Proceedings

Arte-Polis 3 International Conference
Creative Collaboration and the Making of Place:
Learning from Shared Creative Experiences

Bandung, 22-24 July 2010

Volume 2

Architecture Program
School of Architecture, Planning and Policy Development
Institute of Technology, Bandung
INDONESIA
Proceedings
Arte-Polis 3 International Conference
Creative Collaboration and the Making of Place:
Learning from Shared Creative Experiences

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PREFACE

The third biennial Arte-Polis International Conference between the 22-24 July 2010 brings together to Bandung, Indonesia, creative champions from different places around the world, to share and learn from each others creative experiences in making places.

Under the theme of Creative Collaboration and the Making of Place: Learning from Shared Creative Experiences, Arte-Polis 3 underlines the importance of sharing collaborative and creative experiences through international and local best practices, and their policy implications on place-making.

The Arte-Polis 3 International Conference critically examine these issues:
(1) what is the understanding of creative collaboration?
(2) how and to what extent does the creative economy influence the collaborative nature of place-making?
(3) what shared experiences on creative collaboration can be learned from the cultural and economic contexts of diverse places?
(4) how can creative activities can be managed, planned, designed and replicated to enhance the quality of places for their communities?
(5) what are the appropriate policies and collaborative strategies that encourage development of community-based creative economy and place-making?

Keynote and Featured Speakers provide a platform for discussion of the Conference theme to be elaborated in parallel sessions of the Conference Tracks:
- Prof. Nezar ALSAYYAD, Ph.D. Professor of Architecture, City Planning, Urban Design and Urban History, University of California, Berkeley and Director/President, International Association for the Study of Traditional Environments, USA.
- Prof. Eku WAND Braunschweig University of Art, GERMANY.
- Prof. Togar SIMATUPANG, Ph.D. Institute of Technology Bandung, INDONESIA.
- Nancy MARSHALL, Ph.D. University of New South Wales, AUSTRALIA.
- Astrid S. HARYATI, MLA. City and County of San Francisco, USA.
- Prof. Dr. Suhono Harso SUPANGKAT Institute of Technology Bandung, INDONESIA.

In this publication, Parallel Session papers are compiled to provide an insight for reflection and sharing of the best practice experiences from over 15 countries. We trust that you will find Arte-Polis 3 International Conference on Creative Collaboration and the Making of Place a rewarding and enriching learning experience worth sharing.

The Editors
Arte-Polis 3 International Conference
CONTENTS

Preface ii

Contents iii

Keynote and Featured Speakers xii

VOLUME I

A. Architecture and Environmental Design through Creative Collaboration

Creativity in the Perspective of Islamic Architecture: A Case of Dealing Positively with Constrains and Limitations
Yulia Eka PUTRIE 01

Tagging: A Study to Prevent Negative Space in Jalan Suli-Denpasar
Ayu Putu Utari Parnthami LESTARI 07

Towards Health-Care Service Quality: An Adaptation of “Usability Concept” in Healthcare Design
Siti Norsazlina HARON, Md. Yusef HAMID & Anwar TALIB 17

How Did ‘Us’ Become “Them”? Case Study of Barito Flower Market –
Ayodia Park
Gabrielle VERONICA 27

Signages’ Expressions on Cihampelas Road as a Shape of Bandung City’s Commercial Architecture Face
Trivaty Carolina HARTONO 37

Adaptability and Creation of Creative Spaces on Affordable Vertical Housing (Ramah Susun) and Surrounding: Case of Yogyakarta
Deva Fosterhardonas SWASTO 47

Consensus Design for Tourism Facilities Designing. Case Study: The Knitting Kampong of Binong Jati, Bandung
Enok Nur ASIAH & Woerjantari SOEDARSONO 59

A New Planning of a Flat Ground Church at Diocese of Kota Baru Parahyangan Padalarang
Gai SUHARDJA 67

Design Principles of Arboretum in Babakan Siliwangi
Tika Saviri Deddy HASAN, Nia K. PONTOH & Bagas Dwipanta PUTRA 77
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project B.E.A.C.O.N 2010 Biologically, Ecologically, Aesthetically</td>
<td>87</td>
</tr>
<tr>
<td>Constructed Shelter: A Flexible Resolve to Natural Disaster</td>
<td></td>
</tr>
<tr>
<td>Jocelyn A. RIVERA-LUTAP</td>
<td></td>
</tr>
<tr>
<td>The Use of Public Space by Womankind at Multi-Storey Housing for</td>
<td>97</td>
</tr>
<tr>
<td>Creating a Sense of Place and Creative Activities</td>
<td></td>
</tr>
<tr>
<td>Nina NURDIANI</td>
<td></td>
</tr>
<tr>
<td>Analysing Sustainable Tourism Development through the Lens of</td>
<td>107</td>
</tr>
<tr>
<td>Sense of Place</td>
<td></td>
</tr>
<tr>
<td>Eveline MUSSI</td>
<td></td>
</tr>
<tr>
<td>Community Participation in Heritage Conservation in Kotagede</td>
<td>117</td>
</tr>
<tr>
<td>Punto WLIAYANTO</td>
<td></td>
</tr>
<tr>
<td>Kampung as a Creative Density: Fluidity of Linier Traditional Markets</td>
<td>129</td>
</tr>
<tr>
<td>in High Density Urban Kampungs</td>
<td></td>
</tr>
<tr>
<td>Muhammad Santi ROYCHANSYAH</td>
<td></td>
</tr>
<tr>
<td>Studies in Collaboration: North Sydney and Chatswood Stations in</td>
<td>141</td>
</tr>
<tr>
<td>Sydney</td>
<td></td>
</tr>
<tr>
<td>Harpreet MAND &amp; Satvir MAND</td>
<td></td>
</tr>
<tr>
<td>Why Always Seeing Something from the Bad Side? Optimizing the</td>
<td>151</td>
</tr>
<tr>
<td>Function of City Open Space to Facilitate Public Activity and</td>
<td></td>
</tr>
<tr>
<td>Creativity. Case Study: Gasibu Square, Bandung</td>
<td></td>
</tr>
<tr>
<td>Astri Anindya SARI &amp; Wanda YOVITA</td>
<td></td>
</tr>
<tr>
<td>Urban Lighting and Creating Public Space at Heritage Area: Learning</td>
<td>161</td>
</tr>
<tr>
<td>from Other Places’ Collaborative Experiences in Shaping the City’s</td>
<td></td>
</tr>
<tr>
<td>Image</td>
<td></td>
</tr>
<tr>
<td>Mila SAVITRI</td>
<td></td>
</tr>
<tr>
<td>The Challenge of Collaboration in Rental Housing Design, Case Study:</td>
<td>171</td>
</tr>
<tr>
<td>Students Rental Housing in the City of Bandung</td>
<td></td>
</tr>
<tr>
<td>Alias NURDINI &amp; Ismet Belgawan HARUN</td>
<td></td>
</tr>
<tr>
<td>The Role of Resort in Promoting Traditional Malay Architecture and</td>
<td>181</td>
</tr>
<tr>
<td>Heritage Awareness among Tourist in Malaysia</td>
<td></td>
</tr>
<tr>
<td>Siti Rohamini YUSOFF, Mohd. Sabrizaa B. ABD.RASHID &amp; Ruzana ABD.KADIR</td>
<td></td>
</tr>
<tr>
<td>Homestay as a Factor in Sustaining the Traditional Malay Culture in</td>
<td>193</td>
</tr>
<tr>
<td>Heritage Tourism Industry</td>
<td></td>
</tr>
<tr>
<td>Ruzana ABD.KADIR, Mohd. Sabrizaa B. ABD.RASHID, Siti Rohamini</td>
<td></td>
</tr>
<tr>
<td>YUSOFF</td>
<td></td>
</tr>
<tr>
<td>Implications of Politics for the Architecture of Chinese Settlements.</td>
<td>207</td>
</tr>
<tr>
<td>Case Study of Chinese District (Pecinan) in Surrounding Pasar Gedhe</td>
<td></td>
</tr>
<tr>
<td>Surakarta</td>
<td></td>
</tr>
<tr>
<td>Dhani MUTIARI</td>
<td></td>
</tr>
</tbody>
</table>
Collaboration in Designing New Landscape for Ex-Mining Area in Bangka
Ammy HARDINI & Ruth T.W. PARAMITA

Slum Character Based Management Program on High Density Housing: A Case Study of Jamika, Bandung
Widyastri Atsary RAHYMI & Reza PRIMA

Andhys FIRSTANY

Building a Common Language
Sergio GONZÁLEZ ZEPEDA & Sergio BELTRÁN GARCÍA

Creative Urban Forms as a Collaboration of Spontaneous Architecture and Environmental Design Developed by Marginalized Inhabitants
Paulus BAWOLE

Visuality and Tactility in Planning and Place-Making
Yulia Nurliani LUKITO

Youth in Finding Open Space. Case Study: Yogyakarta
Imelda Irnawati DAMANIK

User Perceptions towards Street Characteristics and Qualities that Contribute to User Friendly Street.
Norhafizah ABDUL-RAHMAN & Shuhana SHAMSUDDIN

Making a Place - Collaboration between the Developer and the Creative Community in BSD City
Susanti Widiasmuti INDRARAJASA

Creative Partnership for Urban Sustainability, A Comparative Analysis of Advertising in Bandung City and Solo City Planning Adaptation to Climate Change
Ramalits SUBANDI & Tri Wahyu HANDAYANI

Themes of Environmental Design at Riverbank Areas: Lesson Learned from South East Asia Riverbank
Cut NURAINI

Public Art Collaboration in Practice: Pakubuwono View
Irlandine KARNAYA & Dita TRISNAWAN

Experimenting Bamboo as an Architectural and Socio-Cultural Feature. Case Study: The Bamboo House at Eco-Pesantren Daarut Tauhid, West Bandung, West Java, Indonesia
Budi FAISAL & Putri KINASIH
Design Competition and the Quality of Our Built Environment
*Alfa SURAYYA* 343

Collaborative Urban Screen Applications
*Basauni Umar LUBIS* 355

A Study of Affective Response: The Creative Case of Shopping Mall Interior in Bandung
*M. Prasetyo Effendi YASIN* 363

Place-Making for Tourism in Rural Settlements and the Institutional Collaboration
*Wiwik D. PRATIWI, Noviantari SOEDARMADJI & Paramita YANINDAPUTRI* 373

---

**B. Business, Management and Entrepreneurship for Creative Collaboration**

Electronic Transaction, Real Demand or Creative Modern Metropolitan Life Style? The Case Study in Bandung Metropolitan Area, Indonesia
*Ridwan SUTRIADI & M. Ilham AKBAR* 383

Is Freelance-Designer Really an Entrepreneur?
*Markus SANTOSO* 393

Place Branding, Catwalking the City
*Siti Sarah MEDINNA & George VERGHESE* 401

The Role of University in Nurturing Student’s Creative-Based Business and Academic Entrepreneurship
*ILHAMDANIAH* 411

Internet and Entrepreneurship: The Benefit of Facebook for Project-Based Assignment
*Ratna L. NUGROHO* 421

Arts and Business: Creative Collaboration through Arts Incubator Model
*HwiJung KIM* 433

Creative Symbiosis of Small- and Large-scale Entrepreneur in Factory Outlet’s District Bandung
*Himasari HANAN* 443

Let’s Meet Halfway
*Yulianti TANYADJI* 455
C. **Culture, Arts and Design**
showcasing Creative Collaboration

- **Tales of Archipelago: Open Source Concept Design for Creative Media Development**
  - Alvanov ZPALANZANI, Patra ADITIA, Setiawan SABANA, Imam Syah LUBIS, M. Isa PRAMANA
  - Page 467

  - Marika B. CONSTANTINO
  - Page 475

- **Veneebao Products and Machine Development for Small- and Medium-Scale Enterprises in West Java**
  - Dwinita LARASATI, Muhammad IHSAN & Denny WILLY
  - Page 487

- **"Meniscus" the Eye Diagnostic Integrated Facility**
  - Kumara Sadona PUTRA
  - Page 495

- **The Affective Ground: The Possibilities of a Cross-Cultural Dialogue through Process**
  - Jan HOGAN
  - Page 505

- **‘Pasar Lama’ - Old Market - Chinese Heritage Settlement in Tangerang City Which Describes ‘Genius Loci’ through Creative Collaboration between Chinese and Indigenous Inhabitant**
  - Lucia Helly PURWANINGSIH
  - Page 515

- **Reading the Balinese Traditional Architecture Cosmology: The Element Concept of Cosmologic Placing in the Justice Court Hall. Case Study: Bale Kertagosa, Klungkung Bali**
  - Sangayn Ketut Laksemi NILOTAMA & Setiawan SABANA
  - Page 525

- **Lost in Laneways! Finding the Hidden Treasures in Melbourne**
  - Indah MUTIA
  - Page 535

- **Natural Fibers and Natural Dyes in Indonesian Textile**
  - Dian WIDIAWATI
  - Page 545

- **Translation of Cultural Codes Based on Individual Experience in Making an Interior Design: A Phenomenological Semiotic Approach**
  - July HIDA YAT
  - Page 555

- **The Meeting of Eastern Hand and Western Mentality. The Understanding of Eastern Mentality and Its Use in the West**
  - Andras BOJTI
  - Page 565
Creative Interpretations of Folklores as an Integral Part of Placemaking
Aziza NOOR

Malang Kembari Festival Influence on Public Awareness of the Cultural History of the City
Subhan RAMDLANI

Visual Analysis on Bandung’s 200 Years Anniversary
Didit Widiatmoko SUWARDIKUN & Alvanov ZPALANZANI

Batik Fractal: A Case Study in Creative Collaboration from Various Discipline in Bandung
Yun HARIADI, Muhamad LUKMAN & Nancy Margried PANJAITAN

Fractalization of Traditional Batik Ornament and Its Challenges in the Modern Style Sector
Achmad Haidani DESTLARMAND

Art and Design Festival’s Networking Collaboration: The Place Making
Dita TRISNAWAN

Reducing Crime by Creating a Community Collaborative Space; Case Study on Alpina, Cisitu, Bandung
Himita SETYONINGRUM

Creative Programming Partnerships and the Creation of Space for Reciprocity in a Local Indigenous Metropolitan Festival
Bo Jason SVORONOS

D. Digital Media and Information Technology harnessing Creative Culture

The Implication of Electronic Banking User Preferences to the Metropolitan Development. Case Study Bandung Metropolitan Area Indonesia
Ridwan SUTRIADI & Nurul Fajri BARORAH

Grassroots Movements through Creative Collaboration with Social Median in Indonesia
Ryan KOESUMA

From 35 mm to Digital: Social Changes of Photography Technology and ICT Development
Rasiono Eko KUSWARDONO

Slum Open Source Database Network
Achmad SYAIFUL & Widyastri Atsary RAHYM
Film Intervention in Transforming City Spaces
Muhammad Adi PANUNTUN
Impact of On-Line Mobile Devices to Personal Space: An Addition to Edward T. Hall's Personal Space Theory
Tifa Nur LATIFA & Noviantari SOEDARMADI
On Developing of Digital Communities in Rural Areas
Armin Z.R. LANGI

Education and Theoretical Discourse on Creative Collaboration
The Fourth Triple Helix Model: University as an Epicenter of the Triple Helix Movement
Hendriana WERDHANINGSIH
Walking the City: An Alternative Approach in Architectural Pedagogy through Collaborative Network
Haifz AMIRROL
The Effect of Spatial Distance on Idea Generation and Idea Selection in Creative Collaboration
Rakhmita AKHSALANTY
The Potentials of Information and Communication Technology in Architecture
Agus Budi PURNOMO
Redefining Space for Learning: Learning from the Home-Based Education Practice of Grup Belajar Bersama
Dyan Wathyuning DARYONO
Are We There Yet? Or Not Even Close – Critical Response and Evaluation of Indonesian Architecture Educational System. A Liberating and Humanizing Education for Architecture Part II
Martin L. KATOPPO & Tony SOFIAN

Planning and Policy Development informed by Creative Collaboration
Creative Collaboration for the Australian Visual Entertainment Industries
Rodney JENSEN
Think Locally and Act Globally towards a Creative Metropolitan Development
Ridwan SUTRIADI & Christopher SILVER
Vibrant Khayelitsha - Vitalizing the Urban Structure for the Segregated Society of Khayelitsha, Cape Town
Sigit KUSUMAWIJAYA

Strategic Projects: Vehicles for Socio-Spatial Innovation?
Louis ALBRECHTS

Ecotourism and Foreshore Redevelopment in Menado City, North Sulawesi
Cynthia Erlita Virgin WUISANG & Rieneke Lusia Evani SELA

Cross-Cultural Planning and Policy Development. A ‘Gotong-Royong’ Co-Housing Concept
Solatun Dulah SAYUTI

Giving Way to Water. Seeking Creative Collaborations for a Sustainable City
Prathivi W. PUTRI

Preserving the Past Saving the Future: Adaptive Reuse of Heritage Building in Bandung
Ahmad Hudaeby Galih KUSUMAH

Making a Plan for Urban Tourism. The Experience of Devon Avenue in Chicago
Nunzia BORRELLI & Ann Lata KALAYIL

Creative Collaboration in Urban Polder of Jakarta:
In the Framework of Integrated Water Management
Gunawan TANUWIDJAJA, Joyce Martha WIDJAYA & Robby Yussac TALLAR

University and Community Partnerships: Extending Boyer’s Legacy beyond the Campus
Christine STEINMETZ

Community Participation as a Form of Creative Collaboration in Public Place Creation: Community of Sadang Serang, Bandung
Lulut INDIRIANGRUM

Unplanned Nightlife within Public Space in Hat Yai, Thailand
Julaihi WAHID, Bambang KARSONO & Bhakti ALAMSYAH

Conceptualizing the New Alun-Alun: Public Protests, Place-Making, and Their Implications on the Design of Urban Space
Rita PADAWANGI

Value Capture: Creative Instrument for Infrastructure Planning in Urban Area in Indonesia
Laksmi Tungga Dewi J.W.W. DARMOYONO & Johan WOLTJER
From Zero to Hero, a Creative Lesson from Surabaya’s Open Spaces
Tarunita KUSUMADEWI & Ninik JUNARA

Kolong Tol: Participation and Multi-Scalar Collaboration to Solve Design and Political Gaps
Barry BEAGEN & Indrawan PRABAHRAYAKA

Settlement Formation Patterns and the Economies of Artisanal Fishing Communities of Coastal Nigeria
Edet IKUKEKONG

Who Did Carry Out The Making of Place?
SUTRISNO

Creative Community Activity as an Adaptive Reuse Strategy to Revitalize Neglected Urban Areas: Case Study: Old Jakarta and Bandung City
Hera W. POERBO & Woejiantari K. SOEDARSONO

Risk Threats in a Creative Funding Scheme for Infrastructure Project in Indonesia: Cileunyi - Sumedang - Dawuan Toll Road Project Case Wishnu BAGOES OKA & PRADONO

Problem of Enhancing Place-Making: Behind Phenomena of Vacant Housing at Low to Middle Income Housing in the City of Bekasi
A. Adib ABADI

The Path Less Travelled: The Right to Access for Water, Citizens Innovation and the Role of Local Governments for Water Supply in High-Density Communities of Indonesia
Telit A. ARGO

Balinese Postmodernity: Culture, Conflict, and Space in a Tourist Paradise
Gusti Ayu Made SUARTIKA

Enhancing Knowledge-Based Industry: The Case of ITB’s New Industrial Research Campus Plan in Bekasi, West Java
Indra Budiman SYAMWIL

Community Collaboration in Rural Water Infrastructure Provision
Sri MARYATI, M. Rofiq WIDADI, Diana MINTA & Desiree M. KIPUW

Reinstatement Model of Public Investment in the Provision of Urban Open Space
Denny ZULKAIIDI
KEYNOTE AND FEATURED SPEAKERS

Prof. Nezar ALSAYYAD, Ph.D.
Professor of Architecture, City Planning, Urban Design and Urban History,
University of California, Berkeley and Director/President, International Association for the
Study of Traditional Environments, USA
"Consuming Heritage and the End of Tradition"

Prof. Eku WAND
Braunschweig University of Art, GERMANY
"Design Thinking"

Prof. Togar SIMATUPANG, Ph.D.
Institute of Technology Bandung, INDONESIA
"Development of Creative Economy in Indonesia"

Nancy MARSHALL, Ph.D.
University of New South Wales, AUSTRALIA
"Layers, Lenses and Landscapes"

Astrid S. HARYATI, MLA.
City and County of San Francisco, USA
"Strategic Placemaking: First Trespass, Second ...

Prof. Dr. Suhono Harso SUPANGKAT
Institute of Technology Bandung, INDONESIA
"ICT and Creative Content"
Ecotourism and Foreshore Redevelopment in Manado City, North Sulawesi

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ABSTRACT
Marine ecotourism is a form of potential tourism, which is included in the “clean” industry activities. Implementation on marine ecotourism is successful whenever it meets the aims of sustainable natural environment, community welfare and satisfaction as well as collaboration between the community and development in the area. Marine ecotourism development in Manado city has been developed since the government realized that there are potential ecosystem assets that can give contributions to economic growth, environment and the community, locally and regionally. There are significant cultural and ecosystem assets of seascape, which are not yet well developed comprehensively. Coastal areas are exclusive to North Sulawesi Province and acknowledgement to these significant valuable ecosystem assets is very important to be protected, preserved, and maintained. Certain parts of Manado coastal precinct are still popular for holiday destinations, weekend leisure, and marine activities or for people wishing to commute to Manado City or work locally.

This paper descriptively observed and evaluated the coastal precinct conditions and recognized its potential natural landscape and environmental assets. Based on the Scenic Beauty Estimation (SBE) method and site analysis, we suggested a conceptual framework design to redevelop the coastal precinct according to each potential and characteristic. Some of the beaches are obviously the biggest attractions to visitors, making those areas stand out from other coastal locations. Accordingly, the values of the precinct need to be enhanced and developed, not only for cultural and physical environmental aspects but also for economic and social aspects, especially for tourism destination and recreational purposes to local and community users.

Keywords: ecotourism, foreshore, redevelopment, design collaboration, Manado
INTRODUCTION

Manado coastal edge encompasses and curve naturally along plain topography of the city, has its potential area and is valuable for tourism development. It also can increase the image of the city. The valuable assets are marine biodiversity richness on open water territory, the characteristic uniqueness of natural landscapes, historical landscape structures, cultural and traditions and other resources that are significant to shape urban elements and shift the quality image of city.

Development along sea waterfront area in Manado has changed the landscape structure and the land form in coastal area. In some cases, urban development has given positive impact to the economic growth, however, in other cases has caused negative impacts to the physical environment (Wuisang 2008). While any development activity will produce some level of negative impact, many tourism-related activities in Manado generate a higher level of negative impact. The negative effects results from a number of factors including: (1) uncar ing attitudes; (2) design deficiencies; (3) regulatory and resource deficiencies (4) inadequate infrastructure; and deficiencies in the planning processes.

To improve the physical environment quality and community welfare, sustainable ecotourism development model is one better solution. Sustainable ecotourism development model is considered and directed to increase the sustainable welfare, not solely to get entertained through attraction performances and natural visual-atraction of the seascape but also to directly participate in developing environmental conservation as well as to know deeply about ecosystem, in particular marine ecosystem, which can shape people awareness on how to have good attitudes in preserving coastal precinct in present day and in the future.

In concept of tourism development model, tourism activities in coastal area are utilizing coastal precinct and seascape directly and indirectly, for instance boating, swimming, snorkeling, diving, fishing as well as coastal sport activities, and picnic (Nurisyah 2001). The concepts of urban ecotourism are based upon scenic views, natural uniqueness, ecosystems, culture and art, and community characteristic as basic strengths of each region. Ecotourism is a special market for people with environmental awareness and interested to observe the nature. Steele 1993 in Lewaherilla (2002) describes ecotourism activities as an economical process that marketing the interesting and rarely ecosystem. Choy et al (1996) formulate five basic convergence factors in determining main principals of ecotourism development. That is; first, undisturbed and uncontaminated of cultural and natural environment, as pillars of ecotourism, second, community, which ecotourism should give direct ecological, social and economical benefits to the community, third, education and experience, that ecotourism can increase the understanding of cultural and natural environment through experience, fourth, sustainable, that ecotourism can give positive contribution for sustainable environmental ecology in the short-term and long-term, and lastly, management, that ecotourism should be well-managed and assure the cultural and natural environment sustainability to increase people prosperity for today and next generation.
The research aims to examine natural seascape scenic of coastal area, based upon the potential views, analyzing the quality of visual/aesthetic and visual comfortness factors and to analyze the coastal environmental layout for proposing foreshore redevelopment for urban ecotourism development in Manado city.

![Figure 1. Map of Manado and the Coastal Precinct](image)

Source: Regional Spatial Planning of Manado City (2008)

**METHODOLOGY**

The study area was located along the foreshore of Manado City. The study has been conducted in 2009. Material that has been used is thematic maps, Arc View 3.3 software, GPS, digital camera, scanner, stationeries. The research has been done in three phases that is survey, data collecting, questionnaire and analysis processes.

**Visual Analysis**

The Scenic Beauty Estimation (SBE) method was used in determining the quality of natural environmental visual through photograph plot and data analysis (Daniel and Booster 1976). Data was obtained to get the value of SBE in each photograph plot. Data processing was used the z value, with the following formula:

\[ Z_{ij} = \frac{(R_{ij} - R_j)}{S_j} \]

- \( Z_{ij} \) = Standard value of \( Z \) at assessment of \( i \) from observation \( j \)
- \( R_j \) = Average of all observation \( j \)
- \( R_{ij} \) = Value of \( i \) from observation \( j \)
- \( S_j \) = Standard deviation of all observation \( j \)

The calculation of \( Z \) value at this case was tabulated into each landscape view. The total of \( Z \) value for each photograph plot represents the result of average \( Z \) value from two views. This \( Z \) value was used as standard value to assess the panoramic beauty (SBE value). The SBE value was obtained using formula:

\[ SBE_x = (Z_{lx} - Z_{ls}) \]

- \( SBE_x \) = SBE value of panoramic \( x \)
- \( Z_{lx} \) = average of \( Z \) value for panoramic \( x \)
- \( Z_{ls} \) = average of \( Z \) value which used as standard value
The result of SBE value was used to evaluate each view descriptively. The aesthetic value assessment of panoramic view at study area is shown in Figure 2.

Figure 2. Aesthetic value assessment of panoramic view

The panoramic view in each observation areas describes its value. Landscape scenic of 4th owning highest SBE value of 90, which describes the high aesthetic quality, on the contrary landscape scenic of 7th showed the lowest SBE value for 75. The quality of landscape scenic with highest SBE value is shown in Figure 3.

Figure 3. The highest quality of visual landscape at Malalayang coastal precinct
Source: Sela (2009)

**Landscape Analysis**

Landscape characteristic of each foreshore zone is visually observed and analysed, as shown in figures 4, 5 and 6 respectively.

Figure 4. Landscape characteristic of foreshore in the northern part of Manado City
Source: Sela (2009)
The physical condition consists of foreshore vegetation form, natural landscape structure, reclamation area, and other physical elements, which analyzed descriptively to get the factual condition. The factual condition in the study area was used for conceptual framework of landscape and environmental design.

RESULTS AND DISCUSSION

To shift the environmental conditions and in collaboration with ecotourism development concept, the design processes involve the generation of ideas for resolving the issues, which usually leads to a greater understanding of the problems and needs. Implementation therefore involves the re-development priorities and realization of the design ideas and its integration into physical and cultural context. In this case the making of place is entangles and the exiting resolution of systems including ones that are symbolic, visual, spatial, structural and infrastructural.

After evaluating the physical condition of the foreshore precinct, the results of this study define a series of development scenario of the area. Some alternatives and preferable design intention is to develop appropriate and dynamic seascape through integrative and responsive design, to communicate the multiplicity of meanings through effective landscape design. The appropriateness of designed environments is dependent on the degree to which they sustain and enhance the ecological and cultural environment.

The design theme idea for foreshore redevelopment in the study area is emerged when the sensing of place is taking into account to understand the existence of environmental condition in a holistic manner, as well as a sense of community, which the mental construct or ambience of a two-way interaction between the place and a group of people is integrated.
Rapoport (1981) gives ideas to “make place”, which can be used in finding conceptual basic design. These include (1) altering the perceptual characteristic of a setting to make it more noticeably different; (2) using elements and cues that are culturally appropriate; (3) relating elements and cues to known legends, concepts, ideas or identities of a group; (4) controlling which groups occupy settings, and (5) promoting certain behaviors in this setting and associating it over time. Place making employs these five effects to increase the sense of place. Motloch (1991) explored and adapted built-environment variables for management effectiveness that is site characteristic, architectural characteristics, built-environment conditions and landscape development.

The design theme is “redesign and redevelopment a comfort and green area”, consist of redevelopment scenarios along the coastal precinct, i.e.: neighborhood unit development, civic space development, green area development and river front development. The redevelopment scenarios are divided to several clusters along the coastal area, begin with designed city boundary entrance in the southern city, called “Bobocha area”, Malalayang beach tourism cluster, urban villagers communities cluster, Bantik Community settlement for cultural conservation cluster, Bailang fisherman community settlement cluster in the northern part of city (see figure 7, 8 and 9). Each cluster was identified as part of imagery elements of path, nodes, edges, district and landmark, with each specific characteristics as land use attribute.

Figure 7. Development scenario of foreshore in the northern part of Manado City
Source: Sela (2009)
Figure 8. Development scenario of foreshore in the southern part of Manado City
Source: Sela (2009)

Figure 9 (a). existing "boboca" gate at city boundary. (b). the creative re-design of the gate. (c) green element design.
Source: Sela (2009)
The Collaboration Processes

In order to shape urban land use plan, the mechanism of partnership among government, community and developer or consultant, which is regulated in Regulation No. 24, 1992 about spatial planning is needed. Community based development and participation is important in the whole planning and development processes. The collaboration scenario was implemented by facilitating community aspirations through open dialog and consultation mechanism in each decision making process of proposed planning, not only in housing design and living environment, also in how to maintain housing and the environmental condition. The community also had chance to formulate their living standard and therefore was accommodated through community’s life quality reinforcement and enhancement. The developer or consultant equipped the community with skills and subsidized tools for developing their job as fisherman. The community’s environmental setting is considered also for tourism development. Hence the design influence is part of the place making processes. Architectural design solution was recommended to shift the fisherman village and the environmental setting in the study area.

Figure 10. The existing of fisherman house and the alternative design development of the house and the village entrance.
Source: Sela (2009)
In accordance with the local government target in making Manado City as world tourism destination 2010, planning, design and management conceptual schemes for coastal precinct should be balanced and sustainable without neglecting community’s aspect.

CONCLUSION

The built environment setting in particular foreshore precinct usually evolves incrementally, through planning and design decision over extended period of time. For these environments to be understandable, evocative, meaningful, relevant and responsive, a shift in design thinking is necessary. Then we can determine appropriate roles and definitions for the environmental planning and design and develop appropriate design frameworks, models, and processes.

These will be based on a redefinition of environmental design that will include, as a primary focus, the process of place making to maximize the quality of place and people learning experience.

The application of design concept scenarios in this study are to be integrated into urban tourism development model and it consider the character of seascape, environmental conditions and the cultural value. This study proposed the environmental design alternatives.

BIBLIOGRAPHY


