Architecture As A Tool For Transformative Physical Development

@ FINDING PATHWAYS IN EDUCATION
VICTORIA UNIVERSITY & UNTL

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• Architecture & Missions
• Example of Studios
• Current Challenges
• Recommendations
Architecture & Missions

• Architectural ideas reflect the spirit of a time & provide a solution to problems or a global major concern of a nation of a time

• Building design processes should be seen also as social sciences rather than merely limited to physical composition or solving technical problems (cultural, environmental, social, economic aspects of the design)

• Architecture plays an important role in planning for development
Example of Design Studios

• Weak Architecture
• Regionalism: Vernacularism, Pastiche, Critical Regionalism
• Neo-Postmodernism
Weak Architecture
(pre-determined rational approach)

• Achieve maximum benefits with minimal physical interventions through spatial functional relationships in compositions
• Integrating building with landscape, the environment and infrastructure
• Ambiguity of functions according time and needs
Critical Regionalism  
(Pre-determined Rational)

- Interpret tradition use of modern material instead of traditional materials
- Adopting modern construction technique for fast mass production
- Extending and interpret traditions
- Integrate building with the landscape and the environment (responding to orientation of the sun, prevailing wind, use of natural cooling, light diffuser, micro-climate, ecological niche)
- Responding to the local social, cultural & economic aspects
ENVIROMENTAL ADAPTATION

Northeast View

01/07/14

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CULTURAL/TRADITION REINTERPRETATION & REPRESENTATION

Landscape

Building Materials

Authentic Connection to local region

Vernacular

Climat Specific

Authentic connection to nature

Century of Traditions

Reinterpretation of overhangs

Abstract connection to tradition

Sun & Cross Ventilation Diagram FROM SECTIONAL VIEW

01/07/14

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Neo-Postmodernism
(Intuitive & Rational Approach)

• Use available construction technique to form a new composition promoting sense of development, new sense of identity and spirit.
• Re-interpret local traditions (use of practical symbolic functions, vernacular and its relationships to the environment)
• Provide spatial functional adjacencies
• Integrating buildings into landscape and environment for energy efficiency
AERIPE LOUVRES (PLASTIC BASED MATERIAL LESS IMPACT ON ENVIRONMENT)

ANIN/AIR FLOW FENESTRATION

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 Cooling over / Rain Water Collection & Vertical Cross ventilation
PAPEL TAIS
TIMOR NIAM
[The roles of Timor Tais]
Práctica intusaur no nesesidades racionáis na arte no human
(Intuition and rational practices in the arts and crafts)

Markadu social/ekonomiku
(Social business and economics)

Serimonia kultural no identidade: fetsan, umane, lla mate no lla monis
(Cultural ceremonies and identity)

Serimonia ofisial: Benvindu
Official welcoming ceremony
Current Challenges

- Lack of approach in Building Design (fit for the purpose)
- Most design projects are only concerning the physical delivery of political program
- No Planning Schemes, Architects and Engineers Registration Board, Building Codes & Housing Policy.
- Existing curriculum is established based on engineering approach
Cutting off trees
Heat Problem in Urban Area
Plant More Trees for Natural Cooling & Urban Heat Reduction
Recommendations

• Architectural studies should not only equip students with technical knowledge but also with visions to long-term solving problems Timor and the globe are now facing
• Architectural studies should be in forms of project-based design studios with various design approaches
• Architectural studies should allow for the investigation of the evolution in architectural visions and missions
• Architectural studies should be formulated along with the orientation of TL’s development vision
Obrigado Wa’in!