

Fabbrica della Conoscenza

Carmine Gambardella



La scuola di Pitagora editrice

Fabbrica della ConoscenzaCollana fondata e diretta da Carmine Gambardella

Scientific Committee:

Federico Casalegno

Professor, Massachusetts Institute of Technology, Boston, USA.

Massimo Giovannini

Professor, 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 Alessandro Ciambrone Fabio Converti Nicola Pisacane Manuela Piscitelli

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)

Best practices in heritage conservation and management. From the world to Pompeii Le vie dei Mercanti XII Forum Internazionale di Studi

editing: Manuela Piscitelli

© copyright 2014 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 978-88-6542-347-9

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. Le vie dei Mercanti _ XII Forum Internazionale di Studi Aversa | Capri June 12th- 14th, 2014

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

Ali Abughanimeh,

Director of the Department of Architecture, University of 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, USA

Joaquin Diaz,

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

Yankel Fijalkow,

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

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

Tatiana Kirova,

Professor, Polytechnic of Turin, Italy

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

Andrea Maliqari,

Dean of the Faculty of Architecture, Polytechnic University of Tirana

Maria Dolores Munoz,

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

Raymond O' Connor,

President and CEO TOPCON Positioning Systems

Jorge Pena Diaz,

Professor, Decano de la Facultad de Arquitectura, Instituto Superior Politécnico José Antonio Echeverría, Cuba

Giovanni Puglisi,

Professor, Rector IULM, and President, Italian National Commission for UNESCO

Michelangelo Russo,

Professor, University Federico II di Napoli, Italy

Paola Sartorio,

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

Lucio Alberto Savoia,

Ambassador, General Secretary, Italian National Commission for UNESCO

Elena 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

Manuela Piscitelli Responsible for the organizing process of the scientific proposal

Alessandra Cirafici (coord.), Caterina Fiorentino (visual image), Rossella Bicco, Ludovico Mascia, Pasquale Vaiano 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.

Peer reviewScholars 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.

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

2

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 FILIPPUCCI, 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 tecnologies 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 BELĆÁKOVÁ, 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 BREDA
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: magnificient 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'Elian 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

Giovanni CIAMPI, Antonio ROSATO, Michelangelo SCORPIO, Sergio SIBILIO

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. Multifuncional 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
1.700	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 GIANNOCCARO
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 20 th 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 holyday 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 stengthening 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. 1033ID 142The Trgovski Dom in Gorizia by Max Fabiani. Survey and simulation of the Petrarca HallAlberto SDEGNO, Giovanni FRAZIANO, Silvia MASSERANO, Dimitrij POZAR

P. 1041 ID 143

From point cloud to archaeology: the case study of Villa dei Mistery 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 Gaspare 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 Raffaela 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 Camen 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 PITZALIS
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 Officiamuseumed project proceeds his way Claudio GAMBARDELLA
 P. 1615 ID 224 The complex and multidimensional representation of the landscape on the Volturno river

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

between Capua and Castel Volturno

Alessandro CIAMBRONE

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 SEGAPELI

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







Aversa / Capri, 12,13,14 June 2014

Revitalization of Port Area as an Effort to Preserve the Identity of the City Comparative Studies: Clarke Quay-Boat Quay Singapore Albert Dock Liverpool and Sunda Kelapa Jakarta

Ari Widyati PURWANTIASNING,¹ Ashadi HADIWINOTO,² Luqmanul HAKIM³

⁽¹⁾ Department of Architecture, Faculty of Engineering, Universitas Muhammadiyah Jakarta, Jakarta, Indonesia

arwityas@yahoo.com

(2) ashadihadiwinoto@yahoo.co.id

(3) hakeem_mn@yahoo.com

Abstract

Literally, revitalization has been regarded as an understanding of an activity or an effort to vitalize back an area within city or part of the city which was vital before. An area need to be revitalized because this area had been suffered or has degradation in infrastructure, utilities, as well as socially and economically. The process of revitalization of this area includes improving physical, economic and social aspects. Revitalization approach must be able to recognize and exploit the potential of the environment (history, meaning, unique location and the image of the place) that supports the local wisdom of an area or region. An effort of revitalization will support the identity of the city.

An activity of an area's revitalization as well as building's revitalization should be applied through a variety of aspects from physical and non-physical. In this case, physical aspects will include building form itself and its infrastructure, and non-physical aspect will be related to social, economic and culture of the community who live within surrounding area. It is intended to deliver positive impact for the surrounding area, particularly to enhance the quality of the environment and the community as well.

In the theory of revitalization which has been related to urban planning, revitalization could be categorized as a highly complex activity. In the implementation of revitalization, it is not only related to buildings, but also related to the area and the surrounded environment which will be linked to urban planning.

This paper is a comparative analysis between the three case studies in the application of revitalization concept for port area which has been known as an icon as well as an identity of the city. Case study of Clarke Quay-Boat Quay Singapore has been conducted as a succeeded case study of revitalization for port area in Singapore. On the other hand case study of Albert Dock Liverpool has been conducted to represent as an old area which has been designated as grade 1 of conservation area in Liverpool. And finally, the third case study is Sunda Kelapa Port in Jakarta, as an old town of Jakarta which had been designated as a conservation area in Jakarta. As a conclusion, it will be delivered a characteristic of three of port areas as an identity of the city.

Keywords: revitalization, port area, preservation, identity of the city

1. Introduction

In the activity of conservation either area's conservation or building's conservation, there are some terms to be underlined as follow: conservation, preservation, adaptation, conversion and revitalization.

Either revitalization or conservation, both of them have the same objective. Those activities have aimed to conserve and preserve historical sites/ areas or historical old building which become an icon or an identity of the city. Although both of those activities have the same objective, they are also having different concept in the understanding and the implementation. If the concept of conservation will be implemented to an object such as old buildings for example, on the other hand the concept of revitalization will be implemented not only to old buildings but also to historical sites/ areas. Literally, revitalization has an understanding as an activity to re-vitalize a function of an area which is lack of utility and not livable anymore.

Purwantiasning in her research about Conservation and Economic Development (2004) stated that conservation can be defined as a breathing life into old buildings, especially those that have the character of historical and has a meaning for a city. This surely cannot be left without any effort to preserve it. But the old buildings will not only require preservation efforts without referring back to the original function of the respective historical masterpiece. To this old buildings need to be breathed a life, thus that the figure of concrete is no longer like meaningless blister plant, but could be kept alive and give each image in accordance with its character.

Rypkema and Tiesdell (1996) in their book about revitalization of old buildings in cities, alleging that the old historic buildings mostly does not have adequate utilities so that the building is not feasible and does not have a value in accordance with their respective functions. The weakness in most of the old buildings in the end causing the buildings not functioned as it should be. With all those problems, revealed various efforts to revive old buildings in some countries that have historic building legacies. One example is in United Kingdom especially in the city of Liverpool, the town that has a lot of old buildings. From this background, then the research was started so that the success of the city of Liverpool, one of the cities in the United Kingdom which has many old buildings may be adopted by Indonesia, as a country which also has many old buildings were abandoned. Certainly can always remember about a statement that a great nation is a nation that always appreciates its legacies of history.

Furthermore, Purwantiasning in her article about "Aplikasi Konsep Konservasi Pada Kawasan Bantaran Sungai Studi Kasus: Clarke Quay" – "An Application of the Concept of Conservation on the River's Banks, Case Study: Clarke Quay", has discussed that the areas of conservation which have been regarded as an old historical sites with lack of utilities and not livable anymore, could be revitalized as a new place with new function. This effort will support the condition of social, economic and culture of the area. And as a result the succeed implementation will improve the quality of the environment as well as the quality of the human being within the area.

Revitalization is not only an activity which has been oriented to the physical solution, but also has an aim to enhance the economy of the community as well as their culture. To implement the activity of revitalization, there are some parties who need to be involved, because it will not work by government's fund only, the roles of the community and their involvement are important as well. It should be underlined that the involvement and the roles of community will become main component of the activity of revitalization.

Basically, the activity of area's revitalization in Indonesia has begun since 2001 which has been regarded as a sustainable program by central government which had delivered a stimulus fund to the local government. By delivering the program from central government, local government should be encouraged to enhance and improve the condition and the quality of historical sites within their city and could maintain their city as an identity of the city.

2. General Definition of Conservation and Preservation

In the 19th century, a jurist of the University of Copenhagen, Denmark, JJA Worsaae said that, "Big nation is a nation that does not just look at the present and the future, but would like to turn to the past in order to see their passed historical journey". Similar to the speech above other expression emerged which confirmed by philosopher Aguste Comte with his tagline "SavoirPour Prevoir", which means studying the past, see the present, to determine the future. Looking at the past that expressed by looking the physical existence of ancient building is certainly not only by seeing the figure of physical building solely, but the value of its history which attached to and wrapping it as a culturally meaning. Because the appearance of this meaning-wrapper can joined to determining the identity for urban area functioned in the future.

However, the problem that arises is how close we will be able to understand the term "Conservation", which is now has undergone a change comes up with a new term, "Old-Historical Building". In fact the

term conservation and preservation itself, has been used with various meanings. Preservation is a type of intervention aims to protect and repair of historic buildings, and in general the preservation term is widely used in America (USA). Similarly, the Conservation is an action to keep intact to as much as possible of the existing historic building's elements, one of them is with the traditional repair method, or with synthetic materials and current technology, and the term of conservation is more widely used in the UK and Australia (Larsen, 1994). With its diversity of understanding, finally other opinions appearing regarding about the preservation term as an effort to create or bringing back something where exactly as the original state without any change, including efforts to prevent the usage and set the direction of development in the future. Even in the Burra Charter, conservation definiton may include all maintenance activities and in accordance with local conditions and situations and may also include teh act of: preservation, restoration, adaptation, reconstruction and revitalization (Purwantiasning, et al, 2013).

3. Illustration of Revitalization

Revitalization in Indonesia could be defined as an activity to preserve cultural heritage without doing any changes. For example, the activity of revitalization in Indonesia could be shown in the revitalization of Prambanan Temple in Central Java. As one of impact from natural disaster in 2006 – earthquake – the revitalization of Prambanan Temple was aimed to restore the authenticity of the cultural heritage of Prambanan Temple and to strengthen the structure which could be accounted in historical aspect, archaeological aspect as well as the technical effort in preserving a cultural and historical heritage. On the other hand, Borobudur Temple also one of historical temple which had been revitalized, but these days Borobudur Temple had degraded in quality, thus Borobudur needs to be revitalized again. Local government as well as Central Government have concerned with this condition, because Borobudur Temple has been regarded as the biggest Buddhist Temple which has high historical value. The potential spiritual value of Borobudur Temple and the surrounding environment have encouraged government either local or central to get some funding from many sources either from local or international who concern about historical heritage

The activity of building or area revitalization could be implemented through some aspects from physical or non physical. Physical aspect will cover the form of the building itself including the infrastructure within the building and non physical aspect will be related to social aspect, economical aspect and cultural aspect from the community who live in the surrounding areas of historical site. It is aimed to give positive impact to the area itself and surrounding area, particularly to improve the quality of the environment as well as the community. Thus could be concluded here, that the activity of revitalization should be related to the role and involvement of the community itself. The needs and interest of the community could be delivered into this activity. The program itself could be combine one to another within community development program through revitalization program.



Fig. 1: Complex of Fatahillah Museum which is regarded as a part of Jakarta Old Town. This area is one of designated conservation area which had been chosen by government as an object for revitalization of historical heritage.

Source: Private documentation, 2013

4. Revitalization of Historical Site

In the theory of revitalization, revitalization cannot be separated from urban planning. Related to urban planning, revitalization could be defined as a complex activity which should be related to some

aspects and parties. In the implementation, revitalization is not related only to the building, but also related to the surrounding area and environment within it. In the implementation of revitalization, it should carry out through several stages and will require certain period of time. It because in this activity will need some different thought and understanding in some aspects. Stages in revitalization will cover some important things as follow:

1.1 Physical Intervention

Physical intervention is an initial physical revitalization activity and will be implemented in stages, will cover the improvement and enhancement of the quality and physical condition of the buildings, green line, transportation system, signage and open spaces within historical site. Referring to the statement that image of the area is related to visual condition of historical site, thus this physical intervention will be needed to attract visitors. Issue of environment particularly sustainable environment become an important matter, thus this physical intervention should concern about environmental context.

1.2 Economical Rehabilitation

Revitalization which has been initiated with the process of urban artefact rejuvenation should support the process of economical rehabilitation activity. The improvement and enhancement of physical area in short period should accommodate economical activities either informal or formal (local economic development). These economic activities should enhance the value of urban area. In the context of revitalization, there should be delivered mixed use function within historical sites which will support the activities of economical and social within area (new function or new vitality).

1.2 Social Revitalization

The successful of revitalization could be indicated by the environment itself, the environment should become an interesting place to be visited, the environment should be a liveable place for the community surrounding historical area. It is not about a beautiful place after revitalization, but it is about how the place becomes an identity of the city which could bring positive impact to improve the quality of life for the community either social life of the community or economical life of the community.

Ridwan Kamil in his article has stated that an area could be revitalized if the place has some reasons as follow:

- a. Degradation of economical activity
- b. Degradation of spatial and physical quality of the buildings
- c. Degradation of the image of the historical area
- d. Lacking of area's infrastructures

5. Case Study of Clarke Quay and Boat Quay

Boat Quay and Clarke Quay is one of several conservation areas in Singapore. This area has been designated as an area of conservation since many years ago. Today the area of Boat Quay and Clarke Quay become place of interest for tourist either domestic or international. This area had been changed from an old port area to be an interesting commercial and business area in Singapore.

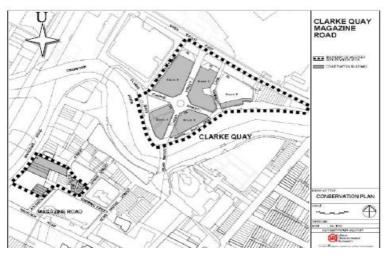


Fig. 2: Map of Clarke Quay and Boat Quay area. This area had been designated as conservation area in Singapore

Source: Urban Redevelopment Authority, 2013

Condition of this area before revitalization was very bad; Singapore River was a dirty river which supports the lacking of infrastructure of this area. Boat Quay and Clarke Quay used to be a port area which had many fishermen's boats and local traders. This condition had made the river full of economical activities and the condition of the buildings all the way Singapore River was very bad. The buildings were lack of utility, the areas were lack of infrastructure, and the buildings were almost completely destroyed. This condition had encouraged government to see the potential of this historical site as port area. By delivering revitalization program, the area of Clarke Quat and Boay Quay had been changed dramatically; the improvement of building appearances, the quality of economical aspect, social aspect as well as cultural aspect had been improved gradually.

The activity of revitalization within Boat Quay and Clarke Quay was based on conservation consideration from Urban Redevelopment Authority (URA) which has a specific criteria and requirement to decide which buildings of areas that feasible to be preserved or conserved. An area could be designated as an area of conservation if the area has some criteria such as specific character, historical value; the area will contribute in enhancing and improving the quality of the buildings as well as the surrounding area.



Fig. 3a, 3b, 3c: The condition of Boat Quay and Clarke Quay before revitalization Source: Urban Redevelopment Authority, 2013



Fig. 4: Colourful buildings within area of Clarke Quay Source: Private Documentation, 2013

Based on the above requirements, the area of Boat Quay and Clarke Quay had been designated as a conservation area, because this area have specific historical value and this area could be regarded as a combination of several cultures from Chinese, Indian, and Malay. It has been shown in the form of the buildings within area. As a result of the revitalization of this area, this area becomes colourful and livable, and become an interesting place to be visited as a tourism place.



Fig. 5a, 5b: Buildings within area of Boat Quay, the buildings used to be warehouse of port area, but today those buildings had been revitalized become new function as bars, restaurants, and cafes. Source: Private Documentation, 2013

6. Case Study of Albert Dock Liverpool

Different country should have a different ambience and different environment. As the biggest port area in England, Albert Dock in Liverpool will represent the succeeded of the implementation of revitalization concept in England. As one of several designation area of conservation, Albert Dock in Liverpool has a specific character to be observed. As we recall, this port area has been known as a place that Titanic had been berthed many years ago before sinking.

Generally, city of Liverpool after World War II had been faced by destroyed environment including housing, business district and the city center as well. Within 1950s and 1960s, Liverpool had been encouraged to redevelop its city center and the neighborhood particularly housing for the community which is feasible and affordable such as flats. After the highly development within city within 1950s and 1960s, Liverpool had been declined economically and socially within 1970s and 1980s, it because the economical recession. This condition had affected the city of Liverpool. Liverpool became abandoned city in the past 1980s and become the highest unemployment city in England.

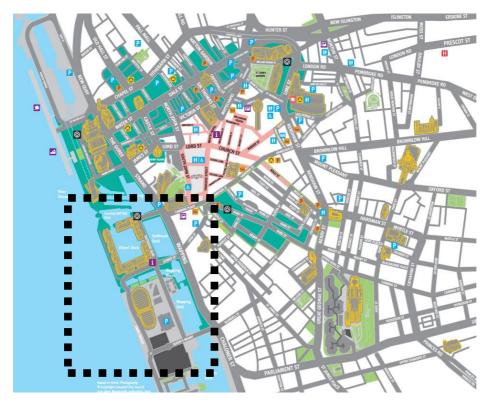


Fig. 6: Map of Albert Dock area. This area had been designated as conservation area in Liverpool Source: <u>http://www.myliverpoolconference.com</u>, 2013

On the other hand, in the same year 1980s, area Albert Dock which has been regarded as dock and warehouse area in Liverpool had been designated as a historical area by local and central government. The activity of revitalization in Albert Dock area has been implemented in stages. New function within area which covers leisure (bars, restaurants, cafes), business (rental offices, shops), residential (rental apartment, hotel) and entertainment (museums, gallery) had been delivered. This concept has a similar concept with port area in Singapore-Boat Quay and Clarke Quay. Central government had seen the potency of the area and develops it as a commercial area. By delivering a concept of revitalization within area, the historical site of Albert Dock will not altered and remains the same atmosphere without changing the character of the buildings and potency of the surrounding area.

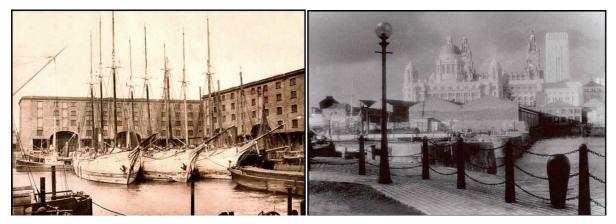


Fig. 7a, bb: pictures of old Albert Dock in 1930s and 1980s, left picture shows the condition of Albert Dock which full of fisherman boat, crowded and the buildings look like abandoned buildings. And the right picture shows the face of another side of Albert Dock area. Source: http://www.chesterwalls.info/gallery, 2013

It has been stated that area of Albert Dock has been part of Liverpool's landscape for over 160 years and remains a key feature of Liverpool's world-renowned Waterfront. Several old buildings within area of Albert Dock and Waterfront had been designated as a Grade I listed old building status in 1952 in Liverpool and become a conservation area in 1976. Those buildings had been transformed with new function in the early of 1980s and had been developed into the most popular tourist attraction and place of interest for domestic and international tourist. The changing of Albert Dock and the surrounding area will encourage most of private sectors to invest their fund. This condition will improve and enhance the quality of the area as well as the community within the surrounding area of Albert Dock. The historical and architectural importance of the Albert Dock become a special character of Liverpool City. This area of Albert Dock remains the same as an identity of the city of Liverpool. Tourist either domestic or international will feel the ambience of the Albert Dock as a former port in Liverpool.



Fig. 8a, 8b: Today's pictures of old Albert Dock, left picture shows the view of Albert Dock which still remains the same character of red bricks and red pillars, this row of building consist Tate Gallery, Museum of Maritime, Cafes, Restaurants and Bars. And the right picture shows the face of another side of Albert Dock area which consist new modern building – Museum of Liverpool which contextual with the character of waterfront area. Source: Private Documentation, 2013

7. Case Study of Sunda Kelapa Jakarta

Sunda Kelapa, Jakarta is a part of Jakarta Old Town Area which has been regarded as a conservation area in Jakarta. Sunda Kelapa is a former name of Jakarta, is has been known as a port area in Jakarta. Sunda Kelapa was an important place because this place is a heart of Jakarta as economical activities had been centered within it.

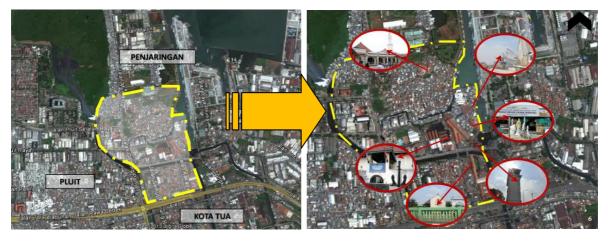


Fig. 9a, 9b: Map of Sunda Kelapa area. This area had been designated as conservation area as part of Jakarta Old Town Area. Left picture shows the area of Sunda Kelapa, and the right picture shows several old buildings within Sunda Kelapa area which have been designated as a listed old building. Source: Google Earth, 2013

Today, Sunda Kelapa has been known as a tourism area which deliver some attraction within area. The area of Sunda Kelapa has several place of interest such as Menara Syahbandar (harbor tower), Museum Bahari (Maritime Museum), Sunda Kelapa Port Area, Galangan VOC (VOC Dock), Masjid Luar Batang (Mosque). These old buildings have been designated as a listed old buildings within Jakarta Old Town Area. The condition of these buildings are relatively bad, physically these buildings need to be revitalized. Several proposal either from private sectors or NGO who concern about historical sites had been submitted to government, but there are still no significant action has been implemented.

By presenting two case studies in Asia – Singapore and in England – Liverpool, researcher will gain more experiences to present some alternatives solution for better quality of Sunda Kelapa area. Sunda Kelapa area has many potency to be explored, thus this will become main commodity for Jakarta particularly and Indonesia generally.



Fig. 10a, 10b: Today's view of Sunda Kelapa area. Left picture shows the Museum Bahari (Maritime Museum) view from Menara Syahbandar (Harbour Tower). Right picture shows the situation of Sunda Kelapa Port with building material's freighter. Source: Private Documentation, 2013

Several buildings within Sunda Kelapa area had been transformed into new function. For example, Galangan VOC which used to be a ship workshop, had been transformed into restaurant and cafe. And in the future, Museum Bahari (Maritime Museum) will be revitalized into new function as an outdoor cafe which still keeping the atmosphere of the museum. This building used to be a warehouse

of herbs and spices, but then to maintain the character of the building, central government had been designated and transformed the building into new function as a museum. Learning from several experiences from other countries, the revitalization of old buildings should improve and enhance the quality of the building itself economically and socially. Thus in this research, researcher will try to deliver new concept of the transformation of Museum Bahari as a commercial building to maintain the character of the building.



Fig. 11a, 11b: Today's view of Museum Bahari. Left picture shows the inner court of Museum Bahari (Maritime Museum) view from inside the buildings. Right picture shows the view of Museum Bahari's interior. Source: Private Documentation, 2013

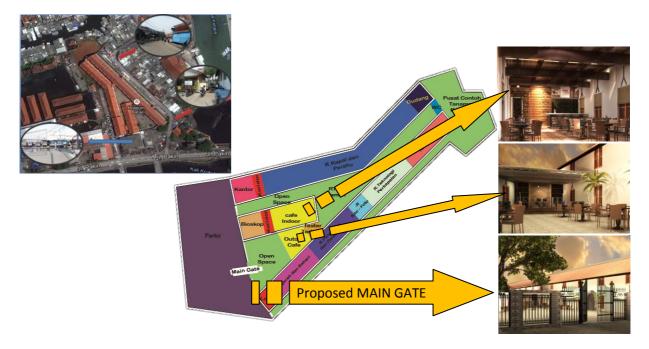


Fig. 12: Proposed revitalization program for Museum Bahari in Sunda Kelapa area. Right pictures from above to below: proposed indoor café, proposed outdoor café, proposed main gate Source: Analysis result, 2014

Conclusion

Learning from the successful revitalization concept in England with applications in several historic cities, and learning from the above case studies, then Indonesia could adopt the above concept by applying the concept of revitalization in some areas generally and Sunda Kelapa Jakarta particularly were considered as historic areas to enhance their quality of build environment.

Acknowledgement

This research is a multi years research from 2014 to 2015 in a program of Penelitian Hibah Bersaing. This research has been funded by Kopertis Wilayah III Jakarta, Kementrian Pendidikan Kebudayaan, Indonesia

Bibliographical References

[1] ANONIM. Sejarah Perkembangan Kota Tua Jakarta. Kotatuajakarta.org.

[2] ATMADI, P. Arsitektur dan Pengembangannya di Indonesia. Universitas Gadjah Mada Press. 1997. Yogyakarta. Indonesia.

[3] BARNETT, Winston and Cyril Winskell. A Study of Conservation. London: Routledge. 1977.

[4] BUDIHARDJO, Eko. *Conservation and Restoration*. Gadjah Mada University Press. Yogyakarta. Indonesia. 1991

[5] BUDIHARDJO, Eko. *Konservasi Arsitektur sebagai Warisan Budaya*. Gadjah Mada University Press. Yogyakarta. Indonesia. 1997d.

[6] BUDIHARDJO, Eko. *Revitalisasi Pusat Kota Lama*. Gadjah Mada University Press. Yogyakarta. Indonesia. 1997e.

[7] BUDIHARDJO, Eko. *Arsitektur Pembangunan dan Konservasi*. Djambatan. Jakarta. Indonesia. 1997f.

[8] BUDIHARDJO, Eko. *Preservation and Conservation of Cultural Heritage in Indonesia*. Gadjah Mada University Press. Yogyakarta. Indonesia. 1997g.

[9] Dinas Tata Kota DKI Jakarta. *Rencana Induk Kota Tua Jakarta: A Vibrant, Diverse, and Living Cultural Heritage District*. PSUD. 2007.

[10] HEUKEUN, Adolf. Historical Site of Jakarta. Yayasan Cipta Loka Caraka. 2000.

[11] JONES, AN & LARKHAM, PJ. The Character of Conservation Areas. Report commisioned from Plan Local for the Conservation and Built Environmnet Panel. London: Royal Town Planning Institute. 1993.

[12] KAMIL, Ridwan. *Strategi Revitalisasi Kota-Kota Asia Dalam Konteks Persaingan Global*. Artikel ridwankamil.wordpress.com. 27 September 2008.

[13] LARKHAM, PJ. Conservation and the City. London: Routledge. 1996.

[14] LIN, EM. Adaptive Reuse of the Historic Boat Quay Singapore River, Singapore.

http://web.mit.edu/akpia/www/AKPsite/4.239/singa/singa.html. without year.

[15] ORBASLI, A. Architectural Conservation. Blackwell Publishing. Singapore. 2008.

[16] PURWANTIASNING, Ari Widyati. *Konservasi dan Perkembangan Ekonomi*. Bias Arkade. Jakarta. Indonesia. 2004.

[17] PURWANTIASNING, Ari Widyati. Sebuah Pemaparan Tentang Konsep Konservasi di Inggris. Jurnal Arsitektur Universitas Pancasila HIRARCHI. Volume 1 Edisi 2. November 2004. Universitas Pancasila. Jakarta. Indonesia. 2004.

[18] PURWANTIASNING, Ari Widyati. *Konversi Bangunan Tua Sebagai Salah Satu Aplikasi Konsep Konservasi.* Jurnal Arsitektur Universitas Muhammadiyah Jakarta NALARs. Volume 8 Nomor 2. Juli 2009. Universitas Muhammadiyah Jakarta. Jakarta. Indonesia. 2009.

[19] PURWANTIASNING, Ari Widyati. Aplikasi Konsep Konservasi Pada Bantaran Sungai Studi Kasus: Clarke Quay. Jurnal Ilmiah Teknik Sipil dan Arsitektur Universitas Negeri Yogyakarta INERSIA.
Volume VI Nomor 2. Desember 2010. Universitas Negeri Yogyakarta. Yogyakarta. Indonesia. 2010.
[20] PURWANTIASNING, Ari Widyati & MAULIANI, Lily & AQLI, Wafirul. *Tipologi Konversi Bangunan Tua di Pusat Kota Studi Kasus Pecinan di Singapura dan Petak Sembilan di Jakarta*. Jurnal Arsitektur Universitas Muhammadiyah Jakarta NALARs. Volume 11 Nomor 2. Juli 2012. Universitas Muhammadiyah Jakarta. Indonesia. 2012.

[21] PURWANTIASNING, Ari Widyati & MAULIANI, Lily & AQLI, Wafirul. *Building Conversion as an Application of Old Building Conservation, Comparative Studies: China Town Singapore, Petak Sembilan Jakarta.* Proceeding International Seminar Genius Loci. Universitas Negeri Makassar. 14-16 Februray 2013. Universitas Negeri Makassar. Indonesia. 2013.

[22] PUŔWANTIASNING, Ari Widyati.*Designation of Conservation Area as an Effort to Preserve a Local Wisdom, Comparative Studies: Chester England and Tenganan Pegeringsingan Bali.* Proceeding of International Seminar Genius Loci. Universitas Negeri Makassar. 14-16 Februray 2013. Universitas Negeri Makassar. Indonesia. 2013.

[23] REYNOLDS, J. *Conservation Planning in Town and Country*. Liverpool: Liverpool University Press. England. 1976.

[24] RTPI. The Character of Conservation Areas. A Commissioned Study. London: RTPI. 1994.
[25] SURJOMIHARJO, A. Sejarah Perkembangan Kota Jakarta. Dinas Museum dan Pemugararan Propinsi DKI Jakarta. Jakarta. Indonesia. 2000

[26] TIESDELL, S, Oc, T & HEATH, T. *Revitalizing Historic Urban Quarters*. Oxford:Butterworth. England. 1996.