

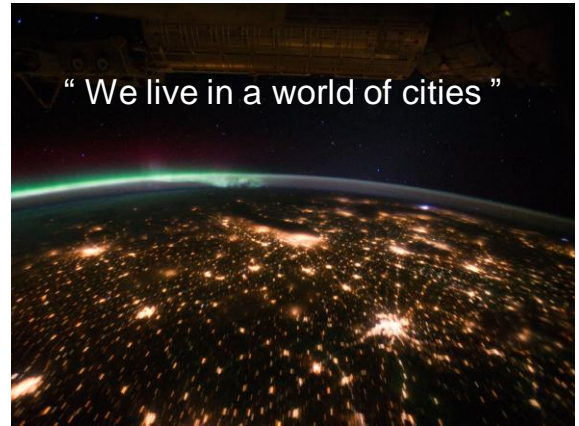
FORUM CAT 21 SCOT

The self sufficient city

Vicente Guallart
Chief Architect



December 2013



Mumbai



Tokio



Hong Kong



Yokohama



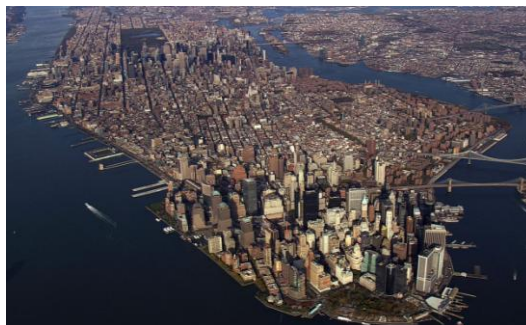
Taipei



Nairobi



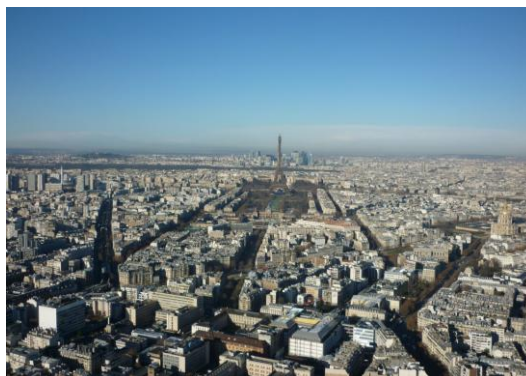
San Francisco



New York



Boston



Paris



Amsterdam



Helsinki



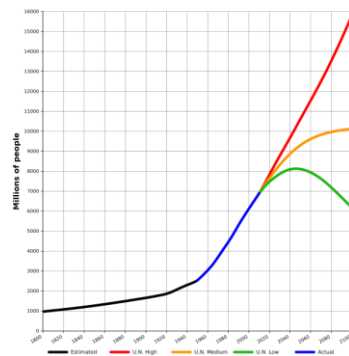
Istanbul



Melbourne

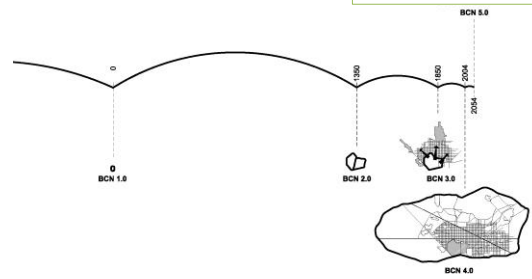


Barcelona

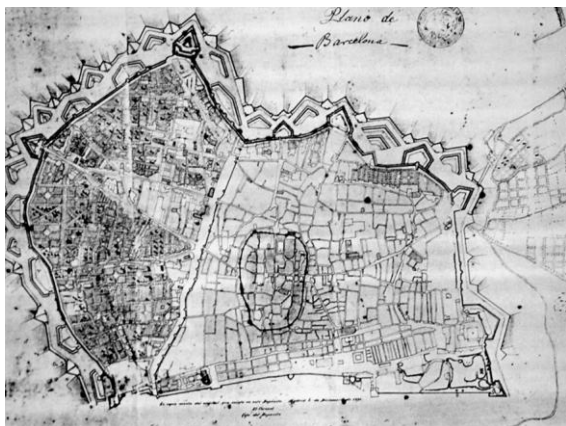
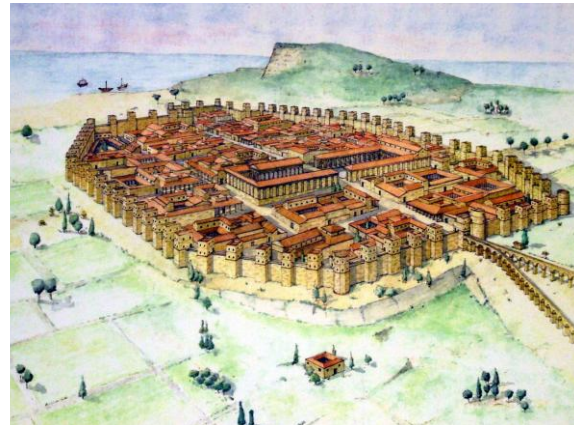
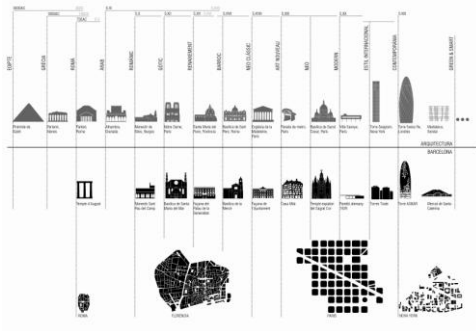




TOWARDS BARCELONA 5.0

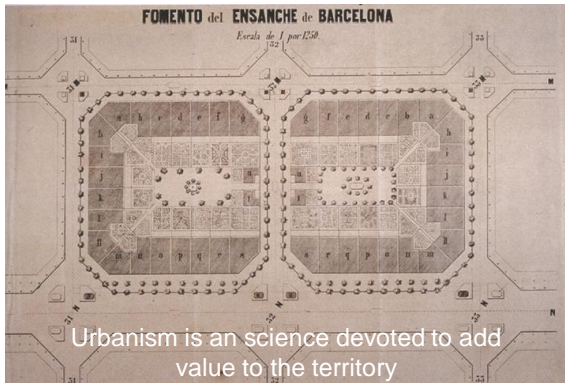


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many people to one place



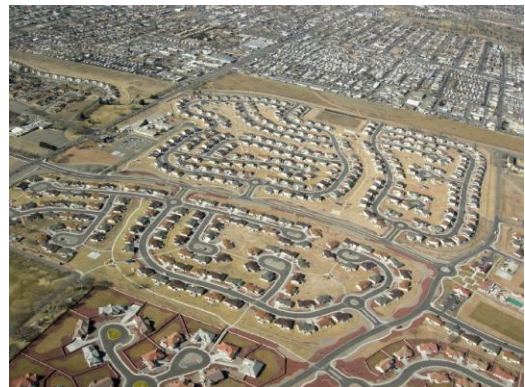
Urbanism is an science devoted to add value to the territory



1920. Building the city....



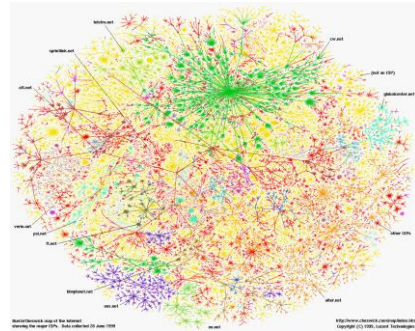
one person to many places





many people to many places

“ Internet has changed our life
but it hasn't changed our cities, yet”



how can we keep adding value to our cities?



The 8 principles to make a self sufficient city

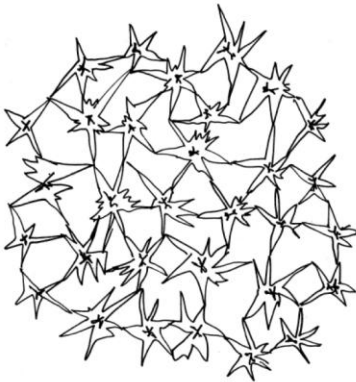
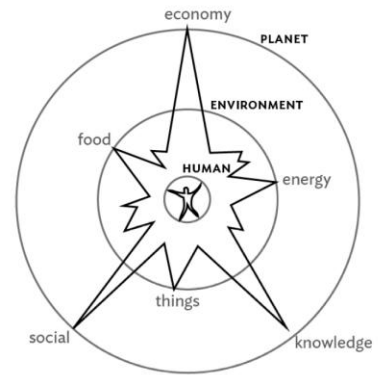
1. Define your own city model with “your city mantra”
2. Analyze the structure of your city and define your priorities
3. Rethink your city systems, not just upgrade them.
4. Develop the economy of city services with partners
5. Make your city more resilient and promote long term investment
6. Build a liveable city, increasing public space for people
7. Change your organization by breaking the silos
8. Work with other cities and be part of the city protocol society

The 8 principles to make a self sufficient city

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Barcelona have a Plan

Habitat Urbà



BARCELONA NEW MANTRA

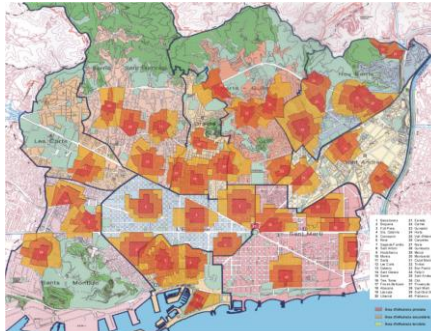
“Productive neighborhoods at human speed, inside a hiperconnected zero emissions metropolis”

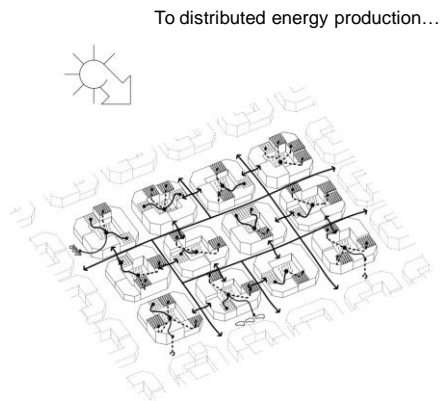
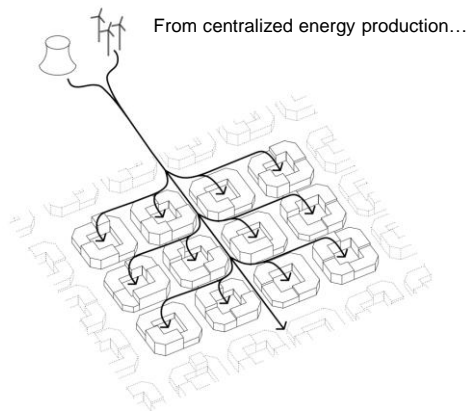
“Many slow cities inside a smart city”

Habitat Urbà

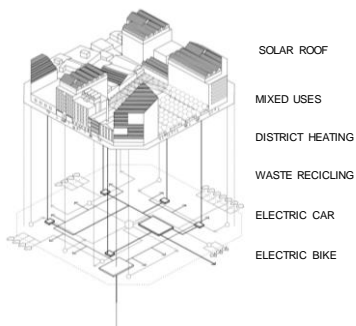
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Domini Construït. Mercats. Funcions Urbanes. Àmbit d'influència

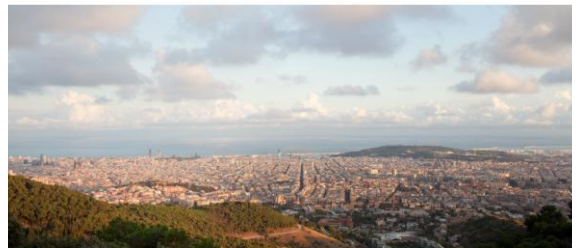
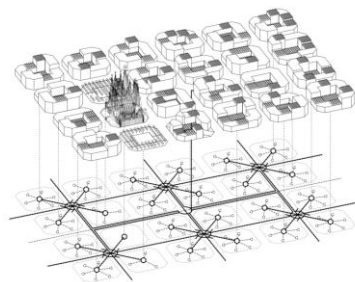




Self-sufficient blocks



The city as a network of networks

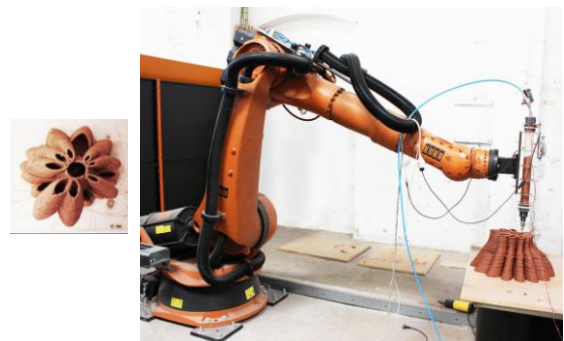




2013 Barcelona a healthy city, but with very few industry



IAAC Barcelona. How information produces form



Sasha Jokic, Starsk Lara and Nasim Fashami. Professor Marta Male-Alemany

Fab Lab Kids



Habitat Urbà. Oficina de l'Arquitecte en Cap. Octubre 2013



Automoció, Nautica



Medicina



Construcció



Alimentació

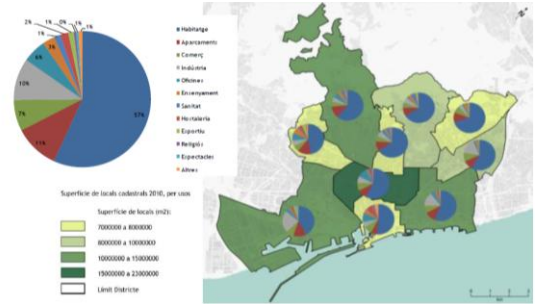
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Habitat Urbà. Oficina de l'Arquitecte en Cap. Octubre 2013

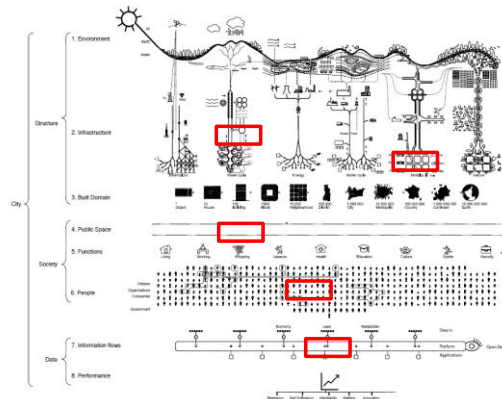
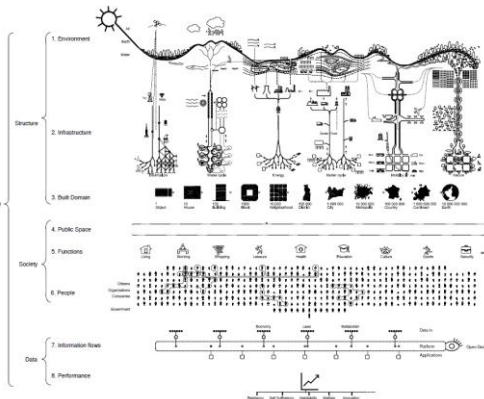
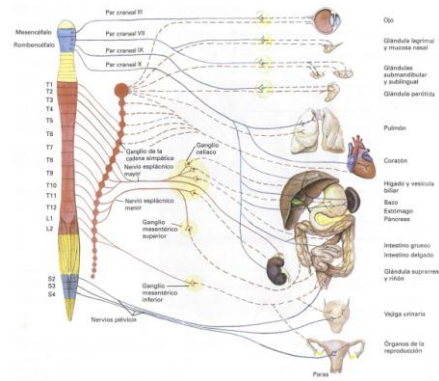
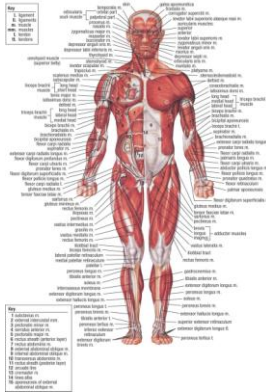
Societat. Activitats, en m2 sostre construït, per districtes





The 8 principles to make a self sufficient city

1. Define your own city model with "your city mantra"
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6. Build a liveable city, increasing public space for people
7. Change your organization by breaking the silos
8. Work with other cities and be part of the city protocol society

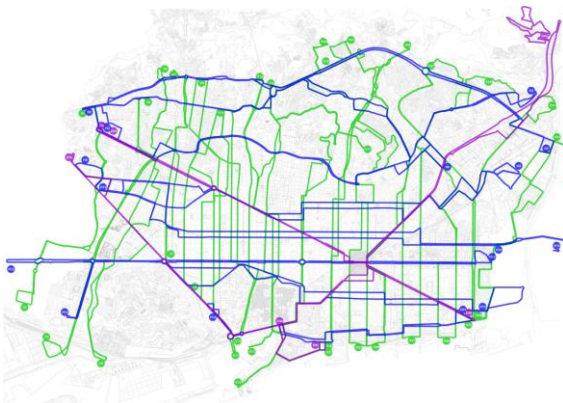


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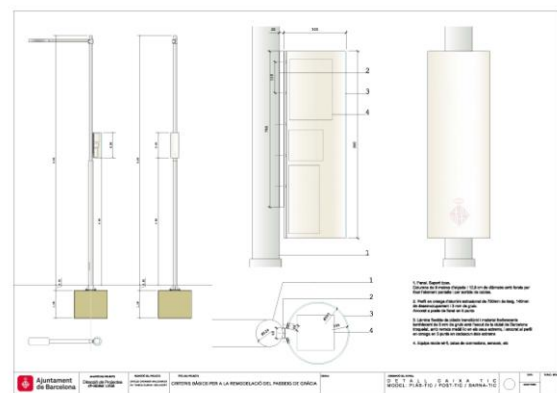
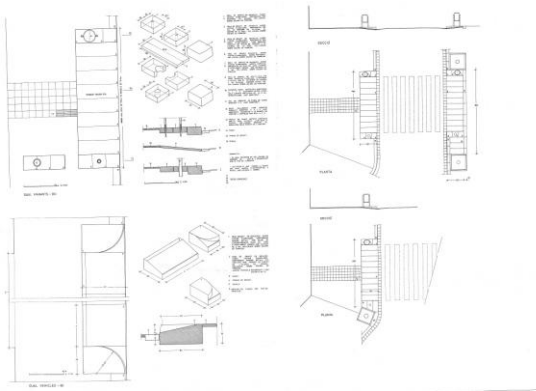
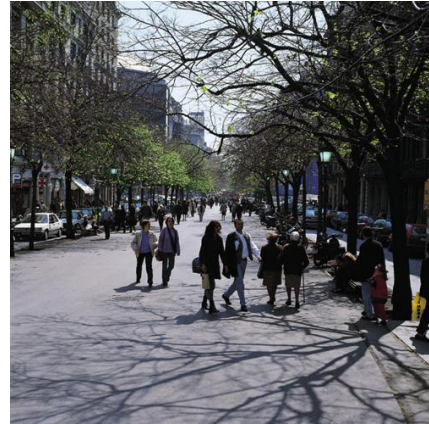


Barcelona today's bus network



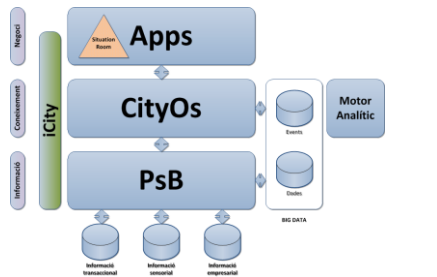
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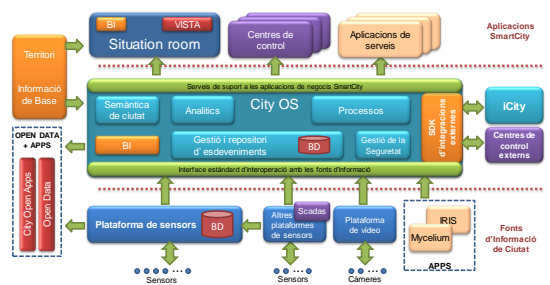




Annex I. Compendio de projectos en Barcelona
(2) Plataforma urbana



Arquitectura Smart City: Esquema de bloques



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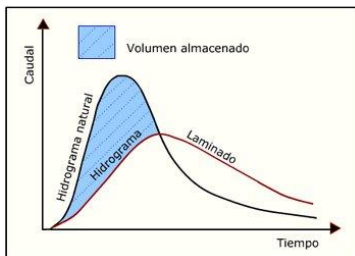


Habitat Urbà - Medi Ambient i Serveis Urbans

Gestión avanzada de la red. Operativo en tiempo de lluvia. Pluviómetros. Episodio 19/07/2011



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Hàbitat Urbà



Hàbitat Urbà



Plaça de les Glòries

Hàbitat Urbà

ESTAT ACTUAL: costat mar de la plaça



Plaça de les Glòries

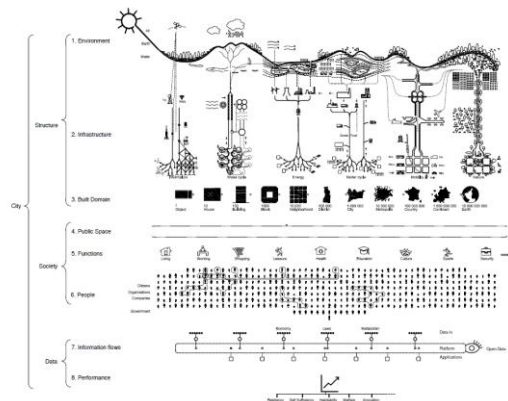
Hàbitat Urbà

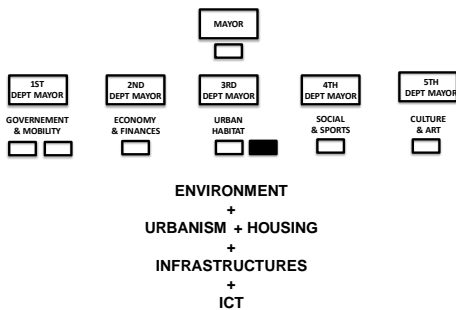
PROPOSTA: costat mar de la plaça



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URBAN HABITAT

ENVIRONMENT
+
URBANISM + HOUSING
+
INFRASTRUCTURES
+
ICT

Habitat USA

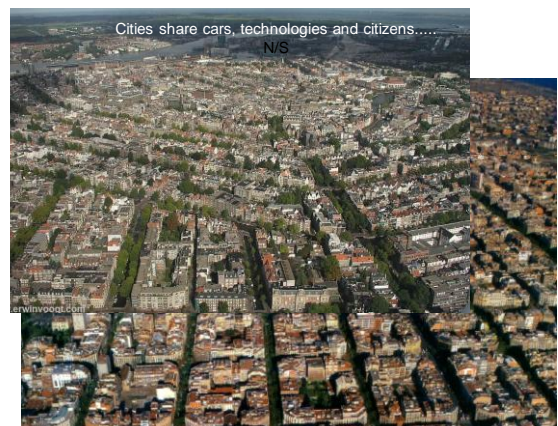
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Now many organizations are planning many indicators and ratings for cities

- Star Community Index:** The new US framework intended to create a new standard for the whole country.
- Green Star Communities:** The national Australian community assessment framework
- LEED-ND:** USGBC's rating system for neighborhood design along principles of smart growth, urbanism and green building.
- Green City Index:** Siemens-led urban environmental impact study, with ratings completed by independent panel.
- The Sustainable City Index:** Britain's sustainability index, ranking British cities according to sustainability, with participation from GE.
- BCN Ecologia:** Indicator set to track progress towards the BCN-Ecologia urban sustainability model.
- BCN Agenda 21:** Assessment tool for tracking progress towards Barcelona's Agenda 21 commitments.
- City of Santa Monica:** Award-winning "sustainable city plan," produced and used in Santa Monica.
- Masdar:** Sustainability Action Plan used to measure progress toward sustainability goals for the project.
- cittaslow:** Framework for measuring progress toward increasing urban quality of life through Slow Movement goals. Example of specific goal-oriented framework.
- UN CSD Indicators:** Official UN sustainable development indicator set from the Commission for Sustainable Development.

Cities share cars, technologies and citizens.....





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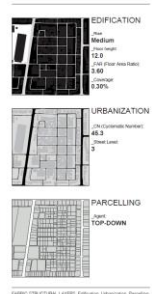
CITY PROTOCOL



URBAN FABRICS



EUP



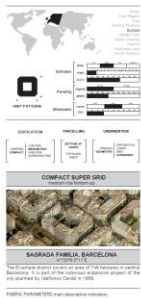
FABRIC SAMPLE(S) from descriptive indicators

FABRIC SAMPLE(S) on a real satellite picture

FABRIC STRUCTURE, LAYOUT, Edification, Urbanization, Parceling

Habitat Urbá. Oficina de l'Arquitectura en Cap, Octubre 2013

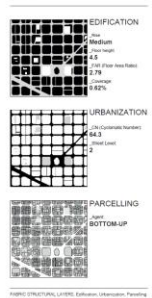
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EUP



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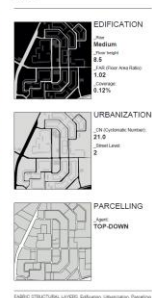
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CITY PROTOCOL



URBAN FABRICS



EUP



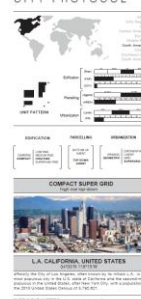
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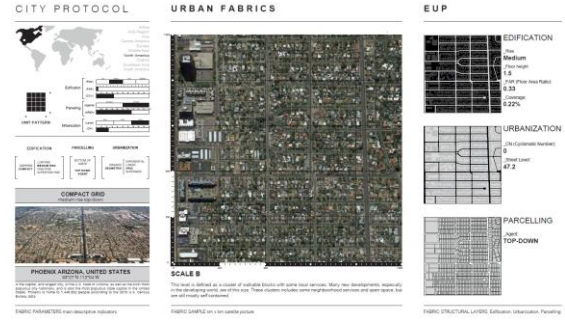
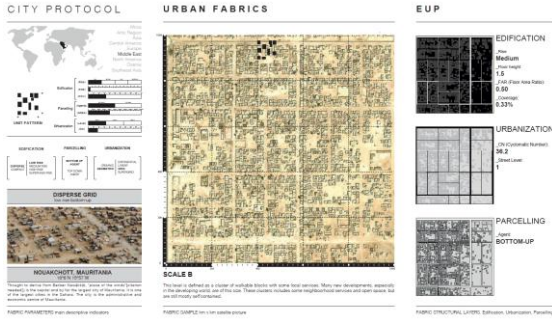
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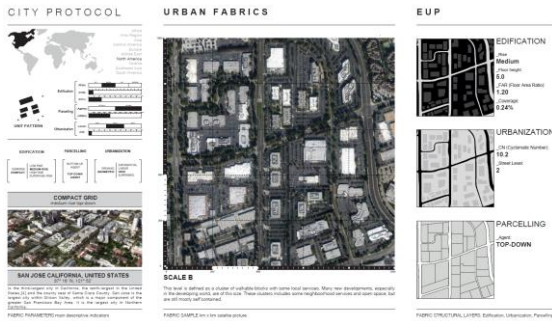
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CITY PROTOCOL PROJECTS

trash

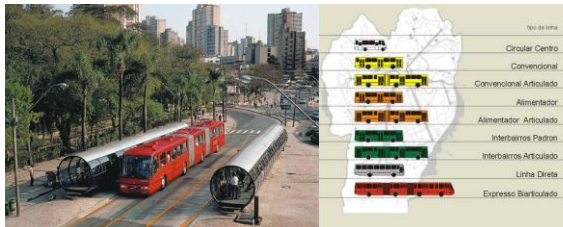


burn



flight

CITY PROTOCOL PROJECTS



Curitiba bus network



www.cityprotocol.org



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