innovation for inclusion through design:
sao paulo megacity sustainability
indicators

Carlos Leite, Smart Informal Territories Lab

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smart cities for sustainable growth: where?

megacities growth projection 2015 per hour | urban age, lse
Sao Paulo Megacity sustainability indicators, from formal to informal

Territorial continuous recycling process

Sao Paulo transforming megacity

Indicators of urban sustainability

Heliopolis Smart Informal Territories Lab
megacity-power dynamic-territory urban-mutations pre-existing-potentialities spatial-externalities not-neglect not-substitute upgrade recycle reuse regenerate c2c territorial continuous recycling process upgrade-with-sustainable-parameters informal-formal-dynamics reinvent tactical-urbanism eco-eco redevelopment
São Paulo megacity sustainability indicators, from formal to informal

Territorial continuous recycling process

São Paulo transforming megacity

Indicators of urban sustainability

Heliopolis smart informal territories lab
many cities inside the megacity: different territorial contexts, densities, qualities, issues, opportunities, demands, superpositions of contradictions, multiple externalities, formal-informal dynamics, mutual contamination, emerging market/emerging class/emerging territories
population: +27.000% in 100 years

territory: +40.000% in 100 years
POP. 19.8 MILLION PEOPLE = WORLD'S 3RD
GDP: US$ 381 BILLION = AUSTRIA
POP: 19.8 MILLION PEOPLE = WORLD’S 3RD
LIVING IN FAVELAS: 30% POPULATION 9% TERRITORY
HOUSING: LEAVING THE POOR OUTSIDE, REINFORCING EXCLUSION, REINFORCING NON-COMPACTNESS
SOCIAL-TERRITORIAL [UN]SUSTAINABILITY
INFORMAL SPACES REINVENTION: “HEAVEN’S LITTLE CORNER”
INFORMAL SPACES REINVENTION: PARAISSPOLIS FAVELA CONNECTIONS

© Hector Vigliecca Arch
INFORMAL SPACES EXTERNALITIES: BIOURBAN
INFORMAL SPACES EXTERNALITIES: KINOFORUM
INFORMAL SPACES EXTERNALITIES: PARK OF INTEGRATION
Global Bazaar

Shantytowns, favelas and jhopadpattis turn out to be places of surprising innovation

By Robert Newirth

The women maneuvered their crude canoes down narrow alleys of brackish water. They dipped their paddles lightly, gliding slowly past scrap-built houses elevated on spindly sticks that held the structures just beyond the reach of the tide. Here and there a head popped out of one of the homes to check who or what was passing. In the small harbor where the women beached their boats, the shoreline was a work in progress. People were filling the shallow bays, tamping down layers of trash to reclaim solid ground from the murky brown. Nearby, under a thatched-roof pavilion, one of these pounded patches stolen from the sea, a woman lit a match and put it to a pile of wood chips and sawdust at her feet. A lazy haze of smoke rose into the dusty air.

Greetings from Makoko, one of the most notorious squatter communities in one of the most notorious cities of the world: Lagos, Nigeria—a neocolonial cauldron caught in a vortex between modernity and misery. With hundreds of ATMs, scores of Internet cafes and millions of mobile phones, this bustling, towering city of between eight million and 17 million (depending on where you draw the lines and who does the counting) is fully plugged into the global grid. A hyperentrepreneurial interna-
sao paulo megacity sustainability indicators, from formal to informal

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indicators of urban sustainability

heliopolis smart informal territories lab
176 indicators of urban sustainability
**Theme #1:** Knowledge Economy (New Economy)

**Subtheme #2:** Sustainable Business

**Groups:**
- Human Resources
- Creative Economy
- Creative Class Index
- "Green Jobs" (National Classification of Economic Activities - CNAE)
- Existence of tax incentives to attract "green" companies (National Classification of Economic Activities - CNAE)
- GDP Clean Industry (National Classification of Economic Activities - CNAE)
- Local Food Production in the City
- Personal Debt/GDP Ratio
- Income Consumption
- Credit/GDP Ratio
- Default Rate
- Percentage of Population Living in Poverty
- Gini Coefficient
- Per Capita Income
- Income Generation
- Occupancy Rate (Percentage of Economically Active Population)
- Number of active companies installed in the territory
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indicators of urban sustainability

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mapping-potentialities  signalize-opportunities
co-create-possibilities  optimize-externalities
improve-creative-praxis  remix-top-down-bottom-up-approaches
connect-common-grounders  design-systems
communicate-smart-low-tech
informalize-smart-city

smart informal territories
HELIOPOLIS: 1,000,0000M² 100.000 PEOPLE
Onde deu O Primeiro Beijo?
Heliópolis
À tua prosperidade; e a minha Félia!
Chegamos ao final de mais um Festival. Não temos palavras para agradecer a todas as pessoas que acreditam em nosso projeto e nos ajudaram a expandi-lo para 13 pontos de exibição espalhados por São Paulo, transformando o FESTIVAL CINE FAVELA DE CINEMA no maior festival periférico do Brasil.

Infelizmente, os nomes dessas pessoas não puderam ser impressos em nosso programa oficial, mas antes tarde do que nunca. Seguem abaixo as pessoas que fizeram deste festival o maior de todos os tempos. Também agradeço aos realizadores que enviaram seus filmes de todos os cantos do Brasil e nos possibilitaram mostrar que o cinema periférico é de qualidade e merece cada vez mais espaço.

FICha TéCNica FiSTeAL CINE FAVELA:
Projeto Eco Heliópolis é fonte de renda para a comunidade.

Texto: Patricia Geiger - Foto: Cedeca Casa 10/Divulgação
HELIOPOLIS SYMPHONY ORCHESTRA
smart informal territories lab

a toolkit-system-lab which allows the development of inclusion-protocols and diy-co-creative-urbanism within the local territory and community:

1: mapping potentialities
2: identify opportunities
3: communicate externalities
4: improve creative practices
5: co-create toolkit systems and proposals
1. PERCEPÇÕES POSITIVAS NA COMUNIDADE DE HELIÓPOLIS: É BOM DE SE MORAR?
- uniao/convivência/senso de comunidade
- festas/alegria
- projetos sociais
- proximidade/accessibilidade ao comércio/serviços
- segurança

2. PERCEPÇÕES NEGATIVAS NO TERRITÓRIO DE HELIÓPOLIS: O QUE FALTA?
- preconceito
- poluição sonora
- consciência comunitária ("bagunça")
- áreas de lazer/parques
- lixo
- saneamento
- infra-estrutura de saúde
- moradia inadequada
- segurança

3. COMO SE COMUNICAR?
- rádio heliópolis
- redes sociais
- interação direta ("boca-a-boca")
- cartazes/jornal

INTERNATIONAL WORKSHOP 2011.12: ETEC STUDENTS
HOW MIGHT WE DESIGN A PHASED APPROACH TO MAKE GREEN ROOF TOP A CENTRAL SOURCE OF VEGETABLES, FOOD, WATER RENEWAL PROPEL LOCAL ECONOMY AND ALSO FUNCTION AS PUBLIC SPACE.
HOW MIGHT WE REALIZE THE POSSIBILITY OF WATER IN PUBLIC SPACE

INTERNATIONAL WORKSHOP 2011.12
How might we realize the possibility of water in public space

Breaching the formal and informal

<table>
<thead>
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<th>Informal</th>
<th>Hybrid</th>
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<td>Reconstruction</td>
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<tr>
<td></td>
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<td>Occupation</td>
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Urban Mobile Storytelling Game

SMS is utilized as a collaborative storytelling technology in this game that starts with the mobile phone and ends in online mapping and archiving stories, and public events or installations.

Parsons, The New School for Design

INTERNATIONAL WORKSHOP 2011.12
SimCity HELIOPOLIS

IDEAS FOR SLUM UPGRADE FROM INSIDE

- Diagnose Morphology
- Diagnose Form of Growth
- Create Courtyards
- Go Vertical
- Project Platform
- Pilot Plan. The idea spreads out in the community
public-private [improve]
private
public [a few]
público (+x=) privado
the third space: smart informal public spaces
third level system: public space improvement without removals
RECYCLE HELIÓPOLIS

PART I
Educated people sorting trash and collecting recyclables

PART II
Recycled trash [part used]

PART III

smart informal territories | workshop heliopolis 2.0 | recycle heliopolis | ramon scharff and thais imamura | são paulo 2012
RECYCLE HELIÓPOLIS
RECYCLING SYSTEM MAP

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sections

the smart informal territories lab_heliopolis
smart informal cities: from communication to co-creation: innovation for inclusion
Estética da gingga

A arquitetura das favelas através da obra de Hélio Oiticica

Paulo Oppenheim Jacques
thank you!

“cidades sustentáveis, cidades inteligentes”
new book by carlos leite

forward: jaime lerner
presentations: enrique peñalosa, elisabate franca, saskia sassen and brian mcgrath

bookman, 2012