoshiki HORI
- P. 284** **ID 038**
The documentation for the knowledge of the disappeared centers between “memory and measurement”
Antonio BIXIO, Giuseppe DAMONE, Enza TOLLA
- P. 292** **ID 039**
The museums’ world tries to safeguard and communicate the intangible dimension of heritage
Lucia GASPARINI
- P. 302** **ID 040**
Some thoughts about conservation and enhancement of archaeological heritage in France
Emanuele MOREZZI, Emanuele ROMEO, Riccardo RUDIERO
- P. 312** **ID 043**
Archaeology and architecture, the Stagnum Neronis of Baia
Marco RUSSO
- P. 322** **ID 044**
The subtraction architecture
Stefania DI DONATO
- P. 332** **ID 045**
Steel in the historic buildings: concealing vs exposing
Laura CIAMMITTI
- P. 341** **ID 046**
Almohad stamped jars of Seville
Daniela LALLONE
- P. 351** **ID 049**
Art production as social, built and cultural heritage
Rita BREDÀ
- P. 357** **ID 050**
Developmental dynamics of the hypogea of Piazza Duomo in Syracuse
Giacinto TAIBI, Rita VALENTI, Mariangela LIUZZO, Tiziana PATANÈ

- P. 367** **ID 052**
The epistemological measure of the quality of the natural landscape
Giacinto TAIBI, Sebastiano GIULIANO
- P. 375** **ID 053**
Confiscated property: best practices in management of cultural inheritance
Flora BERIZZI, Caterina MUSOLINO
- P. 383** **ID 055**
'The Bosphorus, Istanbul: magnificent past, dubious future'
Ahmet VEFIK ALP
- P. 388** **ID 057**
Mosques of Medina: Designing towards Authenticity
Mahmud MANNING, Ahmed ABU AL HAIJA
- P. 398** **ID 058**
The accessibility of archaeological area of Pompeii. Knowledge methodology and sustainable proposals
Renata PICONE
- P. 407** **ID 060**
Ornaments and vibrations in the geometry of the sound
Rosario Giovanni BRANDOLINO, Domenico MEDIATI
- P. 417** **ID 061**
Architectural conservation in China. The master plan of Nanjing heritage park
Alessandro PERGOLI CAMPANELLI
- P. 427** **ID 062**
Communicating regional identity, empowerment and preserving cultural heritage of Sant'Elia
ciociarian cuisine through slow food tourism
Charmaine I. KAIMIKAUA, Liza SALVATORE
- P. 435** **ID 063**
Gathering treasures and distributing the spoils
Paul RAPPOPORT
- P. 447** **ID 064**
On the safeguarding of sites and historic cities: a study on the evolution of French legal system
Antonella VERSACI, Alessio CARDACI
- P. 457** **ID 065**
Architecture for archeology. Identifying new modular and flexible types of shelter adaptable to
the diverse needs of archaeological sites
**Giuseppe PARELLO, Marco IMPERADORI, Carmelo BENNARDO,
Salvator-John A. LIOTTA, Yuta ITO, Fausta OCCHIPINTI, Andrea VANOSSI**
- P. 467** **ID 066**
Design process for a led based luminaire in exterior lighting application
**Giovanni CIAMPI, Antonio ROSATO, Michelangelo SCORPIO, Sergio SIBILIO, Carla
LANGELLA, Antonia AULETTA**
- P. 477** **ID 067**
Photometric measurement for led based sources
Giovanni CIAMPI, Antonio ROSATO, Michelangelo SCORPIO, Sergio SIBILIO

- P. 484** **ID 068**
Applications of augmented reality to understand an archaeological site: problems and future development
Mara CAPONE
- P. 494** **ID 069**
Paths to knowledge for the preservation of identity cultures
Rita VALENTI, Sebastiano GIULIANO
- P. 503** **ID 070**
The Irc of Uah, as an example of heritage rehabilitation
Flavio CELIS, Ernesto ECHEVERRÍA, Fernando DA CASA, Pilar CHIAS, Ignacio DELGADO, Juan Manuel VEGA, Blanca MORENO
- P. 510** **ID 071**
Retrofit actions on the envelope of an existing historical public building: energy and economic Analyses
Giovanni CIAMPI, Antonio ROSATO, Michelangelo SCORPIO, Sergio SIBILIO
- P. 519** **ID 072**
Urban planning and administration in a provincial city in the early 20th century
Maria Paola GATTI, Giorgio CACCIAGUERRA
- P. 528** **ID 074**
A SPECIAL LAW FOR SANA'A
The old city of Sana'a (Yemen): Proposal for a special fund for its conservation
Nabil AL-MAKALEH, Abdulhakim AL-SAYAGHI, Renzo RAVAGNAN, Massimo KHAIRALLAH
- P. 537** **ID 075**
The case of the XVII century "Teatro Farnese" in Parma: integrated conservation, between conservation and valorization
Federica BORGHI, Federica OTTONI
- P. 545** **ID 076**
MICRO_CITIES
Marinella ARENA
- P. 554** **ID 077**
Endangered heritage: a polemic intervention in one of the most protected areas of the Vicentina Coast Natural Park
Maria João Pereira NETO, Pedro Miguel Gomes JANUÁRIO, Mario Say Ming KONG, Maria do Céu Ferreira RODRIGUES
- P. 561** **ID 078**
Havana: urban configurations and heritage conservation
Jorge PEÑA DÍAZ, Joiselen CAZANAVE MACÍAS
- P. 567** **ID 079**
The memory of change
Maria Ines PASCARIELLO
- P. 576** **ID 080**
The Grand Tour, Rome, and the representation of architectural heritage
Piero BARLOZZINI

- P. 584** **ID 081**
Collective identity: hats Cartage heritage as – if probordados: handmade embroidery Cartage Valle Colombia
Maria Fernanda Garcia BURBANO, Luis Eduardo RAMIRES
- P. 594** **ID 082**
Lands of taste. 'Still-life' ways in Southern Italy from the Antiquity to the XVII Century
Valeria DI FRATTA
- P. 604** **ID 083**
Classification of the graphic legacy of disappeared earl of Oliva's palace
Joaquín Ángel MARTÍNEZ MOYA
- P. 614** **ID 084**
OFF-GRID::FARM. Multifunctional landscapes and sustainable systems for Mediterranean rural areas
Valentina ROCCA
- P. 623** **ID 085**
Between sign and color. The restoration site of the church of the Virgin Mary Assumed of Carrù
Maria Paola MARABOTTO
- P. 633** **ID 088**
Giuseppe Agnello "Historic Architecture". The protection and safeguard of cultural heritage in eastern Sicily
Iolanda DI NATALE
- P. 643** **ID 089**
Design the Rural-Architectural Intensification as a strategy for sustainable growth of countryside
Tiziano CATTANEO, Alessandra SANDOLO, Roberto DE LOTTO, Giorgio Davide MANZONI
- P. 653** **ID 090**
Preserving "time" in space and "space" in time: Cultural urban landscape of Nis, Serbia
Jelena RAKOCIJA
- P. 662** **ID 091**
The Sarno river and its plain
Rejana LUCCI
- P. 672** **ID 093**
ADA. A Bilderatlas of arts, bodies and cities
Malvina BORGHERINI
- P. 682** **ID 094**
Subtracting the ornament from the fairytale Gino Coppedè architecture. The case of the Villa of the Fairies in Rome
Laura CARNEVALI, Mariella LA MANTIA
- P. 689** **ID 095**
Vaison-la-Romaine: the historical legacy in the development strategies
Laura BLOTTO
- P. 698** **ID 096**
Receiving from the past to communicate the future: the case of S. Maria delle Macchie in Marche region
Enrica PETRUCCI, Daniele ROSSI, Giacomo NASINI

- P. 708** **ID 098**
Reflections on history and current operational safeguarding device in the Casbah of Algiers
Kamel RIGHI
- P. 717** **ID 100**
Architectural analysis of archaeological context - hypothesis of restoration of the domus del Torello di Bronzo (reg. V, ins. 1, civ. 7) archeological site of Pompei
Raffaele MARTINELLI
- P. 727** **ID 101**
Interpreting structure through critical regionalism
Iosif DAKORONIAS-MARINA
- P. 744** **ID 102**
A comprehensive approach to the protection of Dougga Tunisia
Marc BARANESS
- P. 756** **ID 103**
The importance of anthropological analysis in the comprehension of the cultural heritage. The study case of Rocca di Cambio (AQ)
Valeria AMORETTI
- P. 763** **ID 104**
Traditional building technique of military architecture in Veracruz, Mexico and Cartagena de Indias, Colombia for conservation
Dolores Pineda CAMPOS
- P. 771** **ID 105**
From antiquity to the present
Cinzia SCHIRALDI, Filippo M. MARTINES
- P. 782** **ID 106**
Crossing the river. Urban design in Pompei and Scafati
Carlo Alessandro MANZO
- P. 790** **ID 107**
Characters of rural architecture and industrial archeology in Calabria. Some typical cases
Brunella CANONACO
- P. 799** **ID 108**
The modeling based on techniques advanced of takes of data for the study of the church of the Asunción in Vistabella del Maestrazgo 1604-24
María Jesús MÁÑEZ PITARCH, José Teodoro GARFELLA RUBIO
- P. 807** **ID 110**
Effects of Alternate Load Paths in damage evolution and identification in architectural heritage
Valerio DE BIAGI, Bernardino M. CHIAIA
- P. 815** **ID 111**
Non-destructive monitoring of an old masonry clock tower with forced and environmental actions
Mariella DIAFERIO, Dora FOTI, Nicola Ivan GIANNOCARO
- P. 825** **ID 112**
The octagon, the hendecagon and the approximation of Pi: the geometric design of the clypei in the enclosure of Imperial cult in Tarraco
Josep Maria TOLDRÀ, Josep Maria MACIAS, Josep Maria PUCHE, Agustí COSTA, Pau SOLA-MORALES, Antoni ESPALLARGAS, Albert FERRE'

- P. 835** **ID 113**
The fragile heritage of the second half of the 20th century
Caterina PALESTINI
- P. 841** **ID 114**
Redrawing Tarraco
Pau SOLA-MORALES, Josep Ma TOLDRÀ, Josep Ma PUCHE, Josep Ma MACIAS
- P. 851** **ID 116**
Create “Urban•Ecological•Cultural” Symbiosis Space: conservation practice of historic riverfront in Turin and Shanghai
Liang ZHANG
- P. 858** **ID 118**
The shrine of Pompeii. Packaging of the sacred and politics
Saverio CARILLO
- P. 869** **ID 119**
Engaging visitors: developing presentation as a tool for site preservation at Pompeii
Alia WALLACE
- P. 879** **ID 120**
From the pompeiana domus to the Early Christian Basilica
Maria Carolina CAMPONE
- P. 889** **ID 121**
POMPEI URBAN CENTER: knowledge, regeneration, management
Maria Antonia GIANNINO
- P. 899** **ID 123**
The atmosphere of industrial architecture: Experience and production
Kasper ALBREKTSEN, Mads Harder DANIELSEN
- P. 909** **ID 125**
Conservation of cultural heritage. Risk analysis for protection and management
Sara Maria SERAFINI
- P. 915** **ID 126**
Typological aspects of Caserio, a traditional basque rural building
Luigi MOLLO, Rosa AGLIATA
- P. 921** **ID 127**
POMPEI: from Town to City
Ferdinando ORABONA
- P. 930** **ID 128**
The walled city of Nicosia today - The challenge of managing heritage conservation in a living divided city
Athina PAPADOPOULOU
- P. 938** **ID 129**
Roofing structures in archaeological sites: Pompeii insula of the Centenary [IX 8]
Alberto CUSTODI, Giovanni CASTELLAZZI, Stefano de MIRANDA, Francesco UBERTINI

- P. 948** **ID 130**
Renovating the existing to redevelop the territory. Restoration and reuse project of an eighteen century country house in Casalvecchio Siculo (Messina - Sicily) and realization of a farm holiday center
Alessandra MANIACI, Gianfranco Salemi SCARCELLA
- P. 958** **ID 131**
Memory vs oblivion. Best practices for the constitution of the museum of Reggio Calabria
Francesca FATTA, Livio DE LUCA
- P. 966** **ID 132**
Building information modeling for structures
Ingrid TITOMANLIO
- P. 973** **ID 133**
B.I.M. and structural modeling: application on cultural heritage
Ingrid TITOMANLIO, Giuseppe FAELLA
- P. 980** **ID 134**
Urban forms and architecture in the hydrographic landscape of the Sarno's valley
Andrea SANTACROCE
- P. 989** **ID 135**
Save what we can: experimentally validated design of strengthening interventions to reduce the seismic vulnerability of a bell-tower
Rosario CERAVOLO, Giuseppa NOVELLO, Marica Leonarda PECORELLI, Giuseppe PISTONE
- P. 998** **ID 136**
CULTIVARS: cultivating culture in art
Sabina MARTUSCIELLO, Maria Dolores MORELLI
- P. 1007** **ID 137**
From the management plan to a protection management system of mosaic decorations in 'Arab-Norman Palermo and the cathedral churches of Cefalù and Monreale' itinerary
Valeria MEGNA, Clara SPALLINO
- P. 1018** **ID 139**
HERITAGE AND TERROIR: the Revival of ancient Pompei Vineyards
Francesca MUZZILLO, Fosca TORTORELLI
- P. 1025** **ID 141**
Promotion and conservation of cultural heritage through the institution of touristic districts in Campania
Antonella MARCIANO
- P. 1033** **ID 142**
The Trgovski Dom in Gorizia by Max Fabiani. Survey and simulation of the Petrarca Hall
Alberto SDEGNO, Giovanni FRAZIANO, Silvia MASSERANO, Dimitrij POZAR
- P. 1041** **ID 143**
From point cloud to archaeology: the case study of Villa dei Misteri in Pompeii
Marco CANCIANI, Corrado FALCOLINI, Giovanna SPADAFORA, Mauro SACCONE
- P. 1049** **ID 145**
Cultural heritage. Best practice and a new proposal
Emanuela LANZARA, Roberta MONTELLA

- P. 1059** **ID 146**
 Pompeii: urban regeneration for cultural heritage
Agrippino GRANIERO
- P. 1066** **ID 147**
 Technological hybridization for the fruition of cultural heritage. Architectural perspectives of Andrea Pozzo at St. Ignatius in Rome
Graziano Mario VALENTI, Jessica ROMOR
- P. 1074** **ID 148**
 Environmental degradation and urban design: nature as starting point for regeneration
Gaspere OLIVA
- P. 1084** **ID 152**
 How to manage a urban color plan which takes in account the supporting materials and the conservation state of the buildings
Maria Paola BORGARINO, Stefania BOSSI, Anna PIANAZZA
- P. 1093** **ID 154**
 Survey of 'liberty' in Milan, 3D printing for the restoration of decorations
Maria PIGNATARO
- P. 1103** **ID 155**
 Armenian experiences in consolidation of ancient buildings: the study cases of Anberd, Tatev, Arudj and Ani
Lorenzo JURINA, Edoardo O. RADAELLI
- P. 1113** **ID 156**
 Dynamic identities for the cultural heritage
Francesco E. GUIDA
- P. 1121** **ID 157**
 The Arab-Norman influence in the architecture of Campania in the 11th and 12th centuries
Lamia HADDA
- P. 1129** **ID 158**
 Art and nature in a lost garden: the Park of the Caracciolo Prices in Avellino
Francesco ZECCHINO
- P. 1139** **ID 160**
 History and topicality of the historic earthquake-resistant timber frames: the Ischia's examples
Marina D'APRILE, Margaret BICCO
- P. 1149** **ID 161**
 The ideological approach to the study of italian rural architecture in first half XX century
Emanuele ZAMPERINI, Valentina CINIERI
- P. 1159** **ID 162**
 Design Tools and methods for the enhancement of cultural itineraries and thematic cross-border pathways
Roberto DE PAOLIS
- P. 1169** **ID 163**
 Overview of the waterfronts features: a perceptual approach
Virginia PUYANA ROMERO, Maria DI GABRIELE, Daniel FERNÁNDEZ ÁLVAREZ, Luigi MAFFEI

- P. 1178** **ID 164**
The acoustics of underground places in Campania
Francesco SORRENTINO, Amelia TREMATERRA, Gino IANNACE
- P. 1184** **ID 165**
The eco-oriented redevelopment of the open spaces: the case of Juazeiro in Brazil
Raffaella DE MARTINO, Rossella FRANCHINO, Caterina FRETTOLOSO, Matteo NIGRO
- P. 1192** **ID 167**
Living landscape in the archaeological site: "La Bastida de les Alcuses"
Marina PUYUELO, Mónica VAL, Lola MERINO, Jaime VIVES-FERRÁNDIZ
- P. 1201** **ID 168**
Anima valens in corpore aegro: Paths of the Spirit in the Places of Health-Care
Anna MAROTTA
- P. 1211** **ID 169**
The Valencia Region La Luz de las Imágenes Foundation: a specific way of managing heritage
Camén D. QUINTERO
- P. 1219** **ID 170**
The restoration of the church-fortress of Vinaròs
Carles BOIGUES, Eladia BALLESTERO, Xevi LLUCH, Andrea GIMENO, Lluís JUAN, Santiago TORMO
- P. 1227** **ID 171**
Conception, design and installation of the Luz de las Imágenes exhibition: 'Pulchra Magistri. The splendour of the Maestrazgo in Castellón'
Santiago TORMO, Xevi LLUCH, Andrea GIMENO, Lluís JUAN
- P. 1235** **ID 172**
Benefits of a global project about movable heritage
José Luis NAVARRO, Carmen D. QUINTERO
- P. 1242** **ID 173**
From Daunii Archaeological Park to the Faragola domus romana: the new treasures of the old Ausculum
Mauro CAPRIOLI, Francesco MAZZONE, Mario SCARANO, Rosamaria TRIZZINO
- P. 1250** **ID 175**
The Barco Chigi in Ariccia
Mario PISANI
- P. 1256** **ID 176**
International researchworks about energy efficiency of historical heritage
Concetta GIULIANO
- P. 1264** **ID 177**
Castra of Benedictine origin in territory of Cassino and in the upper Volturno valley
Camilla DI FALCO
- P. 1272** **ID 179**
Ancient Pompeii sightseeing: intangible immersive technology and emotional maps
Marco BORRELLI

- P. 1280** **ID 181**
 Palenque: the Maya Pompeii
Giada LUISO
- P. 1287** **ID 182**
 Physical consistency and “immaterial life” of an architecture. The Amphitheatre of Pompeii: an exemplary case of historiography
Giovanni MENNA
- P. 1297** **ID 183**
 Ordinary and emergency: a possible new order through productive poles. The case of Piana del Sarno
Francesco COSTANZO
- P. 1302** **ID 184**
 Identification of the modal properties of a medieval tower next to a landslide
Dora FOTI
- P. 1312** **ID 185**
 Heritage discretize: the regional park of Matese
Luigi CORNIELLO
- P. 1324** **ID 187**
 The diffusion of churches with triconch in the mediterranean world
Danila JACAZZI
- P. 1335** **ID 188**
 A multidisciplinary cognitive approach aimed at the safeguard of the ruins of Mongialino's tower in Mineo (Sicily)
Mariateresa GALIZIA, Alessandro LO FARO, Mariagrazia SALERNO, Cettina SANTAGATI
- P. 1345** **ID 189**
 Use of new technique of image based aimed to perspective return
Laura INZERILLO
- P. 1353** **ID 190**
 Multi criterion decisions in fuzzy logic environment
Maria Cristina MIGLIONICO
- P. 1360** **ID 191**
 The historical drawing as a system of identity of a territory. The Vomero in the expansion project of the nineteenth century town
Maria MARTONE
- P. 1370** **ID 192**
 The “diaeta” in the roman home
Rossella BICCO
- P. 1375** **ID 193**
 Life and knowledge by glottology and graphics: disclosures of the ancient gamma greek letter
Andrea BUONDONNO, Alessandra CIRAFICI, Pasqualina LUONGO
- P. 1384** **ID 194**
 The design of the architecture, of the sculpture and of the botanical in the “Villa Comunale” in Naples
Paolo GIORDANO

- P. 1397** **ID 196**
The “agri+cultural” heritage” of “two Sicilies” Borbone house. The vineyard of “San Silvestro” farm in San Leucio (Caserta, Italy)
Andrea BUONDONNO, Gian Franco CAPRA, Eleonora GRILLI, Rosaria PARENTE, Nicola PISACANE, Pierclaudio ODIERNA, Riccardo SERRAGLIO
- P. 1406** **ID 199**
Durability of reinforced concrete and cultural heritage: the pompeian domus as emblematic cases
Claudia CENNAMO, Michela MONACO, Maria Teresa SAVINO, Salvatore SORBO
- P. 1415** **ID 200**
Designing the country in infrastructure areas. Area highway exit Candela, Foggia
Efisio PIZALIS
- P. 1422** **ID 201**
Davide Pacanowski a significant interpreter of modern architecture in the twentieth century
Riccardo SERRAGLIO
- P. 1432** **ID 202**
Around the Royal Palace of Caserta: the school building “Edmondo De Amicis”
Luciana ABATE
- P. 1442** **ID 203**
The practice of cult inside the Royal Palace of Caserta: the Palatine Chapel, the Santa Maria dei Sette Angeli Chapel in the Schiavi Battezzati district, the Santa Filomena Chapel in the Flora garden
Maria Chiara DE MARCO
- P. 1451** **ID 204**
Around the Royal Palace of Caserta: the new market square
Pasquale VAIANO
- P. 1461** **ID 205**
Rural Campania: from the Pantano of Sessa Aurunca to Centore village
Giuseppe Mario INFANTE
- P. 1471** **ID 206**
Subsidiarity and sustainability as a widespread cross-cutting approach to different anthropocentric events and aggregations
Flaviano TESSITORE
- P. 1477** **ID 207**
Waterways. From the past a resource for the future
Francesco MAIOLINO
- P. 1486** **ID 208**
Risk Management Planning. Phlegrean area and the case study of Bacoli
Giuseppe GUIDA, Giovanni BELLO
- P. 1493** **ID 209**
Design and representation of landscape of “Terra di Lavoro”
Vincenzo POLLINI
- P. 1503** **ID 210**
Seismic safety of the “Corpus Domini” bell tower
Mariateresa GUADAGNUOLO, Mariano NUZZO, Giuseppe FAELLA

- P. 1511** **ID 211**
Paper's Title Rural design and territorial development
Caterina BELARDO
- P. 1519** **ID 212**
Sorrina Nova (VT): traces of an intangible city. The contribution of aerial archaeology
Davide MASTROIANNI
- P. 1528** **ID 213**
Knowledge and representation as instruments for evaluation of retrofitting in the historic cities.
The jewish Ghetto in Rome
Gerardo Maria CENNAMO
- P. 1539** **ID 214**
Traditional materials, innovative performance
Antonella VIOLANO, Monica CANNAVIELLO, Luigi DE SIMONE
- P. 1545** **ID 215**
Smart as intelligent
Francesca VERDE
- P. 1552** **ID 216**
Eco-friendly materials and technologies: the added value of urban transformation
Antonella VIOLANO, Lucia MELCHIORRE
- P. 1560** **ID 217**
"Local" in the Space of Reconstruction of Meanings. Ingushetia as a Phenomenon of "the North
Caucasus Identity"
Elena SHLIENKOVA, Zarema KALIMATOVA
- P. 1568** **ID 218**
The role of sustainable technologies in the design
Antonio BOSCO, Giuseppe CACCIAPUOTI
- P. 1575** **ID 219**
Earthen Architecture in the Draa Valley
Paola RAFFA
- P. 1583** **ID 220**
Nisida, the memory of a myth
Claudia CENNAMO, Ornella ZERLENGA
- P. 1593** **ID 221**
The tie rods in historical handbooks
Luigi MOLLO
- P. 1602** **ID 222**
The observation of Michelangelo's Moses monumental complex at the Church of St. Peter in
Chains and in virtual reality
**Cesare CUNDARI, Fabio BABILONI, Gian Maria BAGORDO, Giancarlo CUNDARI,
Maria Rosaria CUNDARI**

- P. 1608** **ID 223**
From Pompeii to Çanakkale: the Official museum project proceeds his way
Claudio GAMBARDELLA
- P. 1615** **ID 224**
The complex and multidimensional representation of the landscape on the Volturno river between Capua and Castel Volturno
Alessandro CIAMBRONE
- P. 1625** **ID 225**
Places of identity in Campania; Traces represent the area between reason, regions and existing buildings
Ludovico MASCIA
- P. 1632** **ID 226**
Staircases as a representative space of architecture
Ornella ZERLENGA
- P. 1642** **ID 227**
Casagiove, Santa Maria Capua Vetere: a periphery and a road on centuries of Ancient Capua
Massimiliano RENDINA, Giuseppe MASCOLO
- P. 1650** **ID 228**
Complexity and landscape: interactions and analogies
Giuseppe D'ANGELO
- P. 1659** **ID 229**
Heritage, Development and Equality: a proposal of indicators to measure the contribution to gender equality in international projects of cooperation for development based on architectural heritage interventions
Isabel TORT AUSINA, Jaume MONFORT I SIGNES
- P. 1665** **ID 230**
Route 66: analysis of a famed cultural corridor in the United States and implications for heritage tourism
David LISTOKIN
- P. 1675** **ID 232**
Macro reality of complex territorial identity. Pompeii among sign, track and history
Rossella BICCO, Ludovico MASCIA, Pasquale VAIANO
- P. 1685** **ID 233**
Archipelago city: an inhabited desert?
Silvana SEGAPOLI
- P. 1692** **ID 234**
Technical and scientific protocol for the multitemporal airborne surveying
Carmine GAMBARDELLA, Nicola PISACANE, Pasquale ARGENZIANO, Alessandra AVELLA, Stefano BASTONI, Giuseppe CASBARRA

- P. 1716** **ID 235**
Technological evolution of the survey: a methodological approach to the Mobile Mapping Systems
Lina ABATEGIOVANNI
- P. 1726** **ID 236**
Reading the territory. Signs graphics and remote sensing images
Rosaria PARENTE
- P. 1730** **ID 237**
Regeneration of Carditello
Gilda EMANUELE
- P. 1736** **ID 238**
Recovery plan and redevelopment of an area in 'Salice'(Foggia)
Gianluca CIOFFI
- P. 1744** **ID 239**
The Sanfelician portal in neapolitan architecture of XVIII century
Vincenzo CIRILLO



XII International Forum

Le Vie dei
Mercanti

BEST PRACTICE IN
HERITAGE
CONSERVATION
MANAGEMENT



FROM THE WORLD TO POMPEII

Aversa / Capri, 12,13,14 June 2014

Best practice in heritage conservation and management From the world to Pompeii

Carmine Gambardella

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[...]

*Non vivere sulla terra come un inquilino
O come un villeggiante stagionale.*

Ricorda:

*in questo mondo devi vivere saldo,
vivere*

come nella casa paterna.

*Credi al grano, alla terra, al mare
ma prima di tutto – all'uomo.*

*Ama la nuvola, il libro, la macchina,
ma prima di tutto – l'uomo.*

*Senti in fondo al tuo cuore
il dolore del ramo che secca,
della stella che si spegne,
della bestia ferita,
ma prima di tutto – il dolore dell'uomo.*

*Godi di tutti i beni terrestri,
del sole, della pioggia e della neve,
dell'inverno e dell'estate,
del buio e della luce,
ma prima di tutto godi dell'uomo.*

[...]

[...]

*Don't live in the world as if you were renting
or here only for the summer,
but act as if it was your father's house...*

*Believe in seeds, earth, and the sea,
but people above all.*

*Love clouds, machines, and books,
but people above all.*

Grieve

*for the withering branch,
the dying star,
and the hurt animal,*

but feel for people above all.

*Rejoice in all the earth's blessings –
darkness and light,*

*the four seasons,
but people above all.*

[...]

NAZIM HIKMET

From: *Last Letter to My Son*

Moscow, 1955

Translated by Randy Blasing and
Mutlu Konuk

With Best Practice in HERITAGE, the theme of this year's International Forum "Le Vie dei Mercanti", I would like to return to the centre of the issues of Man, hence the reference to the poem by Nazim Hikmet, who, in his interrelations with others and the responsibility that he assumes in academic, cultural and participatory contexts as well as in the governance of public affairs, has carried out or is planning the conservation, protection and regeneration of cultural heritage.

In order to conserve and manage the patrimony, an integrated approach is necessary in which different and resilient skills contribute to the development of the requalification and restoration projects, carried out by means of knowledge, sharing of decisions and proactive sharing, taking into account the social and environmental sustainability of interventions that should characterize the design method in all its aspects.

The international debate, in fact, is an opportunity to share good examples of conservation, management and enhancement of the archaeological heritage, architectural, landscape and environment through the integration of ideas and experience of specialists working in different disciplines and different geographical cultural contexts.

The key issue is the exchange of ideas and experiences in order to create a technological humanism, understood as a union between the cultural vitality that has characterized humanism and the Renaissance, producing the highest results in all fields of knowledge, and the possibilities currently offered by technological innovation to create platforms in support of knowledge.

Nevertheless, we must act with due care in the use of technology, asserting a predictory record. It is worth thinking of Leonardo, who with his will power "measured sand grain by grain just as mathematicians do", had already laid the conceptual foundations of digital knowledge several centuries earlier. The "grain / pixel" is the carrier/code, and therefore multidimensional, capable of integrating knowledge and skills in relation to the measurement and representation of cultural heritage objects in different scales from the city to the territory of the landscape, the code with the potential to interact and integrate data and information capable of providing results that are always implemented in the pipeline that Leonardo himself refers to as "the endless reasons that are by nature" and which wants to strive to give useful answers to the progress and development of society.

That said, digital technology allows us to have dynamic and biological knowledge. Dynamic since it is possible to discretize, measure and continuously monitor the inherited patrimony in order to re-establish it through knowledge, as biological knowledge and skills acting homeostatically, regenerating, through remedial agents of the genetic heritage in the same way as of stem cells on the roots, identity, contamination, historical social urban fabric, the territorial infrastructures, the environment, the production of art work.

Increasingly, indicating that the fate of the city, the territory is linked to the ability of the people to create Knowledge Factories, to transform its own resources, used as raw materials, with a production cycle that is only valid when the human capital is high, I have proposed a synergetic alliance between the University, Business, Public Administration and institutions bearers of great ethical and social values to make a competitive territory.

Some examples that we have analyzed as an interdisciplinary research group are paradigmatic and among them, it is worth mentioning, Pompeii, the vast territory of the Province of Caserta with an extra extension falling within the boundaries of the Province of Naples which borders the Terra dei Fuochi, the design of anaerobic biodigester of Santa Maria Capua Vetere and the Bourbon Palace of Carditello.

More recently, starting from Pompeii, we have surveyed with sensors such as aviation transported Lidar, Hyperspectral, Thermal not only the area of the excavation site but the entire City.

The complex representation activities of the sensors mounted on aircraft of the Guardia di Finanza and the cartographic data processed in the laboratory are merged into a "data cloud and monitoring knowledge" that with the innovative mobile mapping technologies of Topcon allowed us to compare surveys and aerial monitoring with terrestrial data. (Fig. 1)



Fig. 1: Pompeii Data cloud and monitoring knowledge.

Even for a larger-scale survey and monitoring with an entire bounded territory such as Terra dei Fuochi, suffering from serious pollution, we used the above systems to acquire knowledge aimed at the regeneration and protection of the landscape, the environment and products of the food chain and biological waste disposal system that generates energy and, therefore, excludes the pollution that comes from the combustion of other types of plants. (Figg. 2-5)

The anaerobic bio-digester is also an opportunity to redesign the relationship between the City and surrounding territory up to assuming a wider project involving the integrated coexistence of cultural, social and economic functions in a unitary model of sustainable development.

(Figg. 6-9)

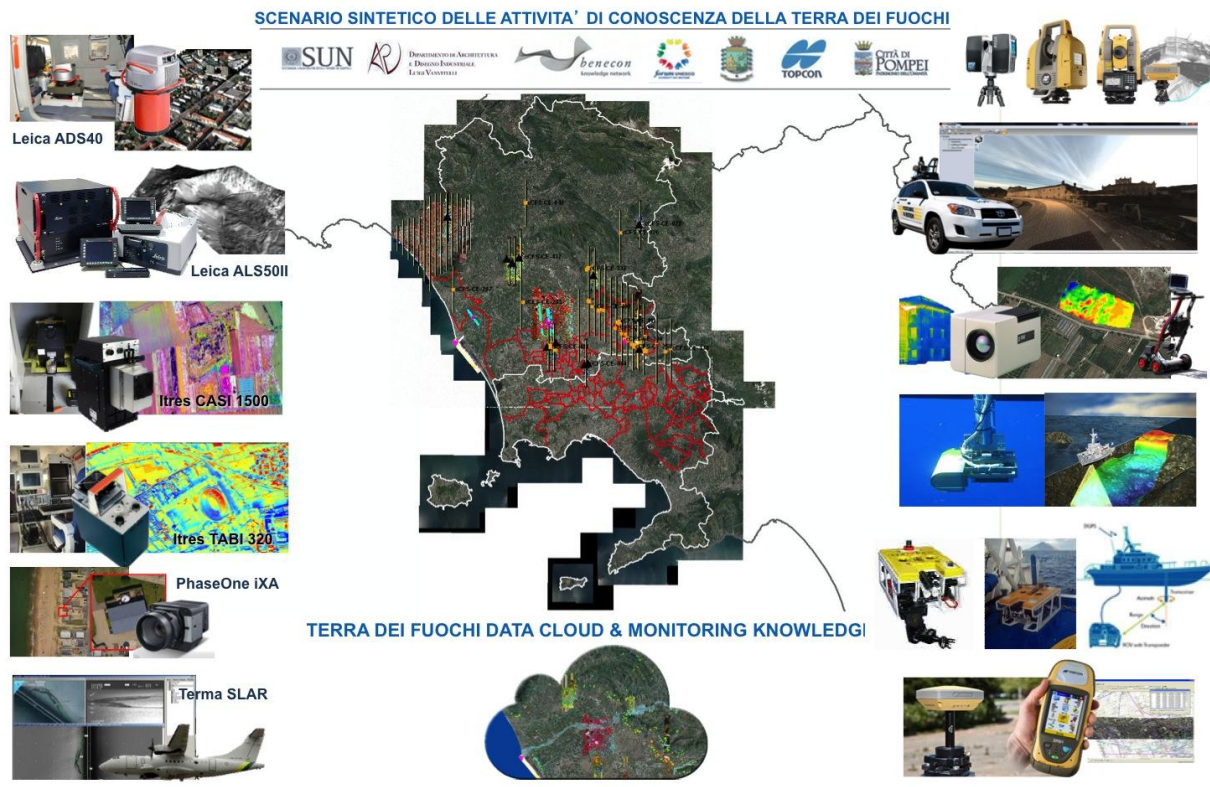


Fig. 2: Terra dei Fuochi. Land Data Cloud and Monitoring Knowledge

Attività di Tutela Ambientale

Esecuzione di un volo di telerilevamento iperspettrale Itres CASI1500

Report di un volo operativo con sensore
Itres CASI 1500

volo 28 febbraio 2013

aeroporto di riferimento
Pratica di Mare (Roma)

inizio lettura GNSS
12.00

inizio acquisizione IMU
12.45

ora del decollo
13.00

ora dell'atterraggio
15.20

fine acquisizione IMU
15.25

fine acquisizione GNSS
16.00

equipaggio

primo pilota T.Col. Stefano Bastoni
secondo pilota Cap. Matteo Montanari
operatore M.O. Giuseppe Martusciello
operatore App. Carlo Caccavale

miglia nautiche percorse
363,73

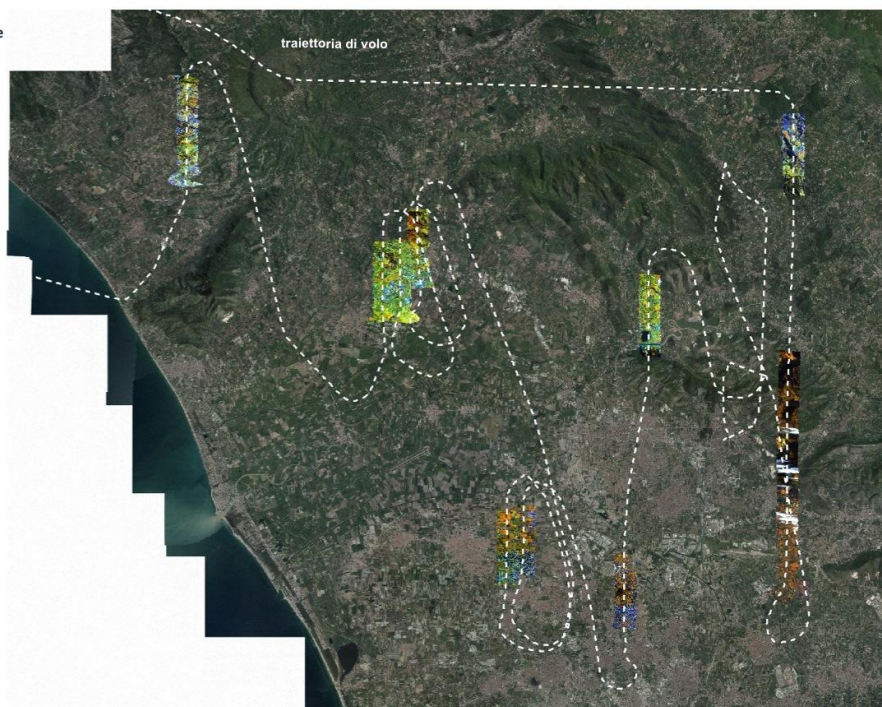
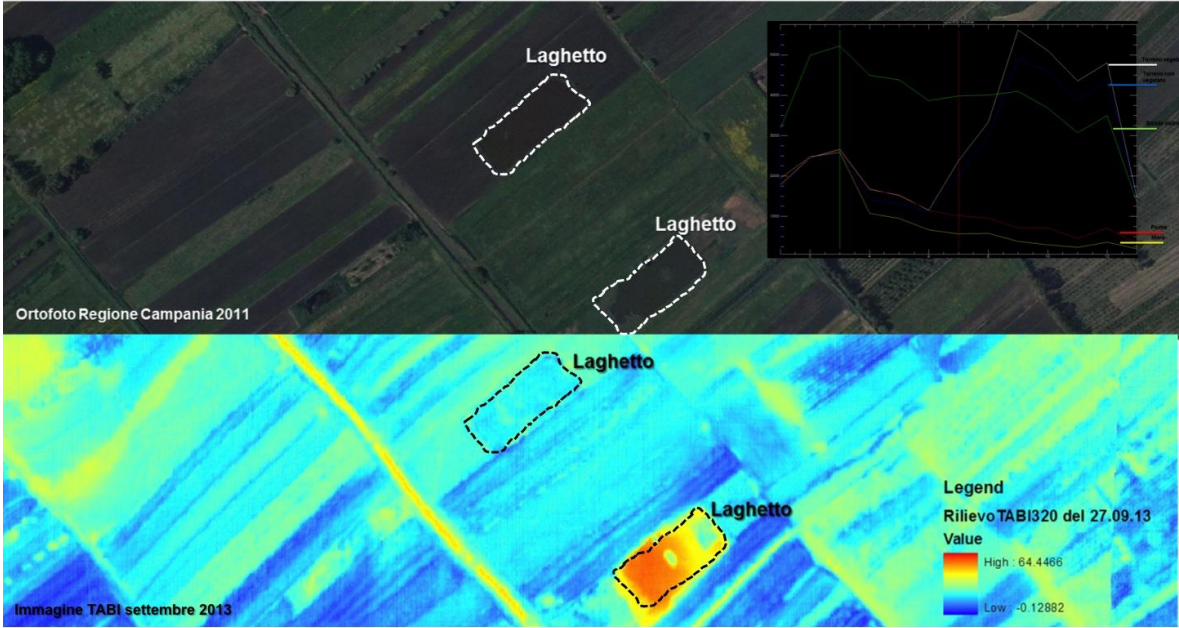


Fig. 3: Terra dei Fuochi: Hyperspectral remote sensing survey with ITRES CASI 1500 Sensor

Scansione termica dei 'laghetti' artificiali ex cave di sabbia



Gli specchi d' acqua registrati nell' ortofoto del 2011 hanno una temperatura superficiale variabile rispetto alla temperatura media del terreno contermina. A distanza relativa di pochi metri, due specchi d' acqua simili hanno temperature superficiali diverse.

Fig. 4: Terra dei Fuochi. Thermal map of a sand quarry.

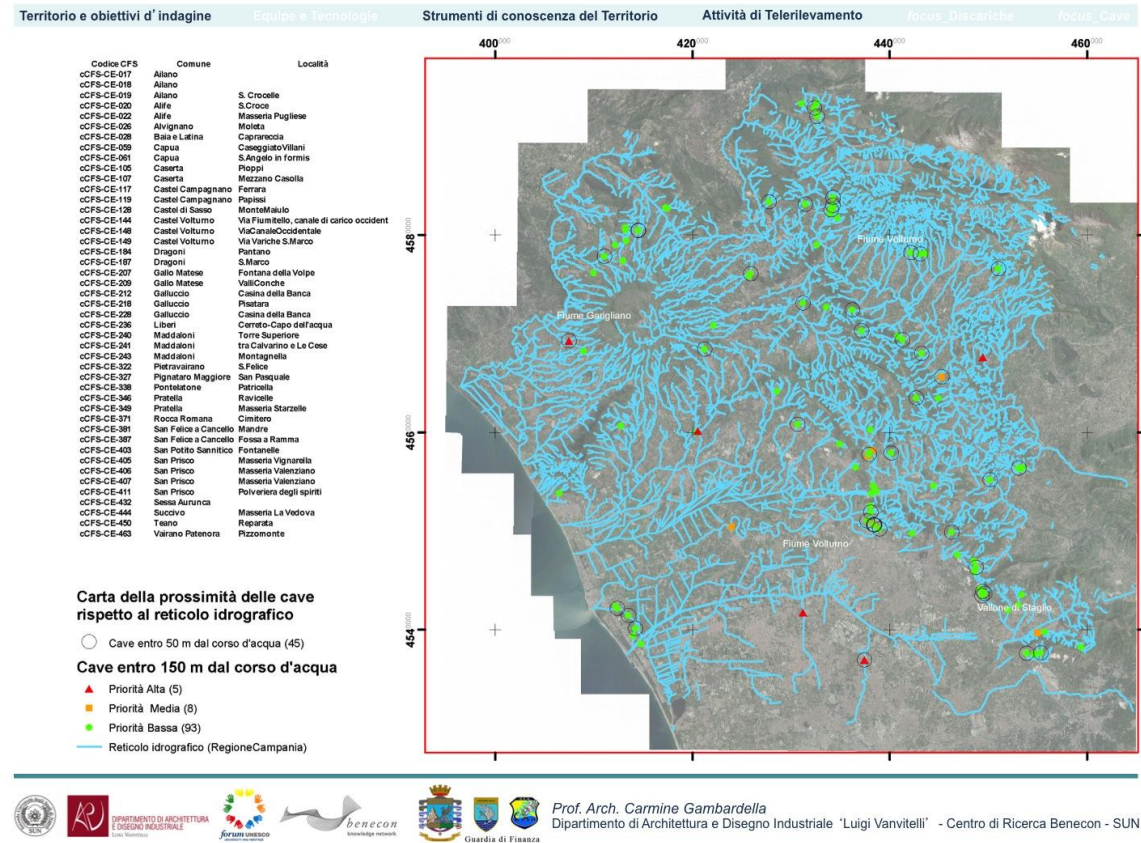


Fig. 5: Terra dei Fuochi. Geographic Information System. Waterways and quarries layers

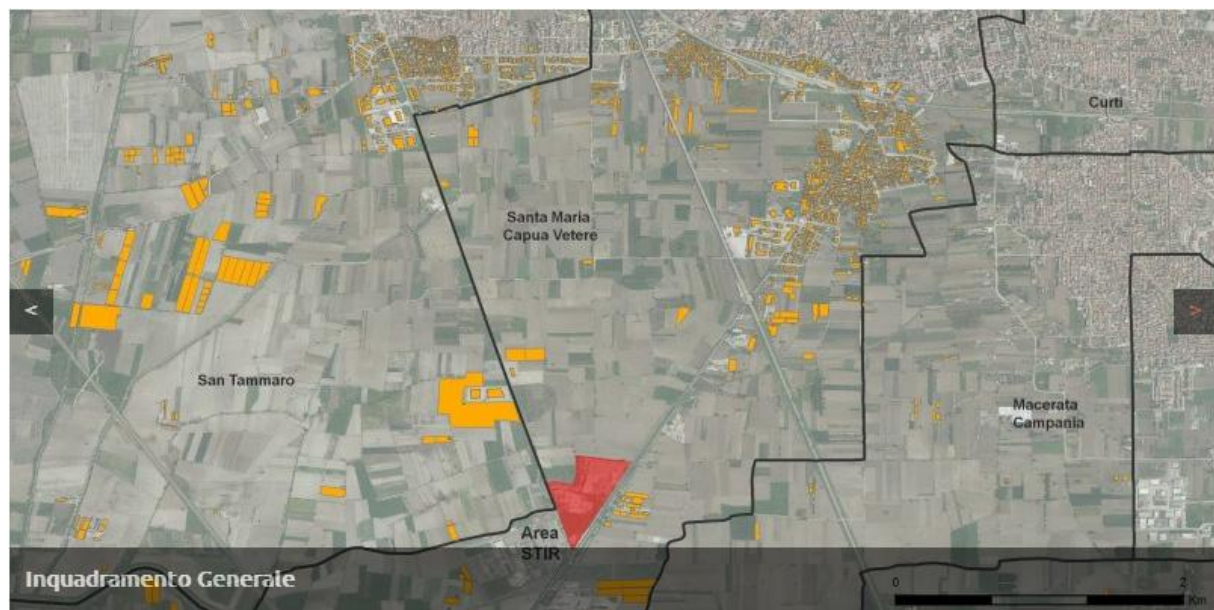


Fig. 6: Plant Anaerobic Digestion in Santa Maria Capua Vetere. Land overview.



Fig. 7: Plant Anaerobic Digestion in Santa Maria Capua Vetere. Period of construction of buildings.

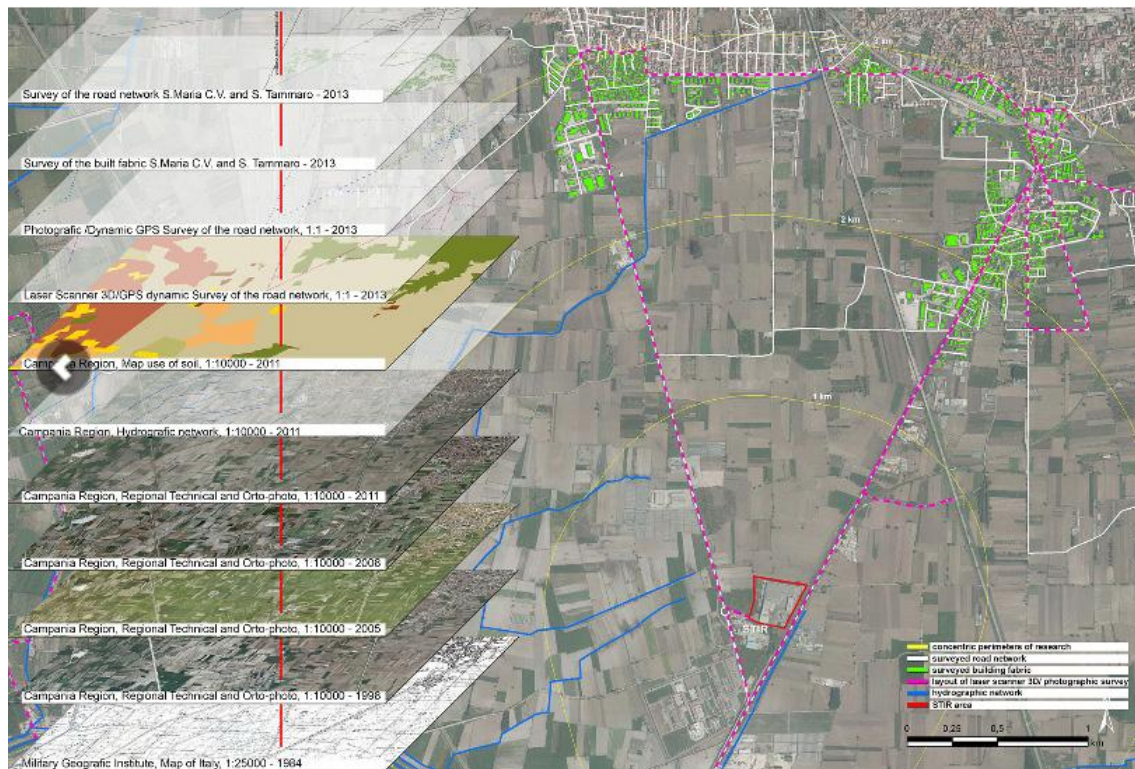


Fig. 8: Plant Anaerobic Digestion in Santa Maria Capua Vetere. Knowledge layers.

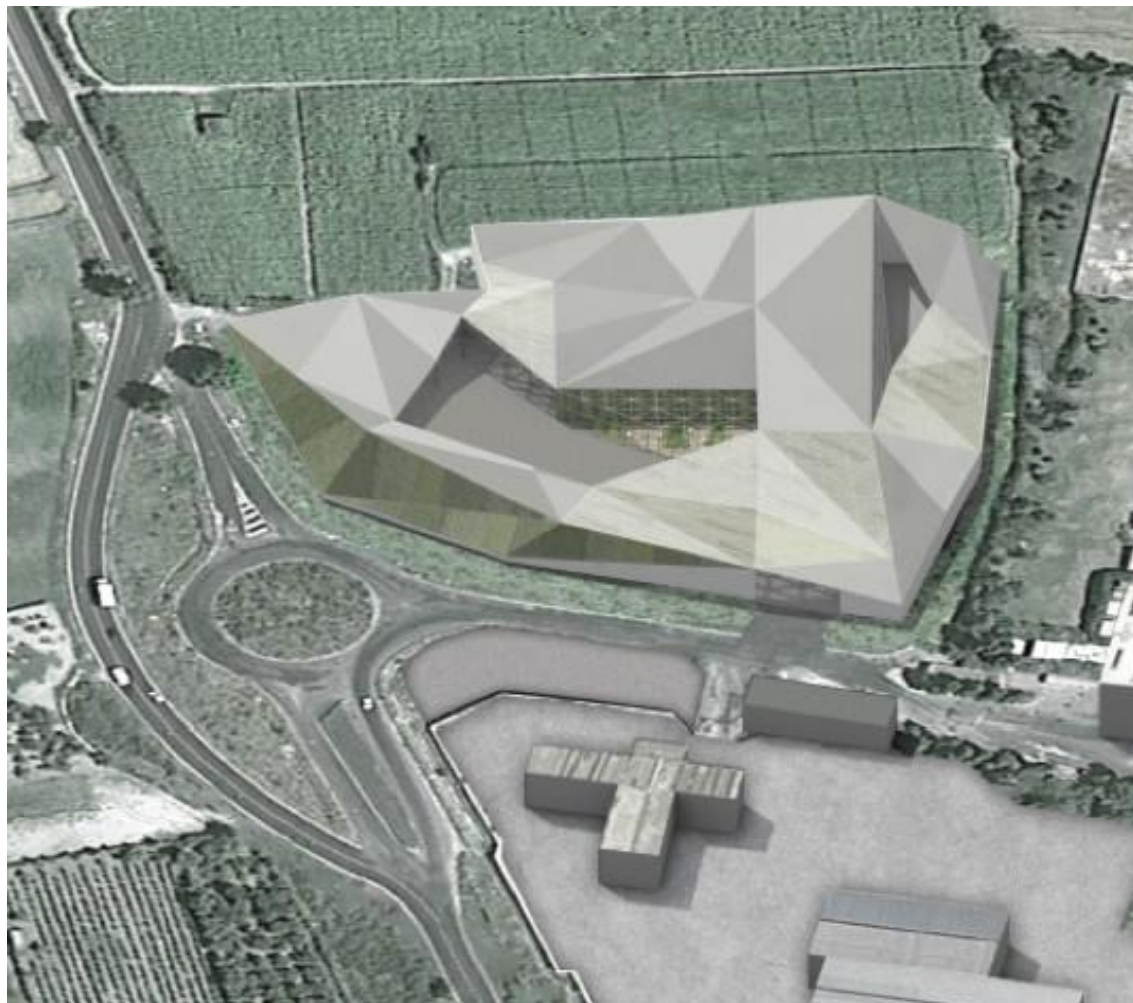


Fig. 9: Plant Anaerobic Digestion in Santa Maria Capua Vetere. Project.

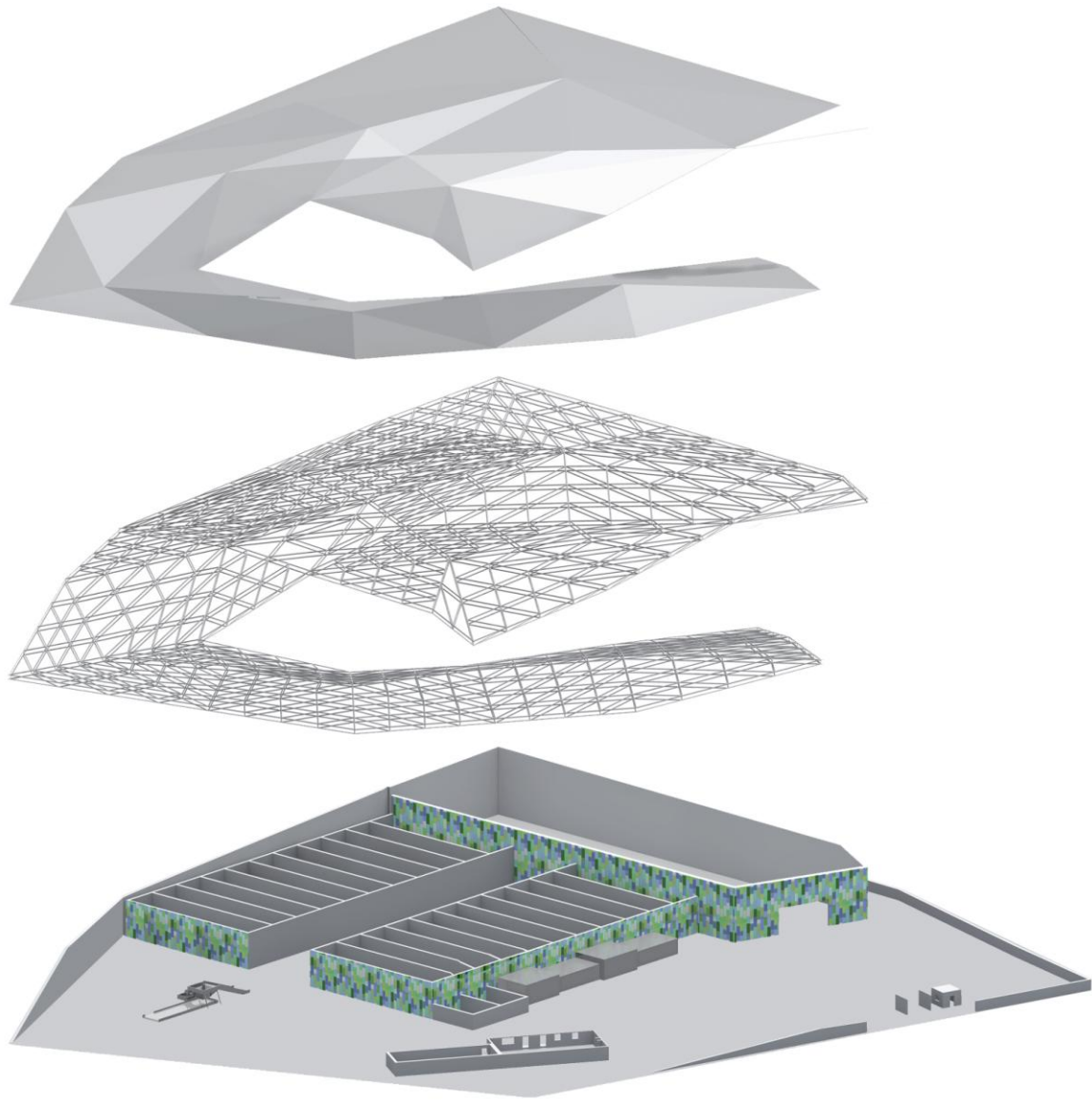


Fig. 10: Plant Anaerobic Digestion in Santa Maria Capua Vetere. Project.

In addition, on a monumental scale, with the Royal Palace of Carditello , we assumed not only the restoration of the architectural complex itself but also the regeneration of the foundational functions of the Factory, endorsing the current needs of the community, the functions promoted by the Bourbon project to create innovation and development in agriculture.

(Figg. 11-14)

Centro Internazionale Smart Territories
GIARDINI_VIGNETO



Rendering



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Rendering



Figg. 11-12: Carditello Royal Palace: rehabilitation project.

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Rendering



Figg. 13-14: Carditello Royal Palace: rehabilitation project.

In conclusion, taking the initial assumption on the primacy of thought, it is worth highlighting that technology allows thought to enter the body of Architecture and the Territory, to control the phenomena of change in progress, to capitalize integrated diachronic and synchronic information and data to provide a material that is not addressed by a reductive broad vision, full, but that allows to analyze the mind of Man from the building blocks that make up the matter in both its generative factors as well as the processes of change that are realized over time.

Therefore, I am convinced that by engaging in a process aimed at increasing the scientific welding between humanism and technology, we will achieve the expected results for a “best practice in HERITAGE” and good governance for the protection and preservation of the heritage inherited.



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2006-2009 - Vice-Chancellor for Relations with Institutions Second University of Naples.

2003-2009 - Director of Department of the Culture of Design Second University of Naples.

2003-2006 - Delegate of the Chancellor of the Second University of Naples for Orientation, Mentoring and European Projects.

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