

Progettazione sostenibile del territorio 2010-2011



**Prof. Giuseppe Longhi
Arch. Anna Omodeo
Arch. Andrea Pennisi**

“New york city theater”: promotori



Link:

<http://en.archmedium.com/Concursos/NYTC/Downloads.php>

“New york city theater”: stato di fatto



NYC: The plan

NYC.gov
Open Government

Residents | Business | Visitors | Government | Office of the Mayor

planNYC

- HOME
- BACKGROUND
- THE PLAN
 - LAND
 - WATER
 - TRANSPORTATION
 - ENERGY
 - AIR
 - CLIMATE CHANGE
- EMISSIONS INVENTORY
- GREENYC
- NEWS & EVENTS
- DOWNLOADS

PLAN NYC REPORT

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On Earth Day 2007, Mayor Bloomberg announced PlaNYC.

Read the PlaNYC Progress Report 2010

NEWS & EVENTS

Mayor Bloomberg and Environmental Protection Commissioner HOLLOWAY Announce New Green Infrastructure Plan to Reduce Sewer Overflows, Improve Quality of City Waterways and Save \$2.4 Billion

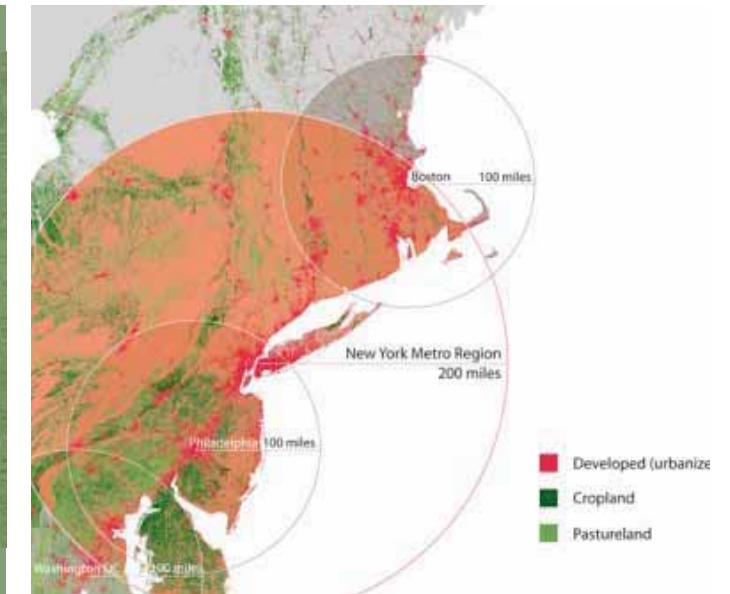
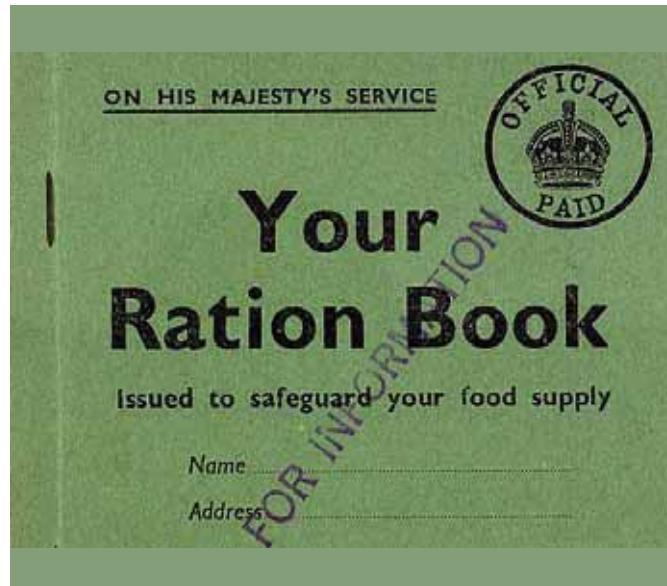
Read the press release

Tuesday, September 21, 2010

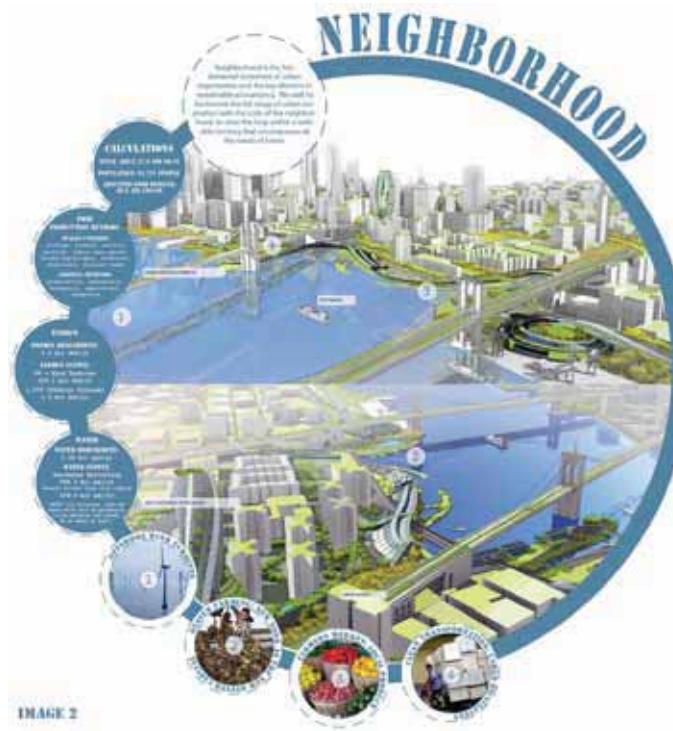
STOP ← 14 of 20 →

Link:
<http://www.nyc.gov/html/planyc2030/html/home/home.shtml>

NYC: Foodprint



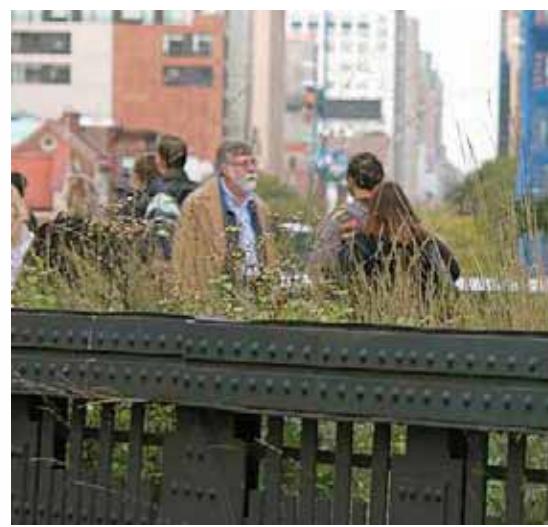
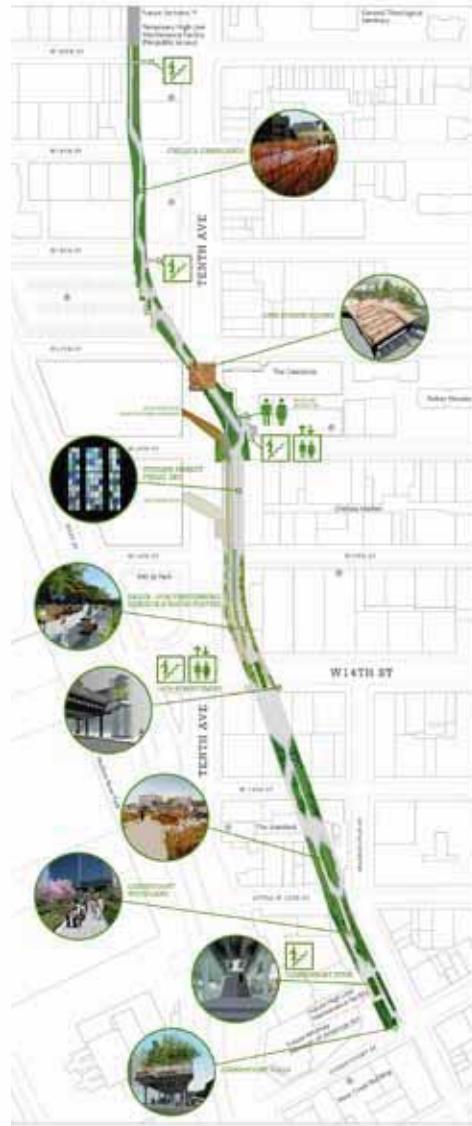
NYC: Steady State project



Link:
<http://www.nycsteadystate.com/>

<http://vod.blosite.org>

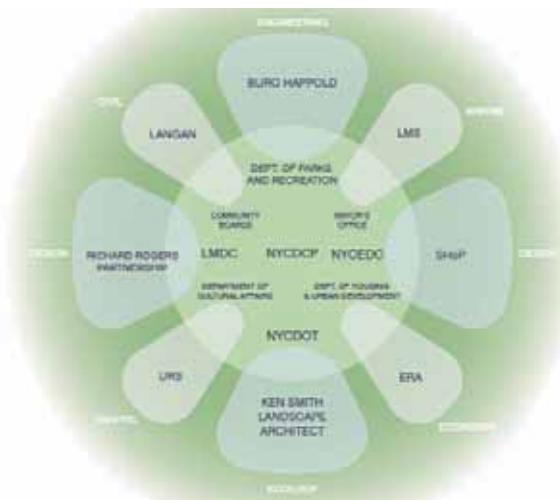
NYC: Department of city planning High Line Park_in esecuzione



Link:
<http://www.thehighline.org>

<http://vod.blosite.org>

NYC: Department of city planning Hudson River Park _in esecuzione



Link:
<http://www.hudsonriverpark.org/index.asp>

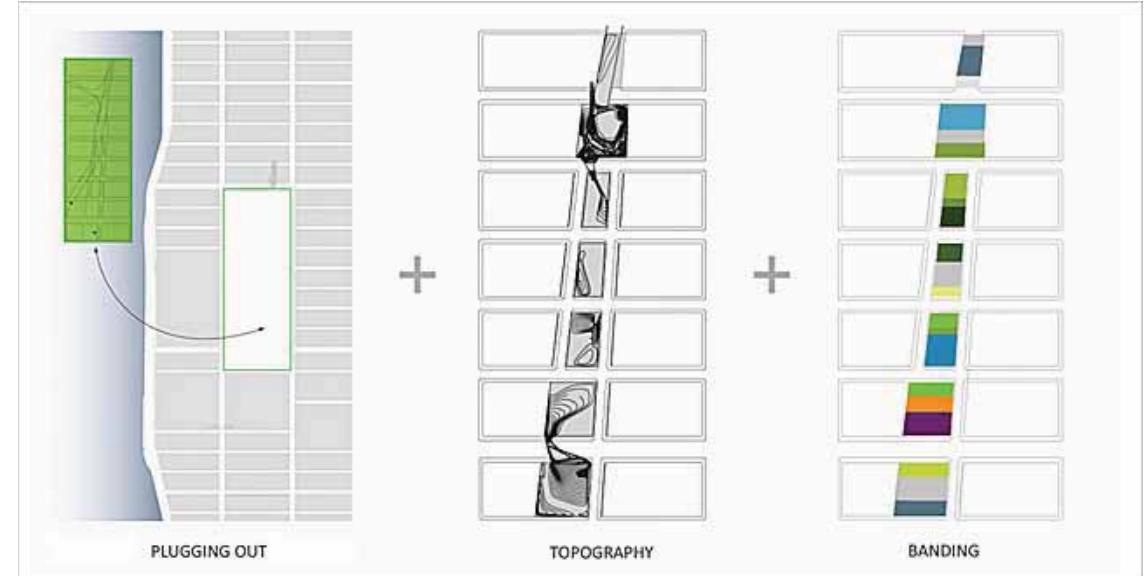
<http://vod.blosite.org>

NYC: Department of city planning HudsonYard_in discussion



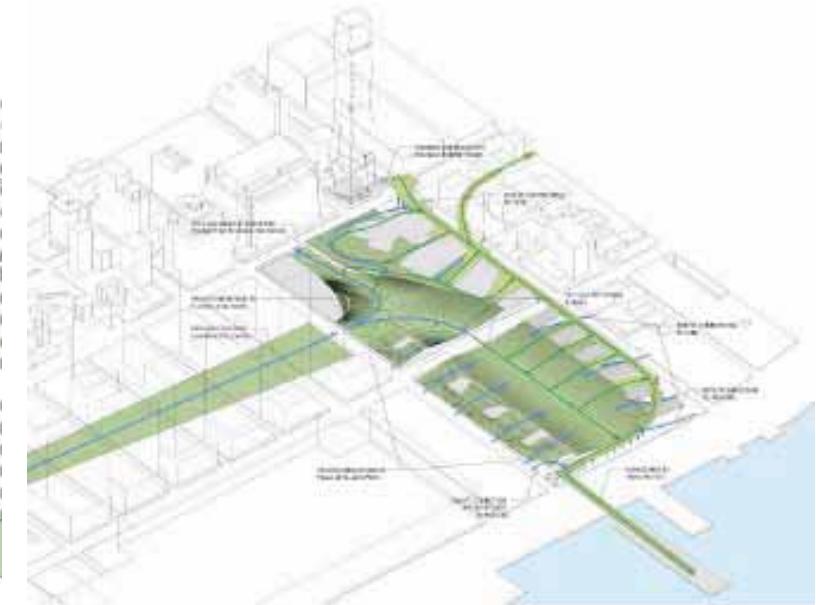
Link:
<http://www.nyc.gov/html/dcp/html/hyards/hymain.shtml>

NYC: Department of city planning HudsonYard Competitions: WorkAC Design



NYC: Department of city planning

HudsonYard Competitions: Steven Holl Design



Link:
<http://www.stevenhall.com/project-detail.php?type=&id=97>



"New York City Theater"





NYC THEATER DESIGN_PURPOSE

ambiente

La crescita della popolazione mondiale ad alto reddito apre avvicina il rischio di carestia. E' necessario cambiare stili di vita e modo di produrre...

produzione di energia
basso carico

produzione di alimenti
bassa impronta

teatro aperto

a giovani idee
diverse espressioni
creare lavoro creativo
per i giovani

stimolare nuovo sapere

Il NYCT PROJECT vuole aprire - a fianco a Broadway - un nuovo ciclo di creatività legata alla rappresentazione teatrale capace di offrire nuovo lavoro a persone diverse, accogliere e coinvolgere persone (artisti) da altri luoghi...

importare

produrre
esportare

*Convenzione internazionali
01_Convenzioni_tab_sintesi
Un_giusto_futuro.pdf*

Il successo degli spettacoli di Broadway ha ridotto le possibilità creative del teatro a NYC. E' ridotta la capacità di importare nuove idee espressive e il lavoro nello spettacolo è concentrato sulla produzione degli spettacoli classici.

NYC THEATER DESIGN_PURPOSE

temi possibili

creatività +
urban farm

+ spazio bio
+ cibo
+ energia

teatro

ricognizione sulle possibili forme espressive e
sull'atrasformazione dello spazio fisico dello
spettacolo... indagare le categorie di:
- formale/ informale
- spazio fisico / spazio virtuale
- hight-tech / low-tech

crowdsourcing / theatre

eso / endo macchina nel teatro

Teatro del mondo

Uffafabrik Berlin

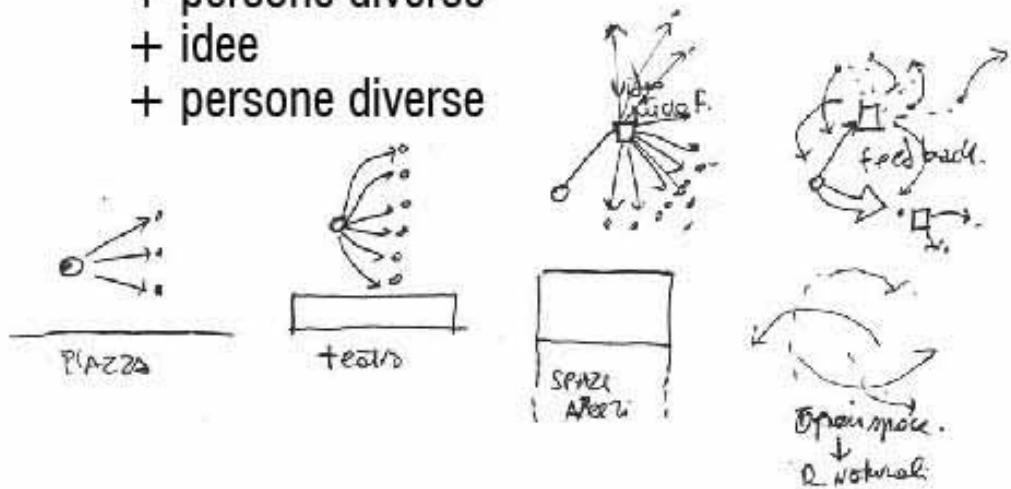
Palazzina Liberty Dario Fo

intrusione +
mitigazione

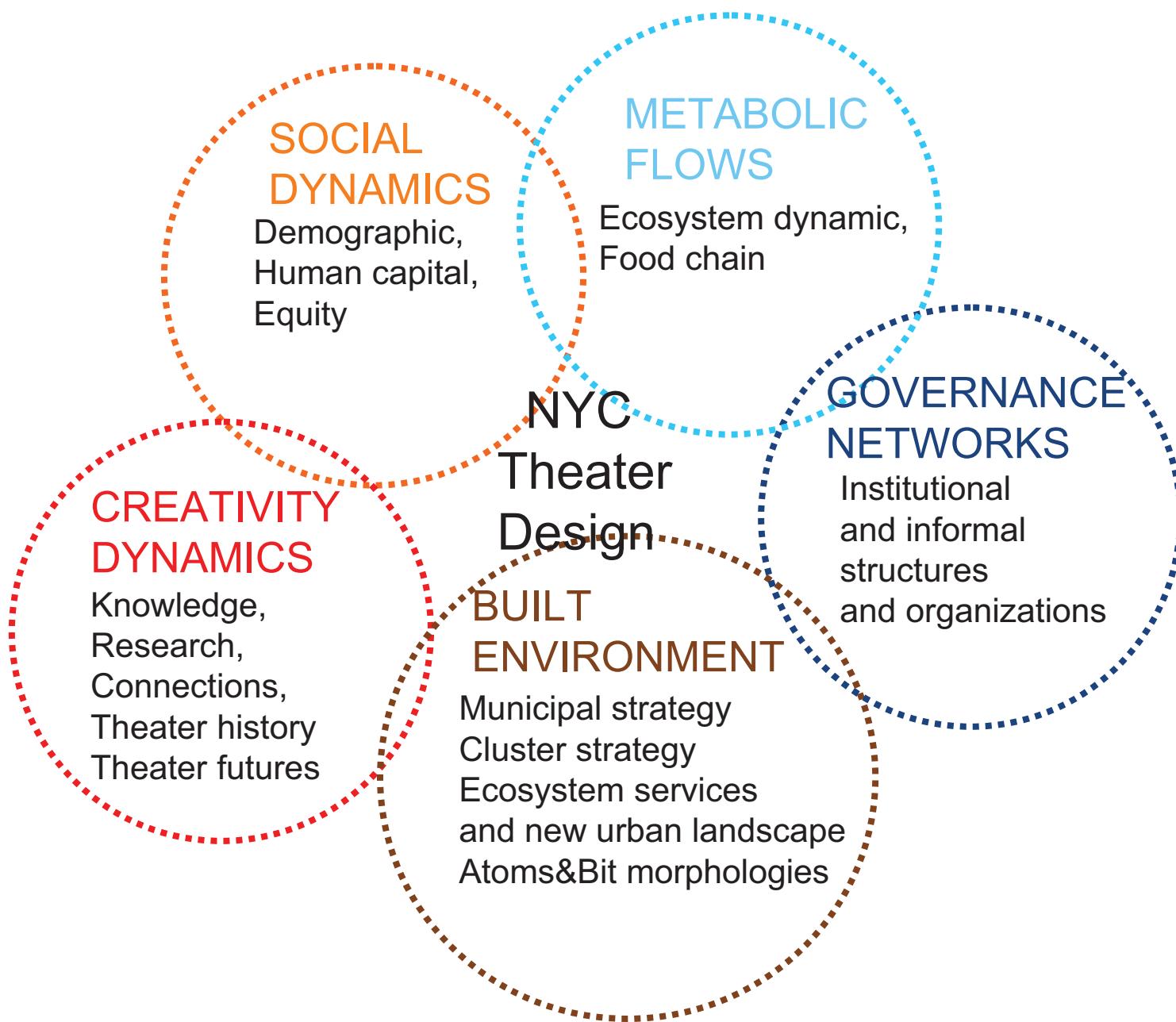
+ consumo di suolo
+ edifici
+ opere di compensazione RN

tolleranza
+ creatività

+ ospitalità
+ persone diverse
+ idee
+ persone diverse



NYC THEATER DESIGN INDEX



1. CREATIVITY DYNAMICS

Knowledge:

Map of Knowledge structures in Manhattan

Research:

Map of the institutions connected with research
in the field of the art and theater

Connections:

Map of the net in the field of art and theater

Theater history:

Map of the NYC theater structure Mental Map of
the historic step of theater experience

Theater futures:

Mental Map of the best Theater practices

Map of scenarios

2. SOCIAL DYNAMICS

Demographic trend:
People involved in the project

Human capital:
Qualities of the people

Capability to stay connected
Relationship

Equity

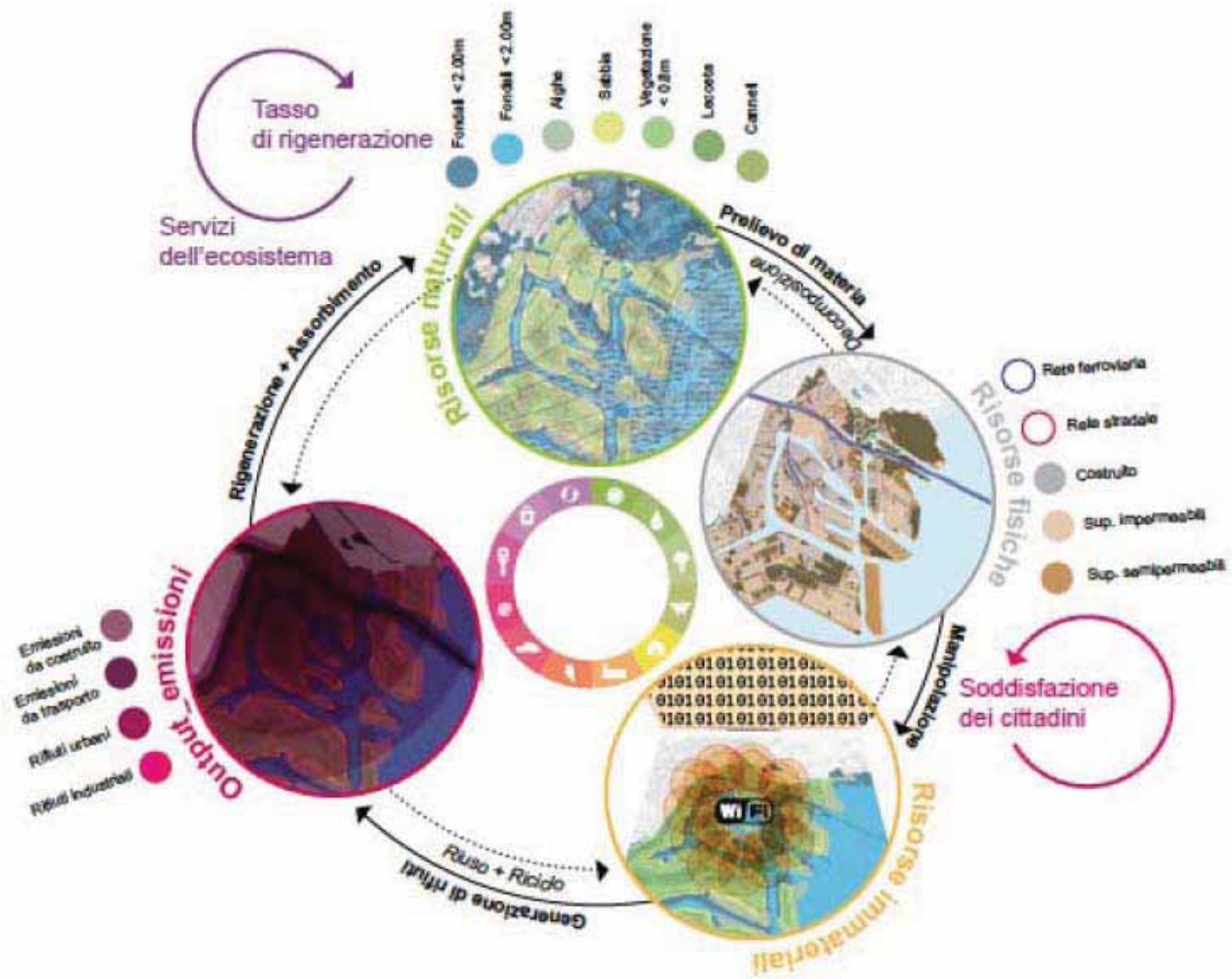
3. METABOLIC FLOWS

Ecosystem dynamic

Food chain

Metabolic strategy for the design

METABOLISM MAIN ELEMENTS



METABOLISM SWAT ANALYSIS

INPUT

In coming of Natural resources, historc, human, cultural

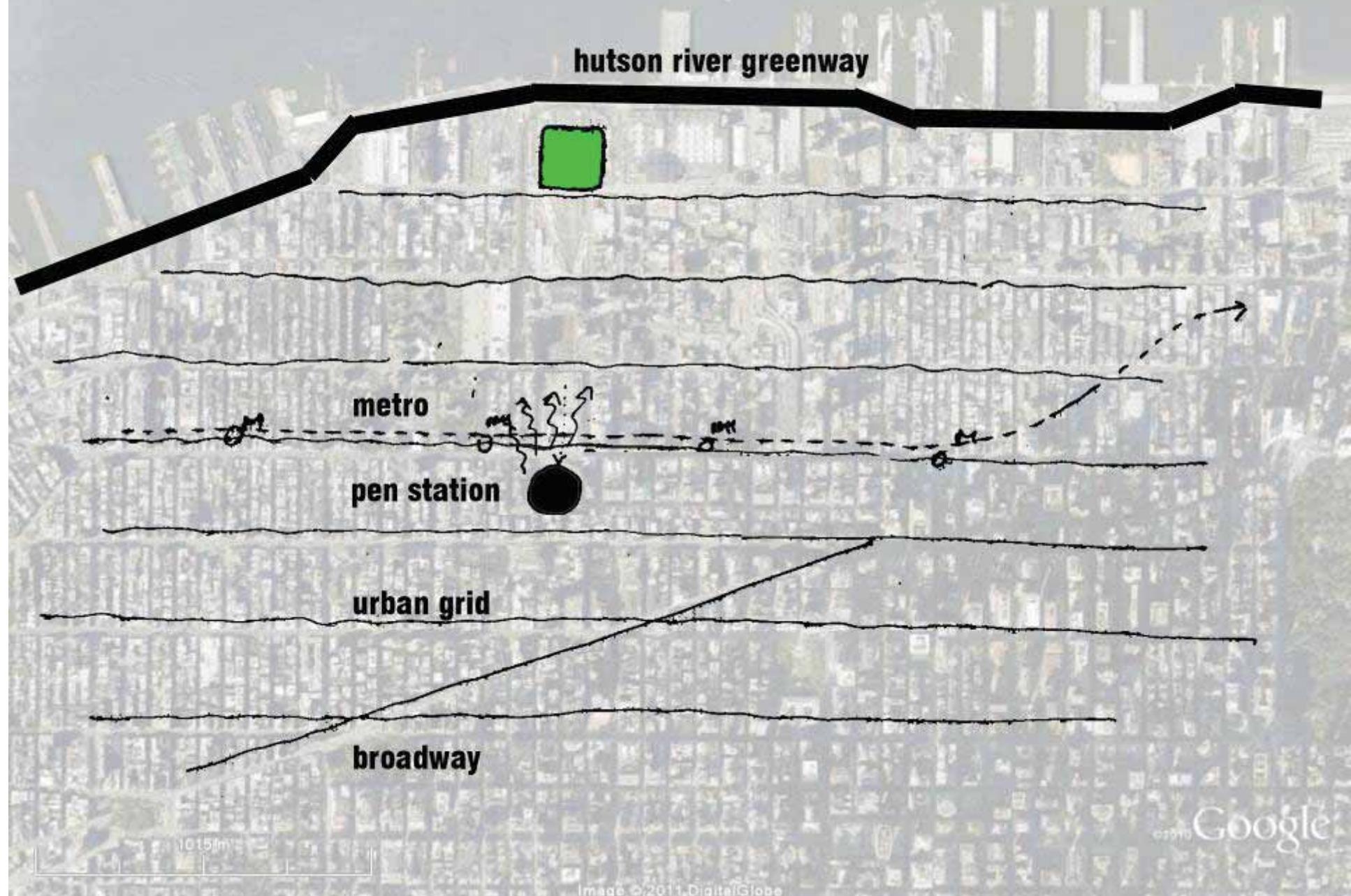
OUTPUT

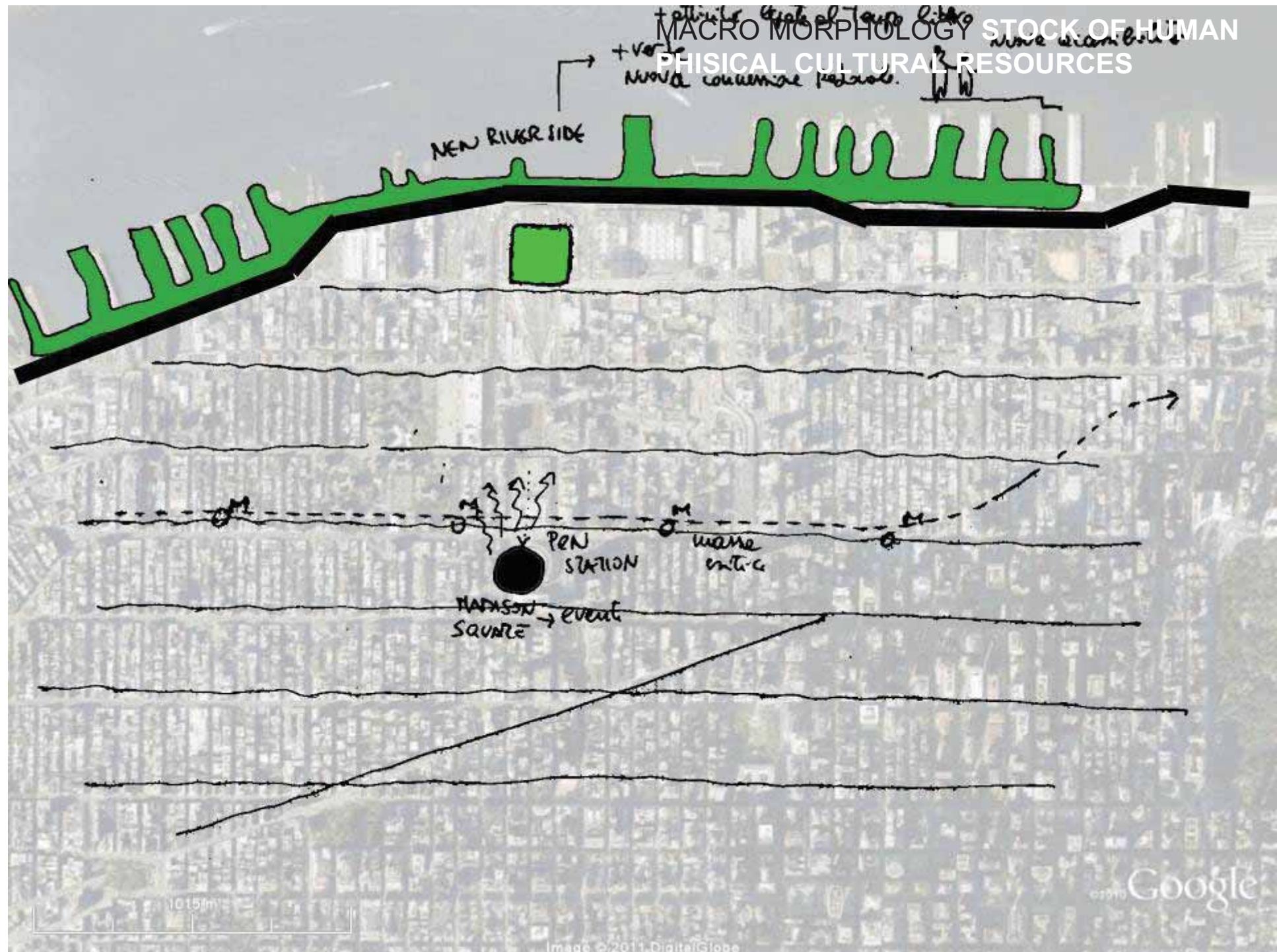
Export of culture	Emissions
International attracion	
shows	New creativity

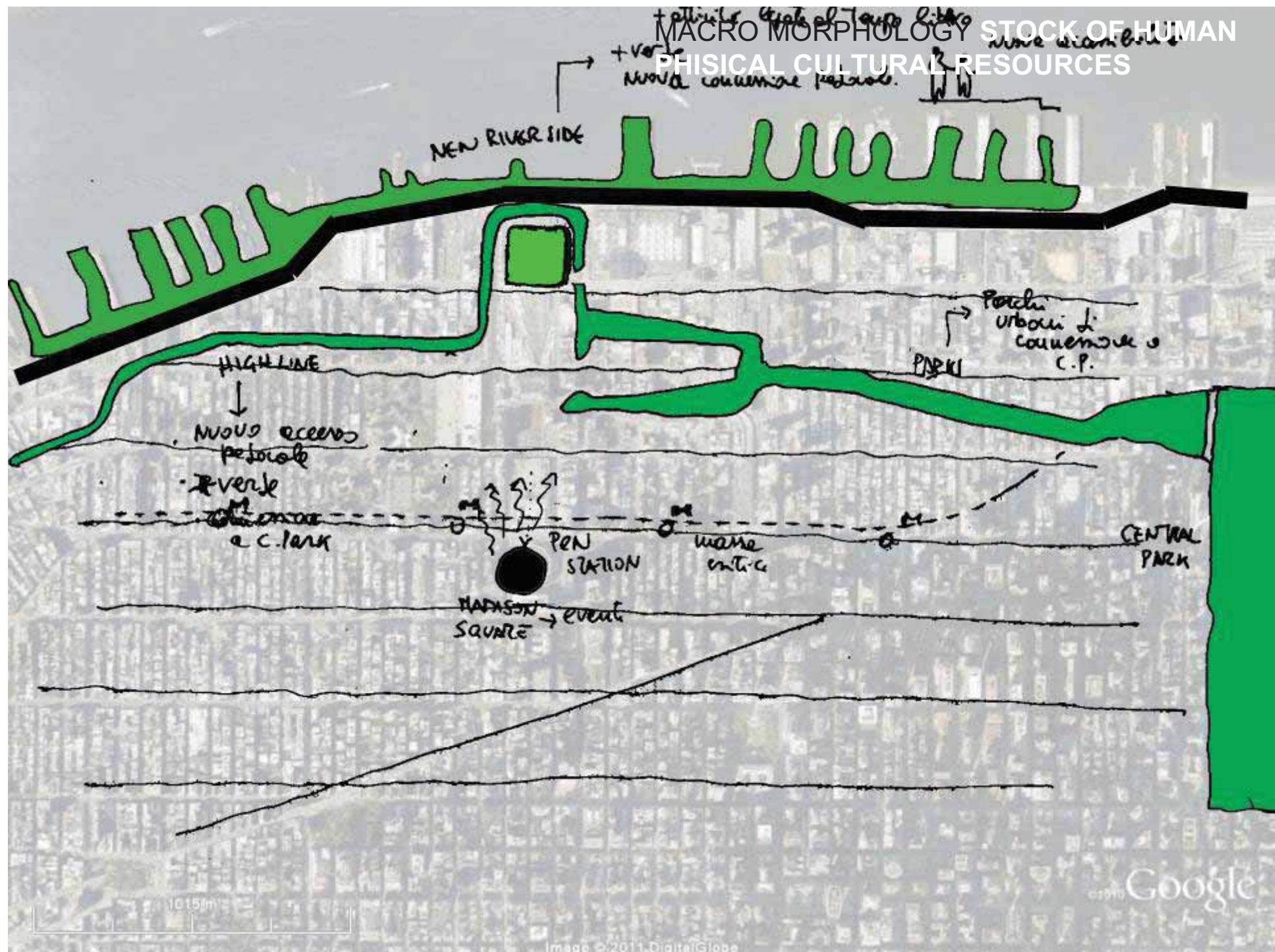
Evaluations through SWAT analysis

		water	Strengths	Weaknesses
Climate	wind		Opportunities	Threats
Earth	Temperature			
	Rain frequency			
River	Riverside dok			
Historic heritage		Penn Station		
NYC Planning			Site accessibility	Distance to the metro Car access
			Natural network	Walking distance
		Distance to central park High Line		New riverside

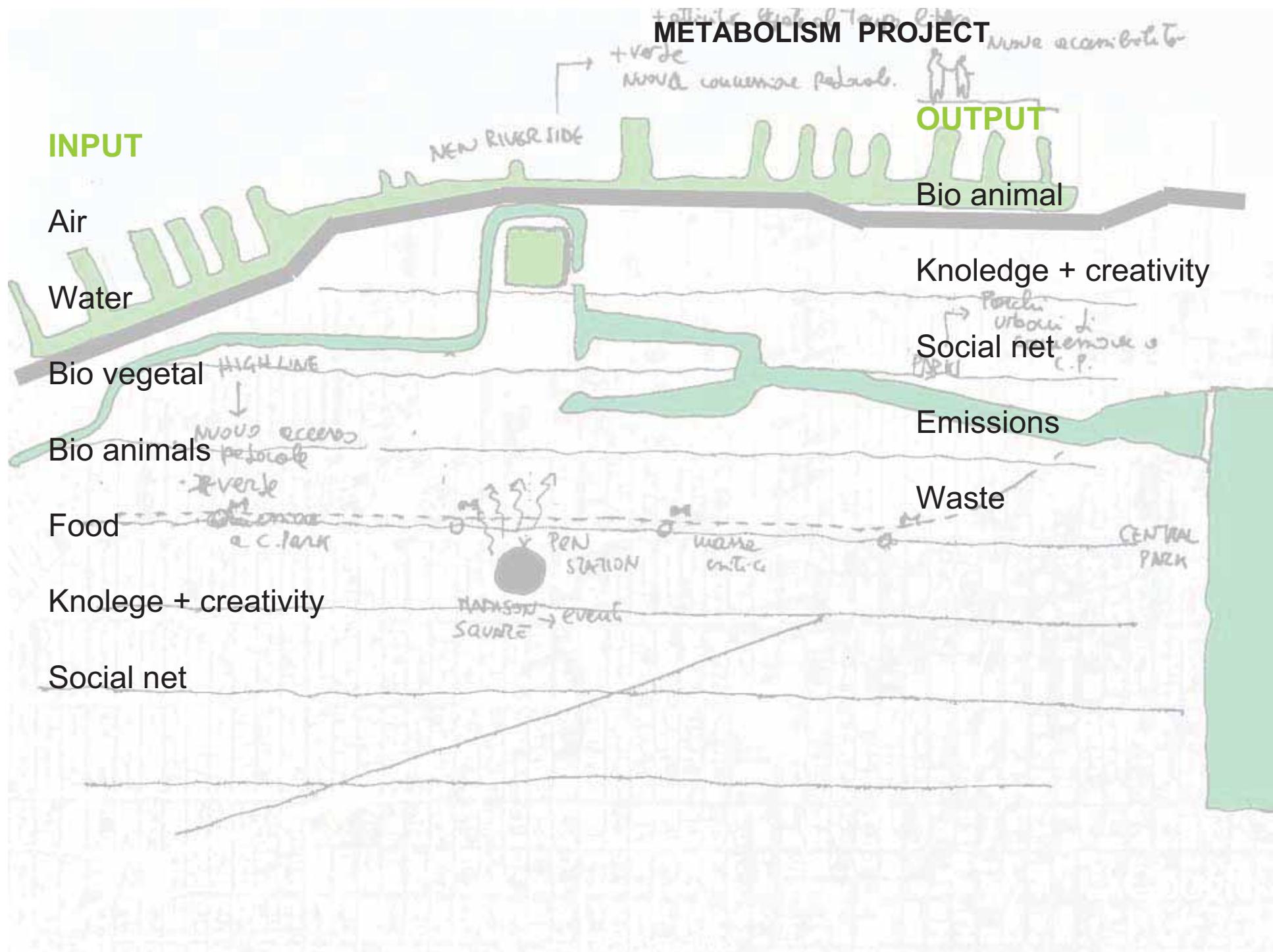
MACRO MORPHOLOGY STOCK OF HUMAN
PHISICAL CULTURAL RESOURCES







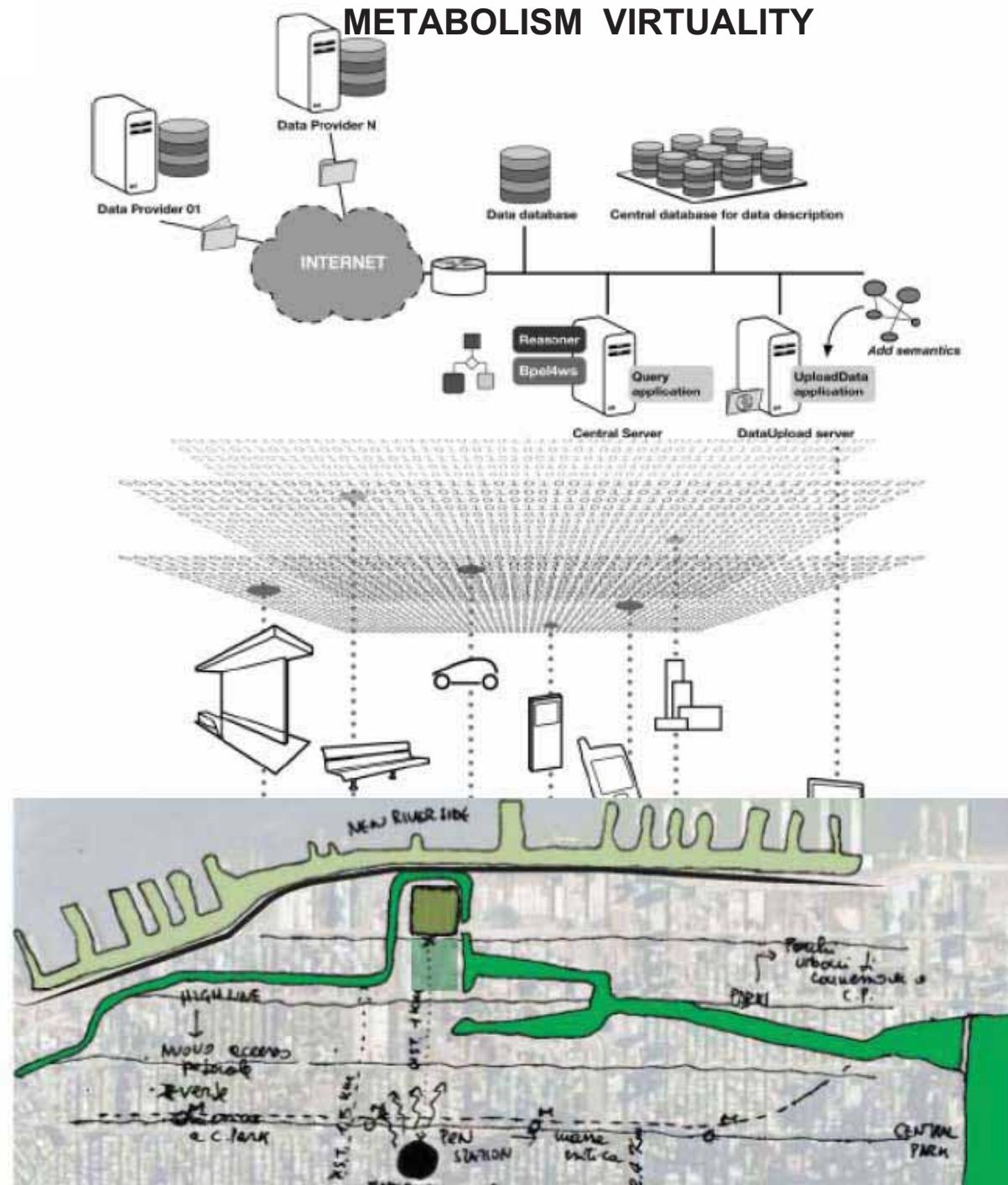
Google



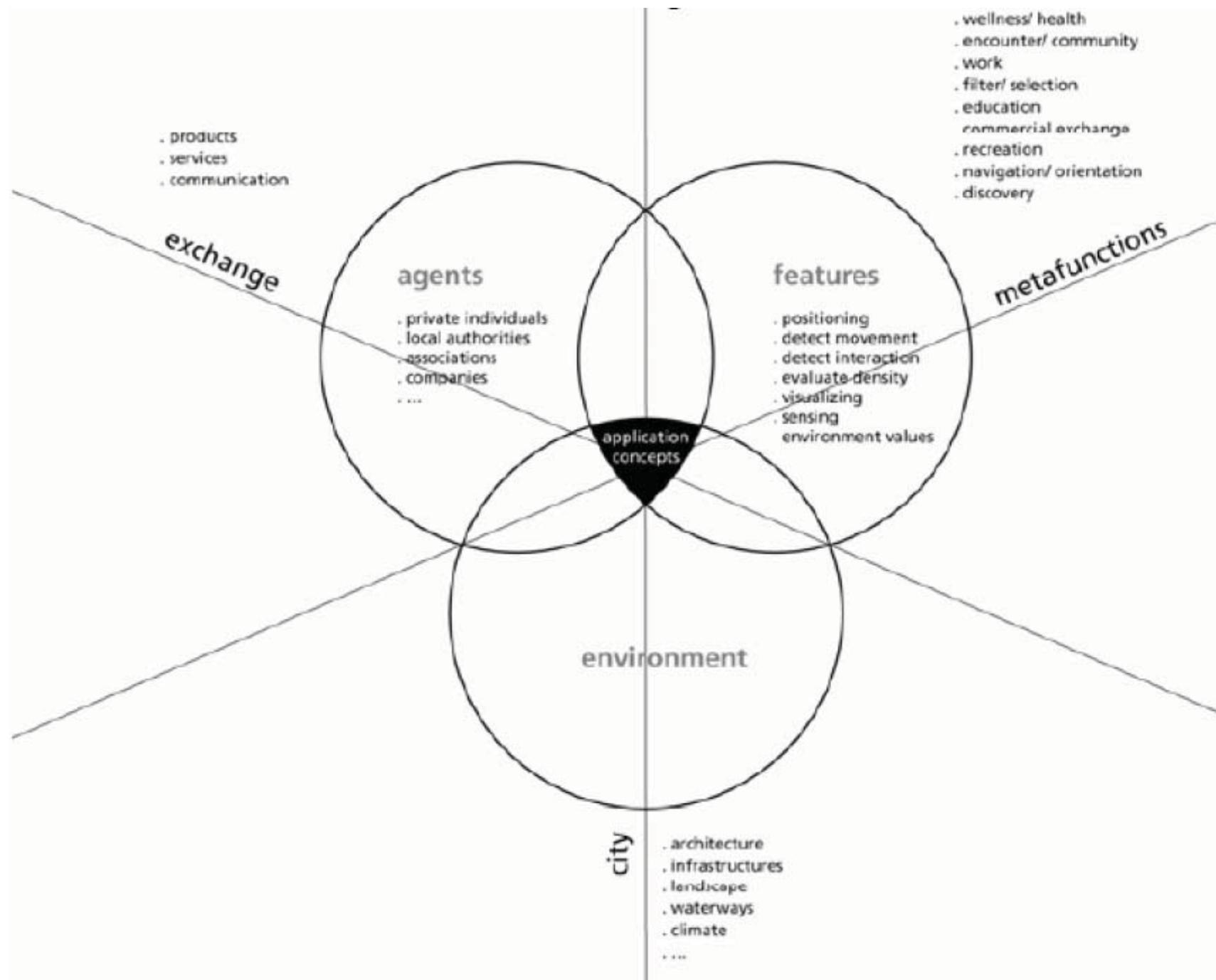
Crowdsourcing
Manhattan
Platform and tools

Virtual Manhattan
Real-time data

Real Manhattan
and its people



METABOLISM ELEMENT DESCRIPTION



4. BUILT ENVIRONMENT

Municipal strategy:
NYC Waterfront
The new green connection
Central Park-Penn Station
The new waterfront rehabilitation
The tunnel and new Penn Station
The “Theater area” rehabilitation
The high line viaduct

Cluster strategy
Topics and feedback for the project

Ecosystem services and new urban landscape:
Design and relationship with the metabolism

Atoms&Bit morphologies:
Relationship between materials and immaterials elements

The New Tran s Hudson Rail Tunnel: making it work BesT

Possible One-Seat Services and New Lines with Tunnel



WHY NEW JERSEY NEEDS THE ARC

INFRASTRUCTURIST.COM

Secaucus
Junction

New York
Penn Station

Ridership:

- 2008: 44 million annual trips
- 1996: 18 million annual trips
- 1984: 10 million annual trips

Daily tunnel capacity:

 = 5 trains

current capacity

5 trains

additional capacity
with proposed ARC tunnel

A five-minute delay currently affects:

 = 1,000 riders



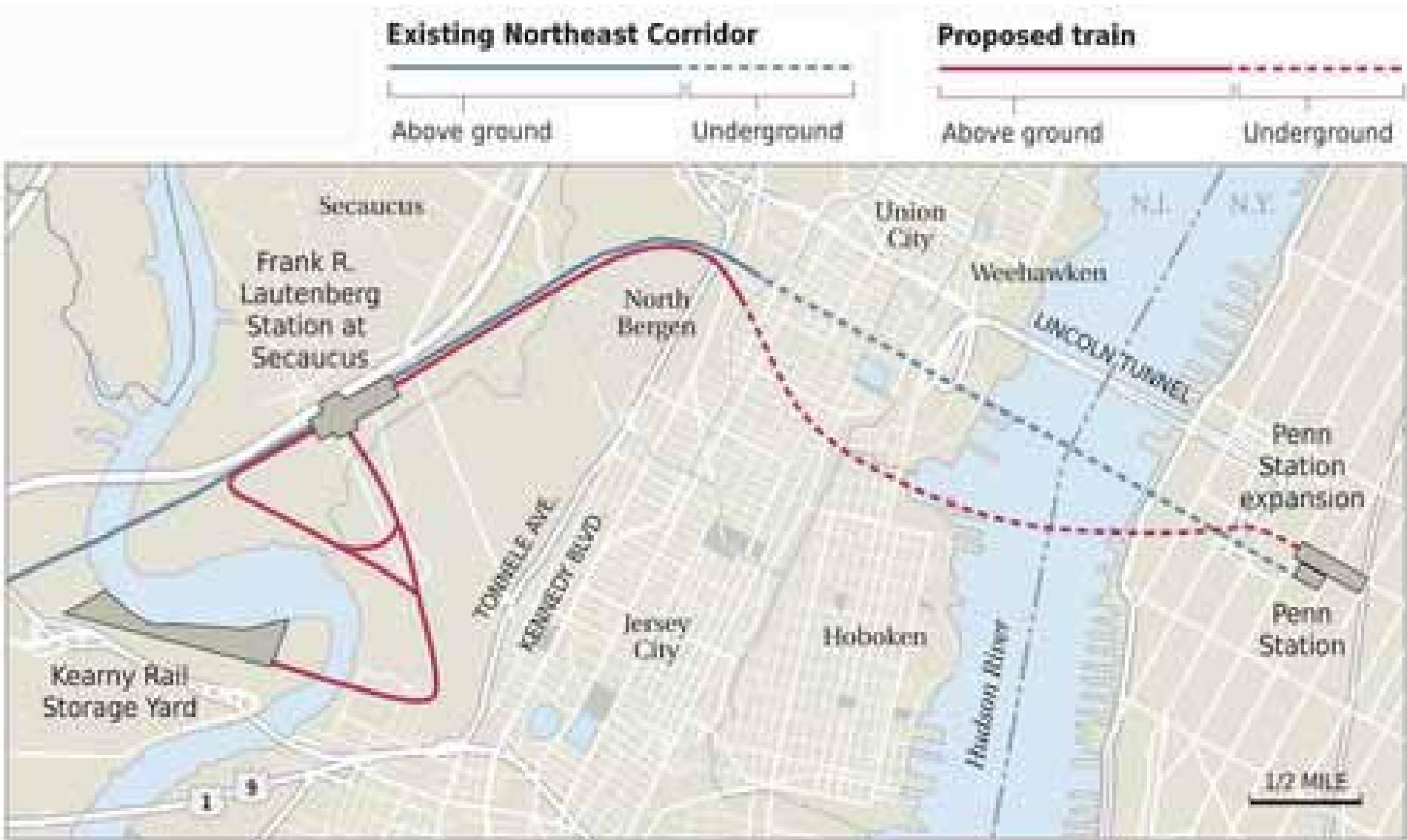
2,200 riders
1984

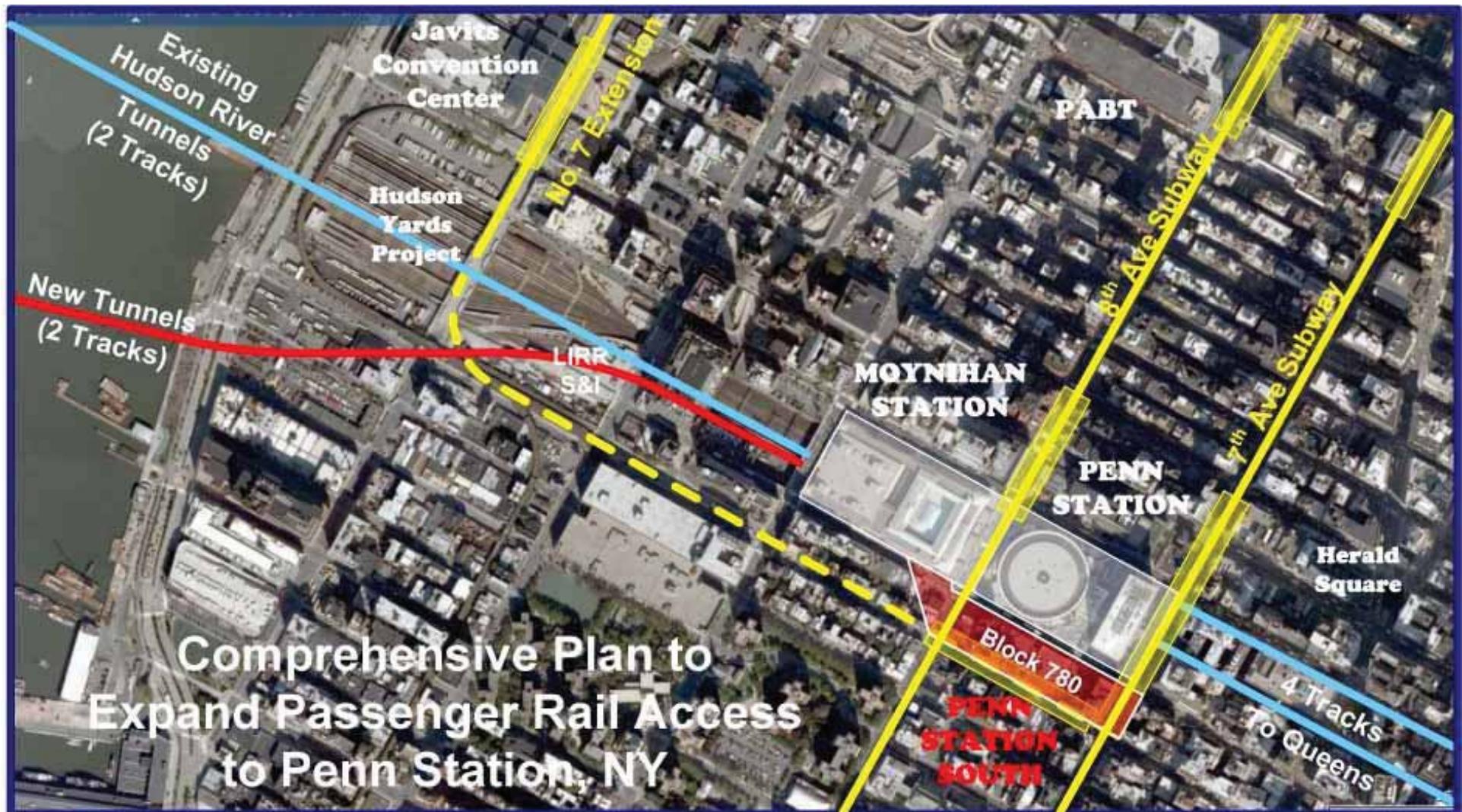


4,000 riders
1996

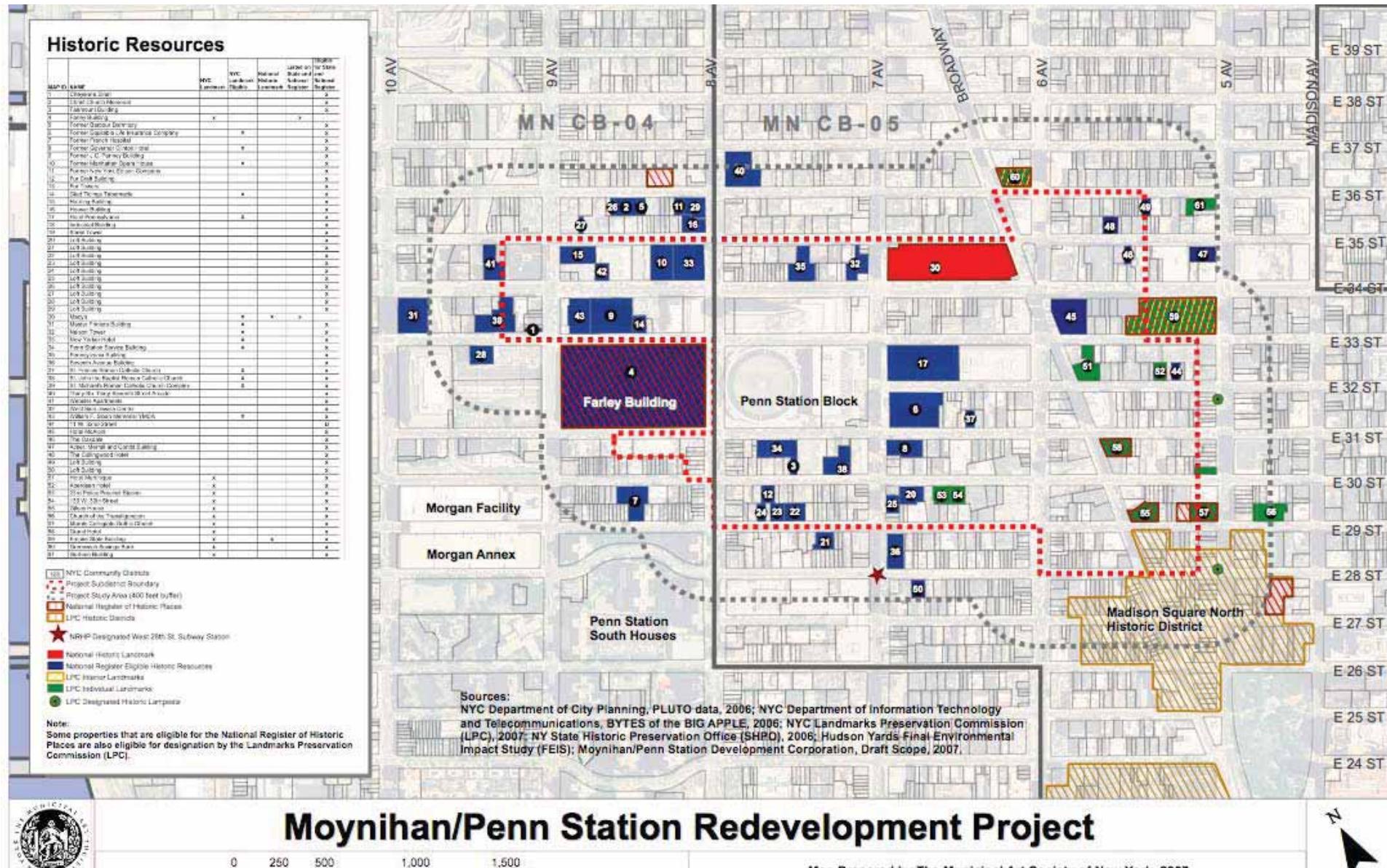


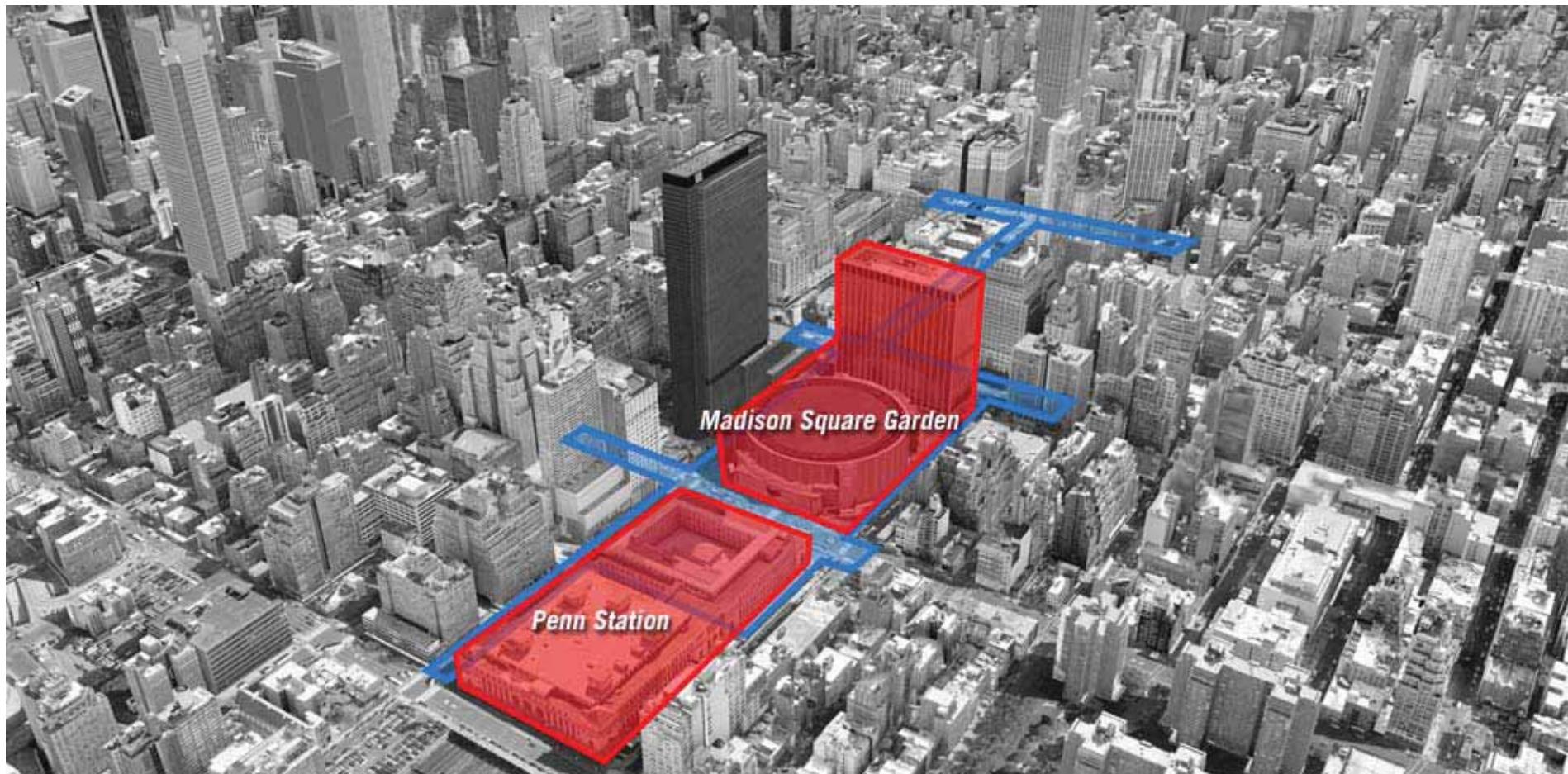
10,000 riders
2008

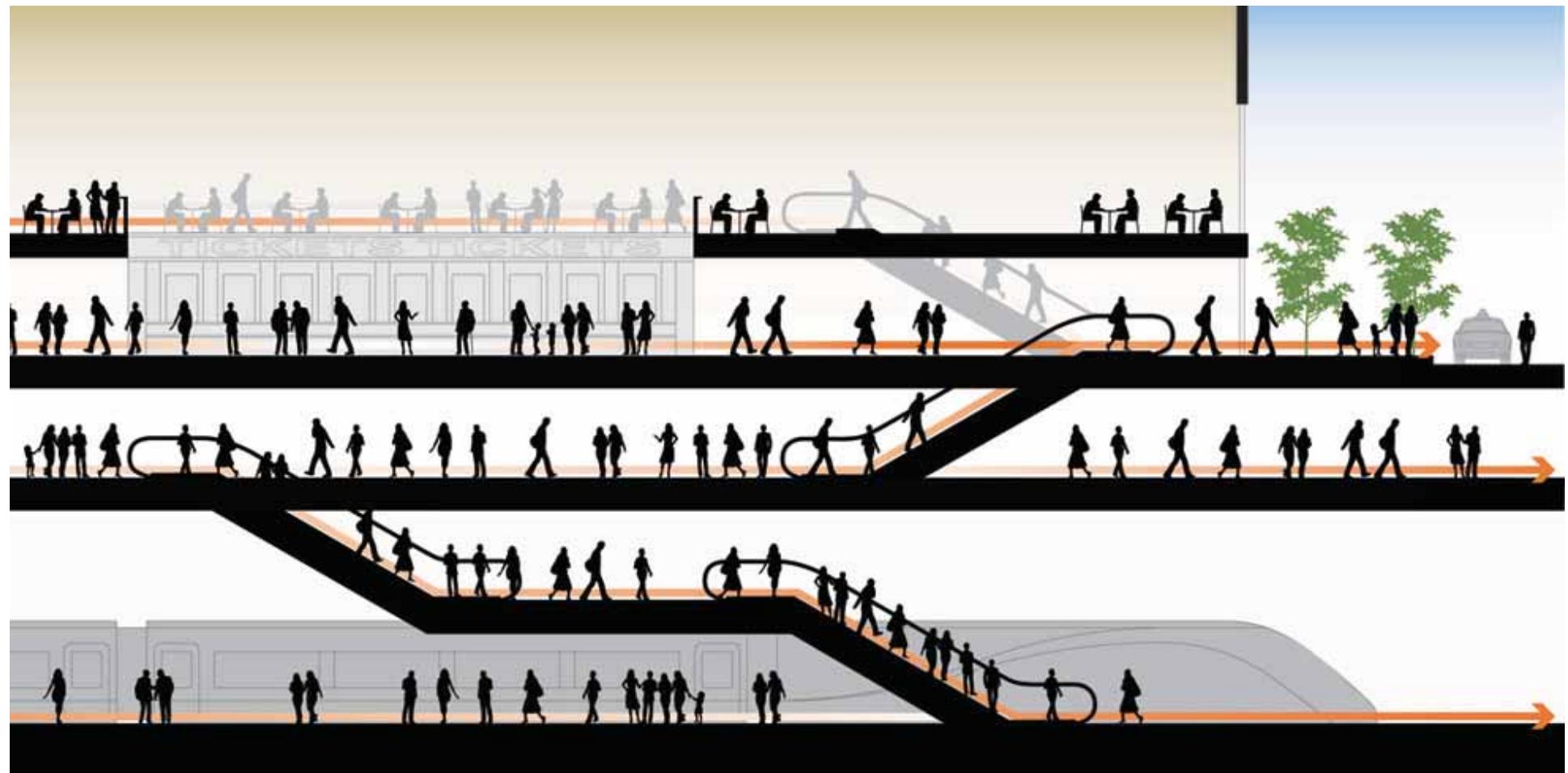














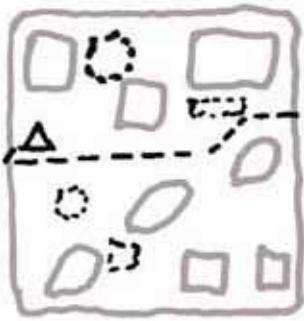




5. GOVERNANCE NETWORKS

Institutional and informal structures
and organizations:
Mental Map of the institutions involved in
the design process

Map of the management organizational
model



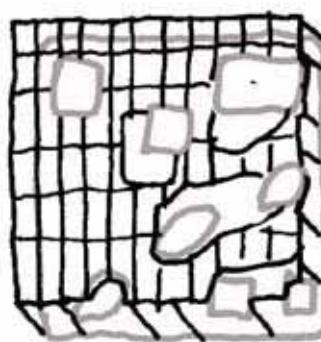
CONCENTRATO

il programma è soddisfatto in un edificio, il resto è libero...

chiarezza della distribuzione degli spazi
vasta area libera

S	W
O	T

non adatto alle novità



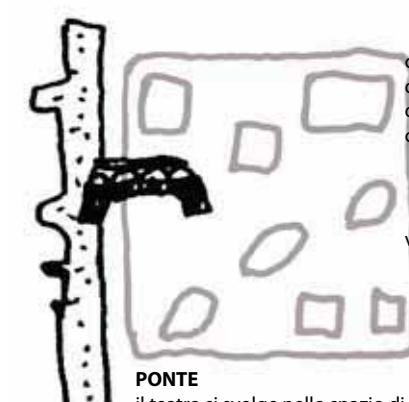
COPERTURA

le funzioni si svolgono sotto una grande copertura...

funzioni sono al coperto da intemperie
copertura/membrana per produrre energia

S	W
O	T

scarsa bioticità costoso
sistema non è riconvertibile a basso costo



PONTE

il teatro si svolge nello spazio di collegamento...

chiarezza della distribuzione degli spazi connessione
vasta area libera

S	W
O	T

non adatto alle novità



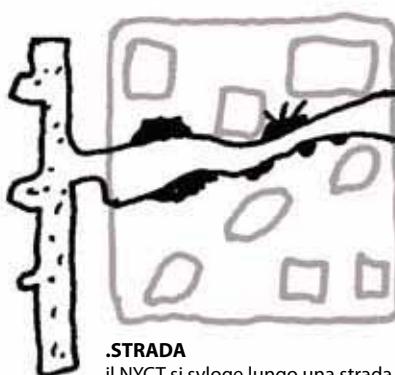
SOTTO

le attività si svolgono sotto il livello del terreno, sopra è verde...

ampio superficie biotica
esportare ris. naturali, cibo...

S	W
O	T

costi elevati
poca visibilità
difficile portare le persone



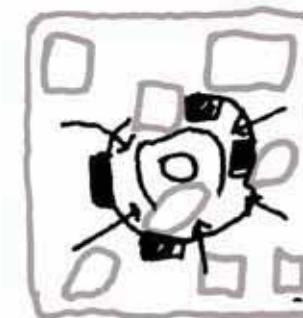
.STRADA

il NYCT si sviluge lungo una strada i cui poli sono il Green River Side e il New Pen Station...

accessibilità elevata
grande dinamicità di flussi

S	W
O	T

espansione su altre direzioni
integrazione con la città
scarsa centralità e rappresentatività
difficoltà a far permanere le persone



AGORA'

organizzazione attorno ad un centro...

chiarezza della distribuzione degli spazi riconoscibilità permeabilità

S	W
O	T

area libera democratico
non adatto alle novità
poca flessibilità a variazioni di programma



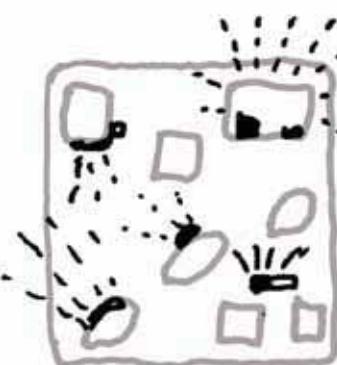
INCORPORATO

nei grattacieli previsti dal piano attacco le funzioni fisiche previste...

assecondo le previsioni di piano economico

S	W
O	T

riconnetto i flussi del teatro ai flussi generici della città (residenza + uffici+ etc...) non ha autonomia dal resto della città
è richiesta qualificata gestione della prossimità di funzioni



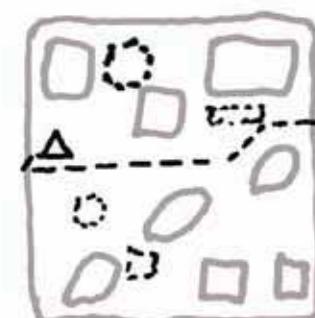
SUPERIMMATERIAL

la dimensione immateriale del NYCT è predominante rispetto a quella fisica...

interrelazioni col mondo

S	W
O	T

interlocutori potenzialmente infiniti
alto livello di organizzazione eventi digitali
incertezza sul teatro del futuro



PROVVISORIO

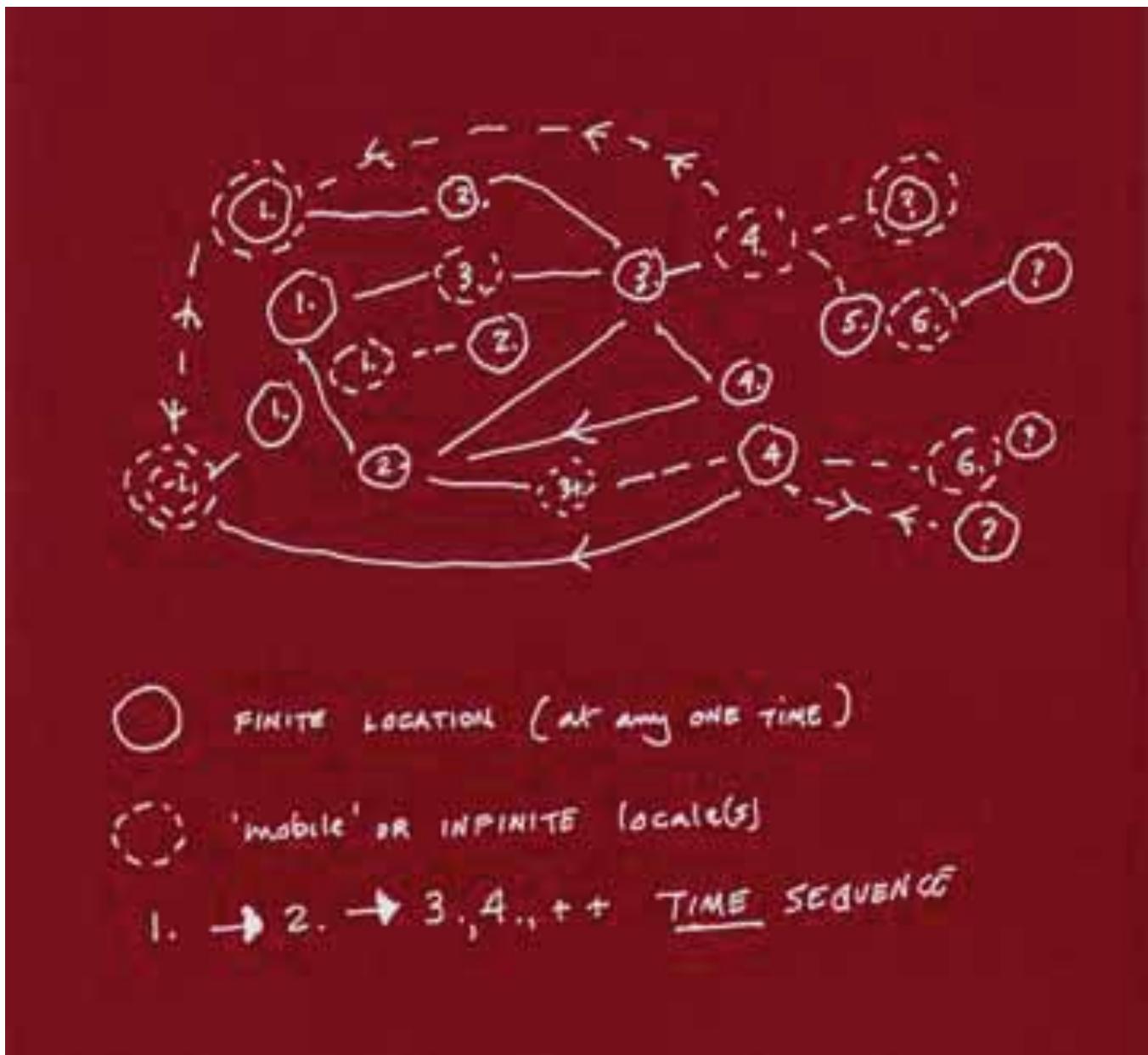
funzioni in spazi tempora...

flessibilità economia

S	W
O	T

cambiamento
bassa tecnologia dimensione locale
chiuso
poco aperto alle novità tecnologiche

Definizione degli scopi e del modello organizzativo



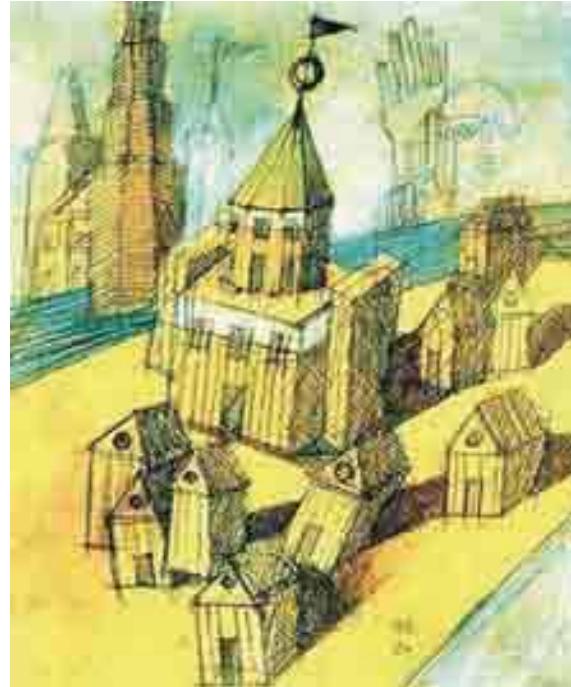
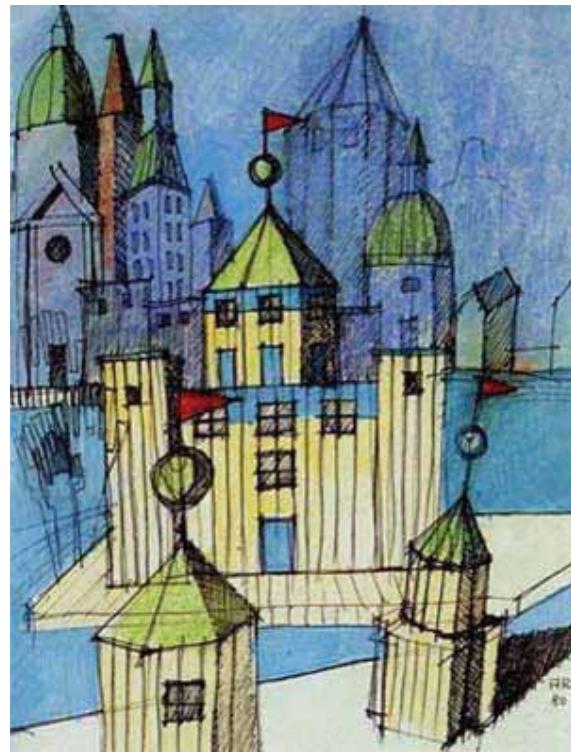
Definizione del programma operativo

Berlino: Ufa Fabrik

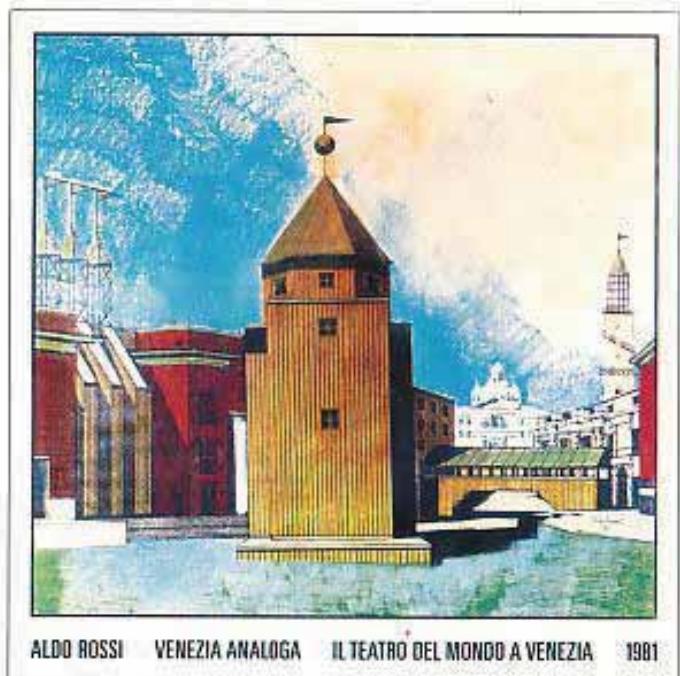


<http://www.ufafabrik.de>

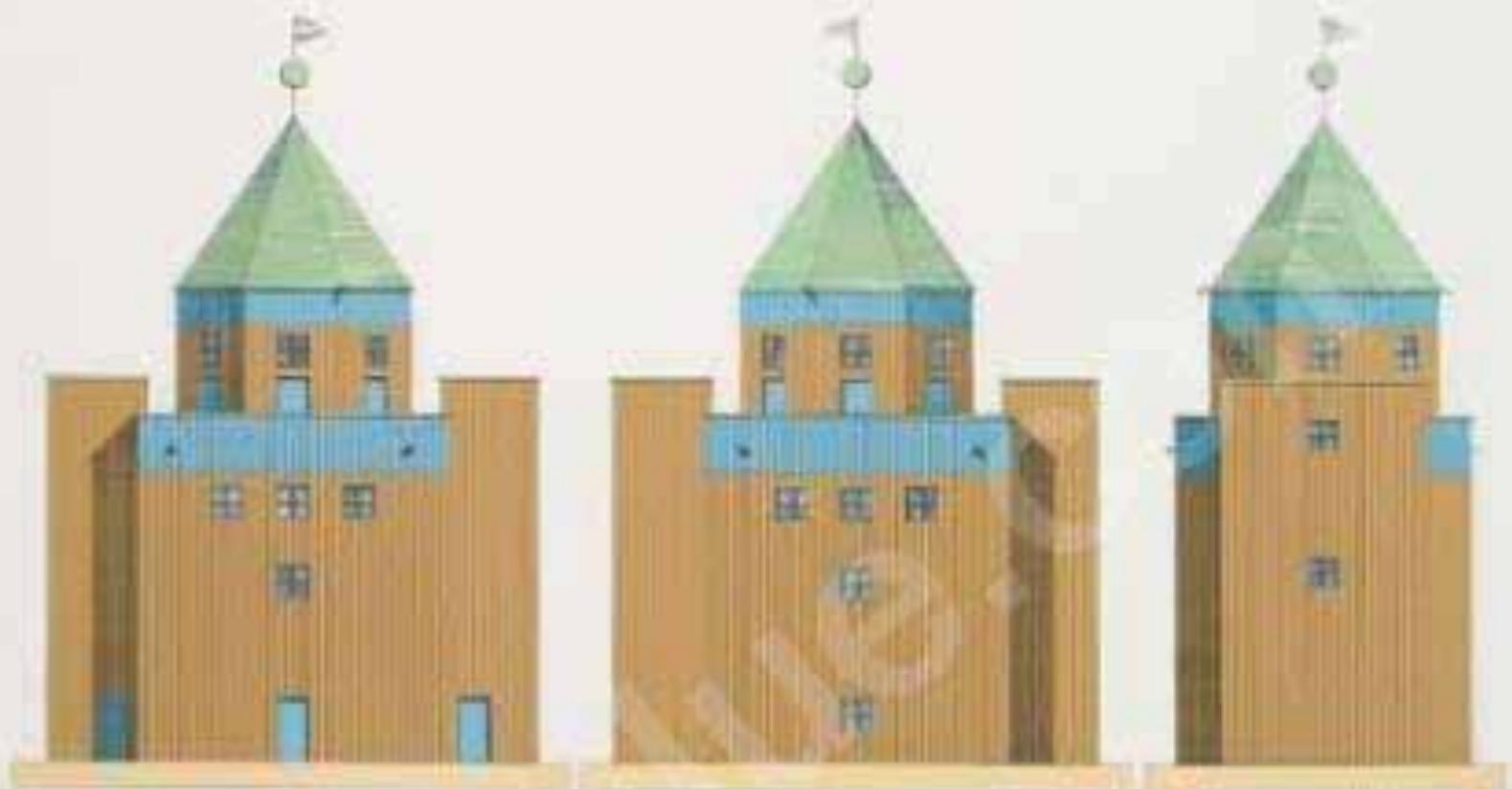
whpBerlin		Landscape & Community	Human & Planetary	Ecology & Development
		WISER perspectives 4/7	Human & Planetary	Ecology & Development
Environment	<ul style="list-style-type: none"> - Environment and Natural History - Human Society and Technological - Sustainability science - Politics - Religion and Culture - Media and Society 	<p>Landscape & Community</p> <p>WISER perspectives 4/7</p> <p>Human & Planetary</p> <p>Ecology & Development</p>	<p>Human & Planetary</p> <p>Ecology & Development</p>	<p>Ecology & Development</p>
Research	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment
Lives	<ul style="list-style-type: none"> - Social issues of this century - Discourse - Neopatriotism and National Identity - Violence and Institutional Development - Democracy and Cultural Identity - Theocracy - Sex & Gender - Migration - Nationalism - Feminism - Artistic - Visual Art - Book Reviews 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment
Memory	<ul style="list-style-type: none"> - WhpBerlin - WHP-Digital - WHP-Digital Art Review - Transmissions Forum - Visual Culture - Knowledge Management - WhpBerlin Books - WhpBerlin 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment
WhpBerlin Books	<ul style="list-style-type: none"> - Theory - Historical Perspectives - Feminist Perspectives - Visual Culture - Knowledge Management - WhpBerlin Books - WhpBerlin 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment
Reviews	<ul style="list-style-type: none"> - Theoretical - Methodological - Cultural Studies - Gender Studies - Visual Culture - Knowledge Management - WhpBerlin Books - WhpBerlin 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment
WhpBerlin	<ul style="list-style-type: none"> - Theory - Historical Perspectives - Feminist Perspectives - Visual Culture - Knowledge Management - WhpBerlin Books - WhpBerlin 	<p>Arts & Culture</p> <p>Artists in Residence</p> <p>Arts and Culture</p> <p>U-Music Themed 2011</p> <p>2012</p> <p>U-Music Performance and Education</p> <p>Theatre</p> <p>Music</p> <p>Sports</p> <p>Arts</p> <p>Design</p> <p>Visual Arts</p> <p>Performing Arts</p> <p>Media</p> <p>Science & Events</p> <p>Contemporary</p> <p>Contemporary</p> <p>Modern</p> <p>Women's Studies</p> <p>International Networks</p> <p>Trans-Europe Hermit</p> <p>Performance</p> <p>2011</p> <p>BookArt</p> <p>Book Arts</p> <p>BookReviews</p> <p>whpBerlin</p>	<p>Human & Planetary</p>	<ul style="list-style-type: none"> - Climate - Atmosphere - Geosphere - Human Behavior - Space Sciences - Environment



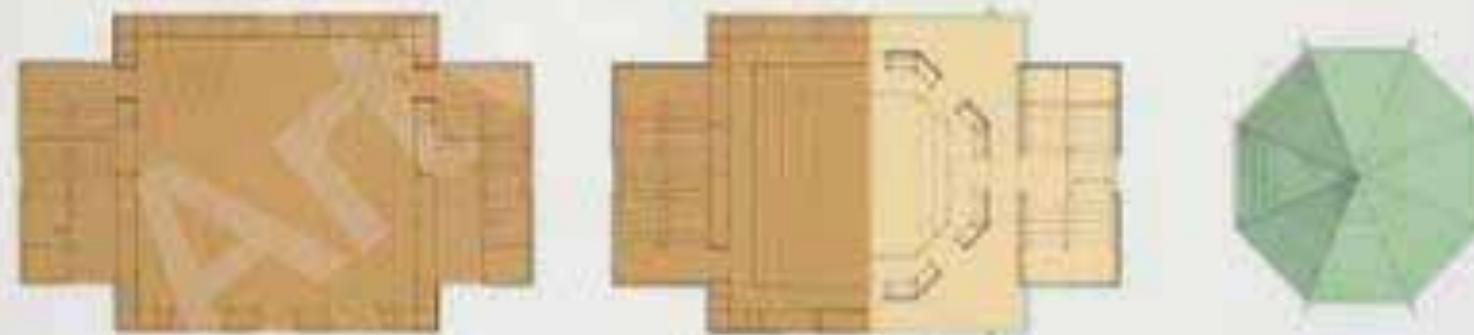
Il teatro mobile



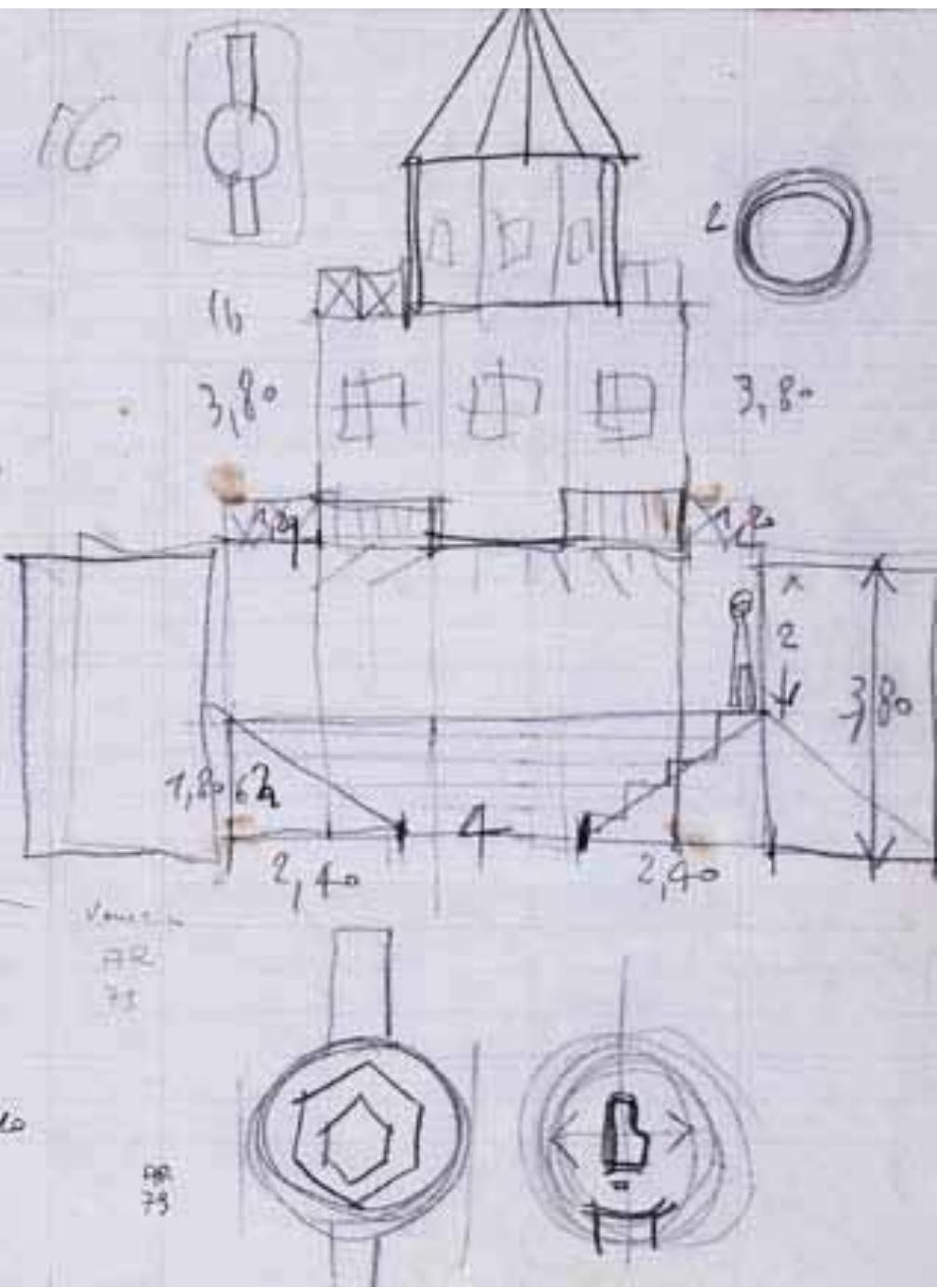
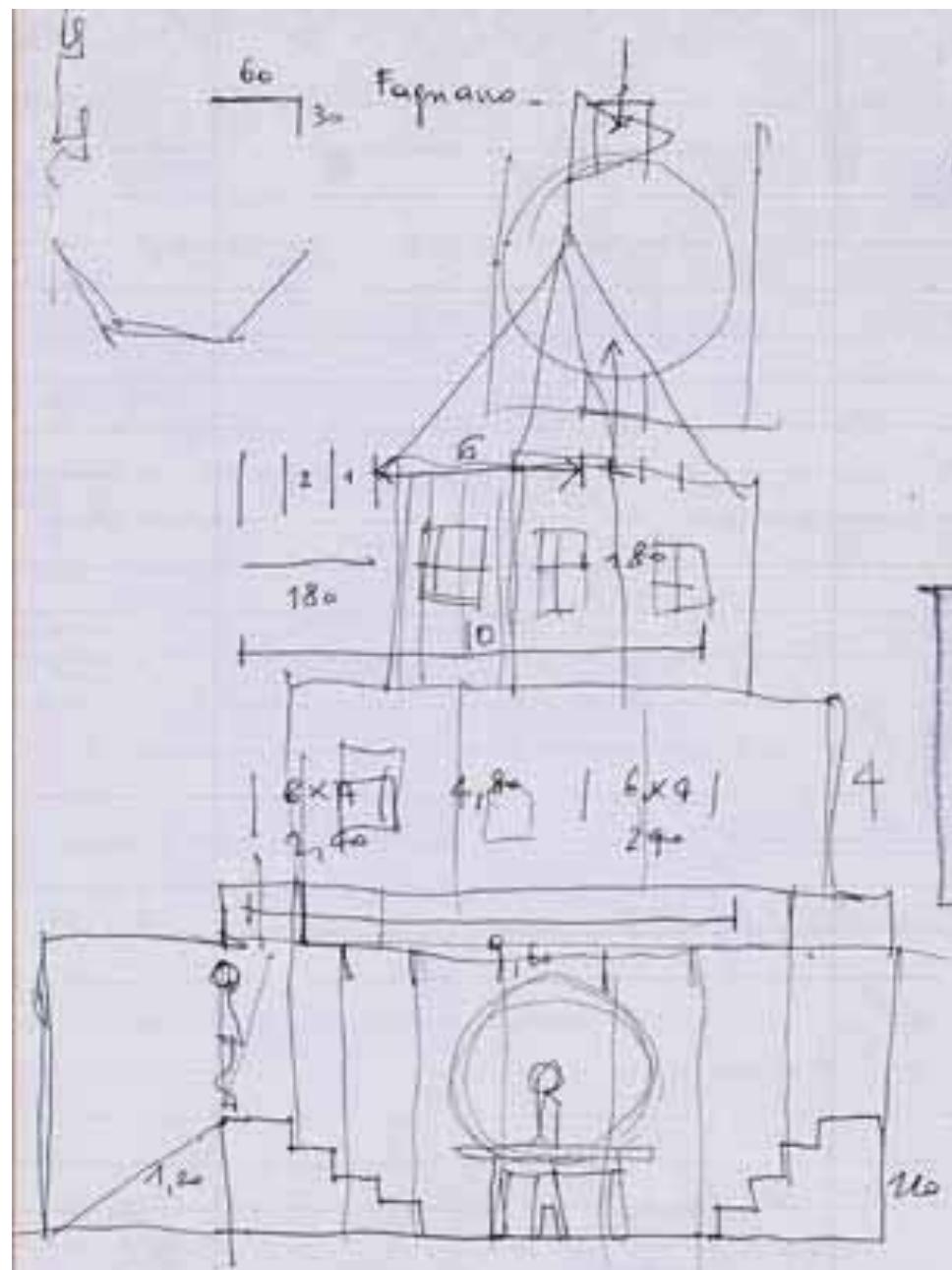
Aldo Rossi
Teatro del mondo



DETALLES DEL NERÓN A TÉRMINO



DETALLES
INTERIORES
SISTEMA
ESTÁNDAR



Inflatable theater



Gli spazi dell'improvvisazione

The Candelas are two fiberglass prefab shells that sit at the World's Fair Marina, just north of the Mets' new stadium. These relics of the 1964/5 World's Fair were designed by architect and industrial designer Peter Schladermundt (not Feliix Candela as the names and nearby signs might lead you to believe).











Le strutture ‘provvisorie’ biocompatibili

The Savill Building, Windsor Great Park

Client

The Crown Estate

Project Location

Windsor Great Park

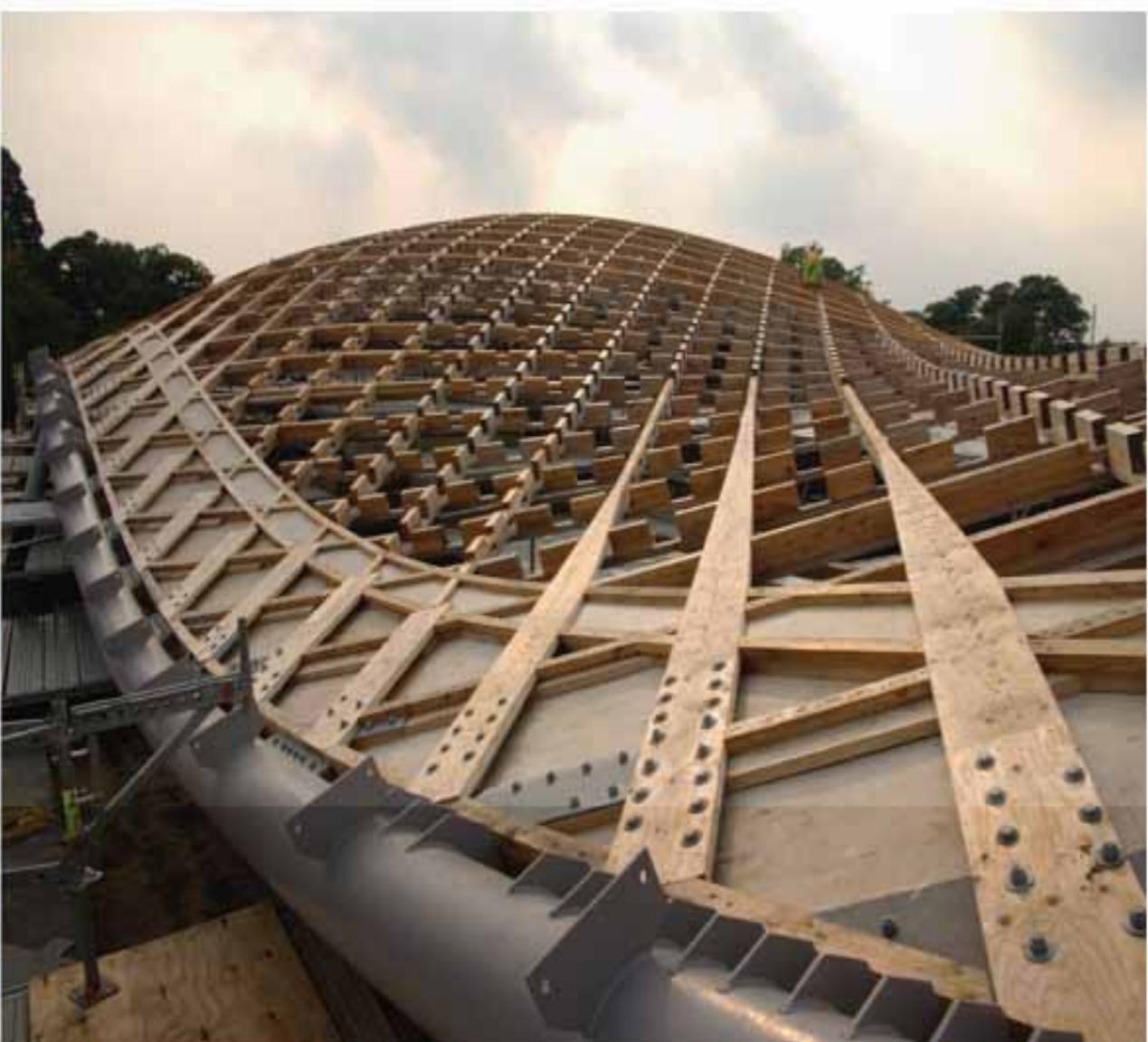
Status

Completed

The Savill Building, a landmark structure at the entrance to The Savill Garden which also acts as the ‘gateway’ to The Royal Landscape of Windsor Great Park, has been a huge success. It attracts more than half a million visitors a year, twice as many as expected when the Crown Estate commissioned the building in 2006.







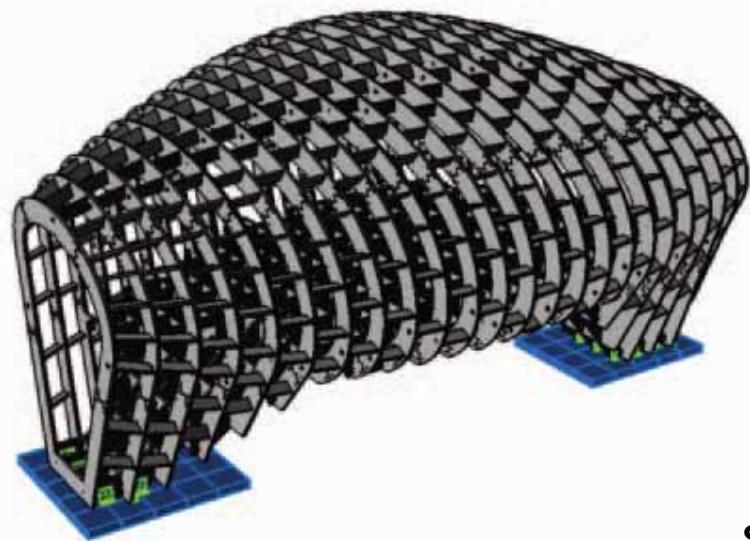


IAAC FabLab

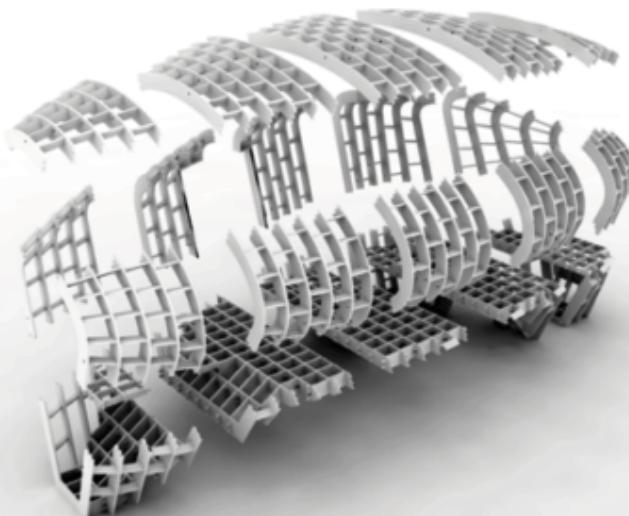
<http://www.fablabhouse.com/>

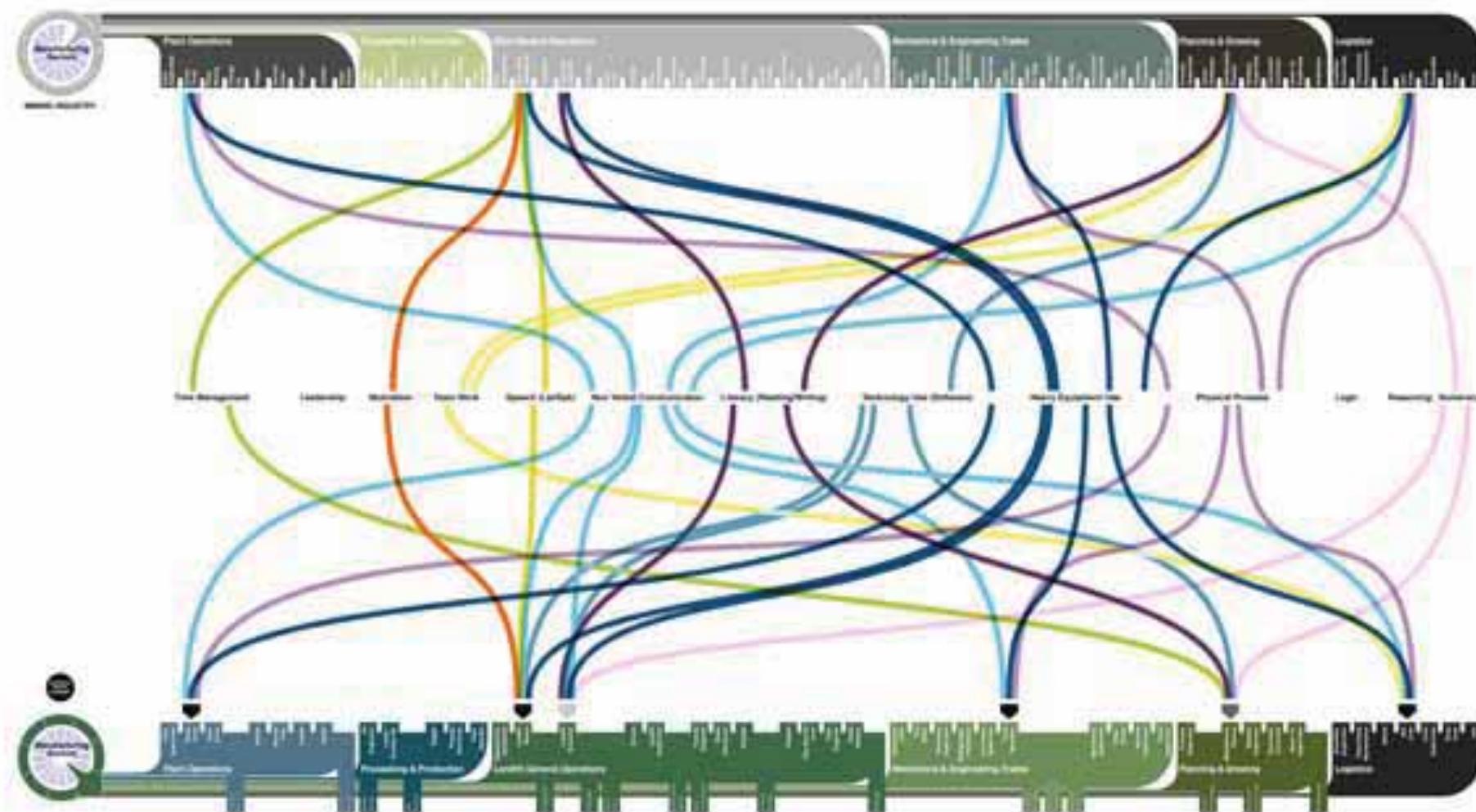
<http://fab.cba.mit.edu/>



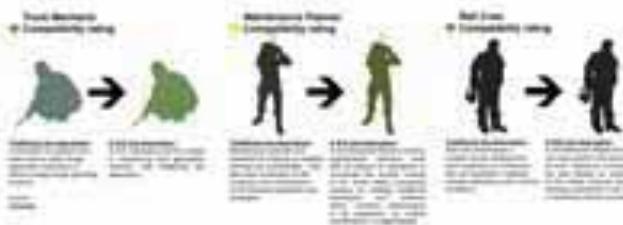


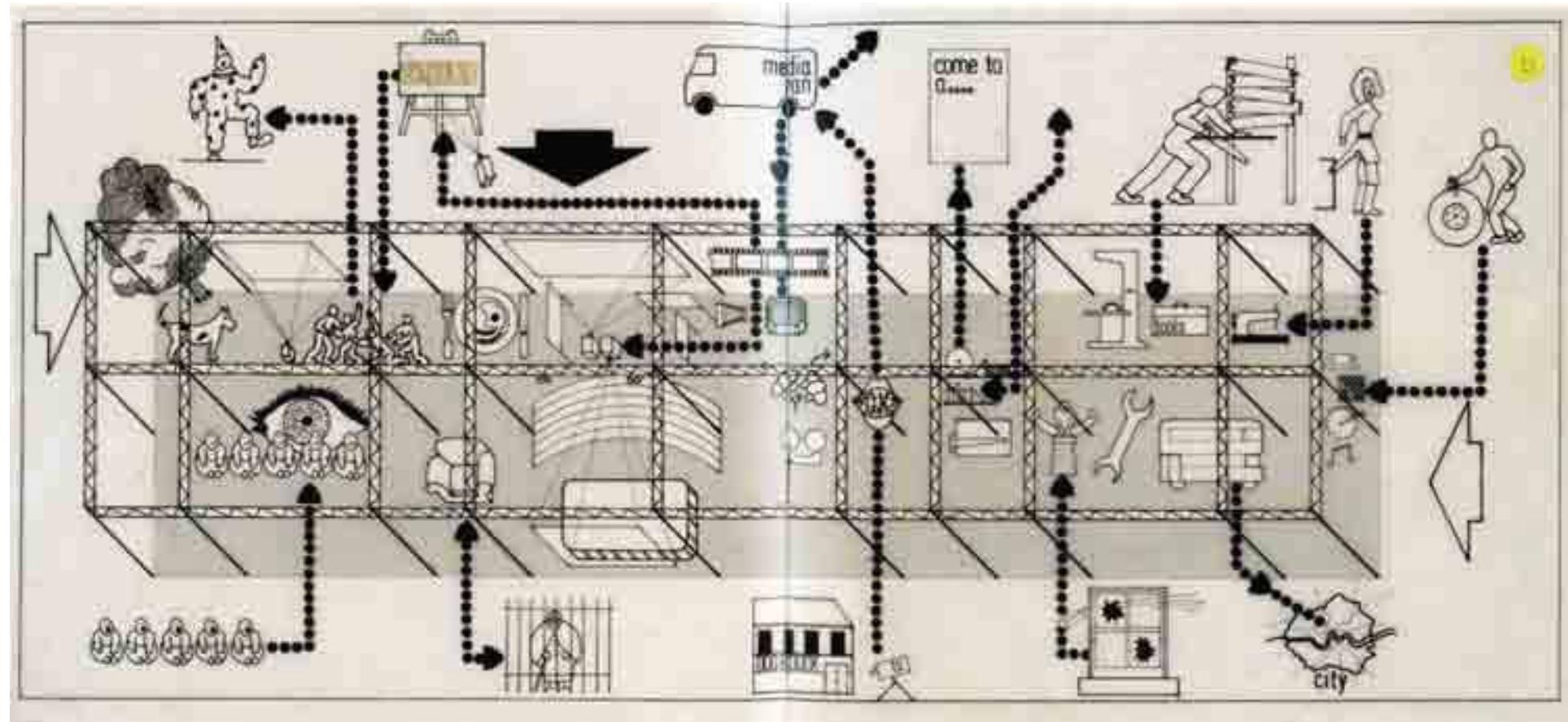
**Structural model
Assembling process
Exploded structure
Transportation**

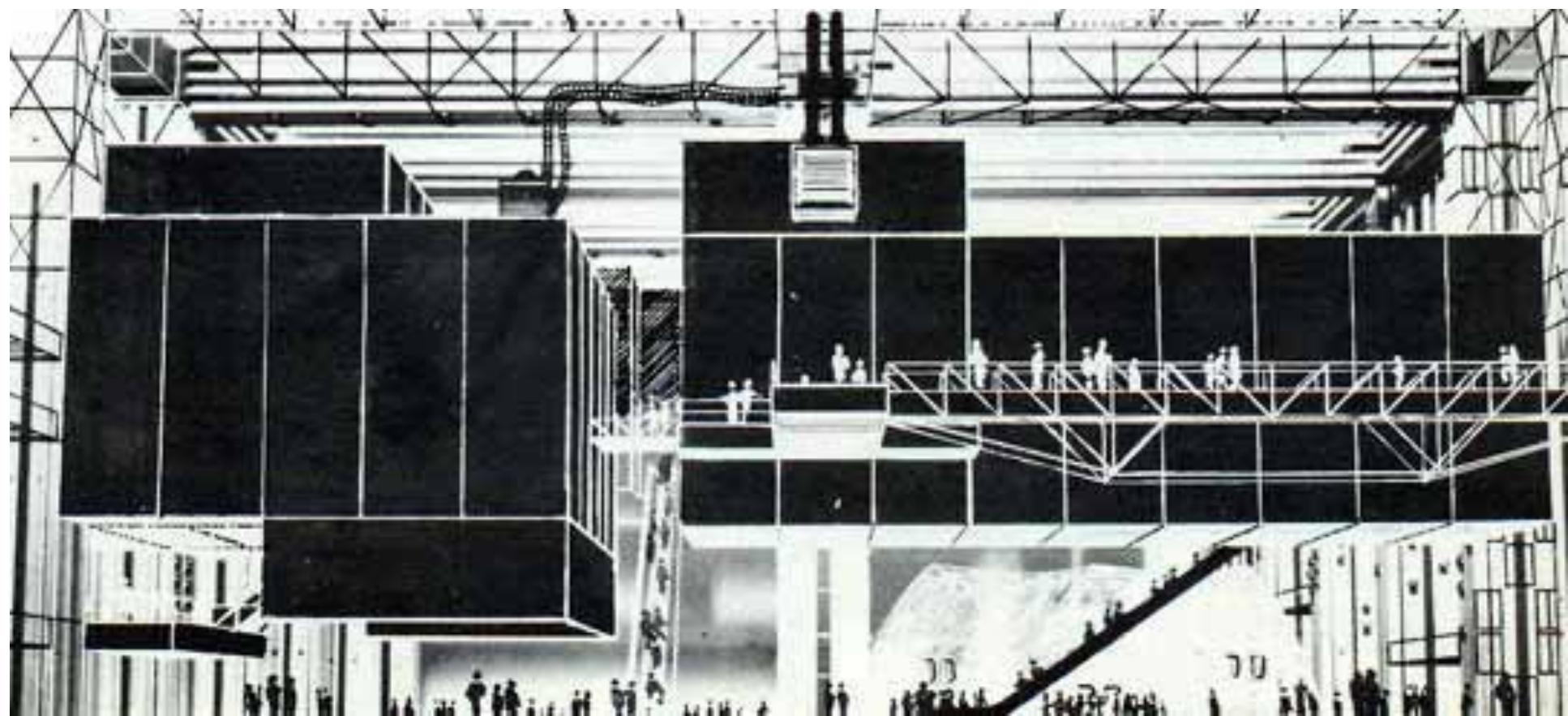




Recently an interest has been shown in how communities can be used to support industrial mining. This is particularly important given the challenges of industrial mining in the context of environmental protection. The lack of compatibility between the two sectors has been identified as a major challenge, and developing better compatibility theory can be difficult.

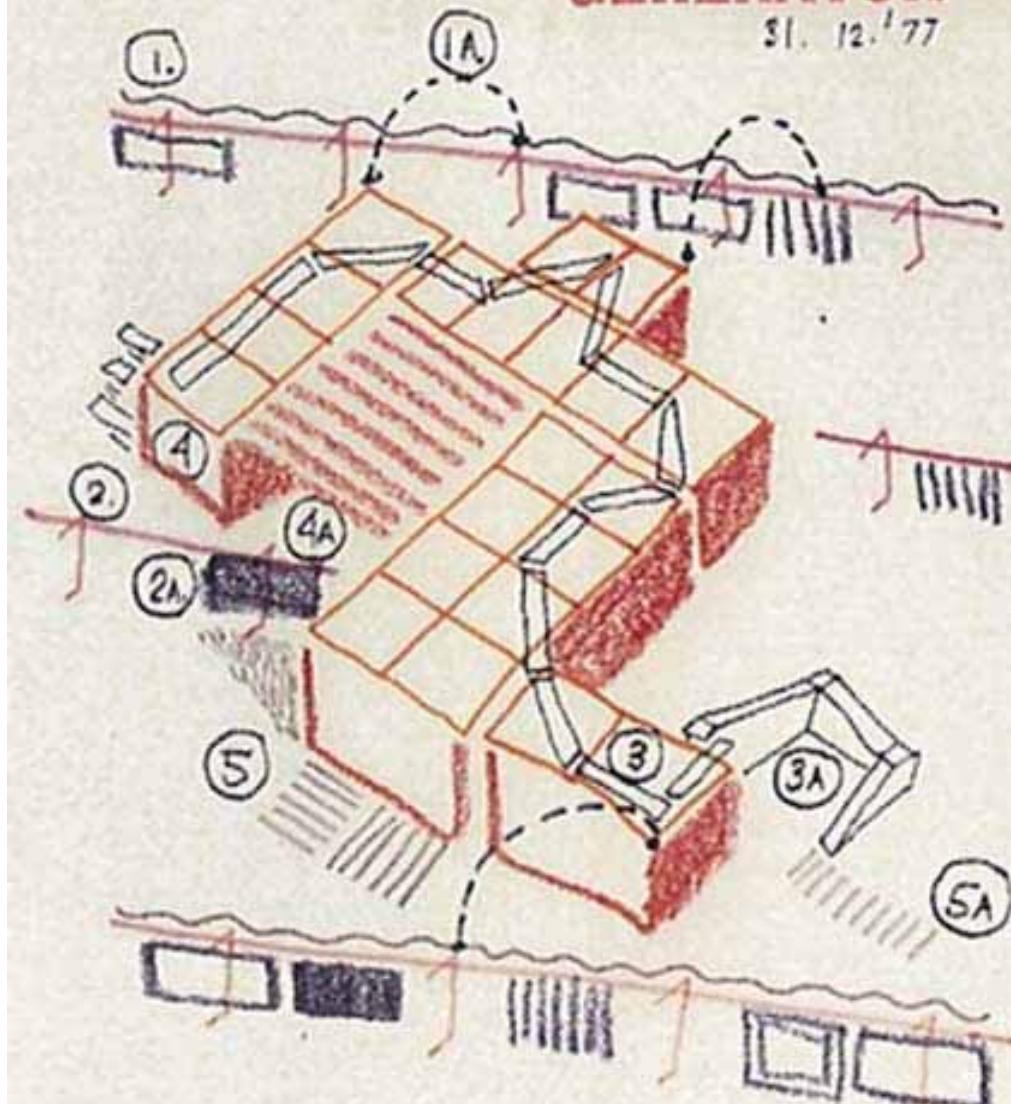






GENERATOR

SI. 12. '77



- 1. Feed
 - 2. Route
 - 3. Demand
 - 4. Contain
 - 5. Enlarge
- 1A Connect
 - 2A Control
 - 3A Retail
 - 4A Extend
 - 5A Relieve

BONE & MUSCLE

L'ecoefficienza - temi:

100% Energia rinnovabile

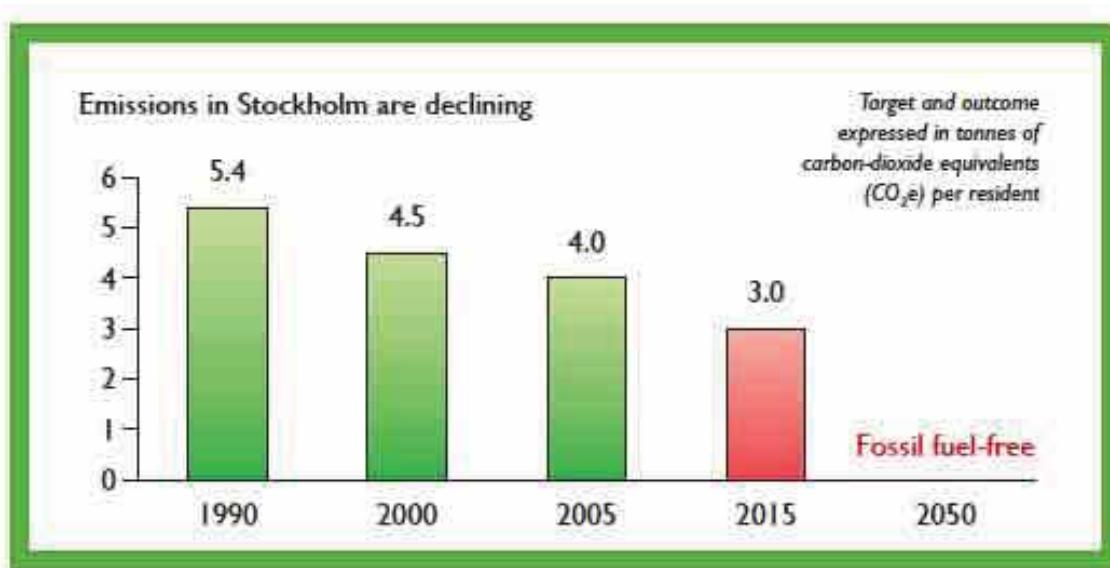
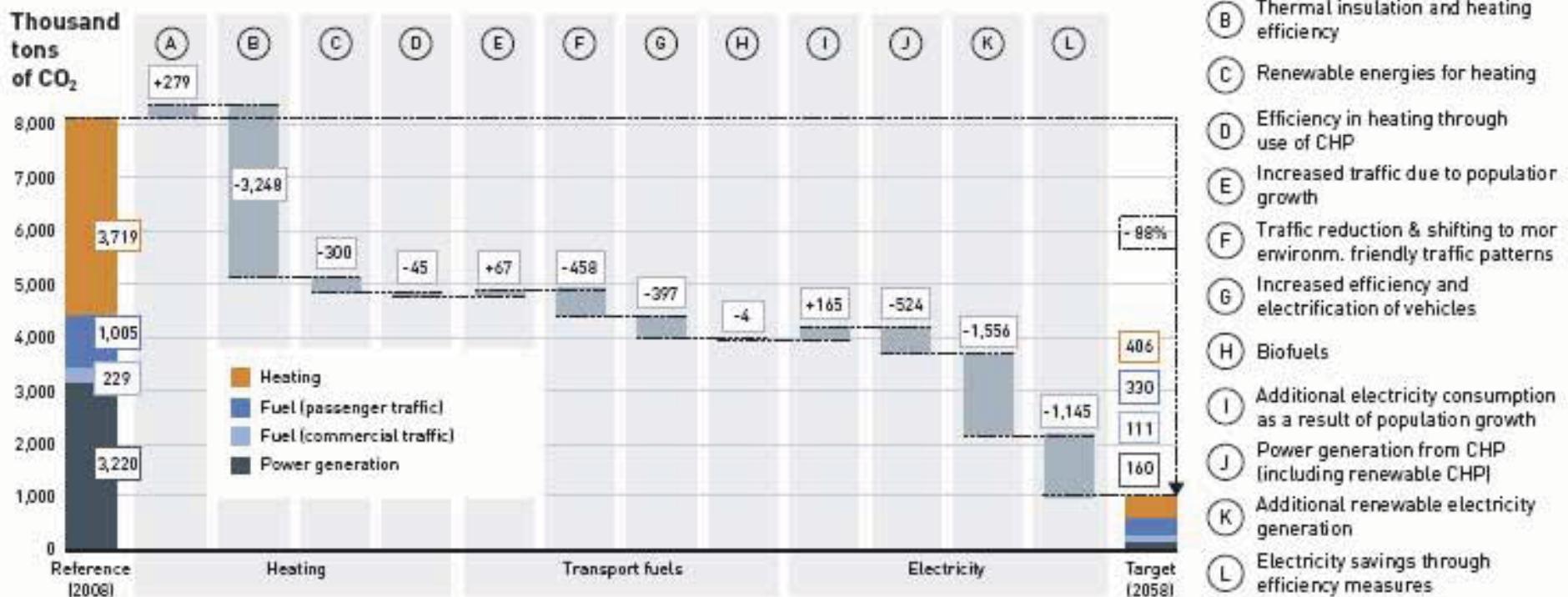
Dematerializzazione: reti a 100 Mb

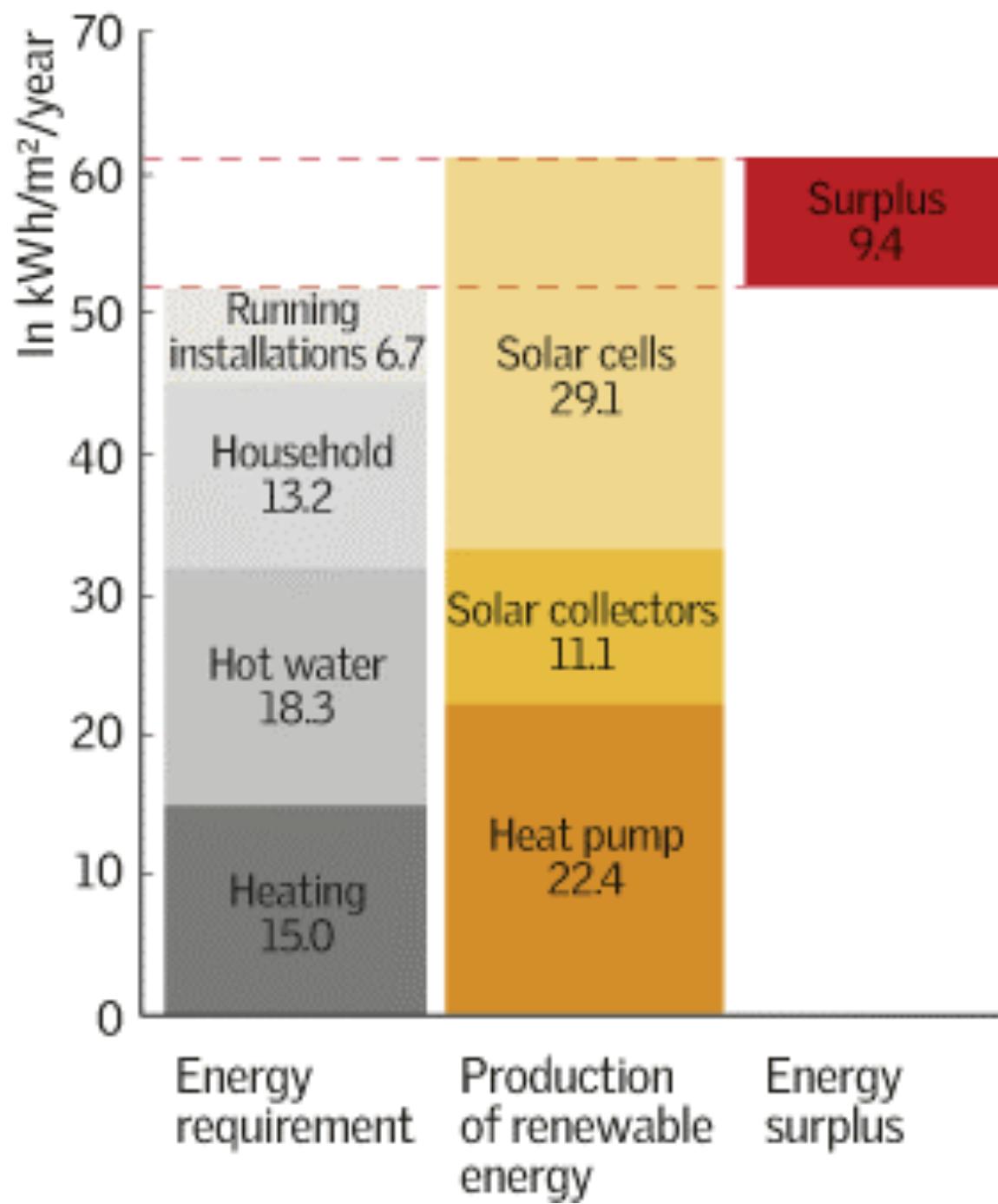
Autosufficienza alimentare

100% recupero dell'acqua

0 rifiuti

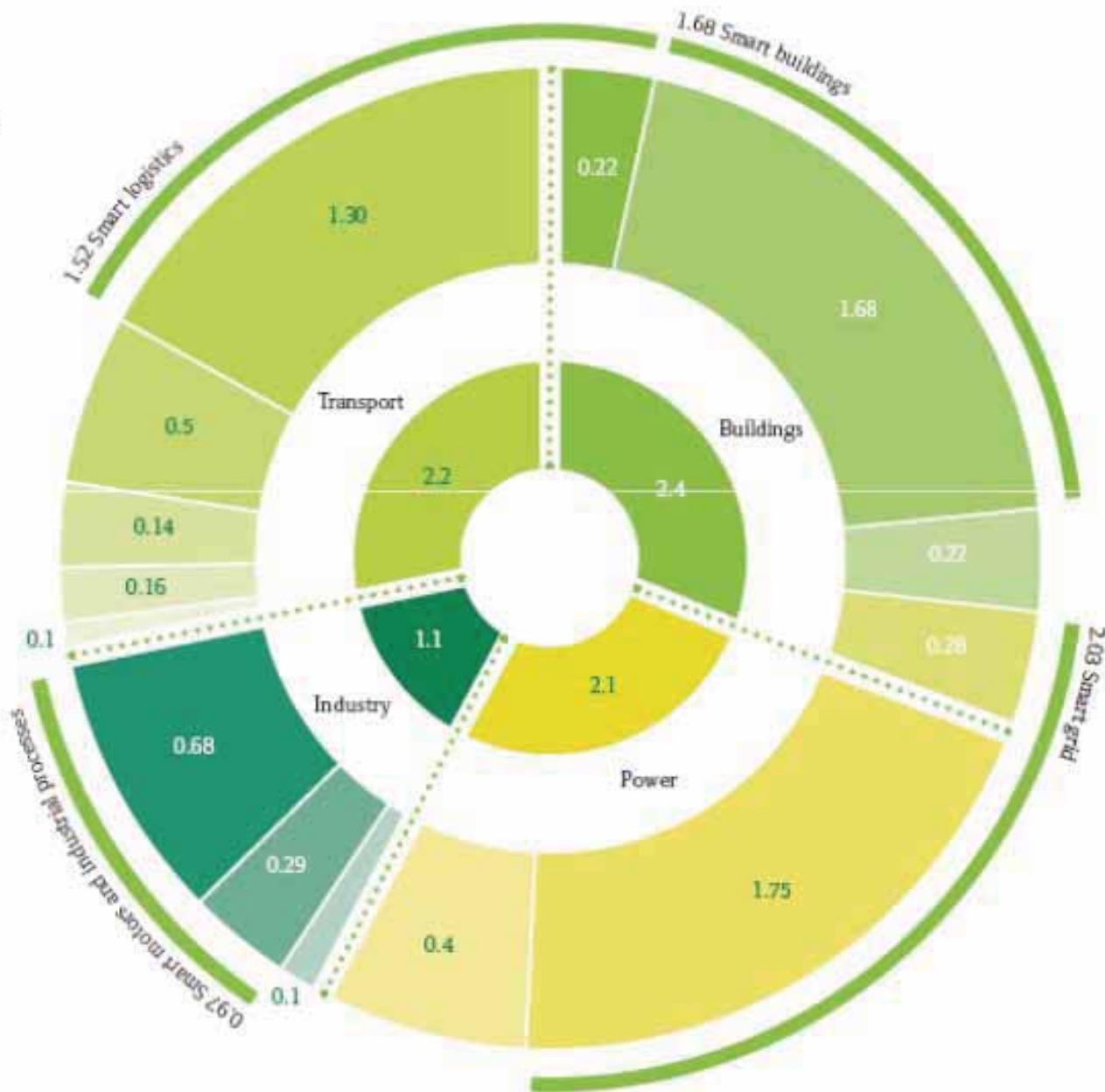
CO₂ emissions reduction - "Target" scenario

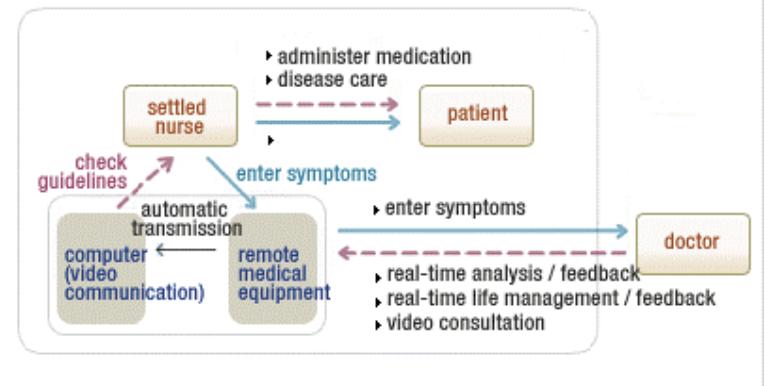
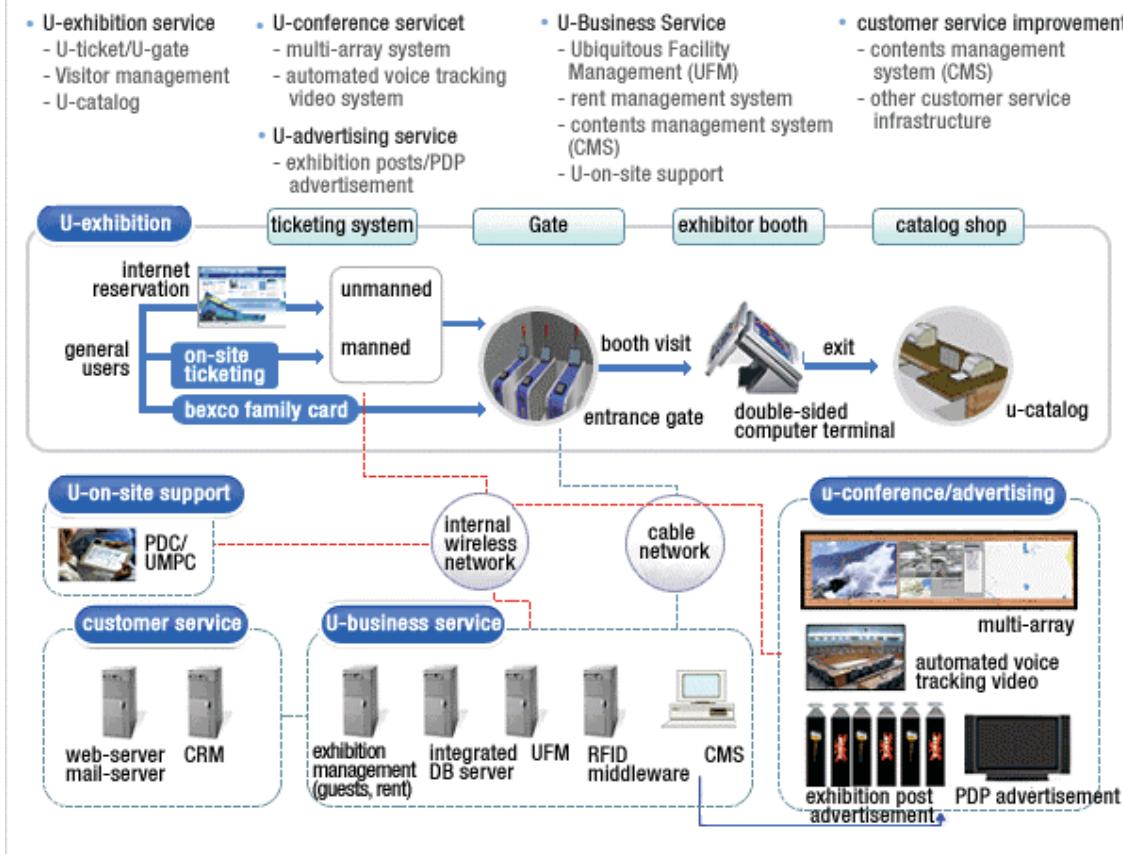
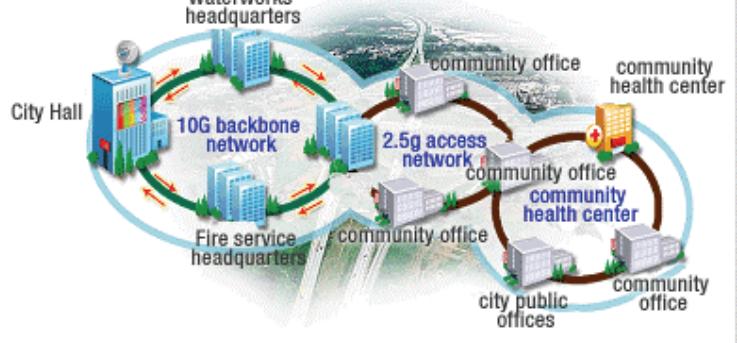
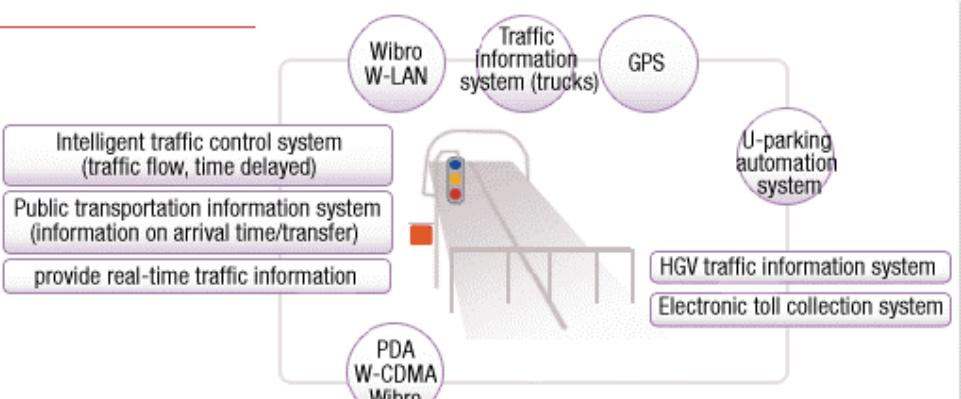




IN 2020, ICT could enable reductions of 7.8 Gt CO₂e

Industry	
Smart motors	0.22
Industrial process automation	1.30
Dematerialisation* (reduce production of DVDs, paper)	1.52 Smart logistics
Transport	
Smart logistics	0.5
Private transport optimisation	0.14
Dematerialisation (e-commerce, videoconferencing, teleworking)	0.16
Efficient vehicles (plug-ins and smart cars)	2.2
Traffic flow monitoring, planning and simulation	0.1
Buildings	
Smart logistics†	2.4
Smart buildings	1.68
Dematerialisation (teleworking)	0.22
Smart grid‡	0.28
Power	
Smart grid	1.75
Efficient generation of power combined heat and power (CHP)	0.4
Smart motors and industrial processes	0.97

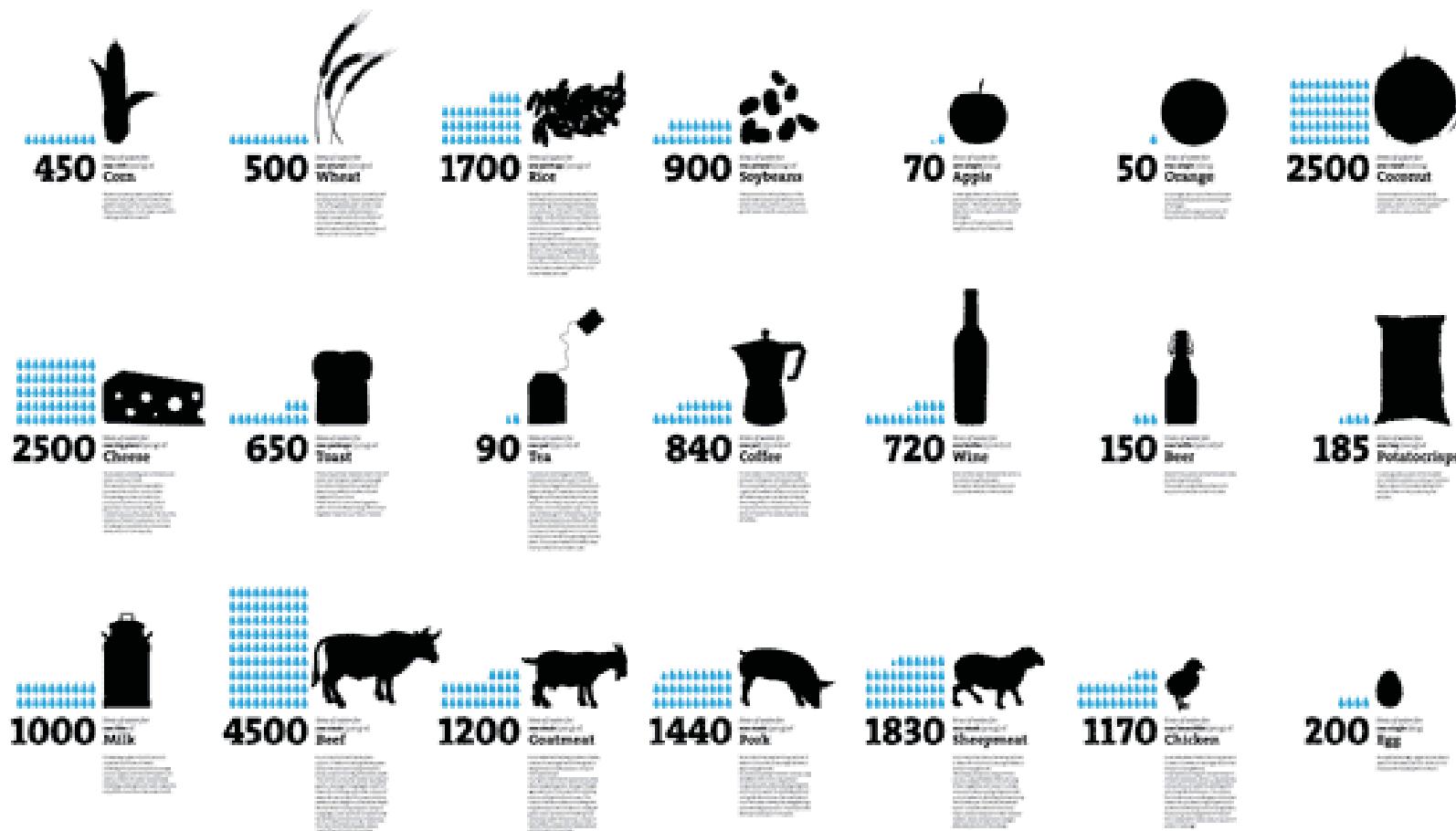






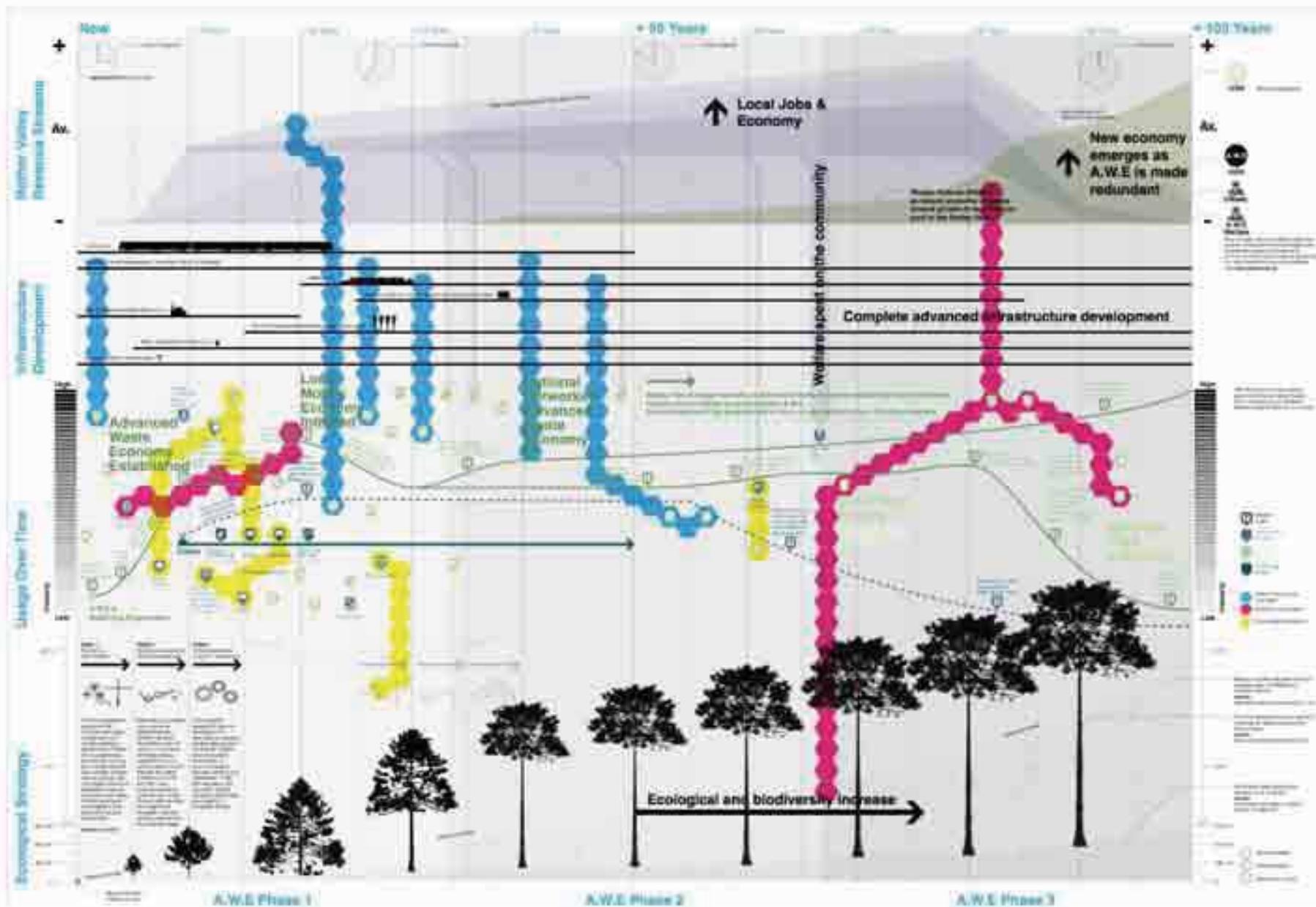
VIRTUAL **WATER**

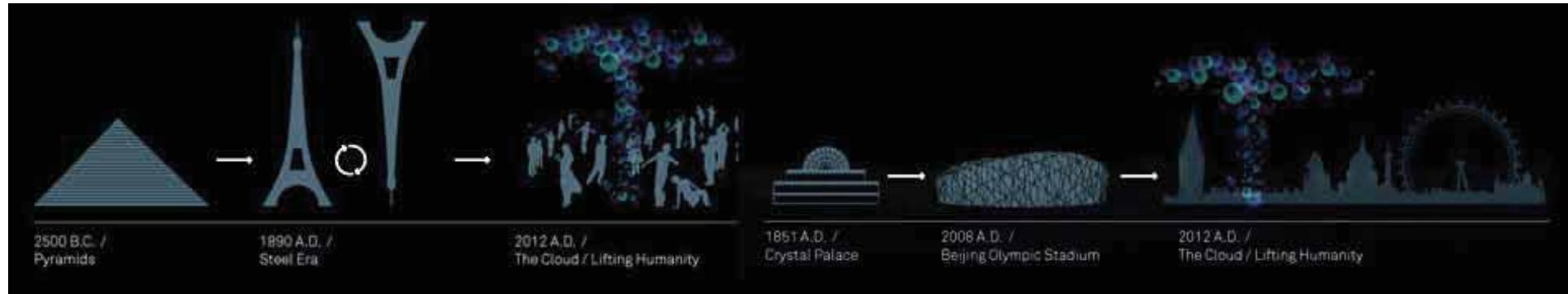
inside products



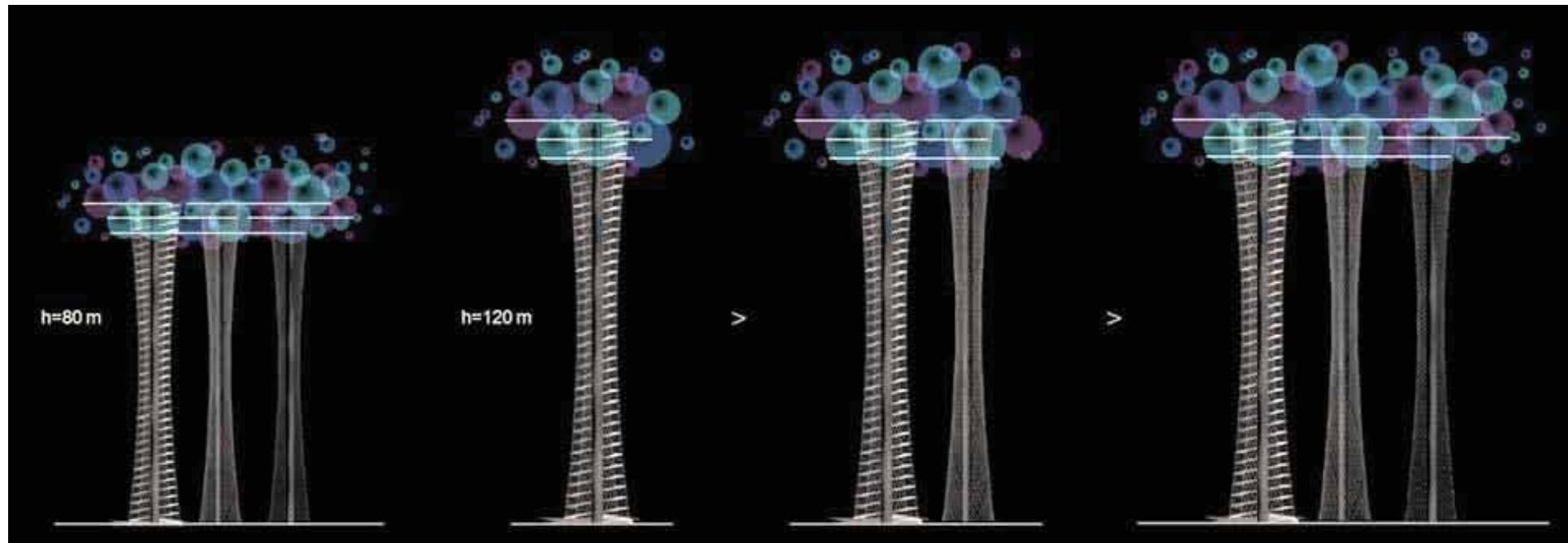
Advanced Waste Economy: Programme #1

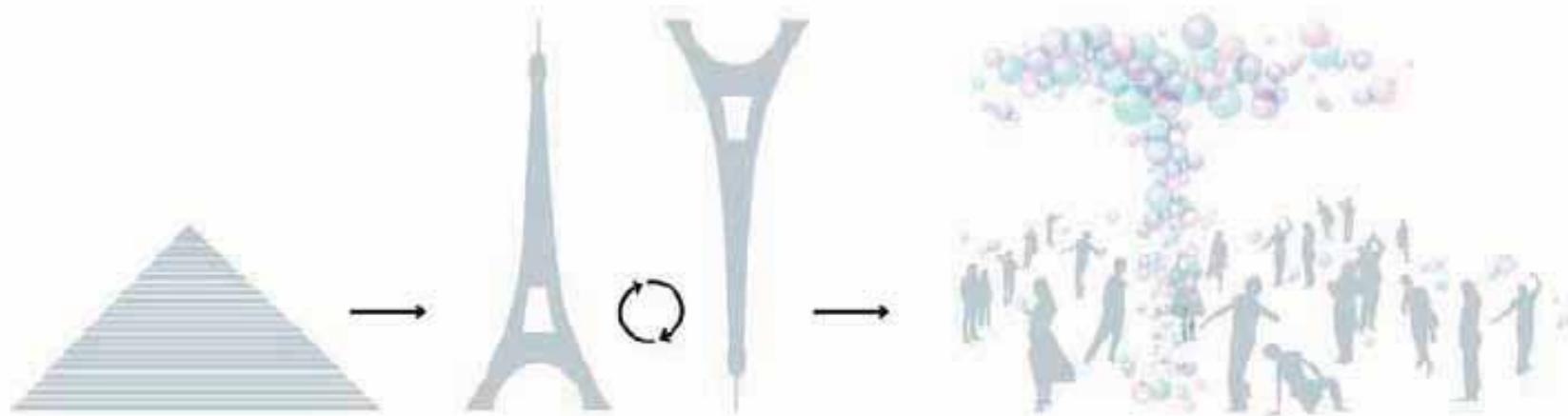
A vision of 100 years of social, ecological & environmental development





The Cloud

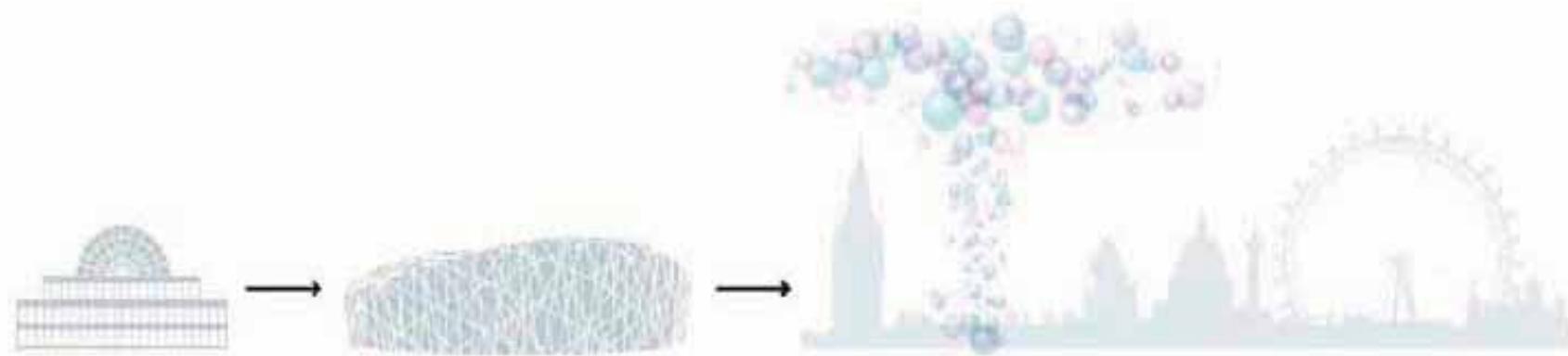




2500 B.C. /
Pyramids

1890 A.D. /
Steel Era

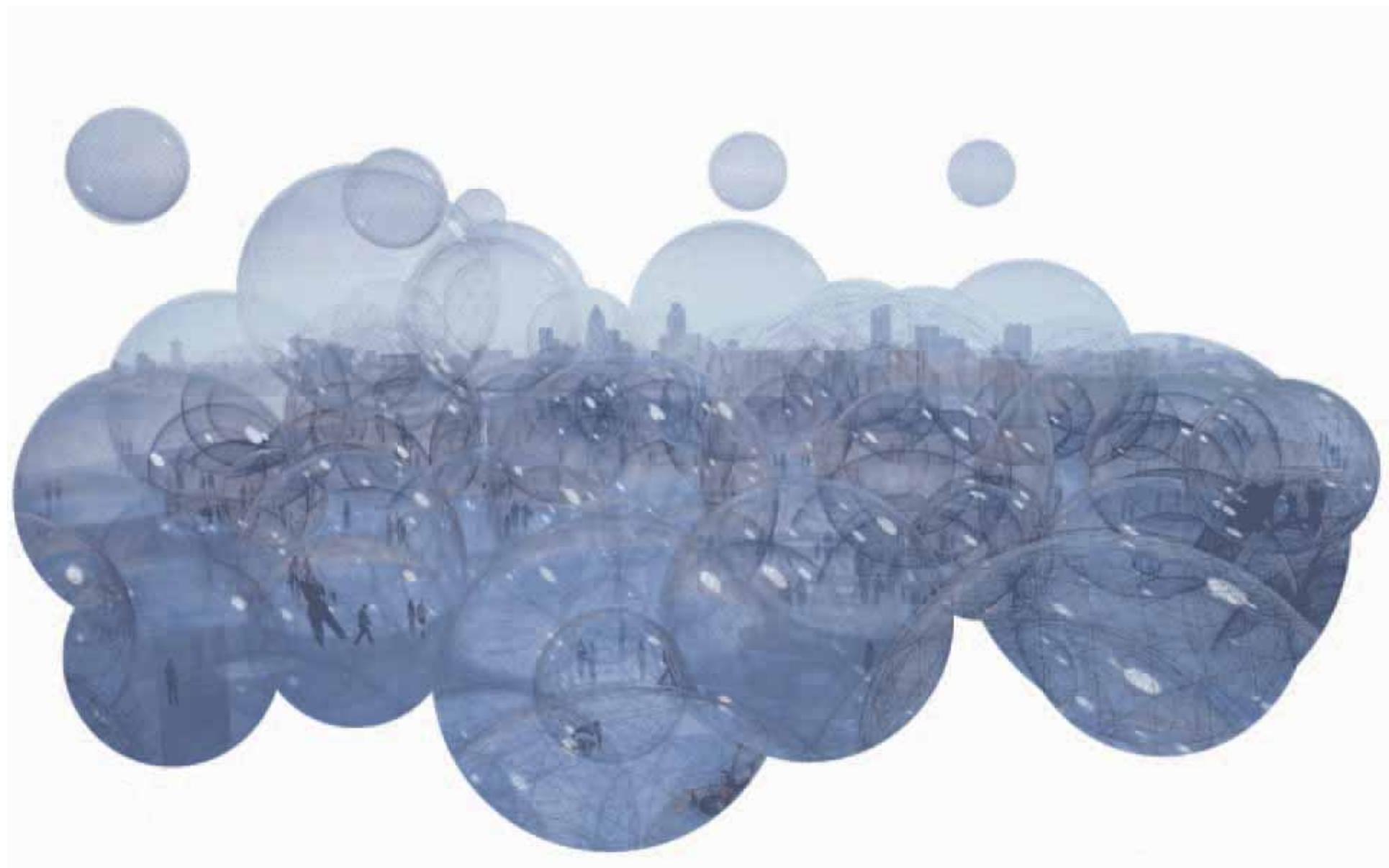
2012 A.D. /
The Cloud / Lifting Humanity



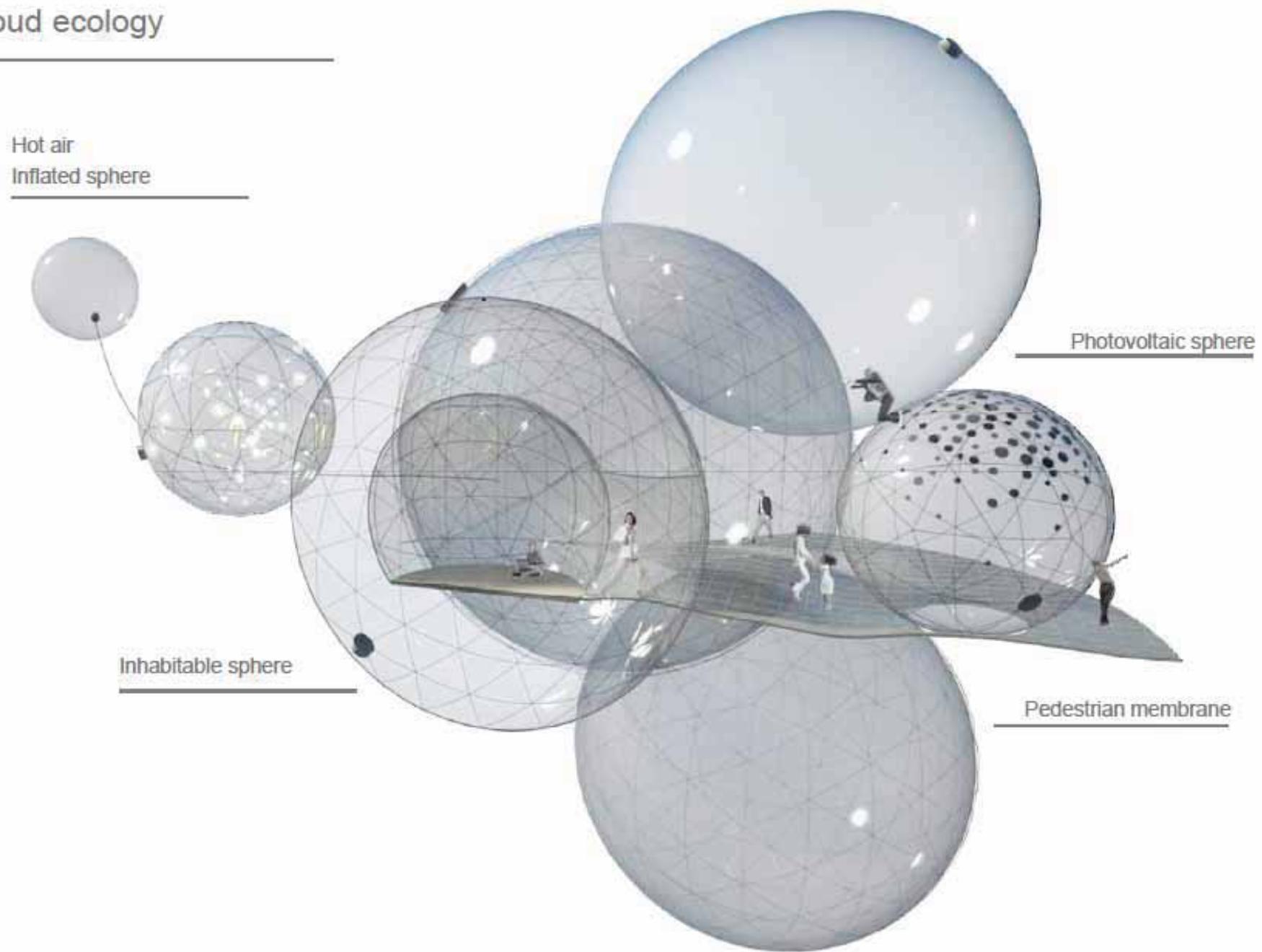
1851 A.D. /
Crystal Palace

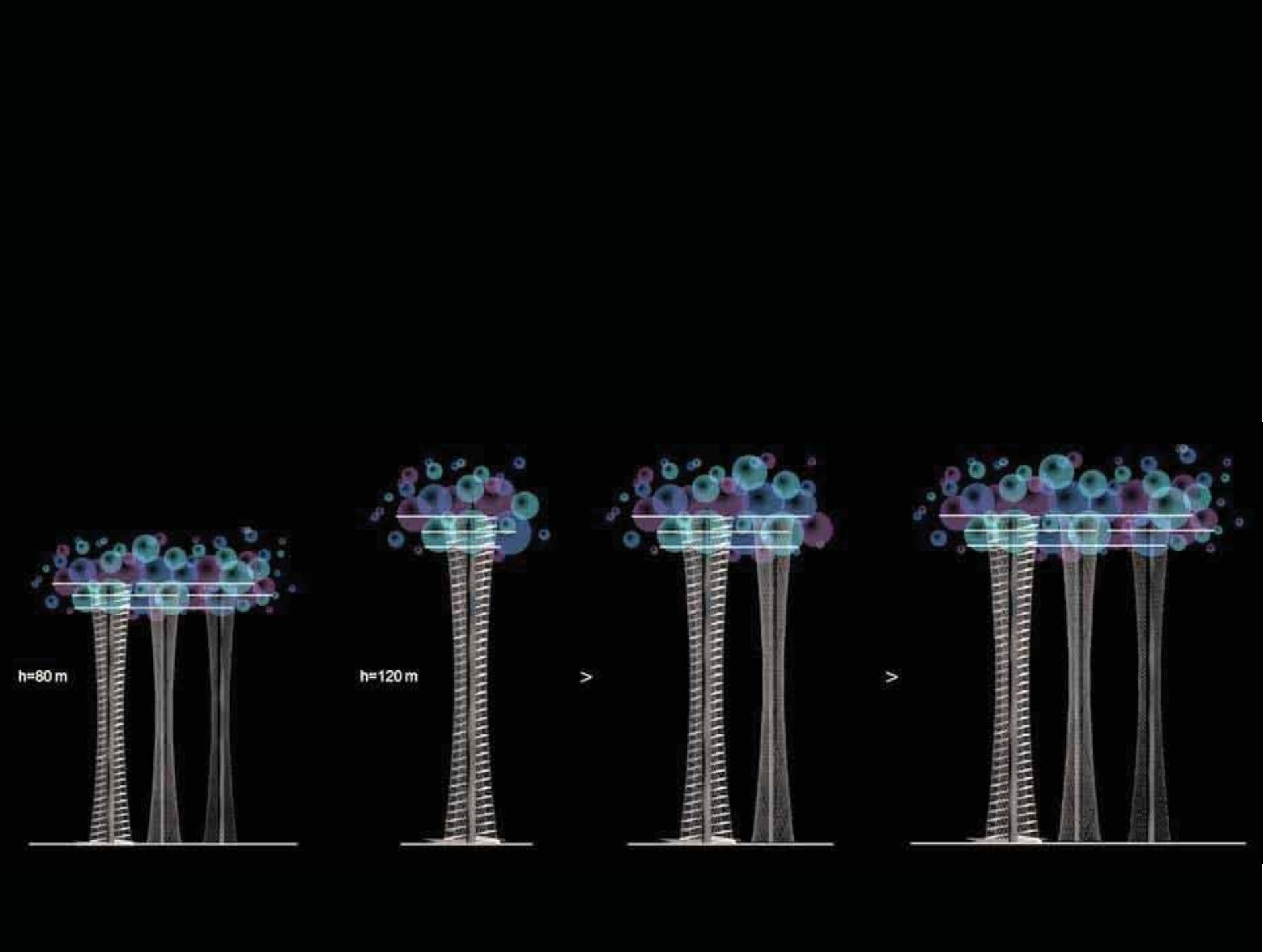
2008 A.D. /
Beijing Olympic Stadium

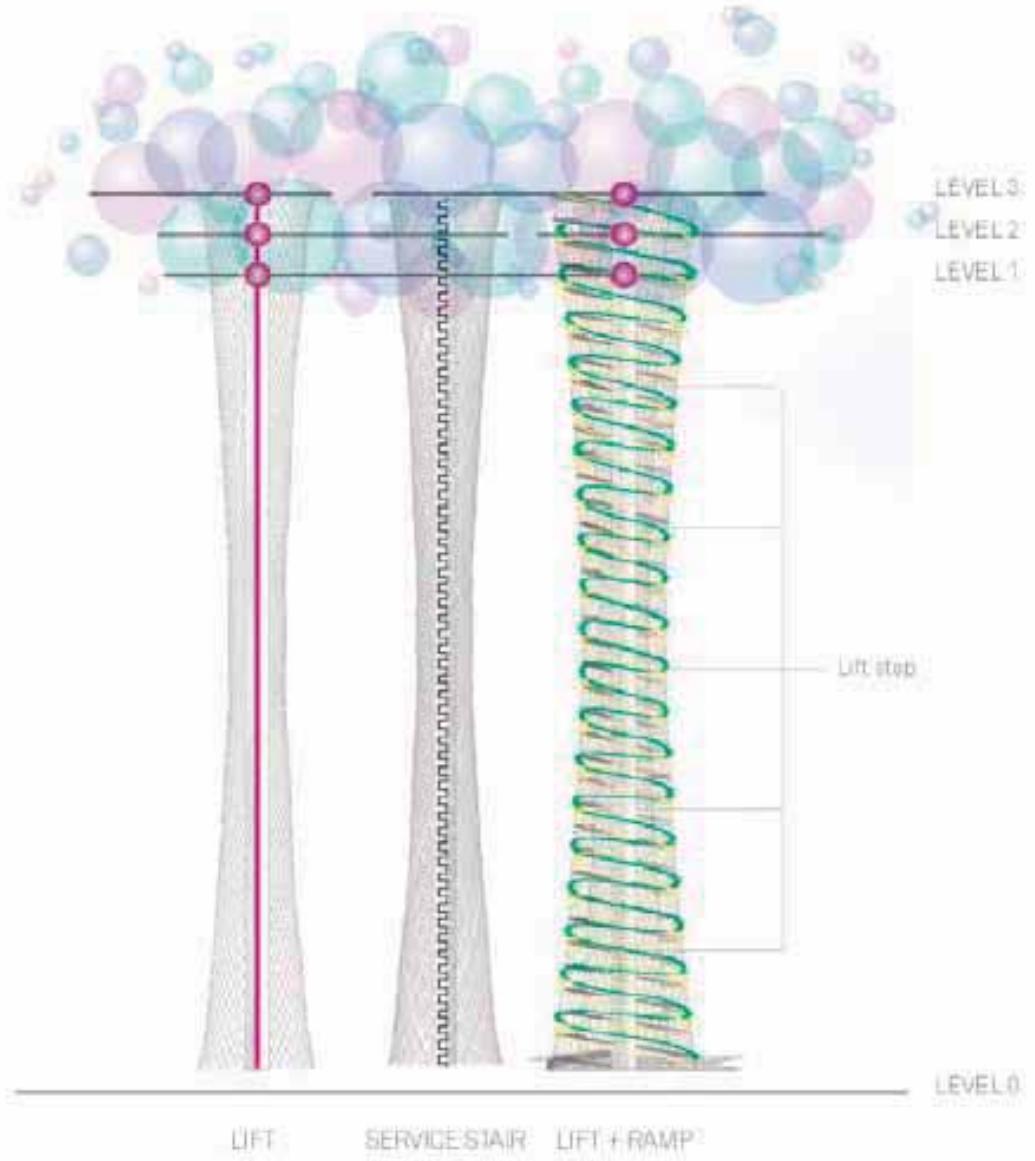
2012 A.D. /
The Cloud / Lifting Humanity



Cloud ecology







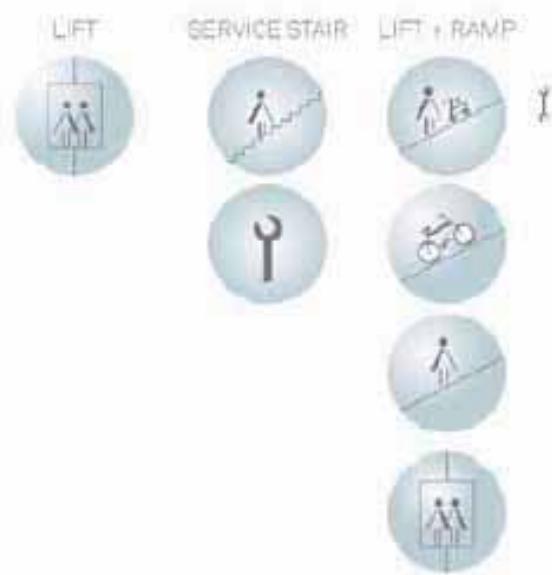
LEVELS:
LEVEL 2
LEVEL 1

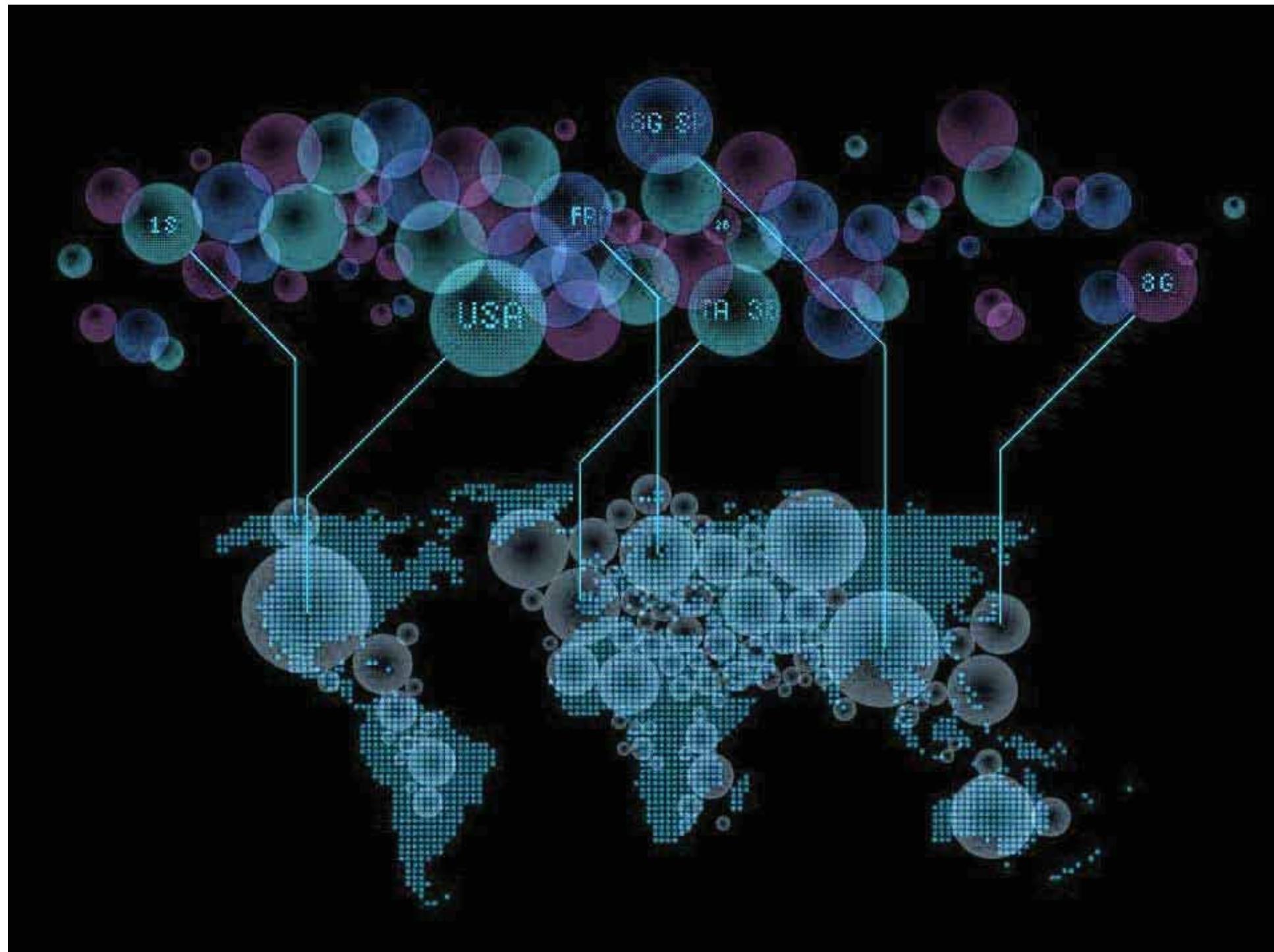
Lift stop

LEVEL 0

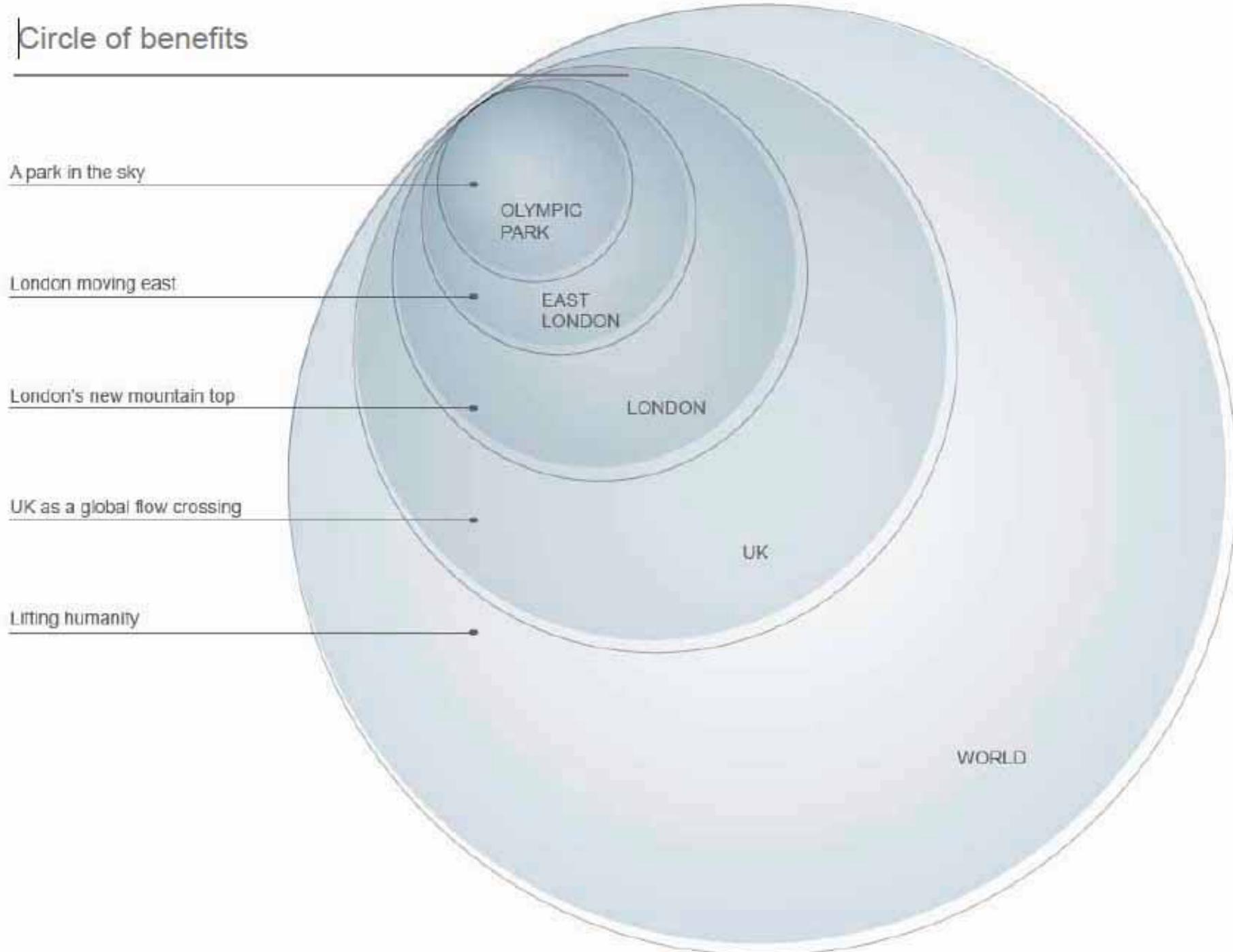
LIFT

SERVICE STAIR LIFT + RAMP





Circle of benefits







THE CLOUD

broadcasting the climate of humanity



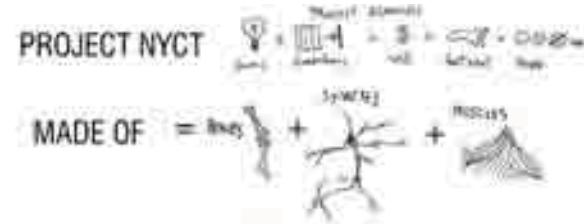


NYCTheatre LIFE CYCLE

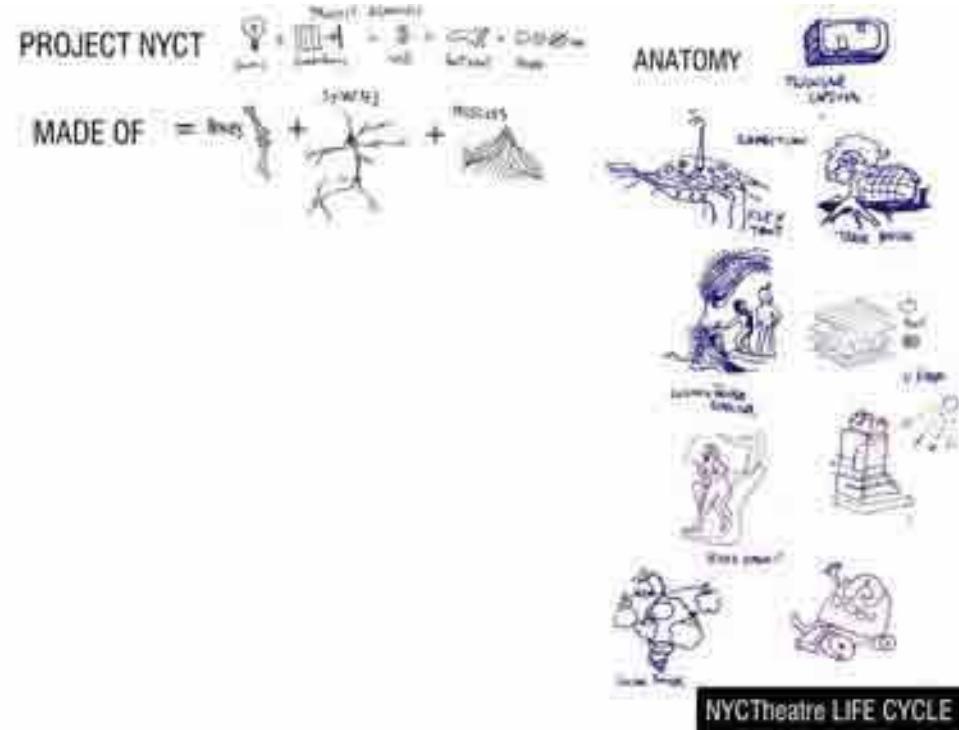
PROJECT NYCT

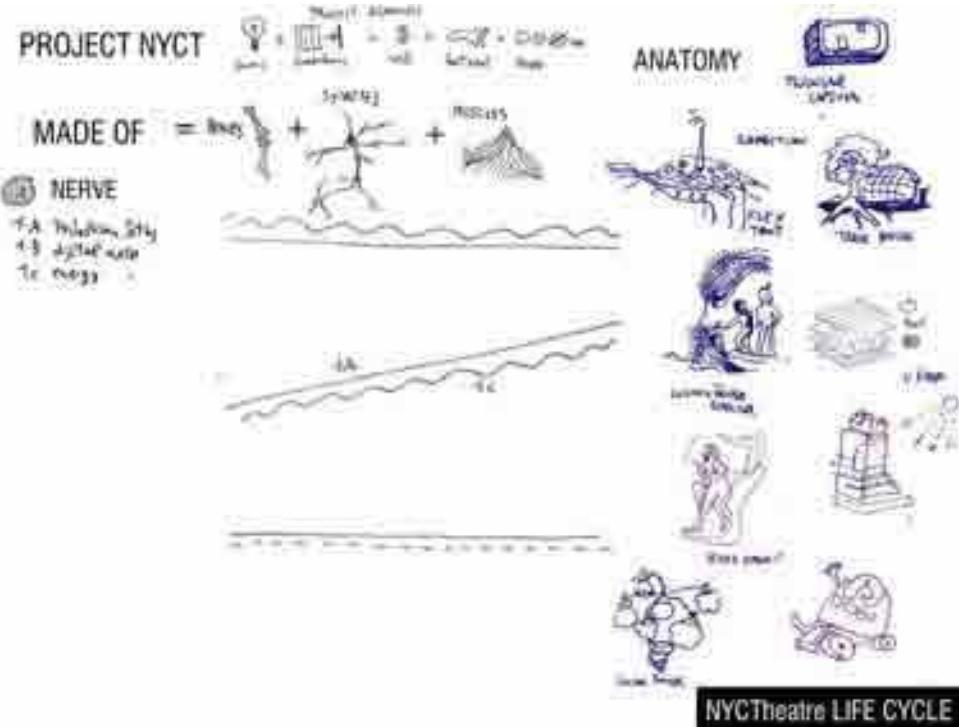


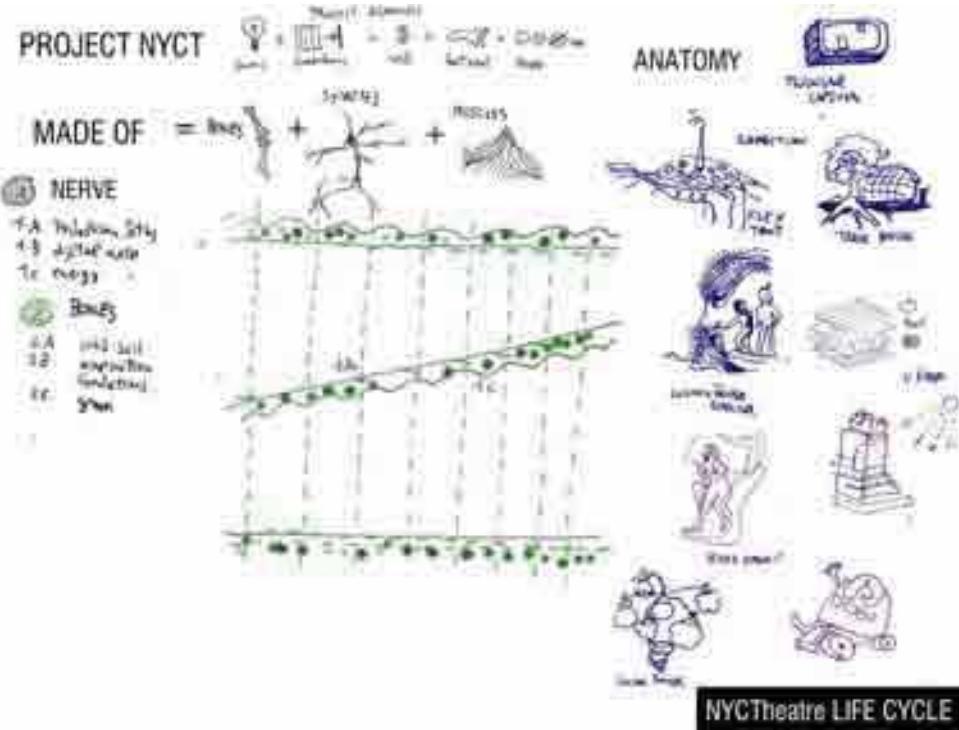
NYCTheatre LIFE CYCLE

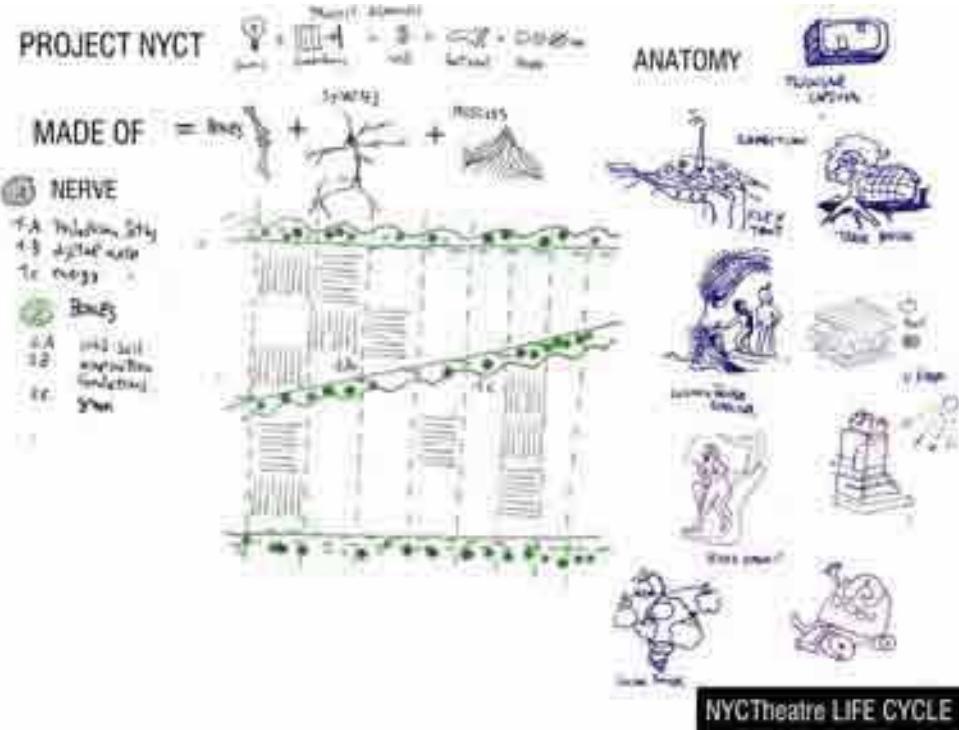


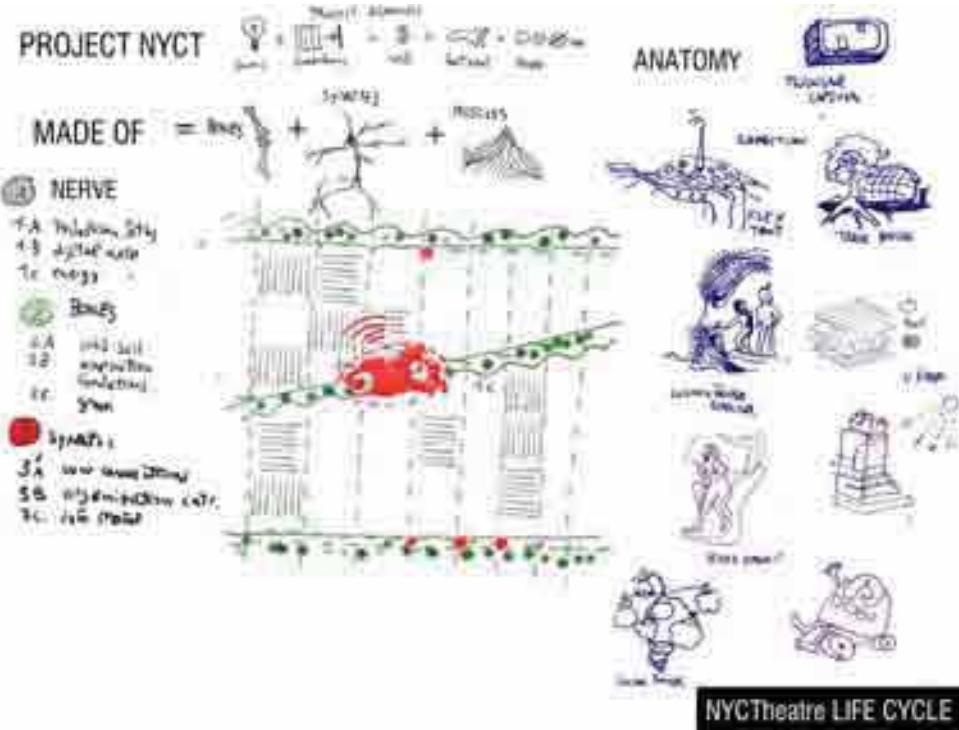
NYCTheatre LIFE CYCLE











PROJECT NYCT

MADE OF =

© NERVE

- F-A. Production, 2014
4-5 digital media
7-8 design

Home

- 4A 1948-1949
32 ~~Supplementary~~
44 ~~Collection~~

34/47

- 3A New Mexico
3B Michigan
3C New York

GROWTH

- Truth**
defined; truth
in history; truth
objectively &
impartially

$$Q = \frac{N_{\text{out}}(t) - N_{\text{in}}(t)}{N_{\text{in}}(t)} = 0.7 \rightarrow Q_f = 0.68 \pm 0.02$$

+ 59474 + 70245



ANATOMY



NYCTheatre LIFE CYCLE

PROJECT NYCT

MADE OF

① NERVE

- TA: Thalamus, Spdg
- TA: Dorsal root
- TA: Nerve

② BODY

- TA: spinal cord
- TA: synapses
- TA: brain

③ SYNAPSE

- TA: new nerve fibers
- TA: synapses
- TA: new nerve

④ GROWTH

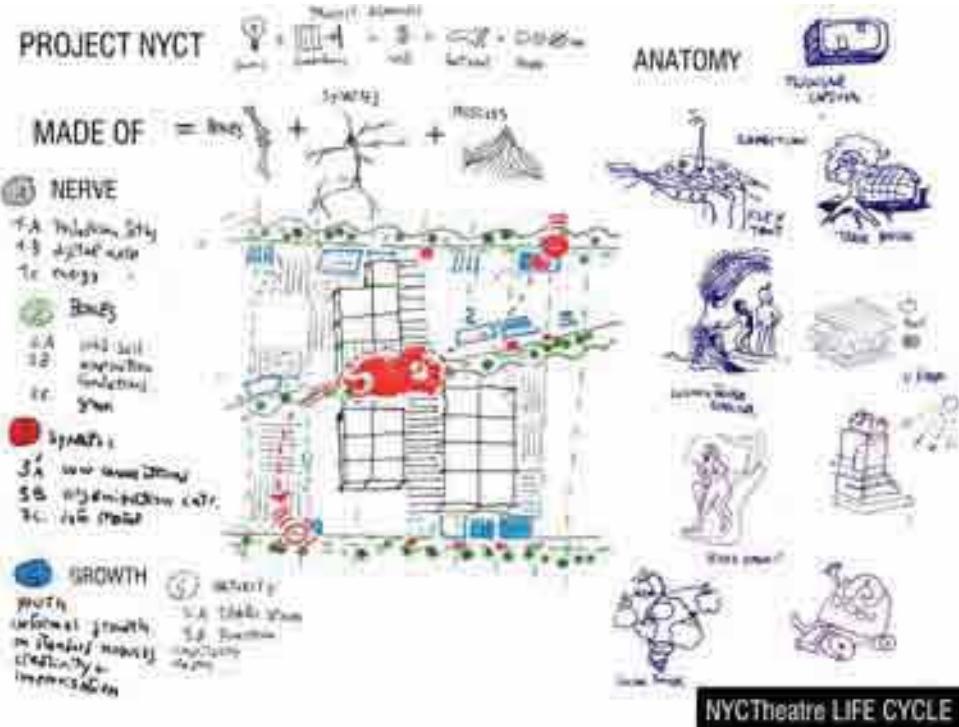
- TA: growth
- TA: neural growth
- TA: neurons
- TA: creativity
- TA: innovation

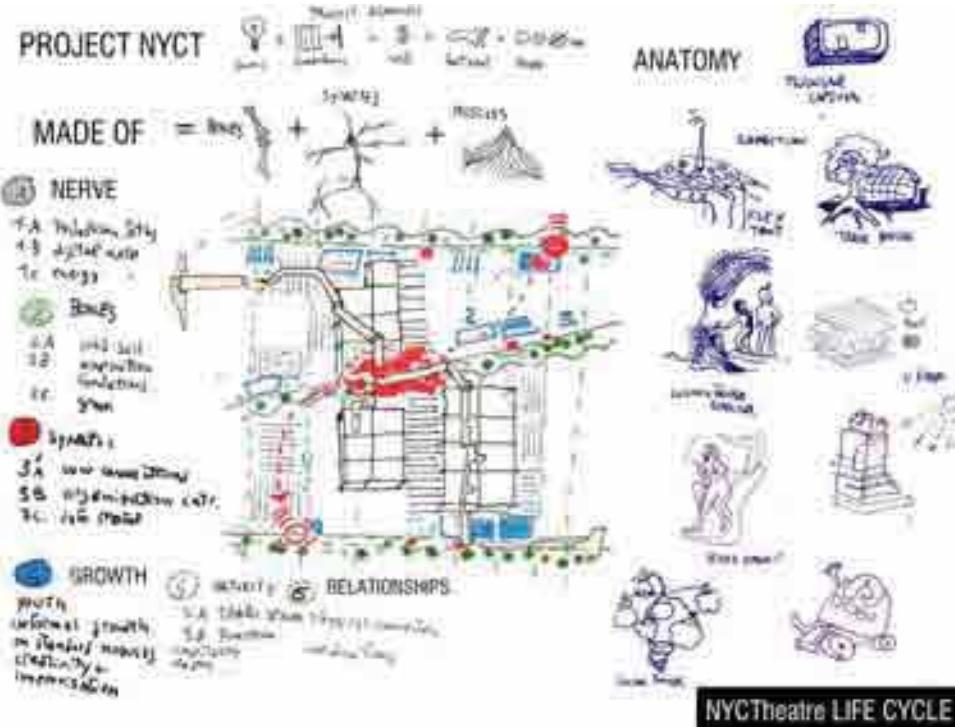


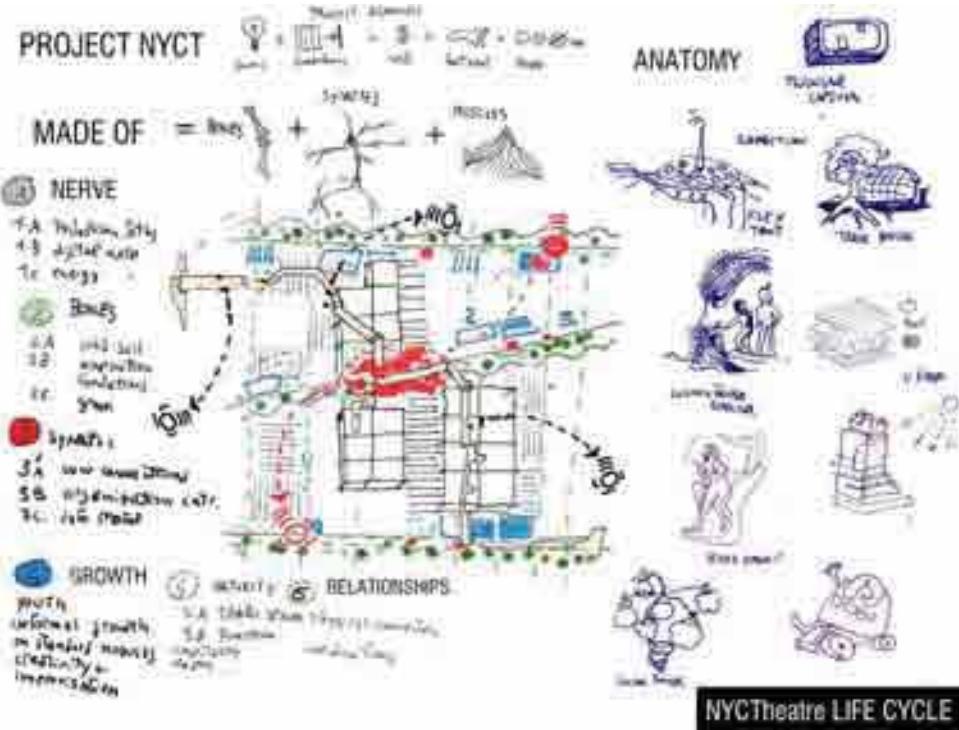
ANATOMY

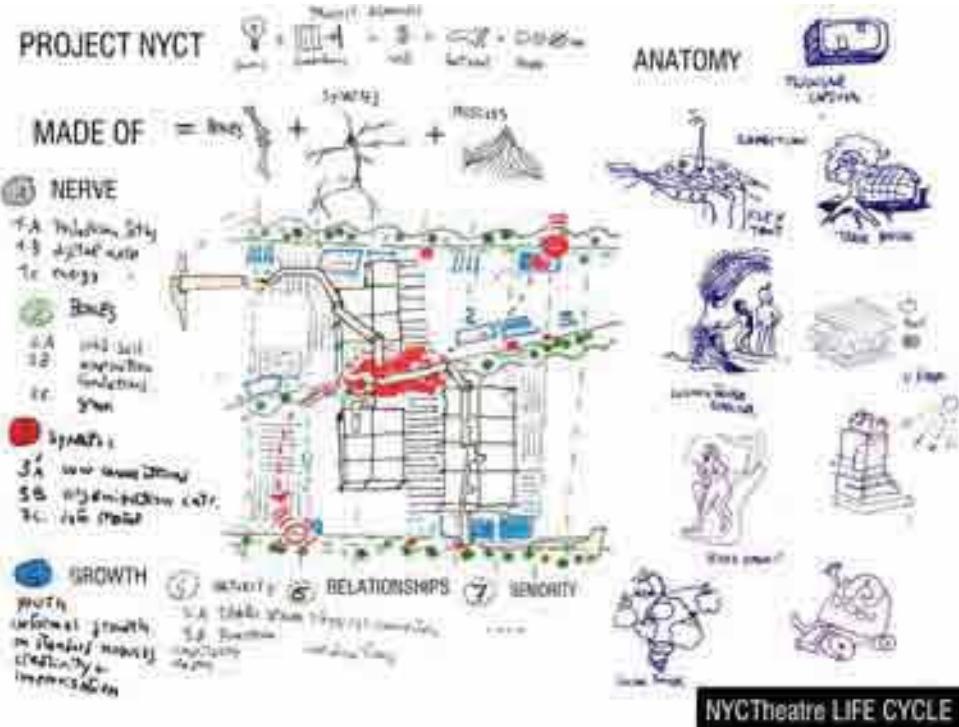


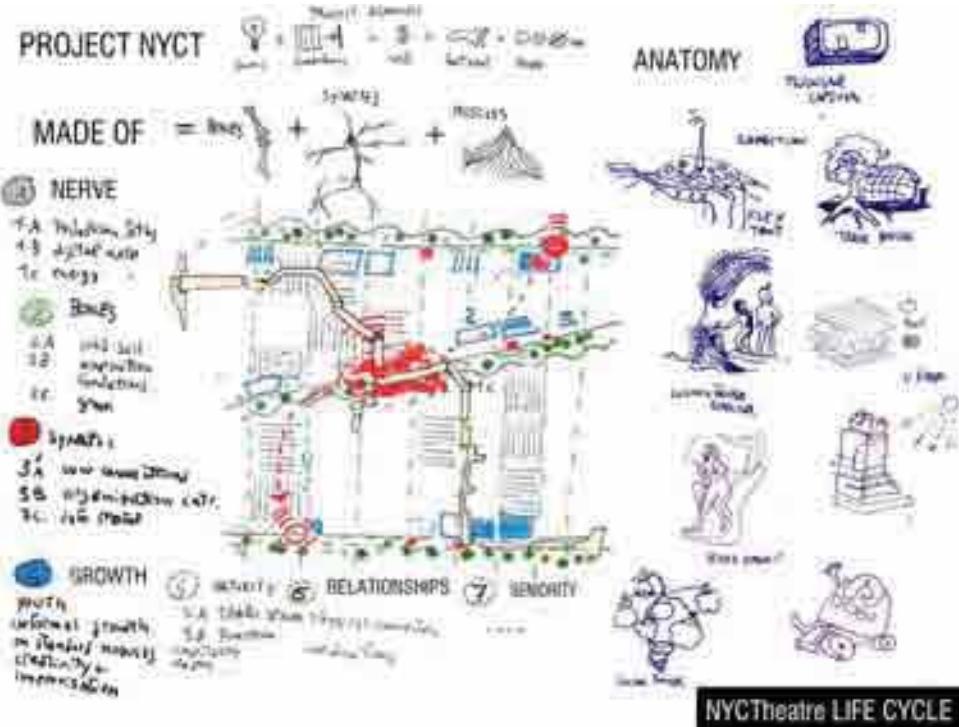
NYCTheatre LIFE CYCLE

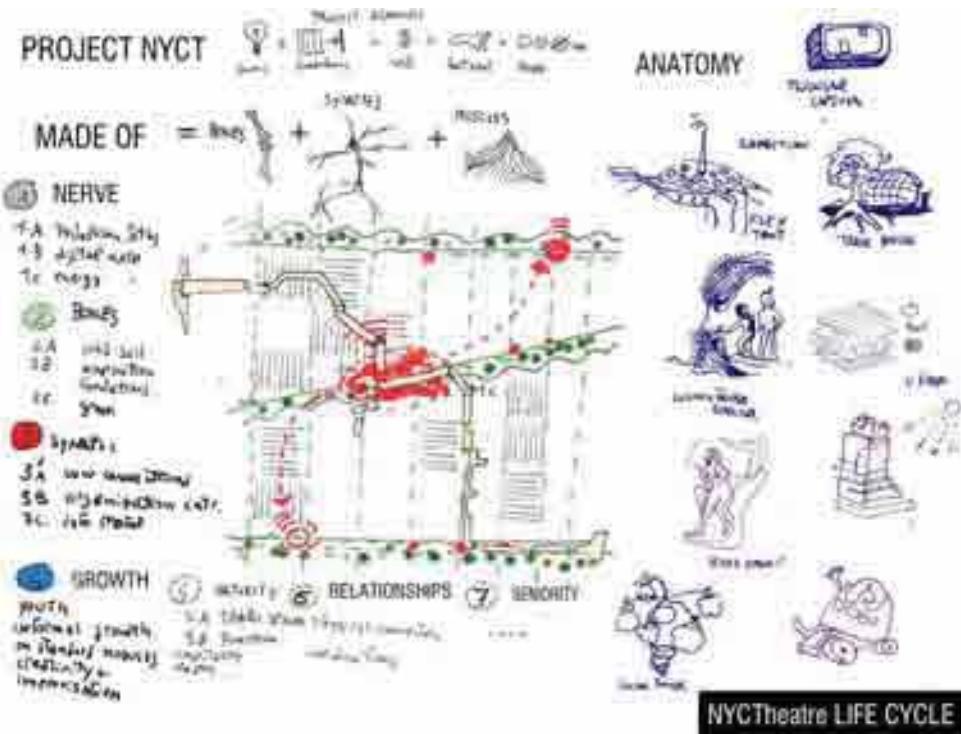


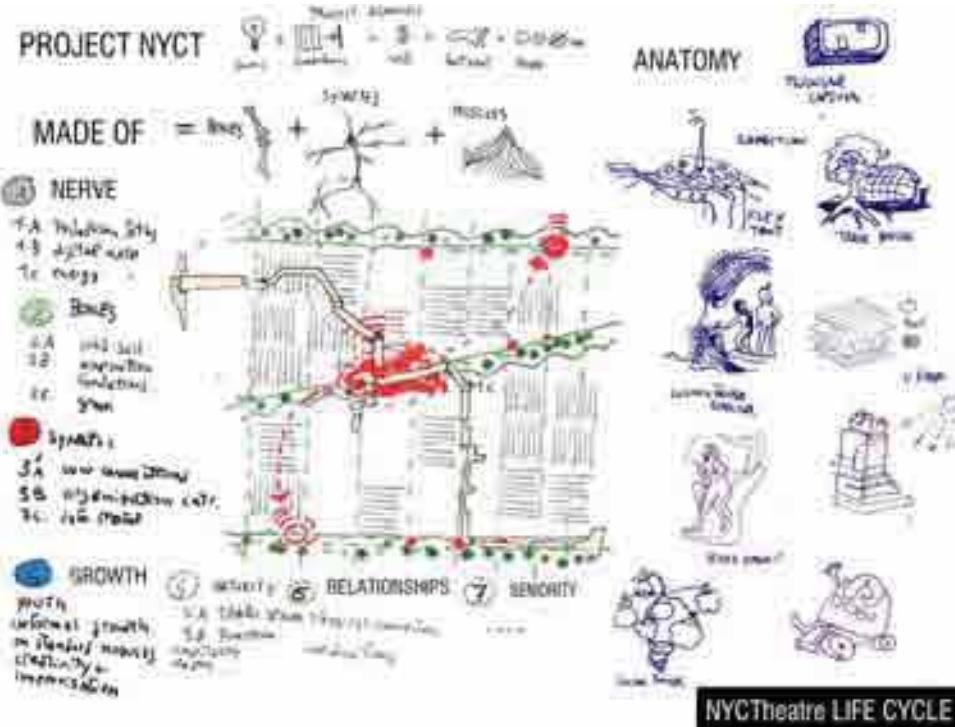


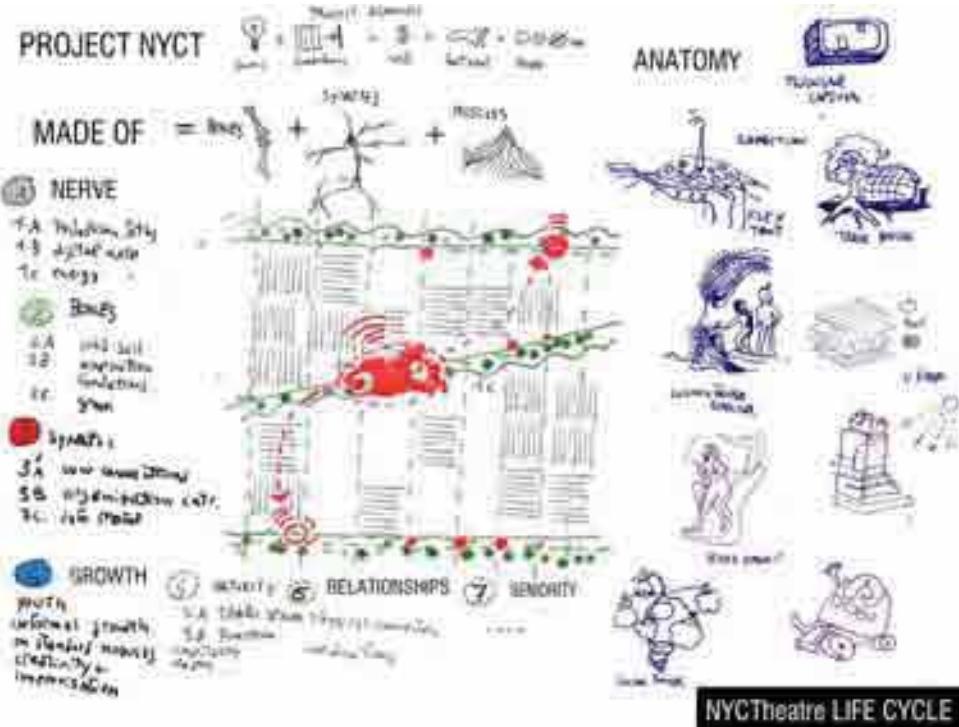












PROJECT NYCT

MADE OF =

- (A) NERVE**

- Boney

- 374427-1

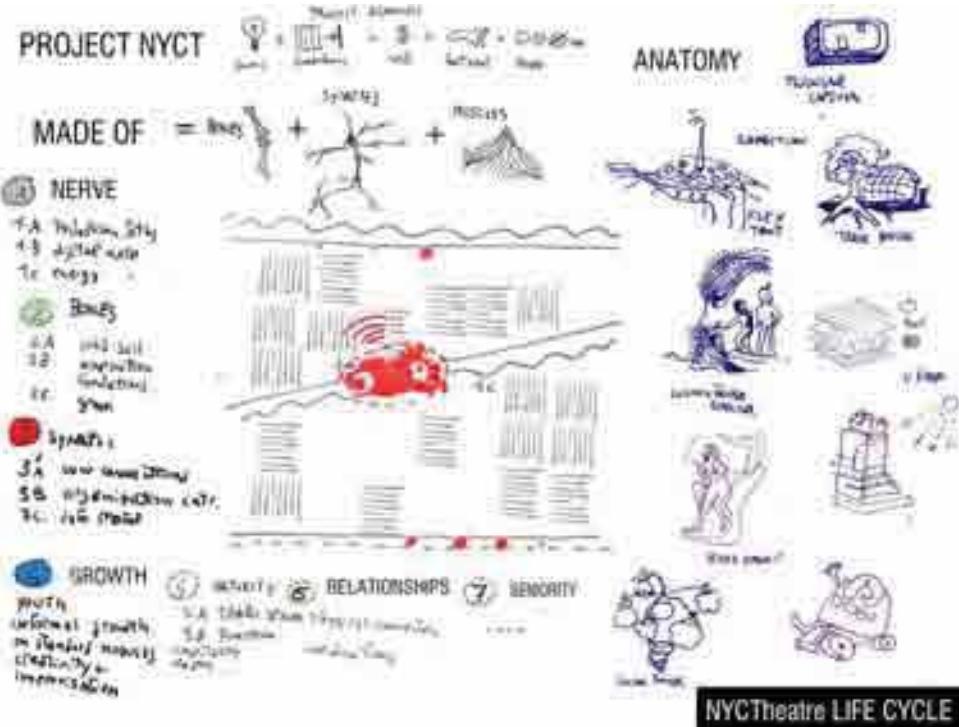
- ## GROWTH



ANATOMY



NYCTheatre LIFE CYCLE



PROJECT NYCT

MADE OF

① NERVE

- 1A. Nerve Stk
- 1B. digital wire
- 1C. mesh

② BODY

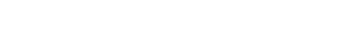
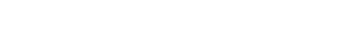
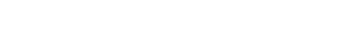
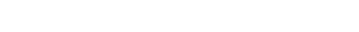
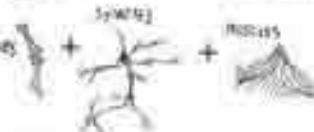
- 2A. solid shell
- 2B. organic function
- 2C. skin

③ SPHERE

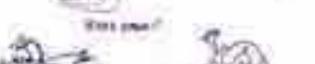
- 3A. new wave 20mg
- 3B. big-melodic ext.
- 3C. red pearl

④ GROWTH

- 4A. growth
- 4B. growth in numbers
- 4C. creativity + innovation



ANATOMY



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