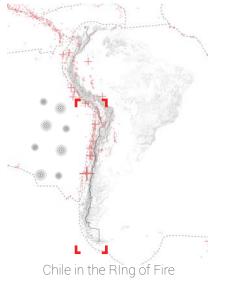
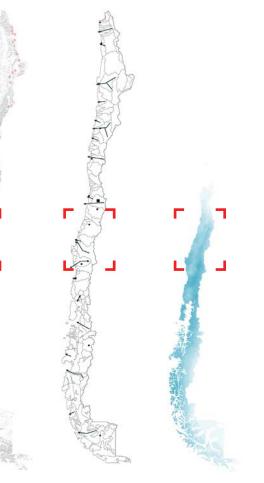
INTRODUCTION: LIVING IN THE EDGE. UNDERSTANDING NATURAL STRUCTURES

Landscape Urbanism in Chile: The case of Andalien River in Concepcion city



Earthquakes. volcanoes. tsunami's; river delta's and extreme climate rhythms shape our case study landscape

'Living in the Edge' to cope with the dynamics of its surrounding landscape. The saturation of this edge however forces people to leave safe ground.



+160

Relief + 42 Active Volcanoes Watersheds

Catastrophic Flood- Coastal Water Landscape ing. area. 2002-2006 **272.111** People

Universidad de Zaragoza-UNIZAR

PhD researcher, UNIZAR

affected

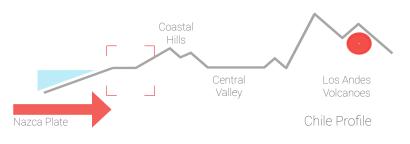
Naulaers Rob

Checa Amalia

Supervisor

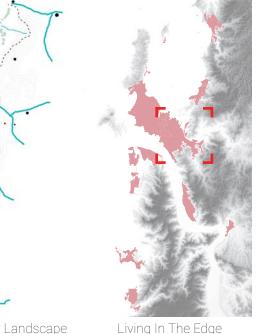
Espinosa Paulina. Supervisor

Agurto Leonardo,

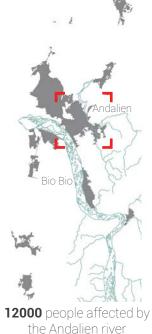




Geomorphological history of the waterscape (Millions of years). Why we live in a wetland?







+34976762032

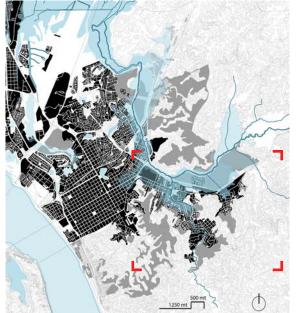
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ANALYSIS CURRENT URBAN EXPANSION - WHAT IS HAPPENING?



Proposed Urban Expansion, Plan Regulador 2002, by Maarten Demarsin



Real Estate development Valle Noble



Water Level 2006

سمممما Land scarcity

1954-2000 8,46 km² growth of which 71 % exposed to risks



Governmental development Barrio Modelo. Social housing, original budget 6906 US-\$/housing unit increased to 23.021 US-\$ after landslide.





Consequences. 2006



Understanding another way of growing



Caleta Tortel, Aysen



Palafitos, Chiloé

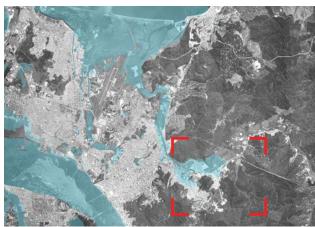


Aguita De La Pérdiz , Concepción

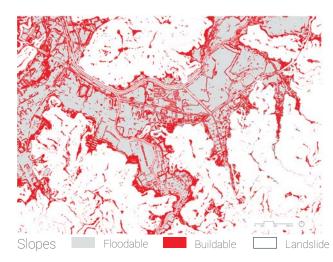
PROPOSAL: HOW TO LIVE IN THE EDGE?

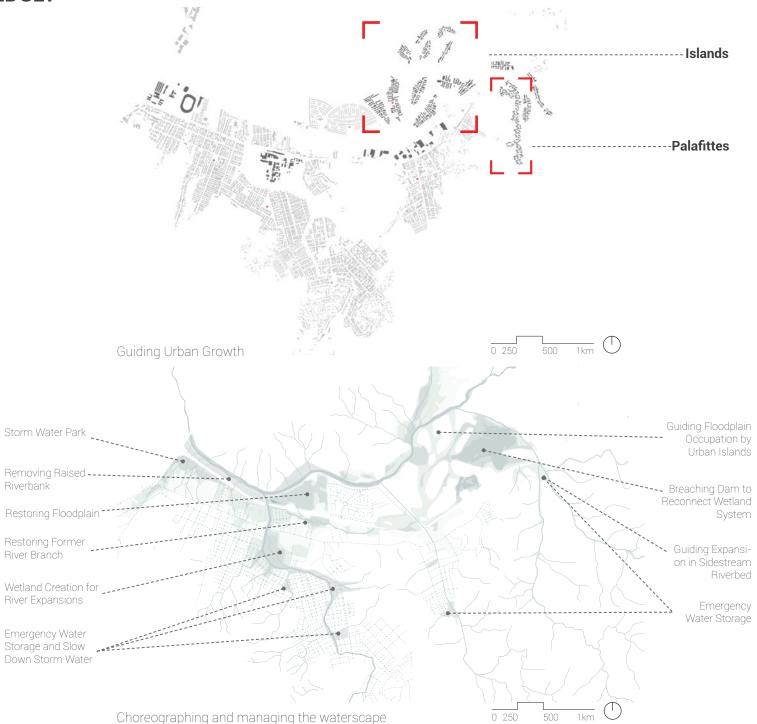
Expanding the edge:

Few buildable space between the hills and the floodplains. So, we expand the edge with **islands** and **palafittes.**



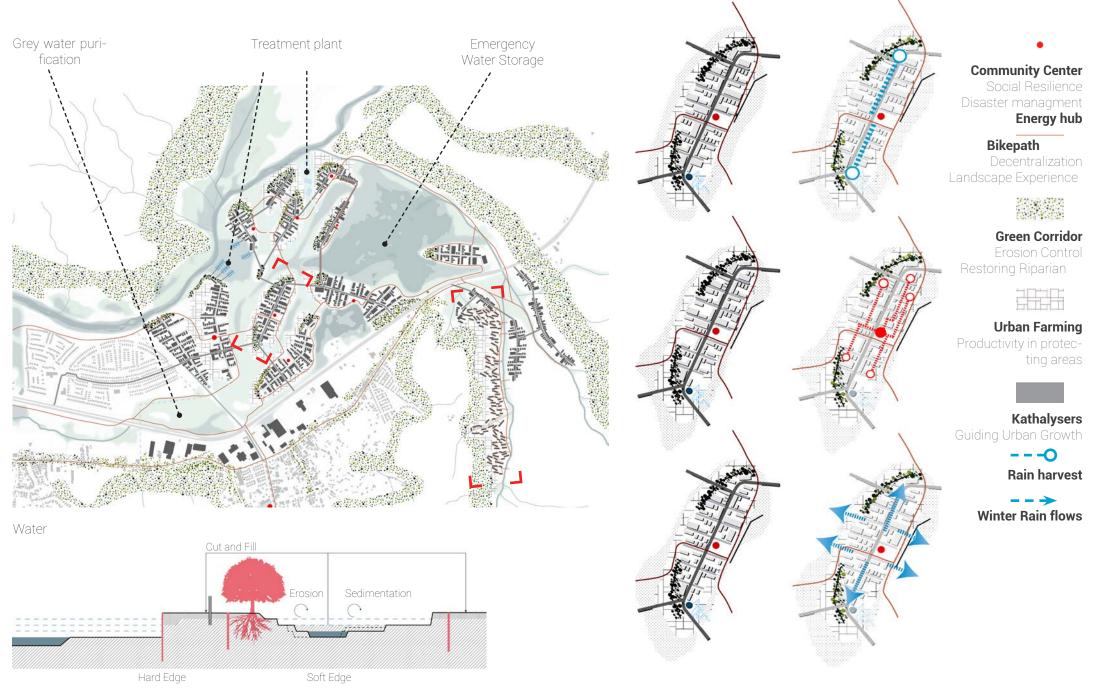
Encounter of City and Andalien River





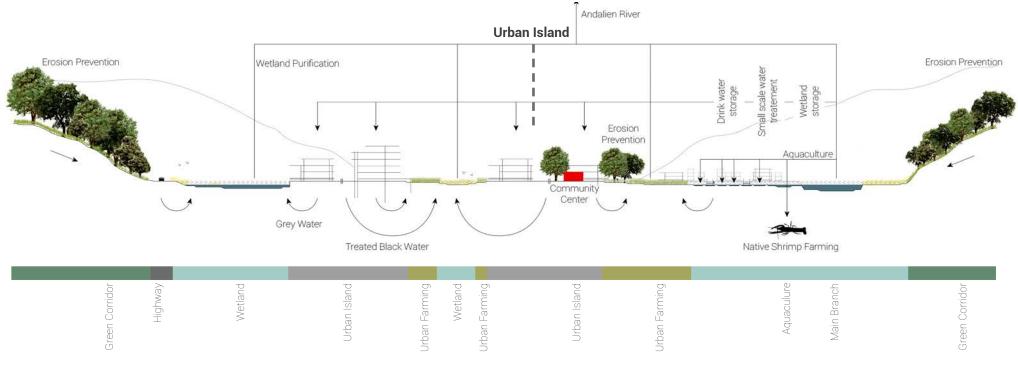
PROPOSAL - URBAN SCALE - ISLANDS

Decentralized system: Water - Energy - Emergency Management

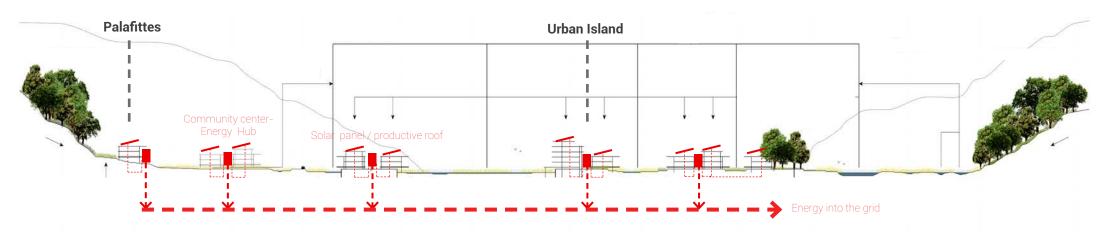


Landforming Dynamics

PROPOSAL_URBAN SCALE_SECTIONS DECENTRALIZED EMERGENCY MANAGEMENT

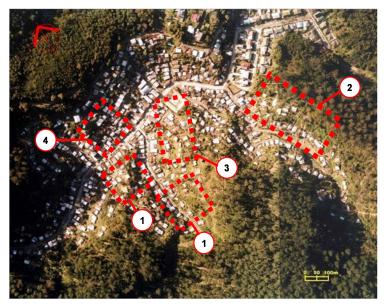


Decentralized water system

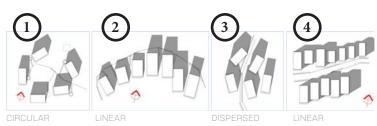


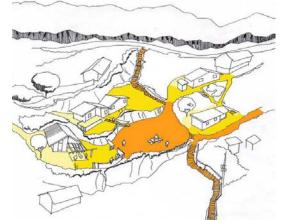
Decentralized energy system Micro-Network

ANALYSIS - SOCIAL PATTERNS ON THE HILLS



Reference Social-Spatial Pattern / levels of public spaces / communitary

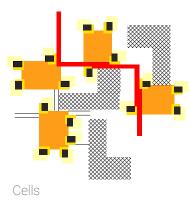




Definition of intermediate levels Inside the CELL

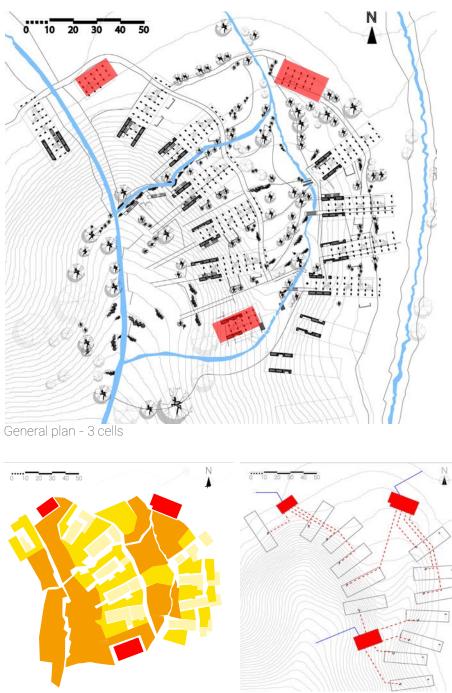
A living reference to occupy the edge the informal settlement **Aguita De La Perdiz** Concepcion.

Cells grouping an example of social resilience



COMMUNITARY SPACE OF THE CELL
INTERMEDIATE PRIVACY
MAJOR PRIVACY
HOUSING
NEIGHTBORHOOD INTRASTRUCTURE
GEOGRAPHICAL EDGES

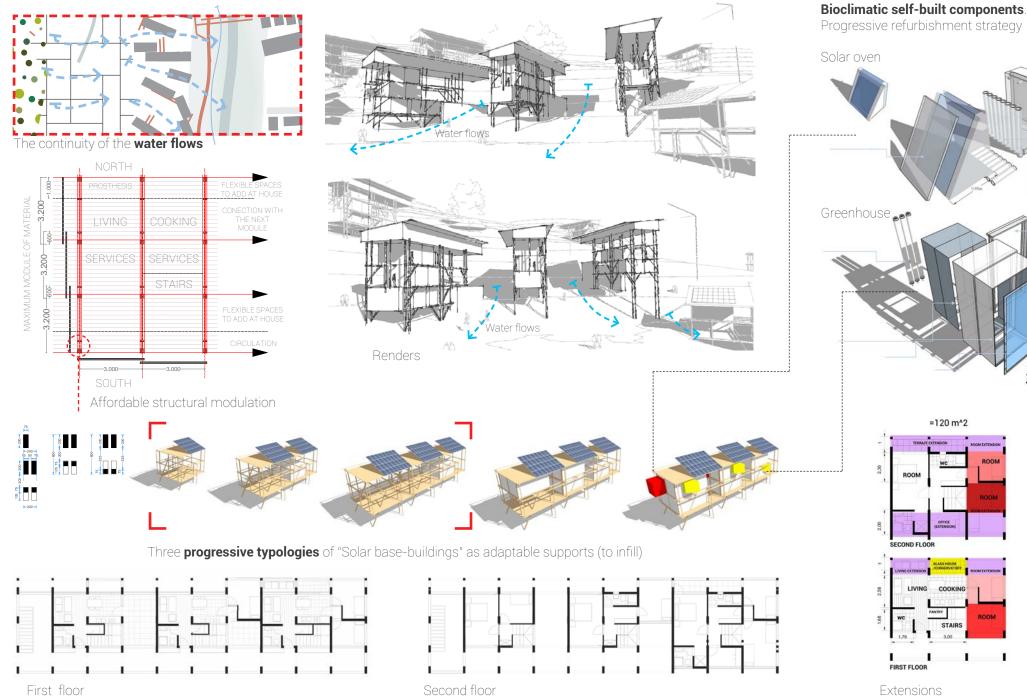
PROPOSAL-PALAFITTES



Intermediate levels of public space

Micro grid

BUILDING IN THE EDGE SELF-SUFFICIENTE AND INCREMENTAL PALAFITTE



MANAGEMENT MODEL

