

Architecture As A Tool For Transformative Physical Development

@ FINDING PATHWAYS IN EDUCATION
VICTORIA UNIVERSITY & UNTL

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13/07/2015

- 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

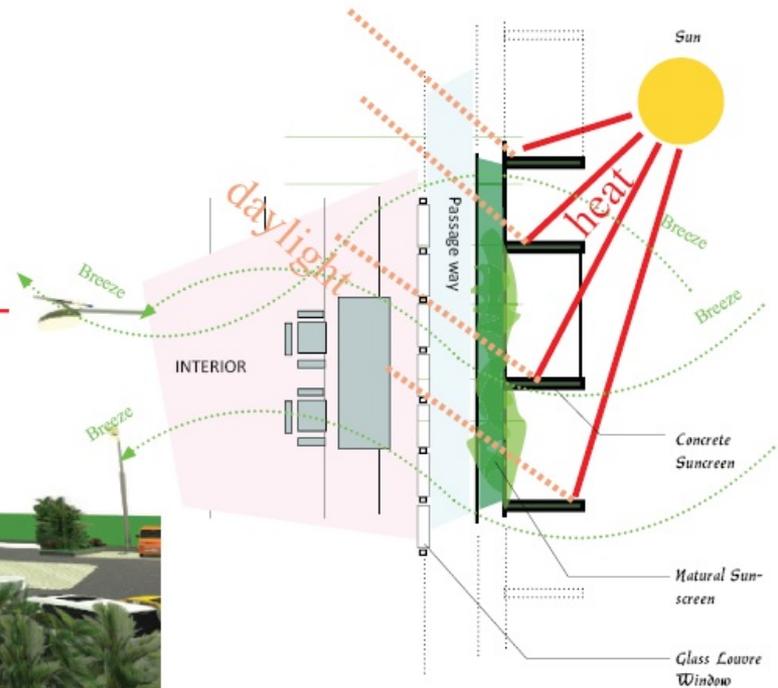




ENVIRONMENTAL ADAPTATION



Northeast View



Sun & Cross Ventilation Diagram
FROM TOP VIEW

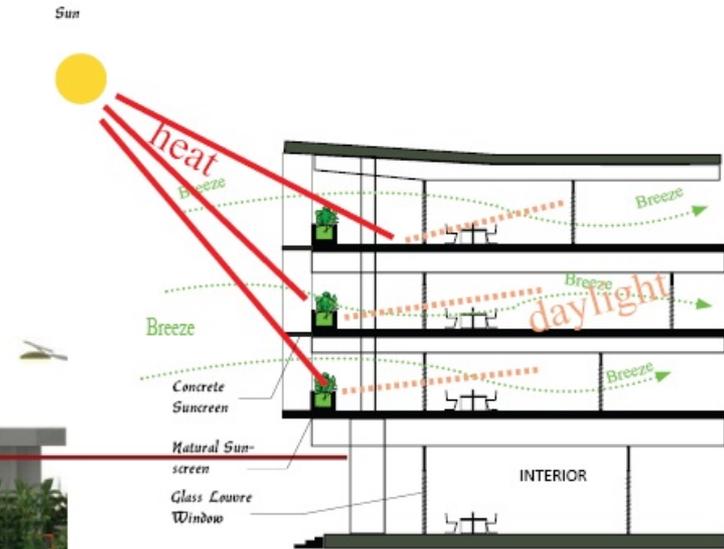
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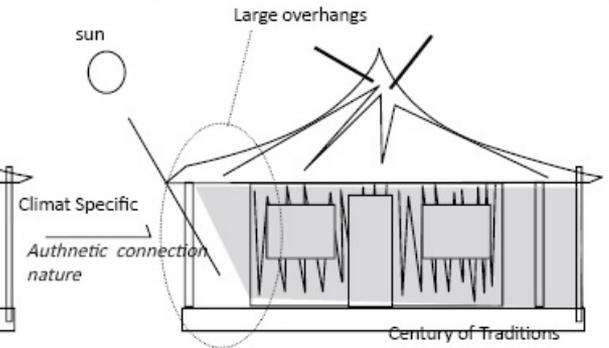
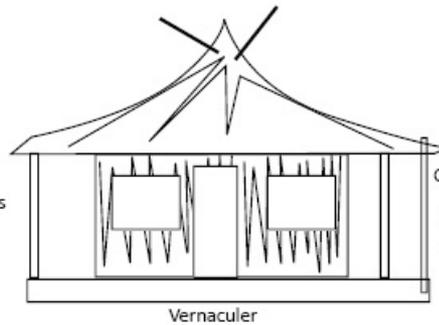
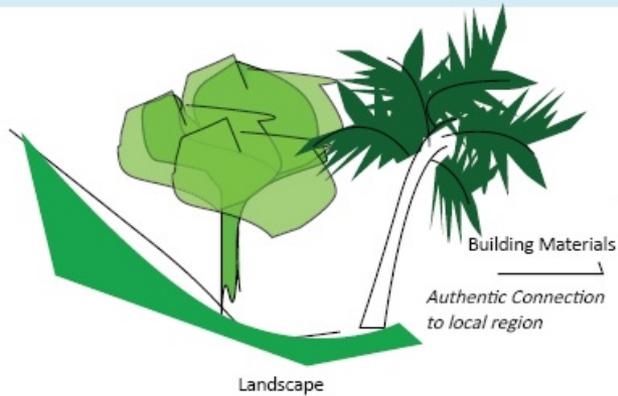


East Elevation



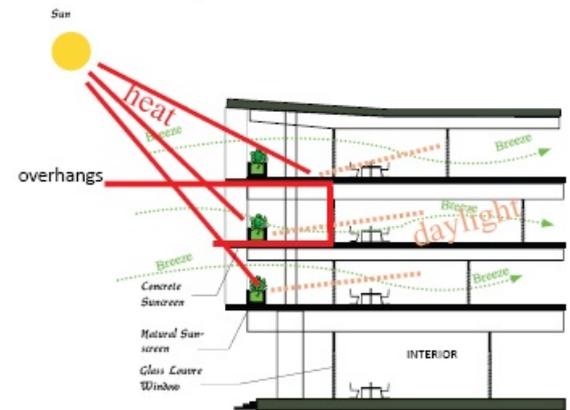
Sun & Cross Ventilation Diagram
FROM SECTIONAL VIEW

CULTURAL/TRADITION REINTERPRETATION & REPRESENTATION



Reinterpretation of overhangs

Abstract connection to tradition



Authentic Connection to local nature

Sun & Cross Ventilation Diagram FROM SECTIONAL VIEW

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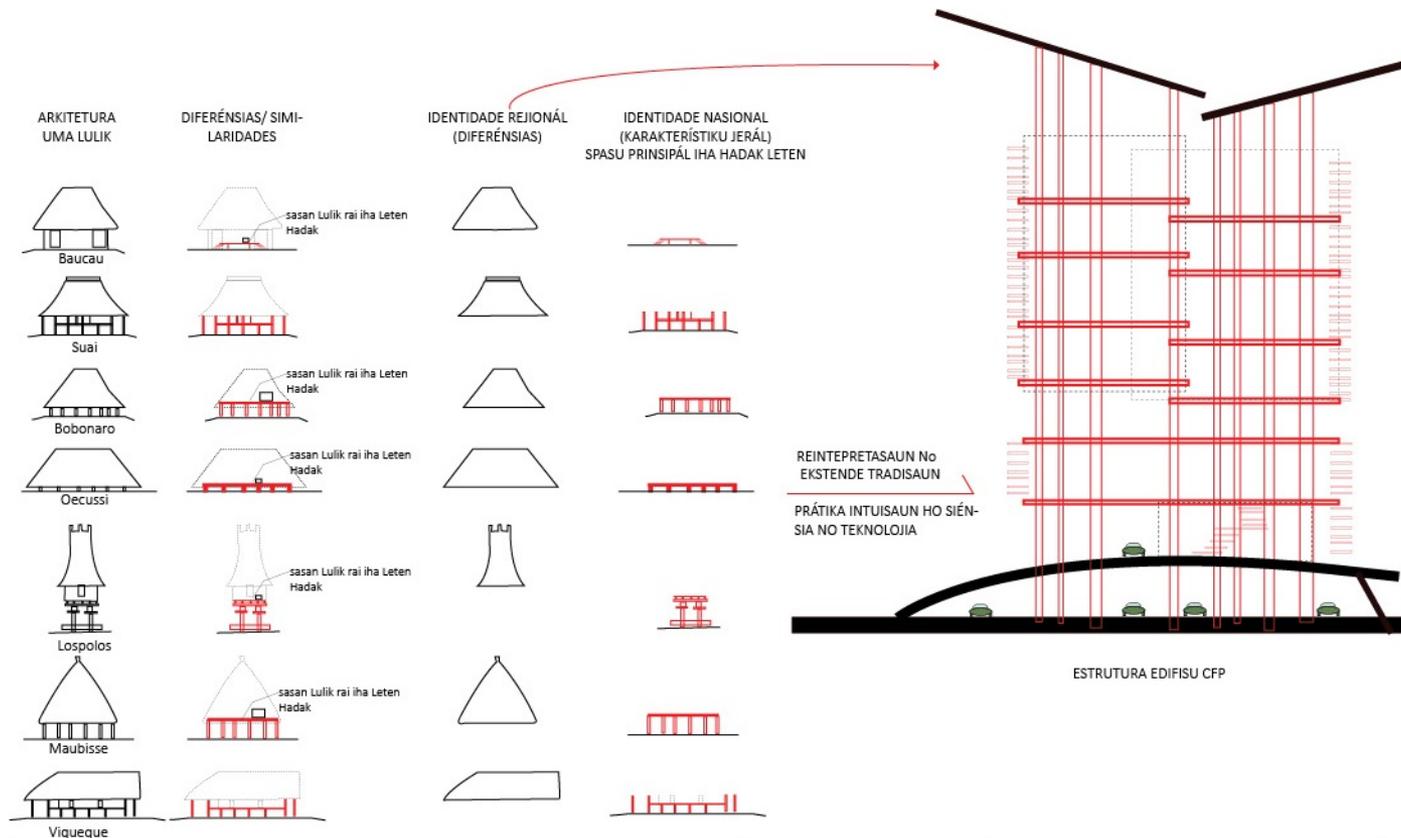


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Neo-Postmodernism

(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



ESTRUTURA ORTOGONAL, KUADRADU NO SIMÉTRIKA = DEZEMPEŃU ABLIDADE SIVILIZASAUN PASADU

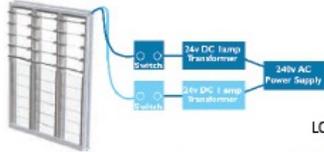
SIÉNSIA NO TEKNOLOJIA

ESTRUTURA OBLÍKU, KOMPLEXU MODERADU NO ASIMETRIA = DEZEMPEŃU ABLIDADE SIVILIZASAUN PREZENTE NO FUTURU

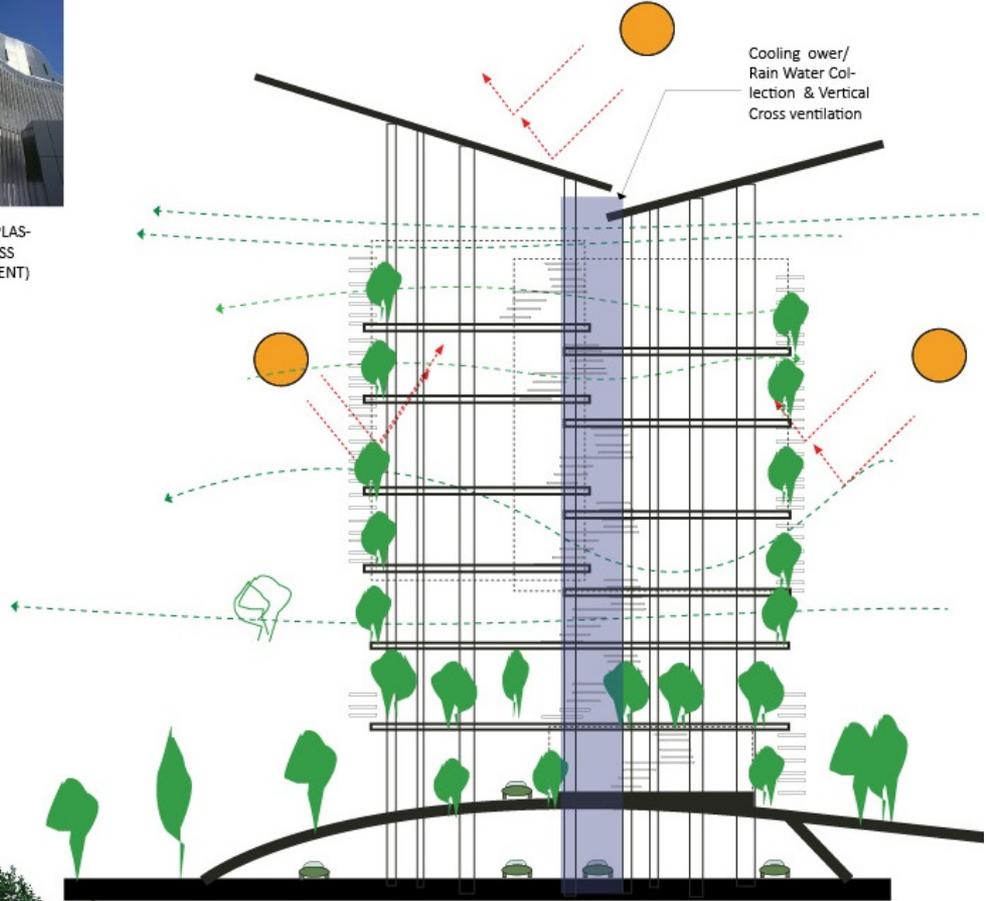
REFERÉNSIA UMA LULIK: CINATTI, R. et. al. (1987) *Arquitetura Timorense. IICT/ Museu de Etnologia.*



AEROBRISSE LOUVRES (PLASTIC BASED MATERIAL LESS IMPACT ON ENVIRONMENT)



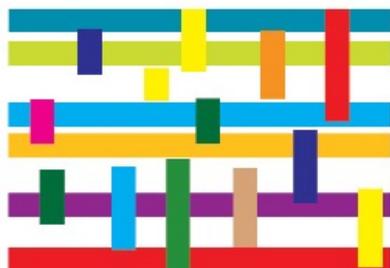
LOUVRES



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Prática intuitiva em necessidades racionais e arte no homem e cultura Timor ba e arquitetura Estatal

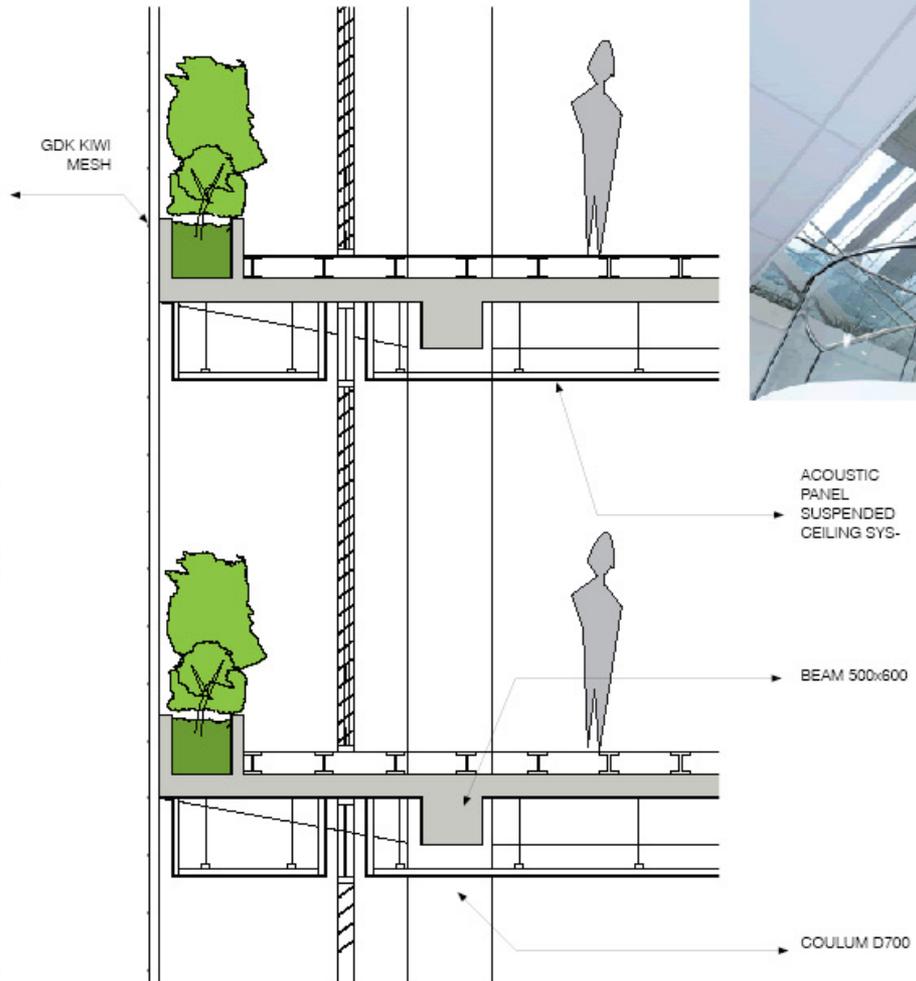
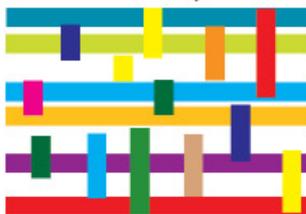
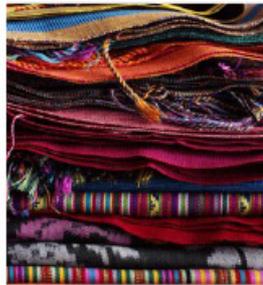
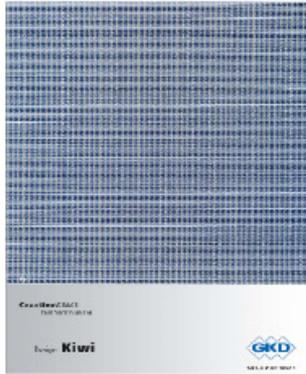


REINTERPRETAR NO
ESTENDER TRADIÇÃO

PRÁTICA INTUITIVA HO
CIÊNCIA NO TECNOLOGIA



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PAPEL TAIS
TIMOR NIAN
(The roles of
Timor Tais)

Prátika intuisaun
no nesesidades
razional iha arte no
homan

(Intuition and rational
practices in the
arts and crafts)

Markadu sosiál/
ekonómiku

(Social business
and economics)



Serimonia kulturál no identi-
dade: fetosan, umane, lia
mate no lia moris

(Cultural ceremonies and
identity)



Serimonia ofisiál: Bemvindu

Official welcoming ceremony



Various sources: online images

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!