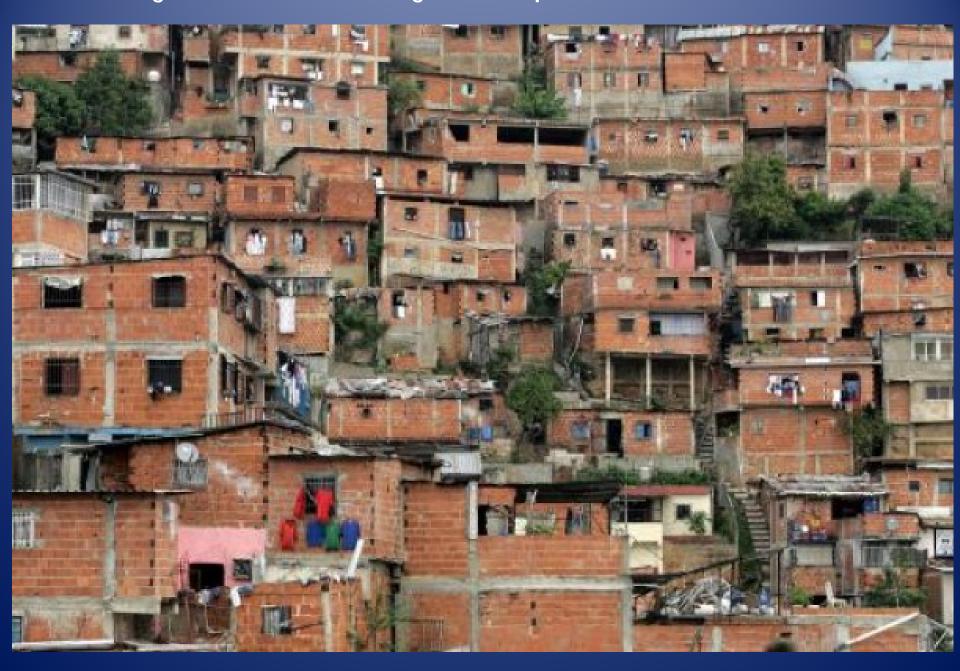
A Geodesign Framework for illegal developments in Latin-American Cities



Geodesign Environment

Occupation ruled by Development Controls

Illegal Occupation

Incidence of Natural Environment

Occupation of non developed land (legal or illegal)

Incidence of Cultural/Social Environment

Existing Occupation

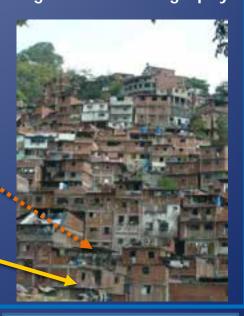
Incidence of Cultural/Social Environment

A1

Geography shapes land occupation



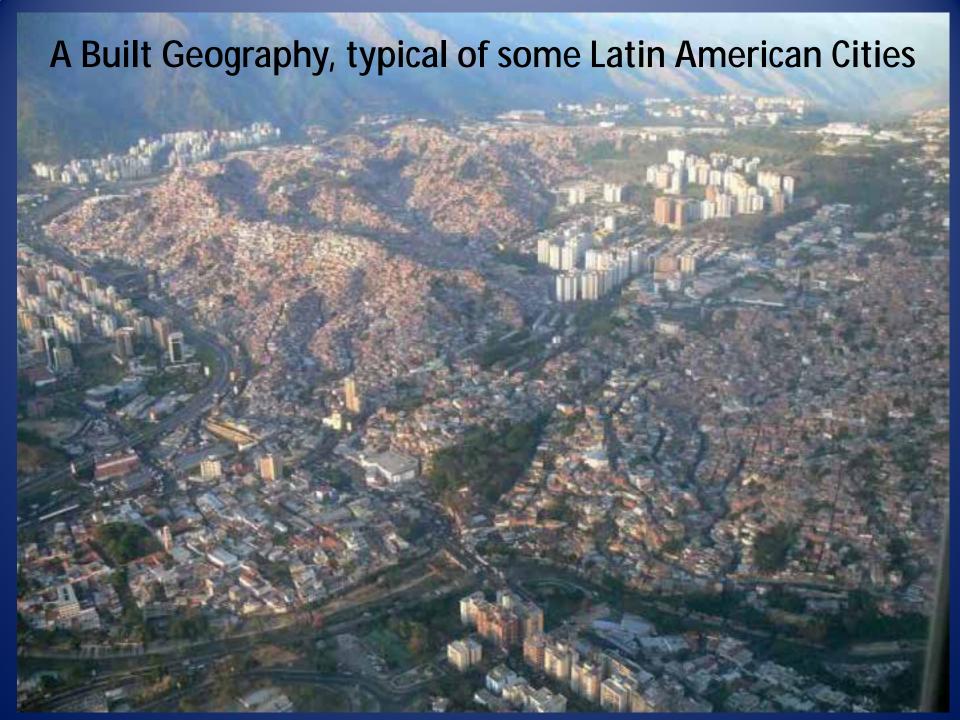
Settlers cultural patterns shape land occupation regardless of Geography



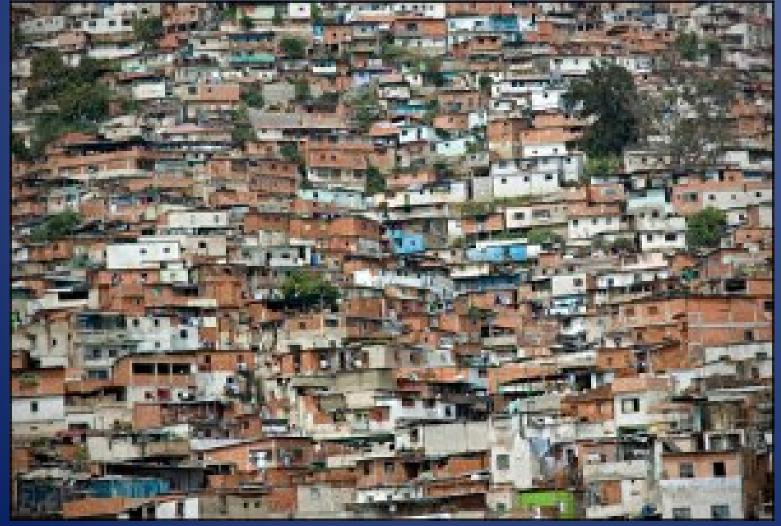
Guided by development controls

Guided by cultural patterns

Development merges into existing occupations



The challenge for Latin American Designers: How to change Geography through Geodesign.



WHERE:
Up to 50 % of urban land is occupied by illegal developments that demand change.



AND: geographic features are wrapped by development.

Barrio José Félix Ribas: located in the periphery of the city of Caracas. The biggest barrio in Latin America: population 120.000, in 96 hectares.

Can Geodesign used as a regenerative design tool, reverse the damage, caused by

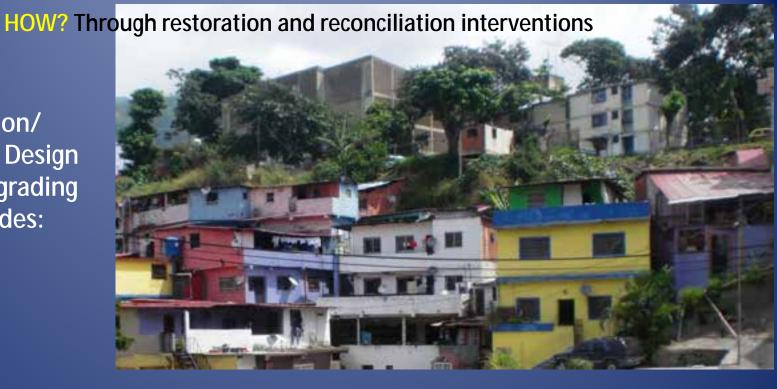




Geodesign can improve and modify the tendency of environmental deterioration

A Restoration/ Reconciliation Design Approach: Upgrading

Public Facades:



A design process that acknowledges that human and natural systems are one.

aesthetical values of the community belong to their identity



Restorative Approach: Improving Urban Facades



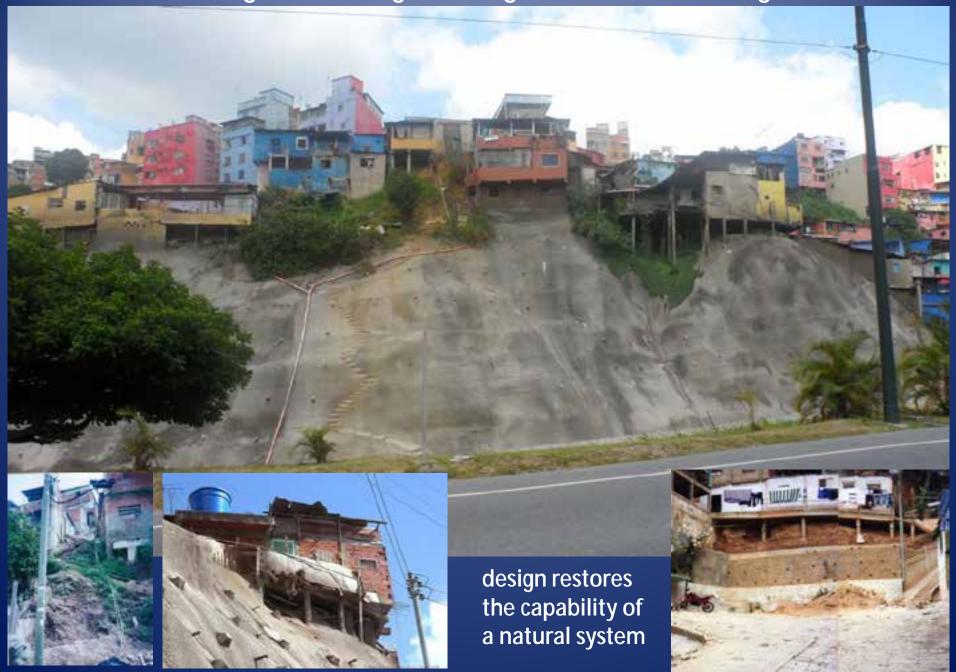
Restorative Approach: Integrating geography and the public facade





Restorative approach can become a tourist attraction.
(Casas Colgantes)

Reversing the damage through Restorative Design





RESTORE existing
Illegal developments
INSTEAD of
Government
Relocation Policies

CIUDAD CARIBIA





Restoring the general appearance of the public facade can transform the settlement in an urban icon.....

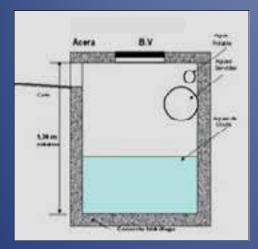
A Restorative Design Approach: Improving Public Space



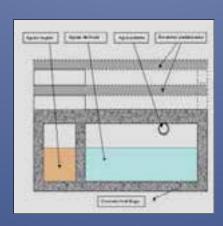
Restorative (Reconciliation) Approach: Reconstruction of the urban tissue without affecting the occupation pattern of the settlement



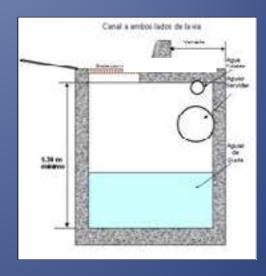
Restoration of urban infrastructure



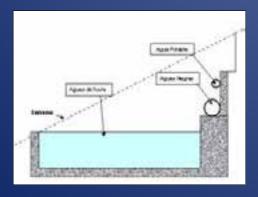
Opción 1 Sobre acera



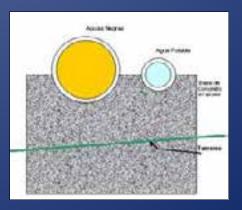
Canal sobre escalera



Opción 2 Sobre borde de calzada



Sewer System: Channel at both sides of the pedestrian way



Red domiciliaria

Change through Geodesign limited by social variables associated to residents.

Residents connection (roots) with the environment

strength measured in time of residence

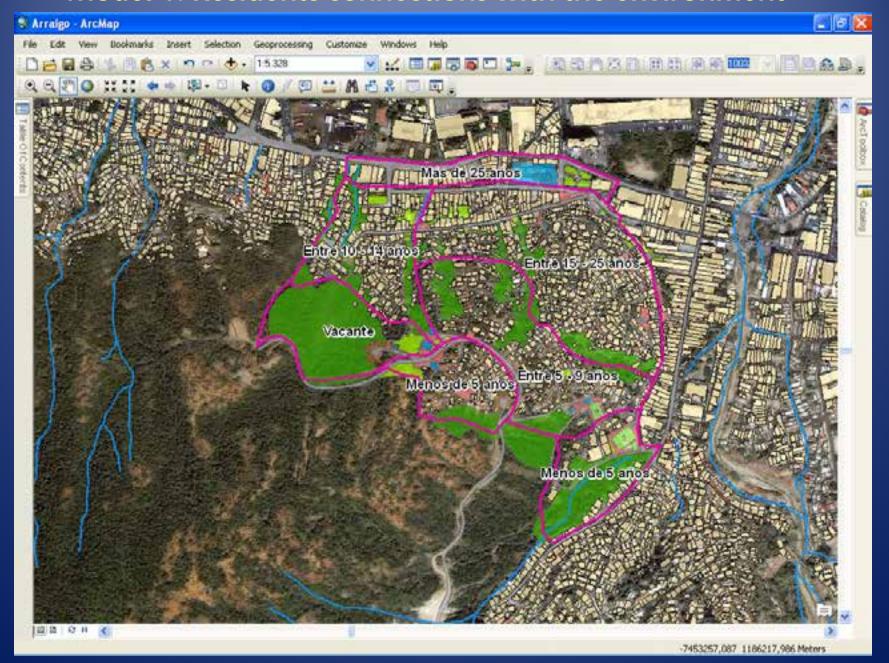
Model 1: Strength of connection with environment

Social Domains (Condominiums)

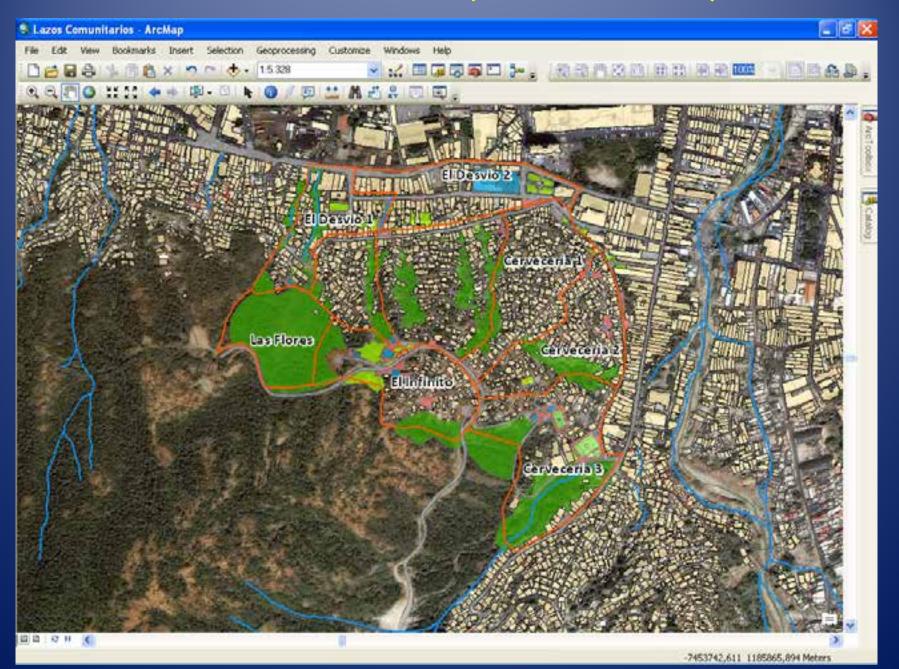
by Social ties
(continuous relations
and knowledge
between Neighbors)

Model 2: Social Domains Model 3:
Ugrading
Areas
Provides a
framework for
change
applying
concepts of
Restoration
and
Reconciliation

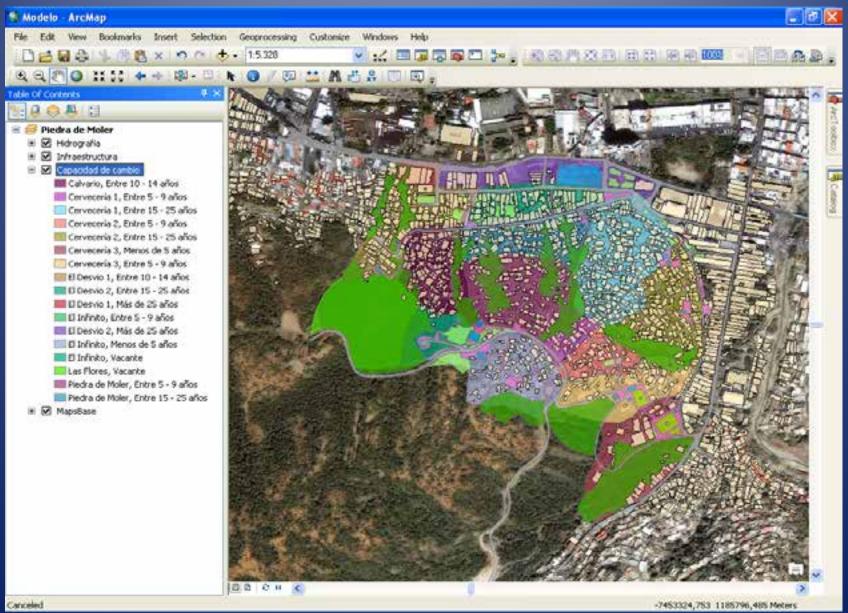
Model 1: Residents connections with the environment



Model 2: Social Domains (or Condominiums)



Model 3: Upgrading Areas



Quantifying and measuring change is the first step for minimizing damage. ArcGIS tools gives the opportunity for doing it.

An excellent example of geodesign: Total integration with geographic features. Casares, Andalucía

