

# 2050 Culture of Living

## Mobile living culture and city form: a 'fondaco' system to link Venice and the East

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Mumbai march 2010

# Mobile living culture and city form



**Urban infrastructures are:**

**Mentals**

**Ethics**

**Economics**

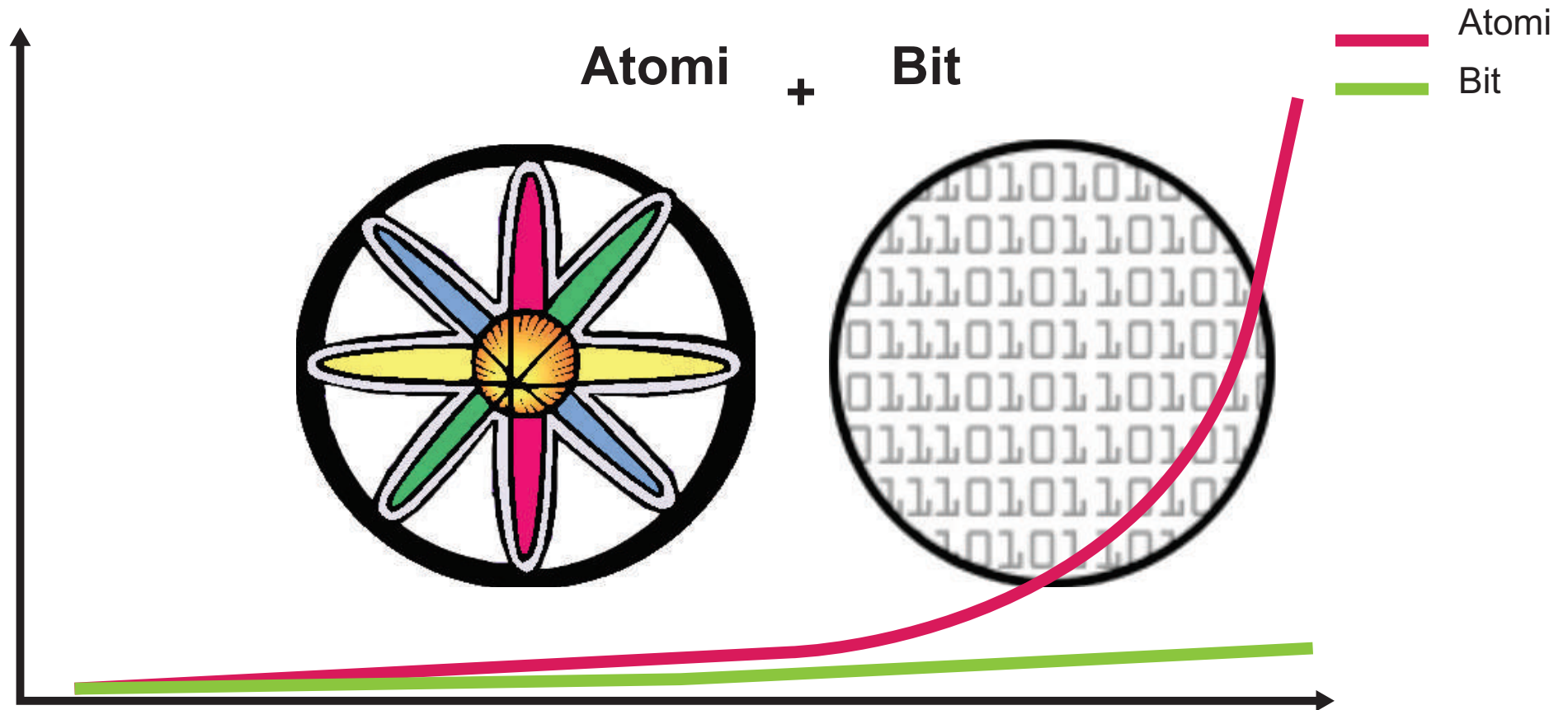
**Physicals**

**Naturals**



**...the infrastructures are visibles and invisibles**

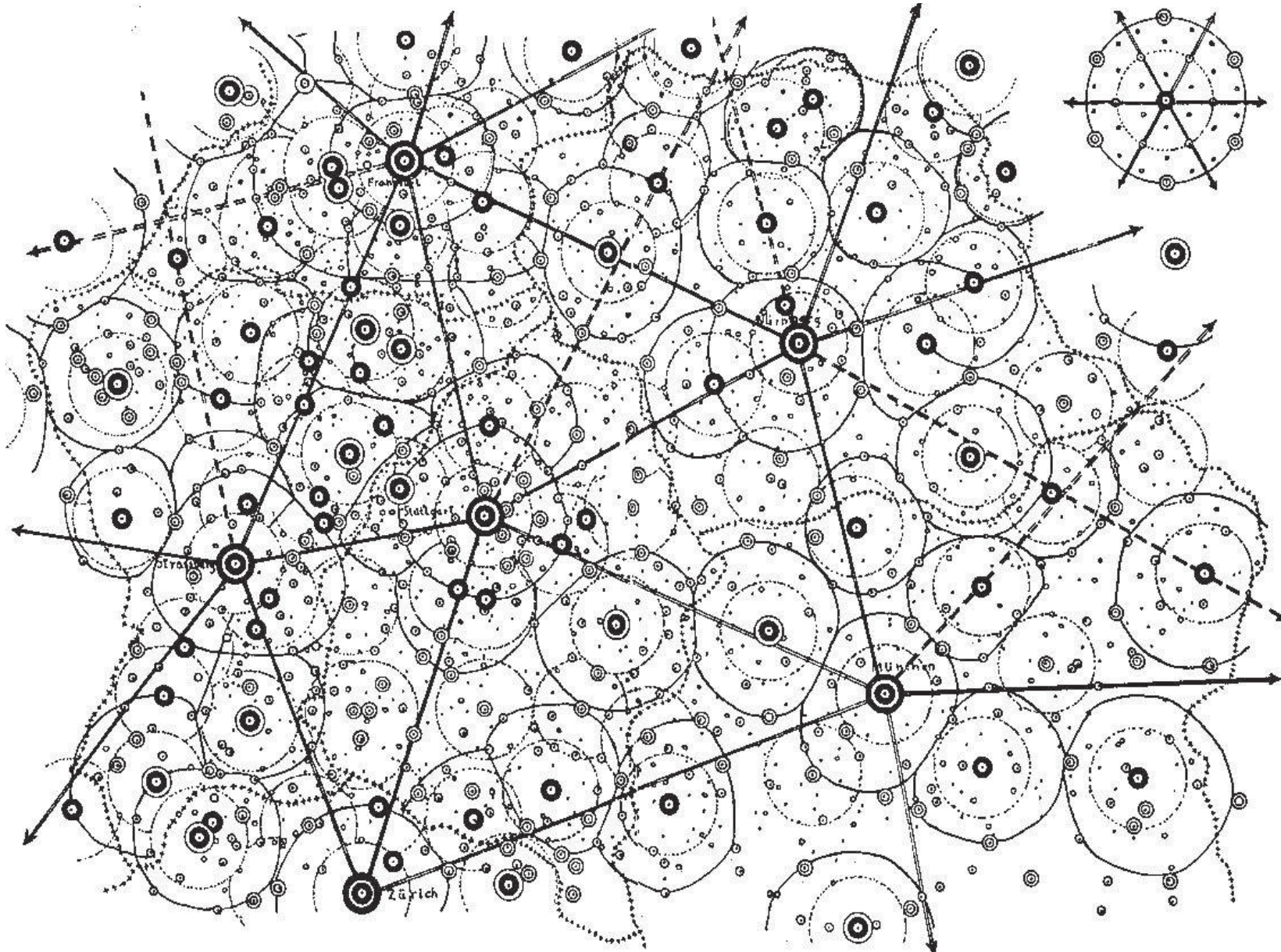
# The infrastructure matter are:



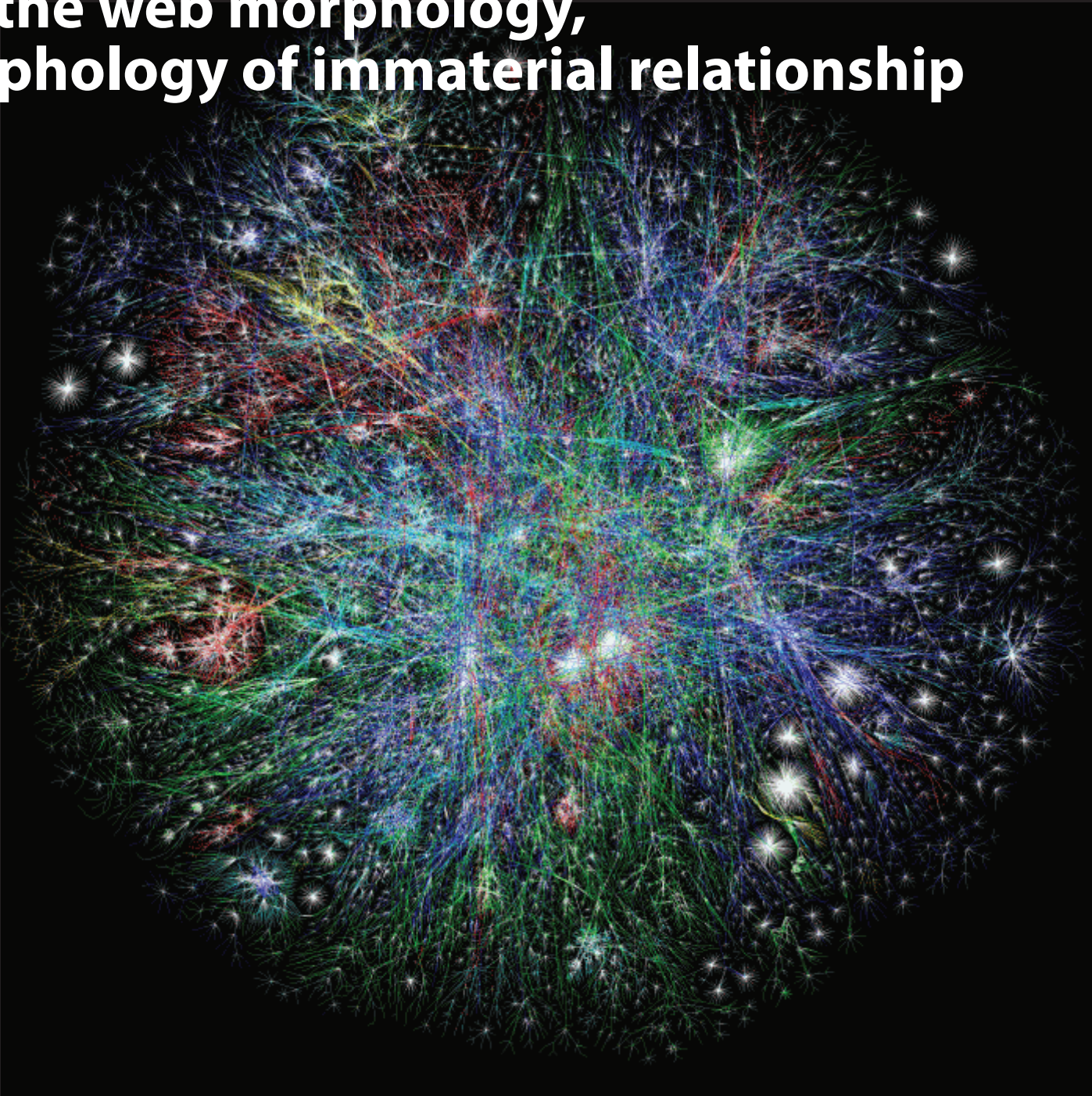
Power over Atom: linear at best

Power over Bit: **exponential growth**

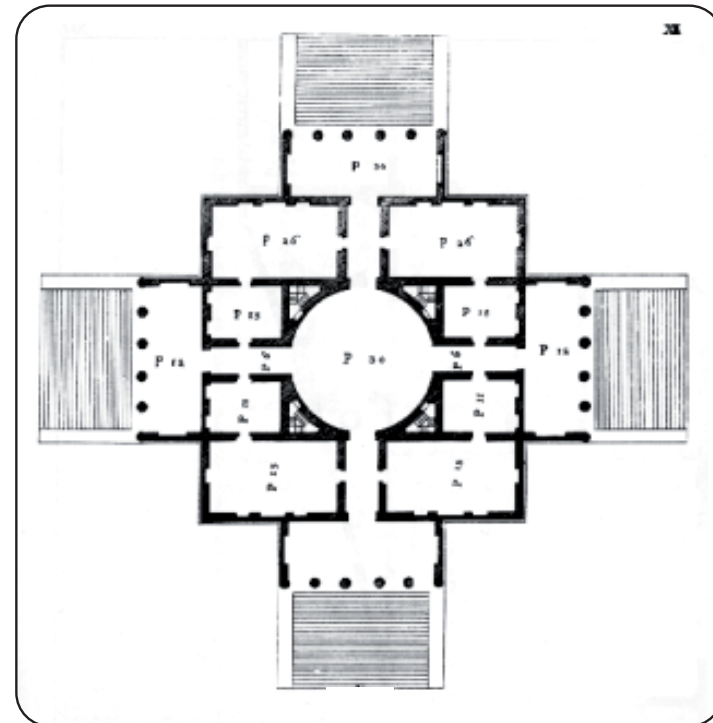
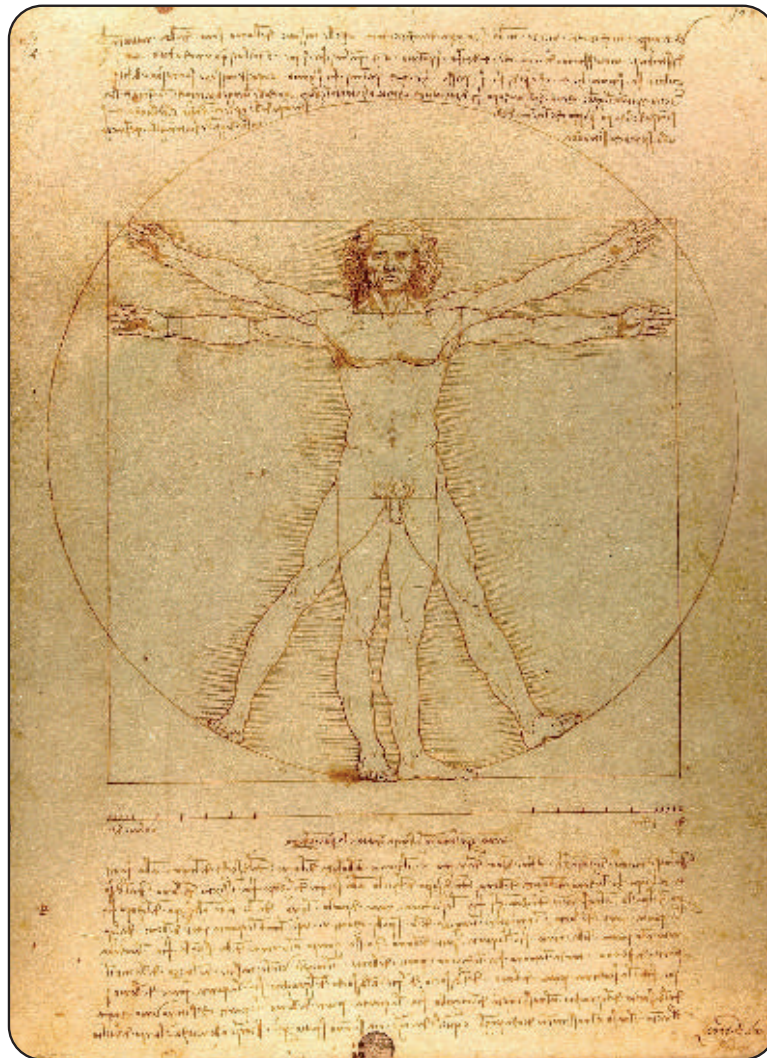
# This means to connect historical -physical morphology



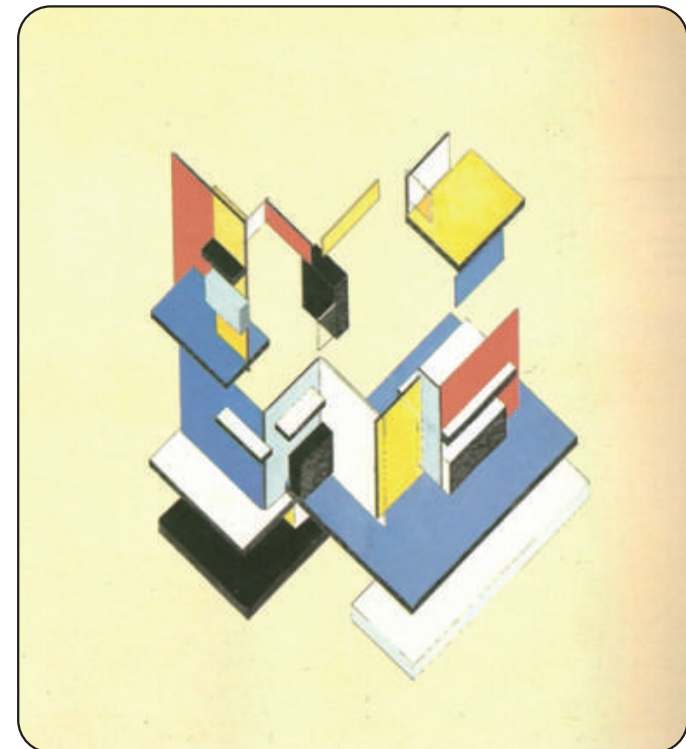
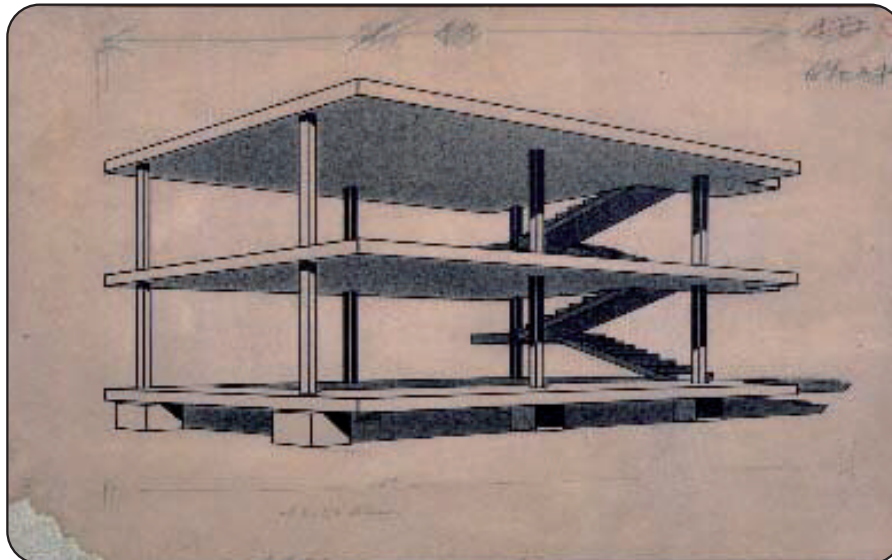
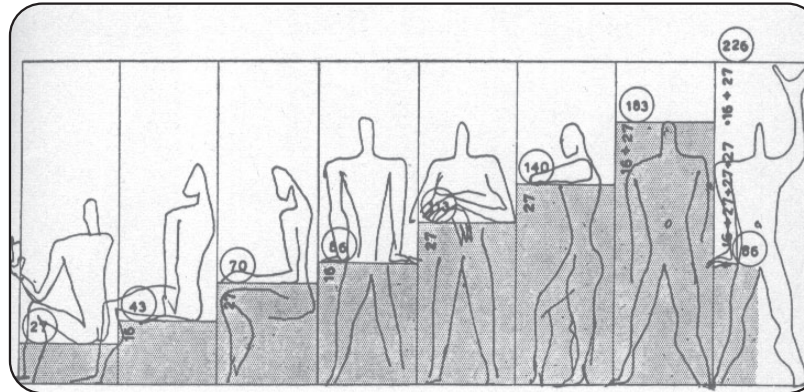
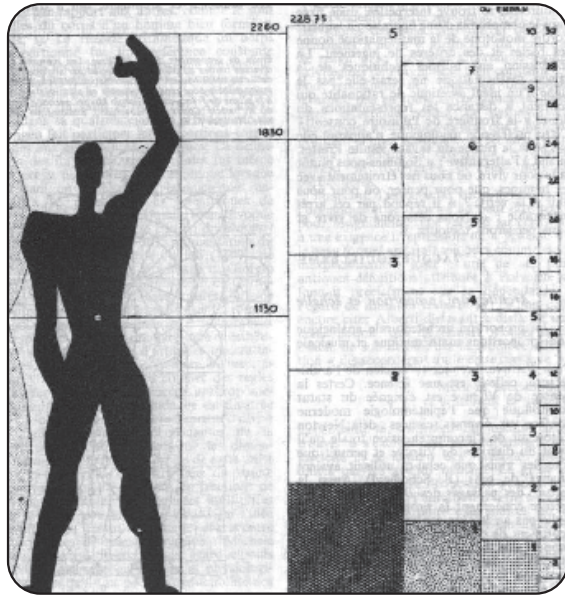
**....with the web morphology,  
the morphology of immaterial relationship**



# Design paradigms: 1. The Vitruvio's man

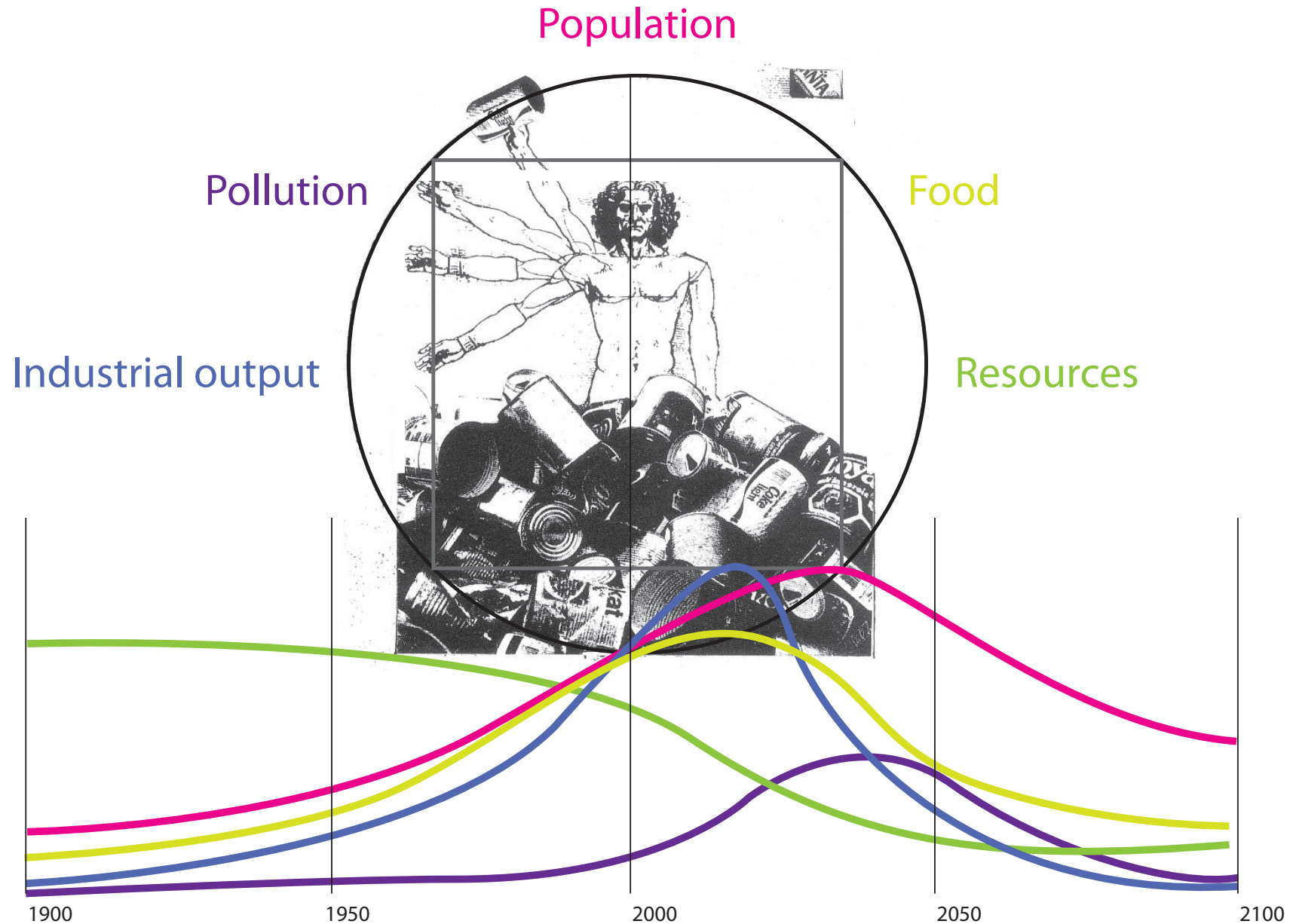


# Design paradigms: 2. The modulator

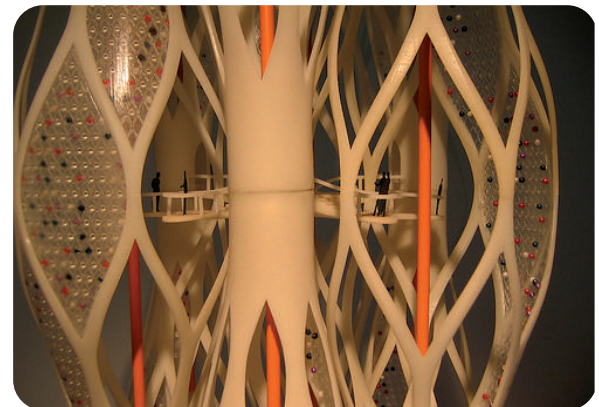
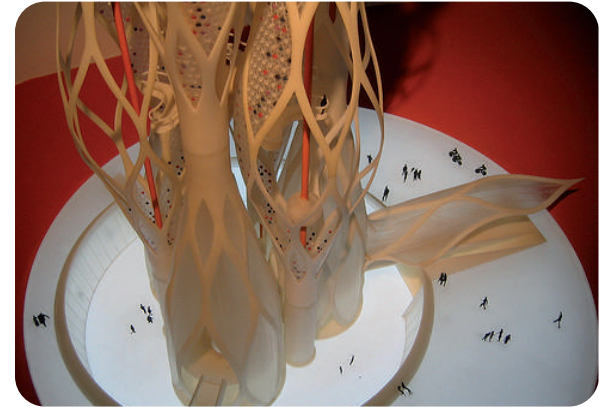
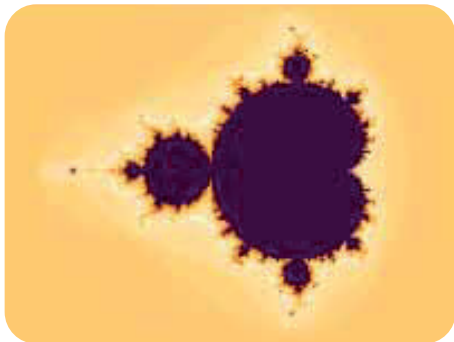
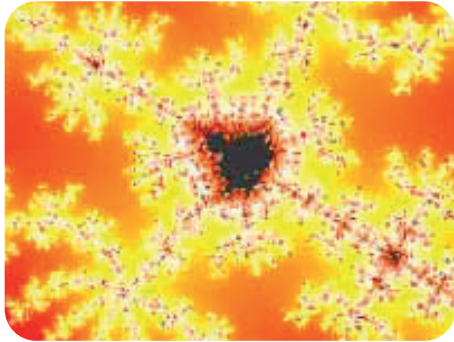
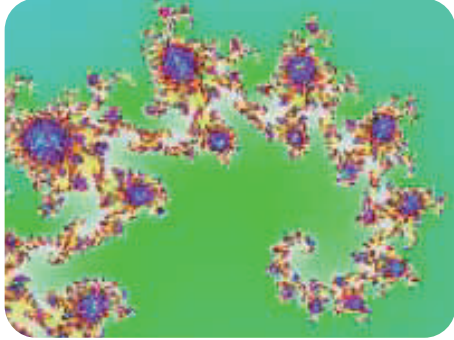




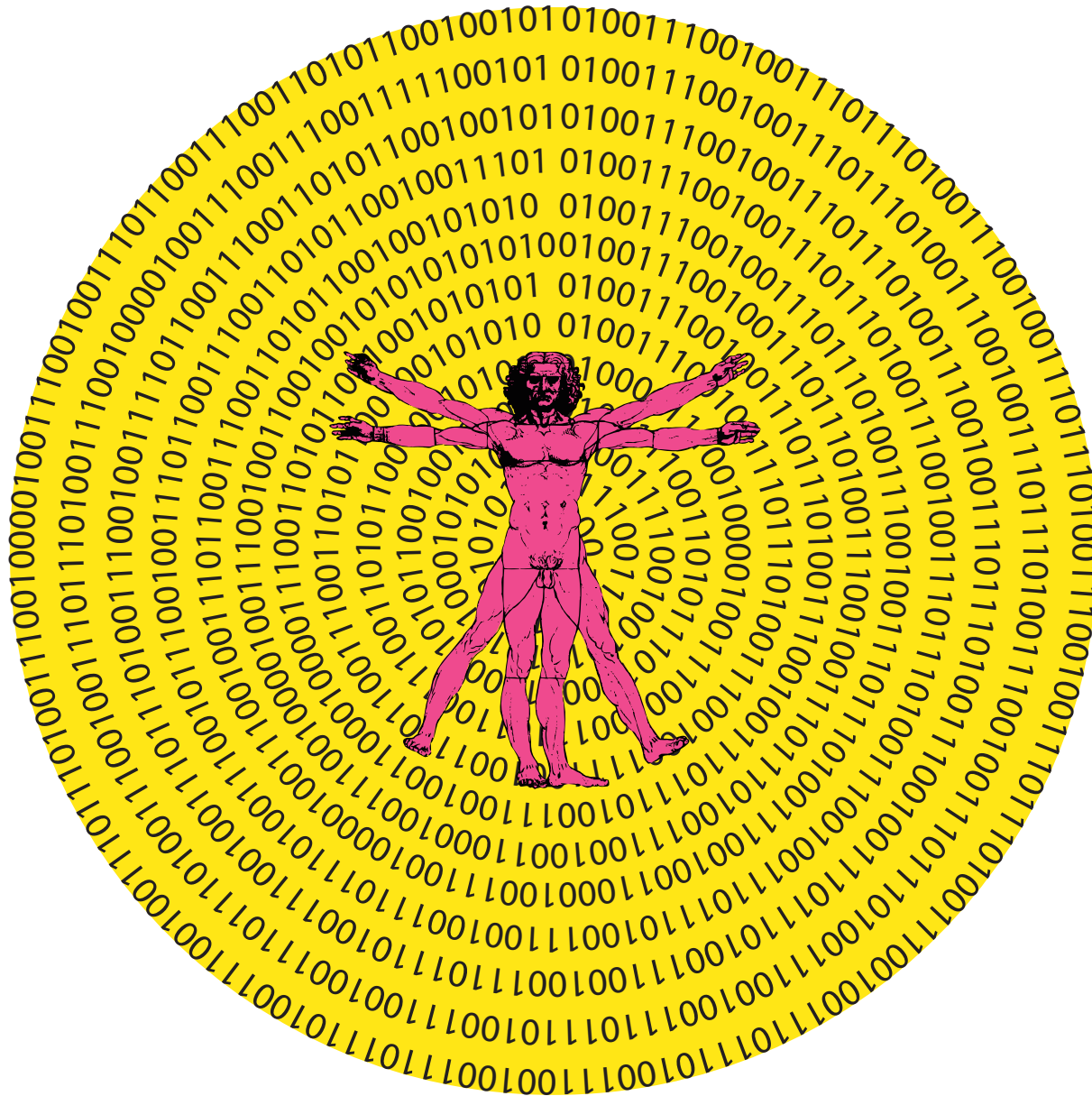
# Design paradigms: 3. The Vitruvio's man and the impact of industrial productions



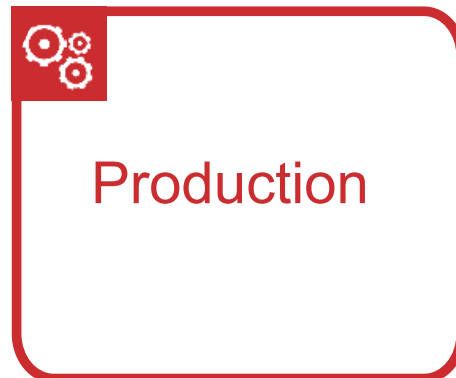
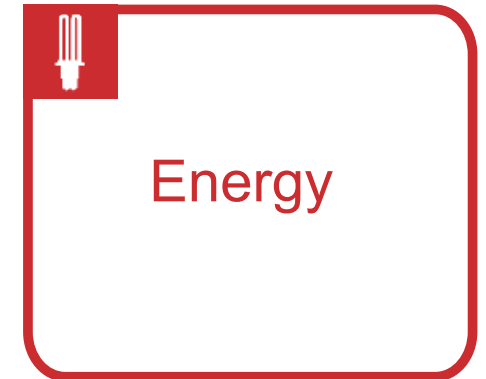
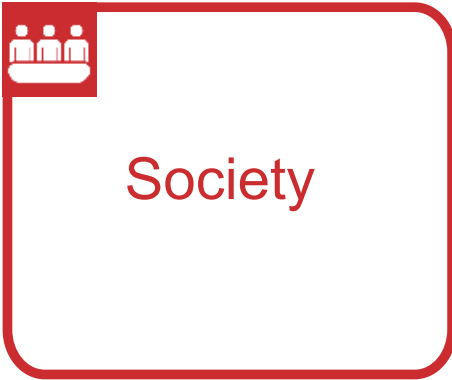
# Design paradigms: 4. The neuronal man



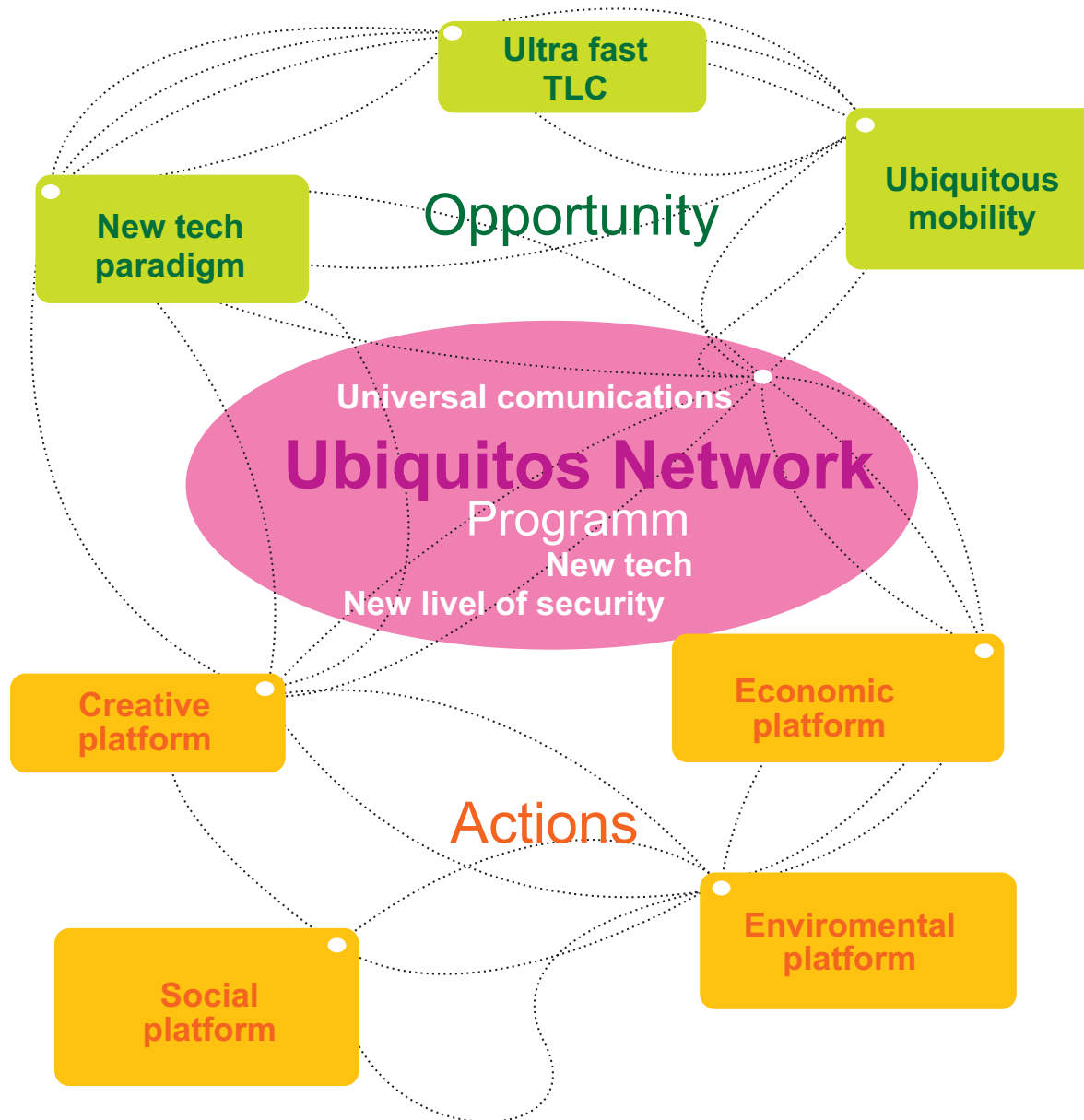
# Design paradigms: 5. The new Vitruvio's man



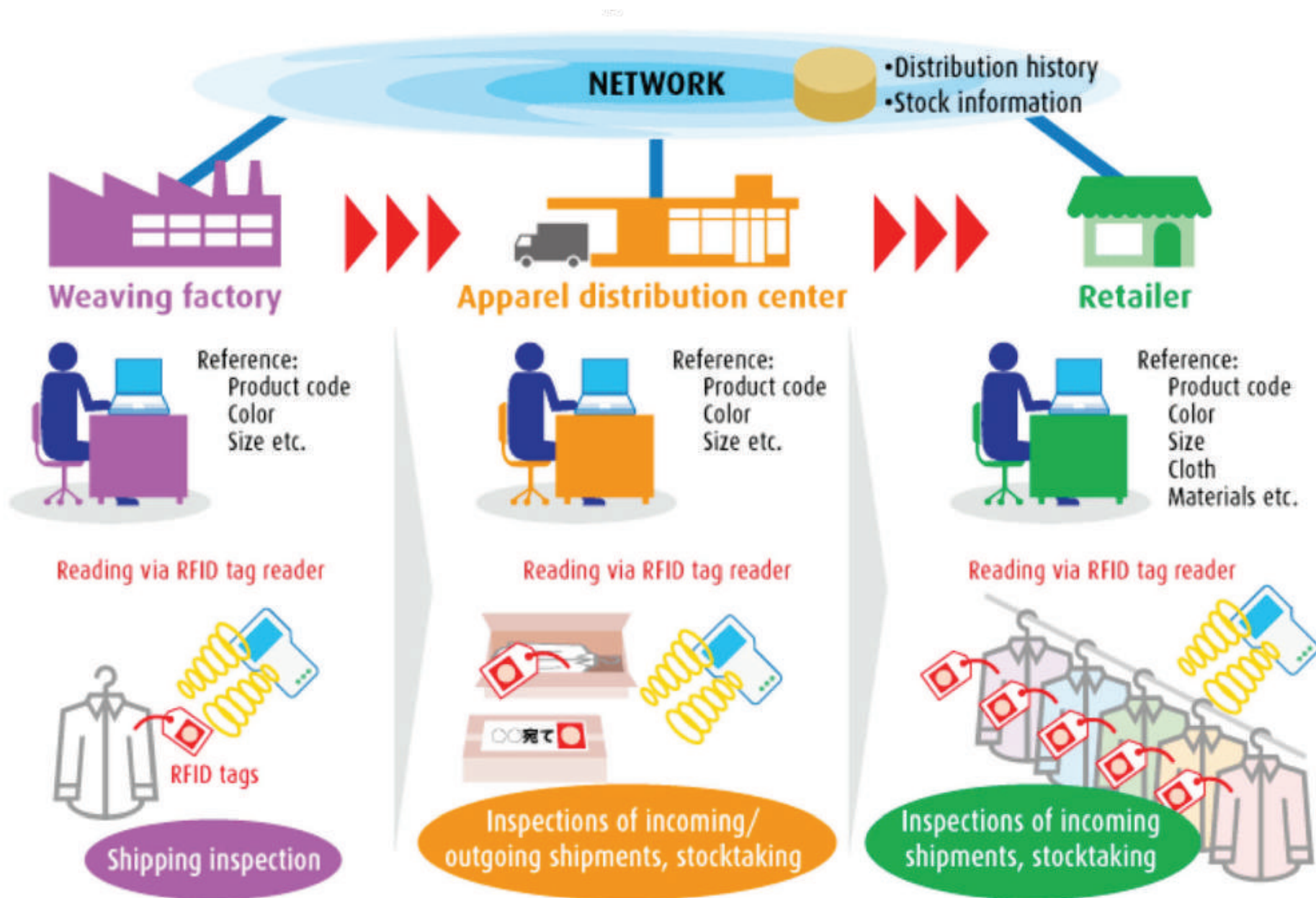
# New synergies with all stakeholders



# From functions to platforms



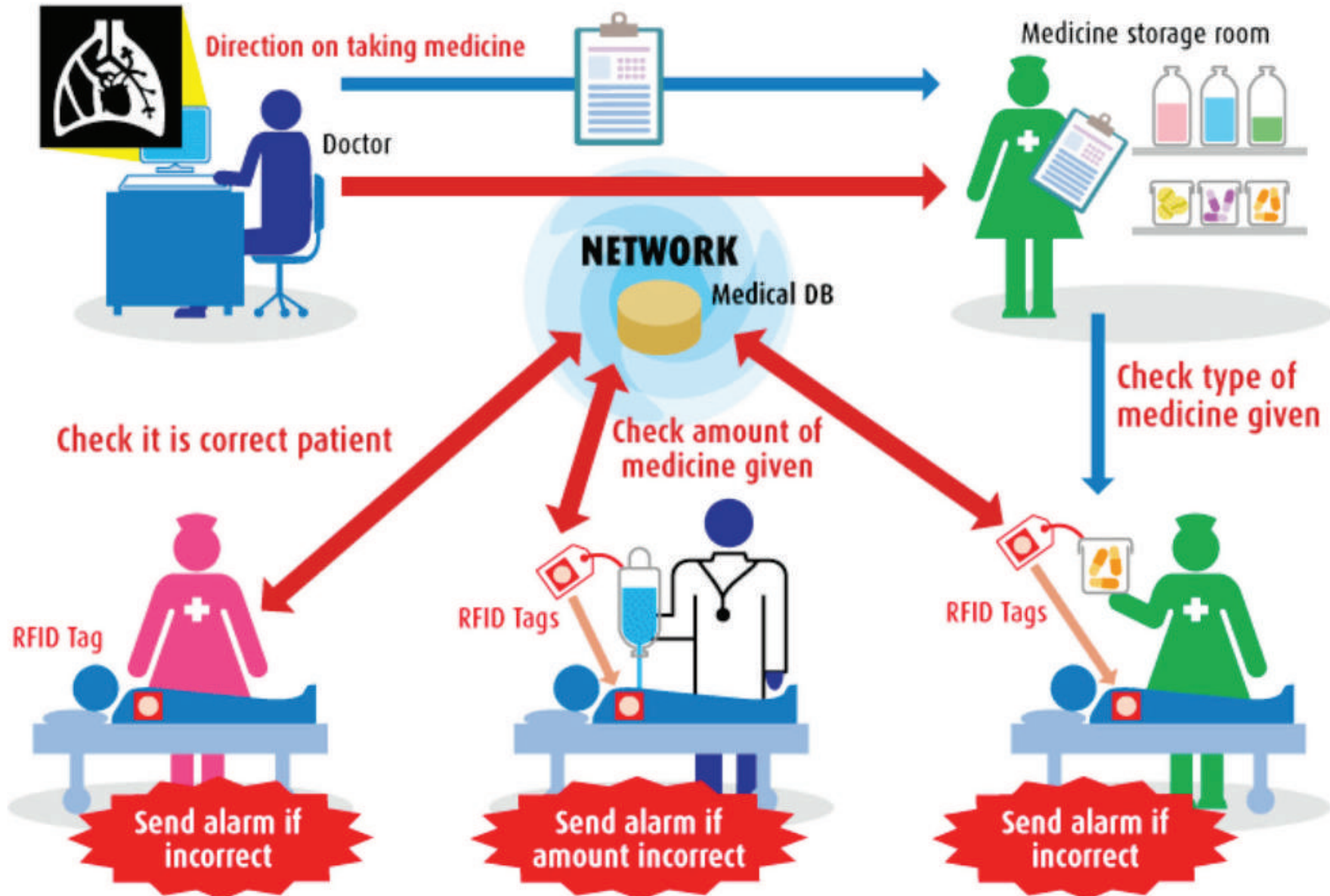
# Production platform



# Urban facilities platform

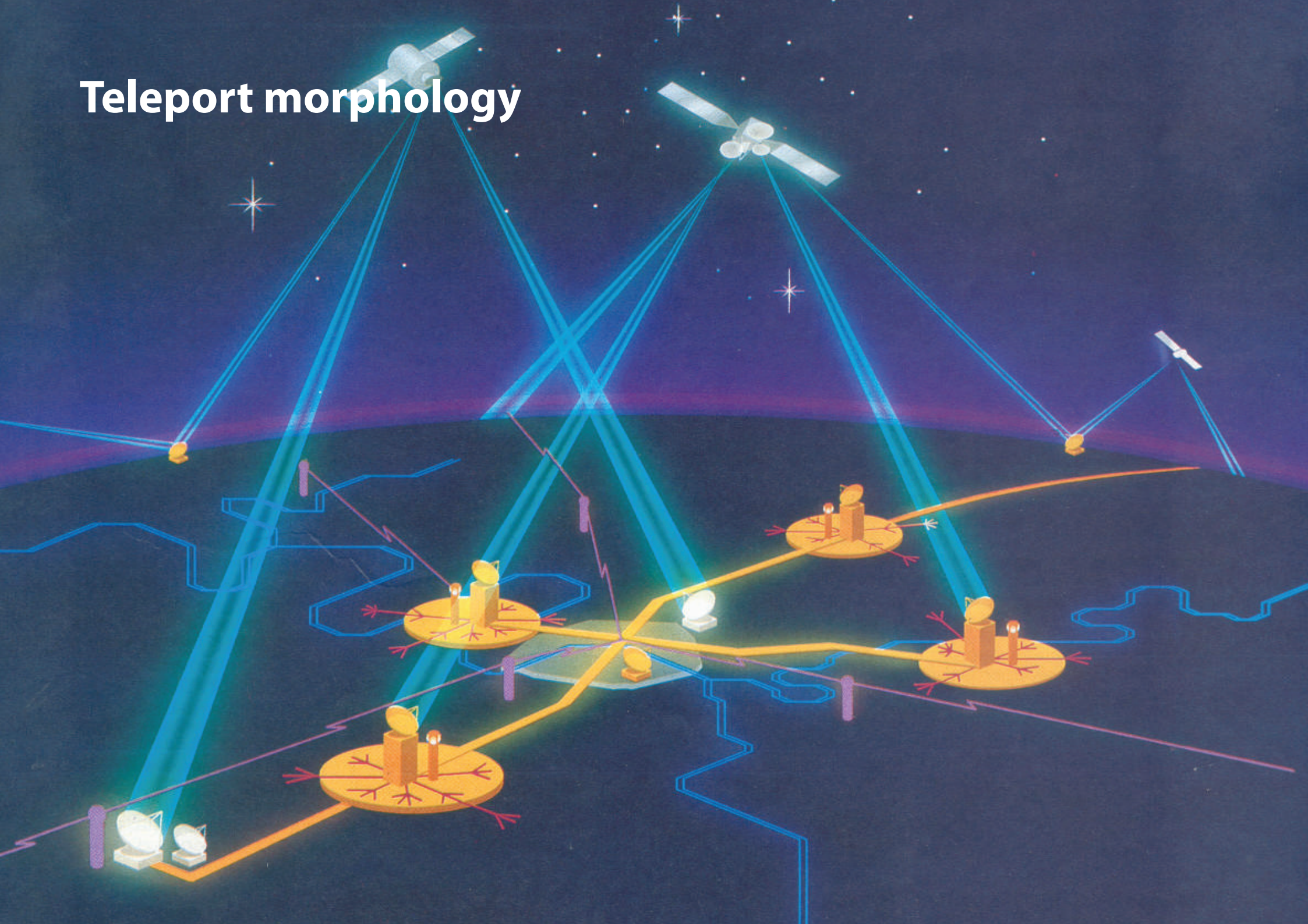


# Health platform

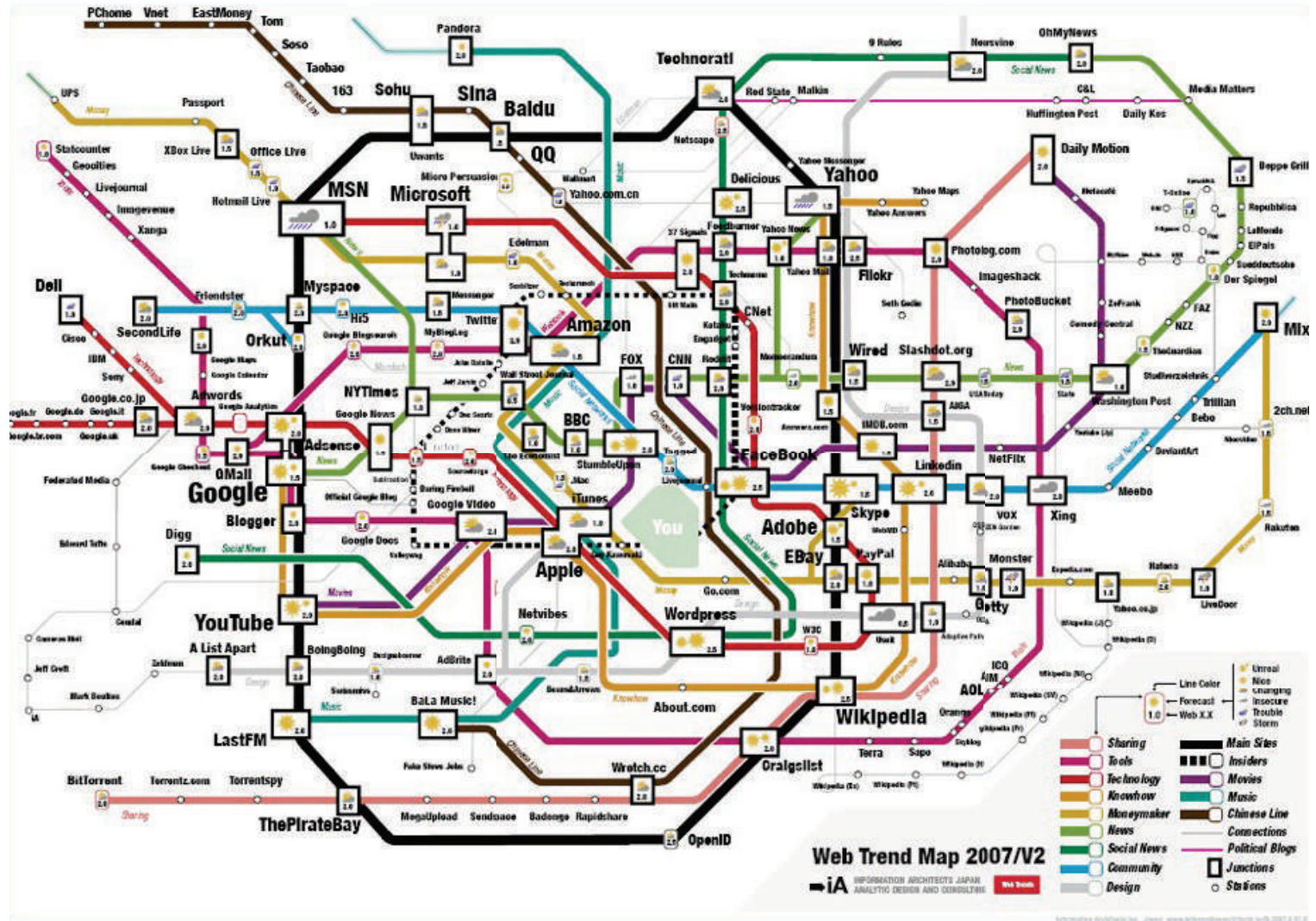




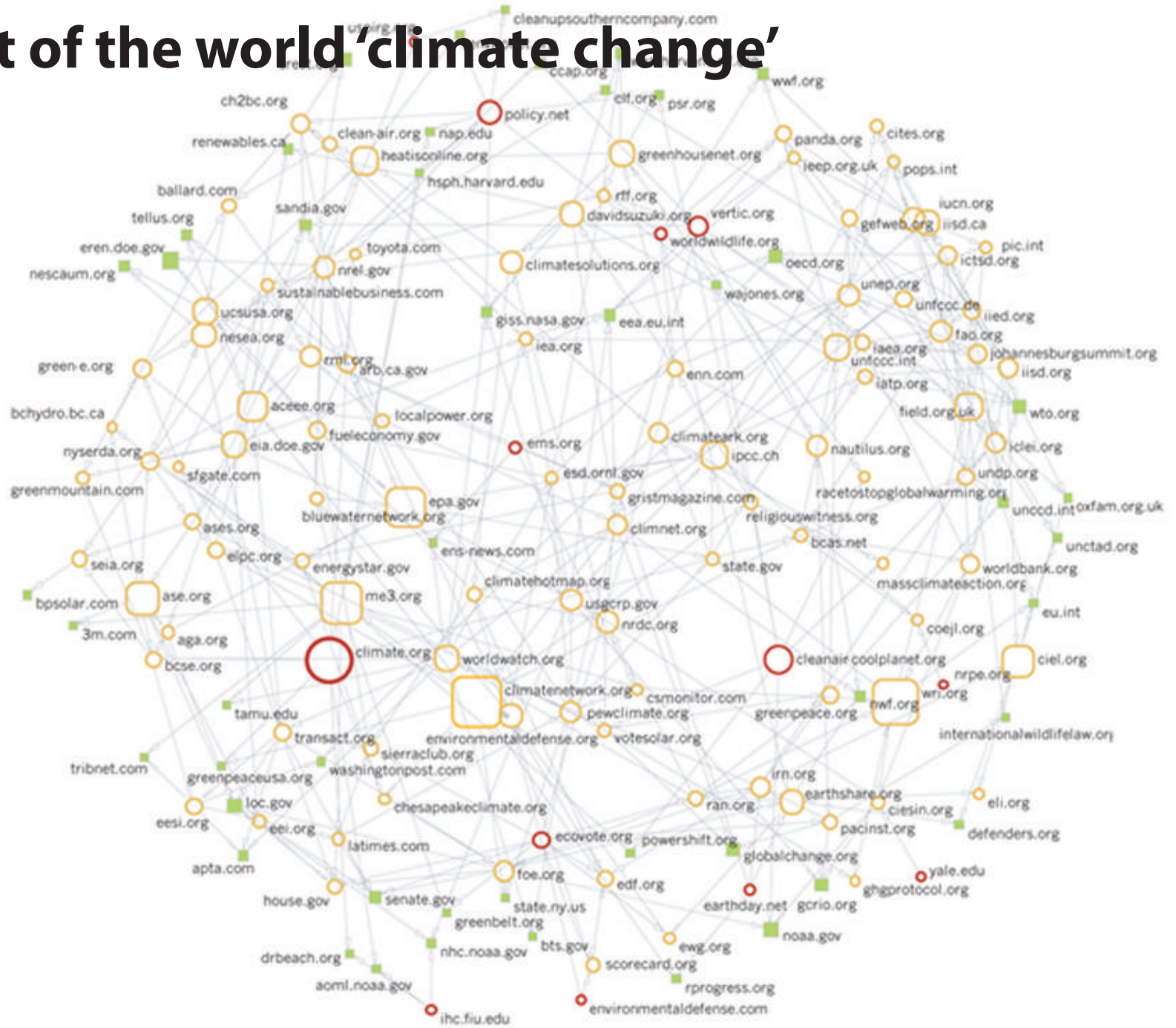
# Teleport morphology



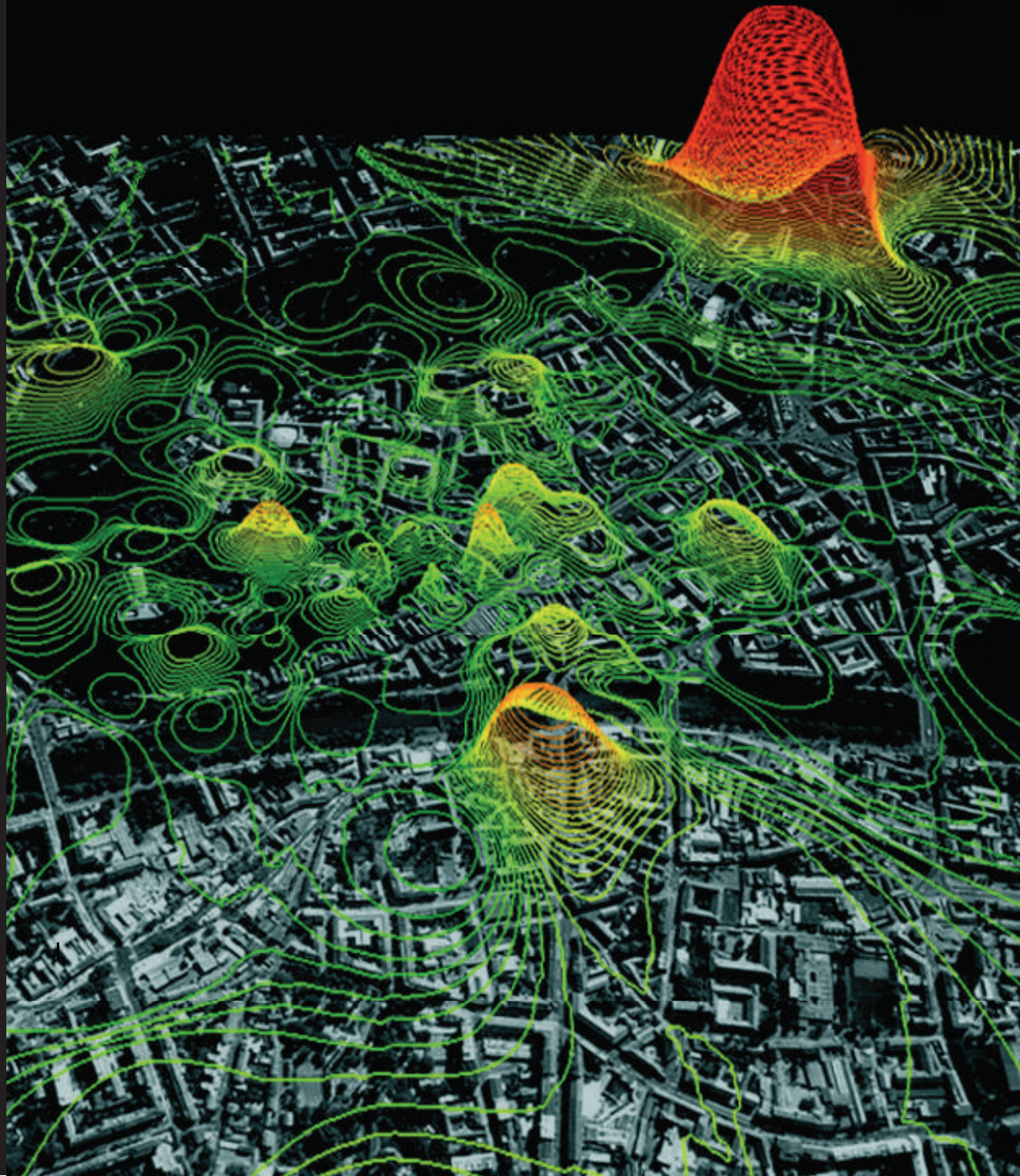
# Physical transport net and web nodes



# The net of the world 'climate change'

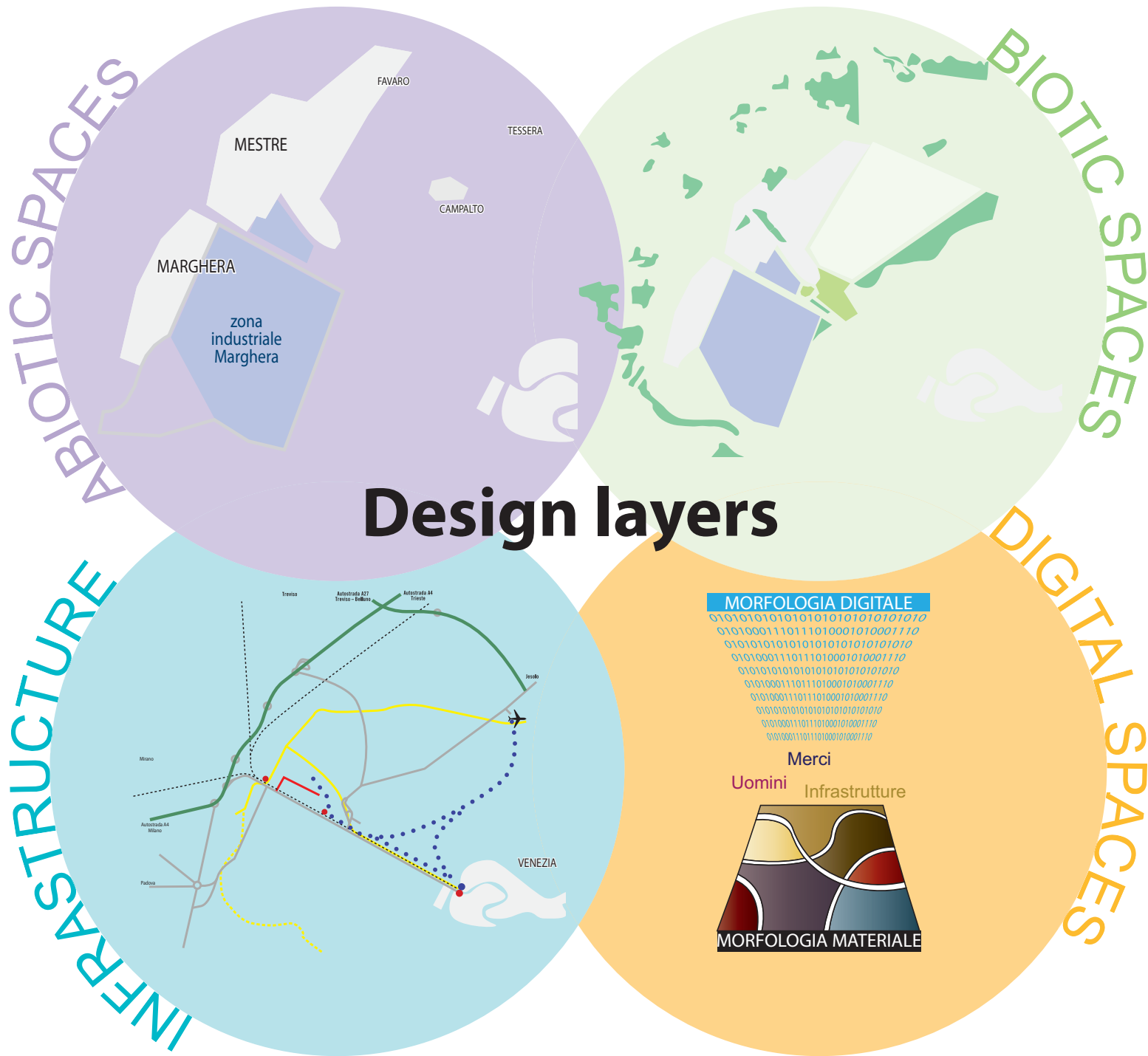


# The bubble



# The cloud and the map

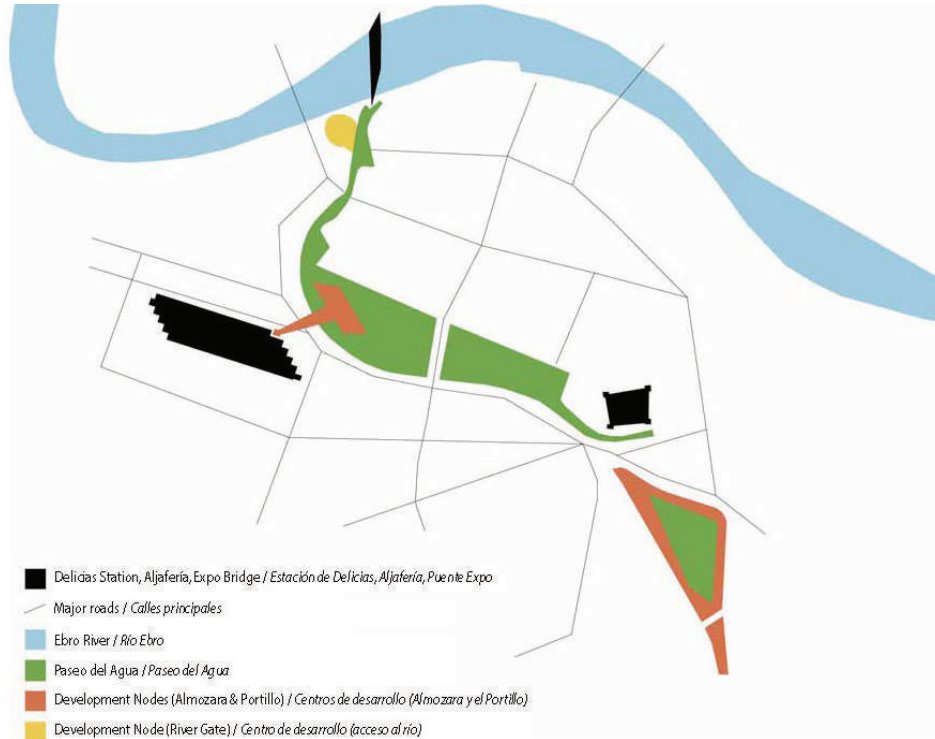




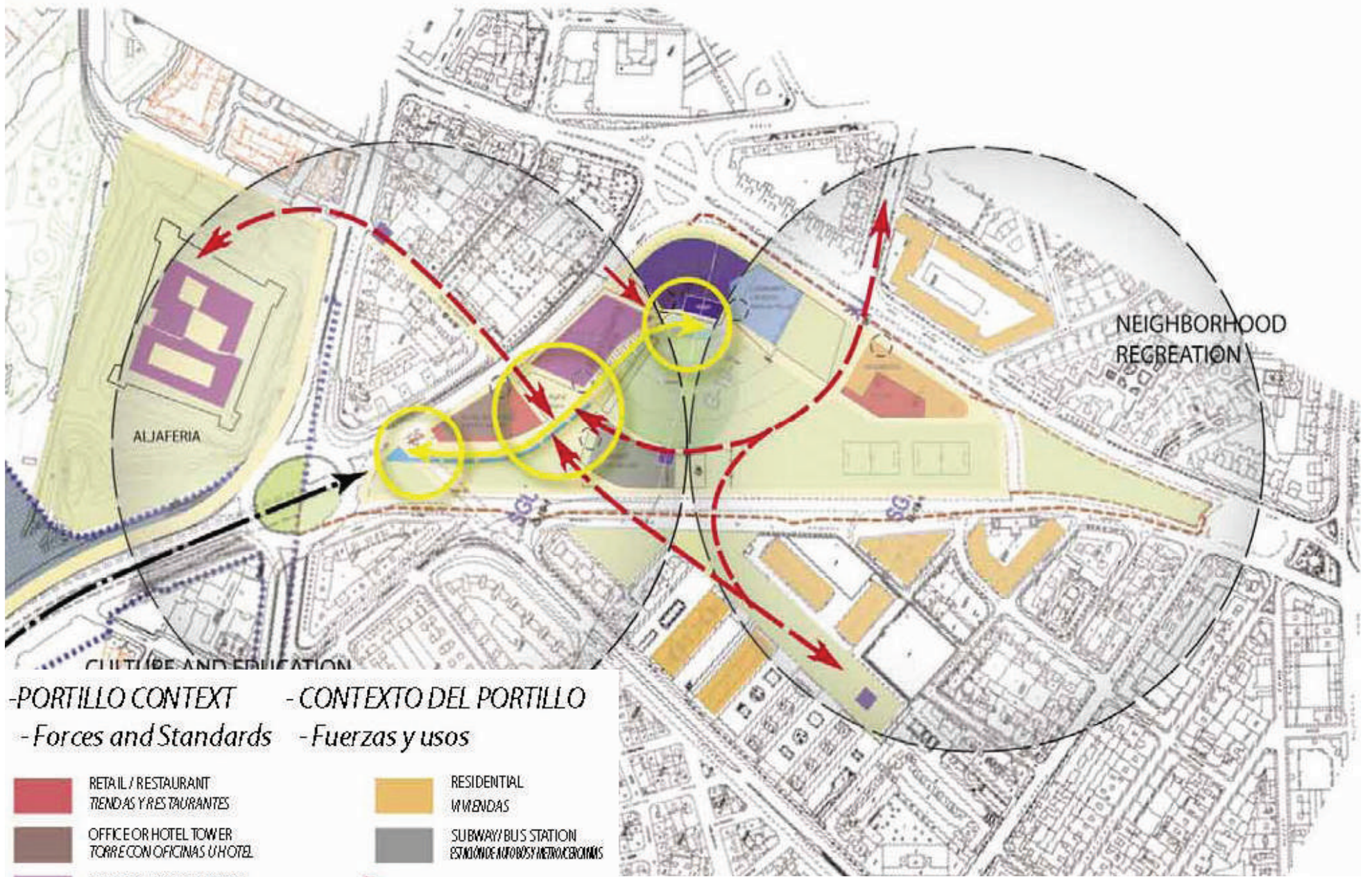
# U-city experiences












# Saragoza digital milla



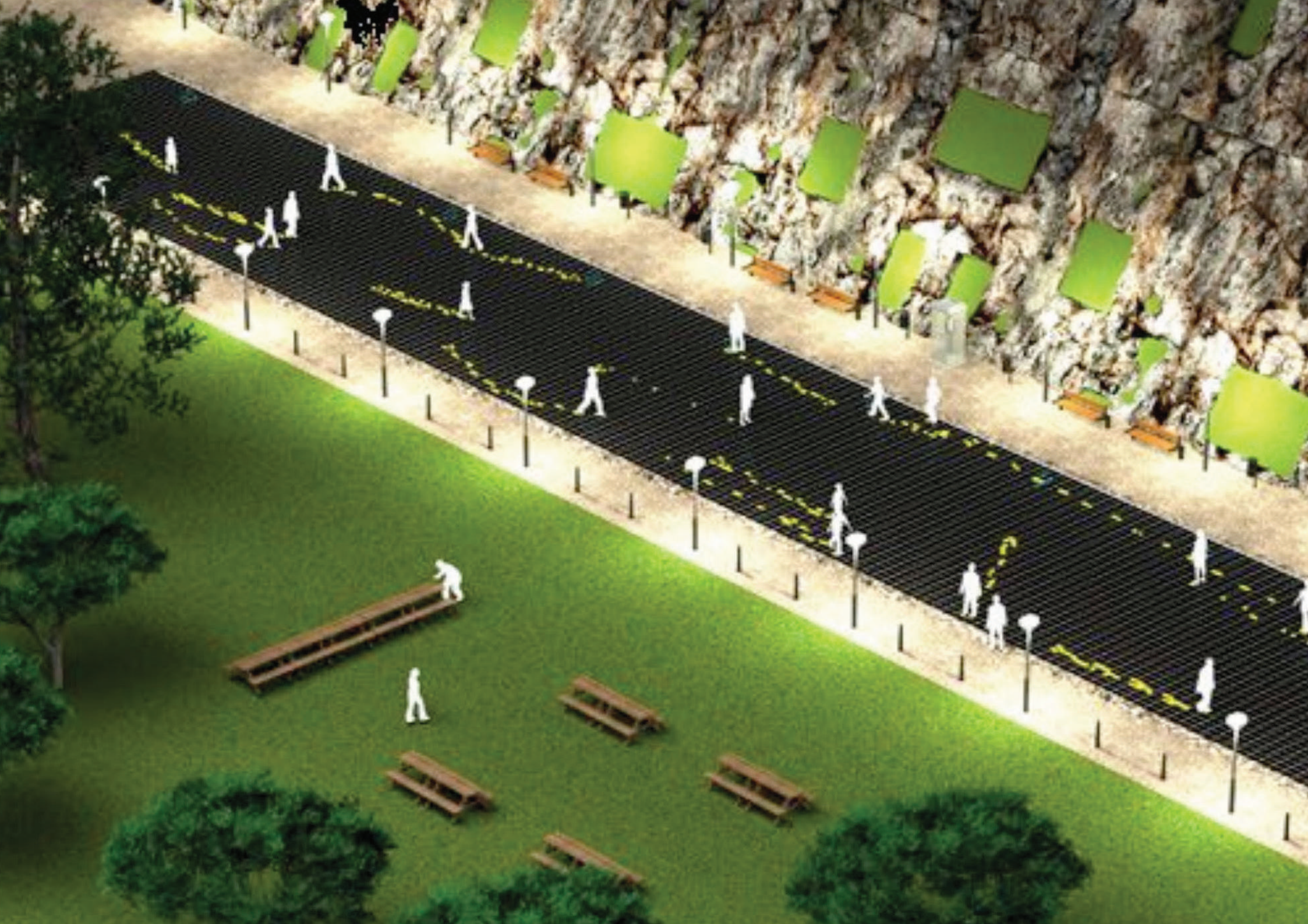


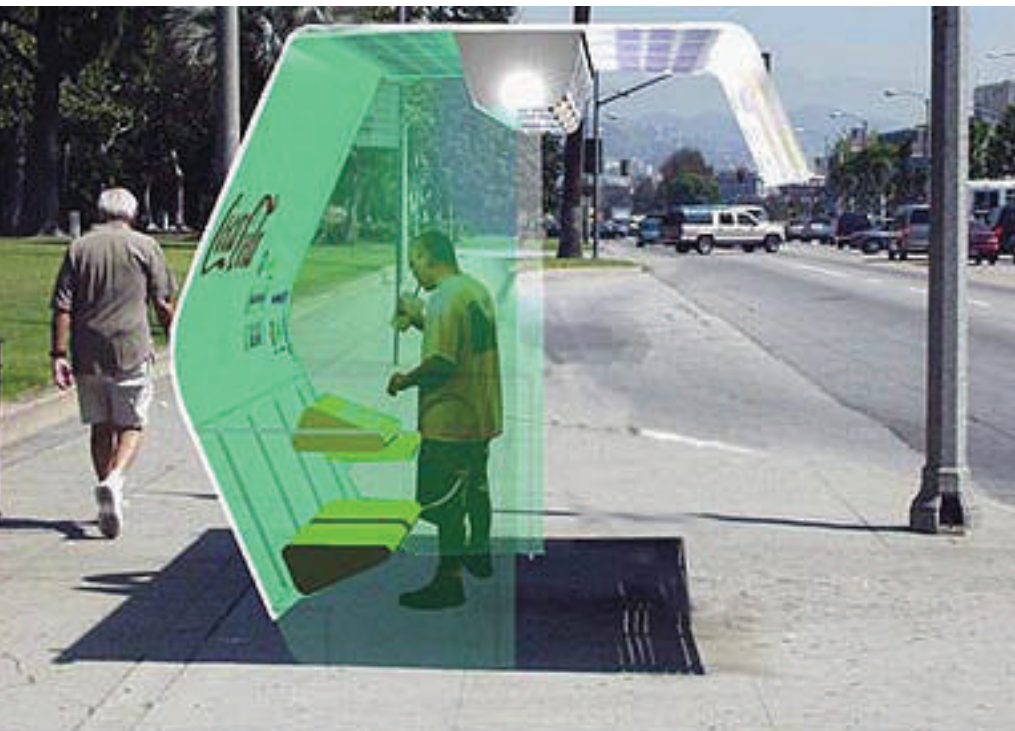


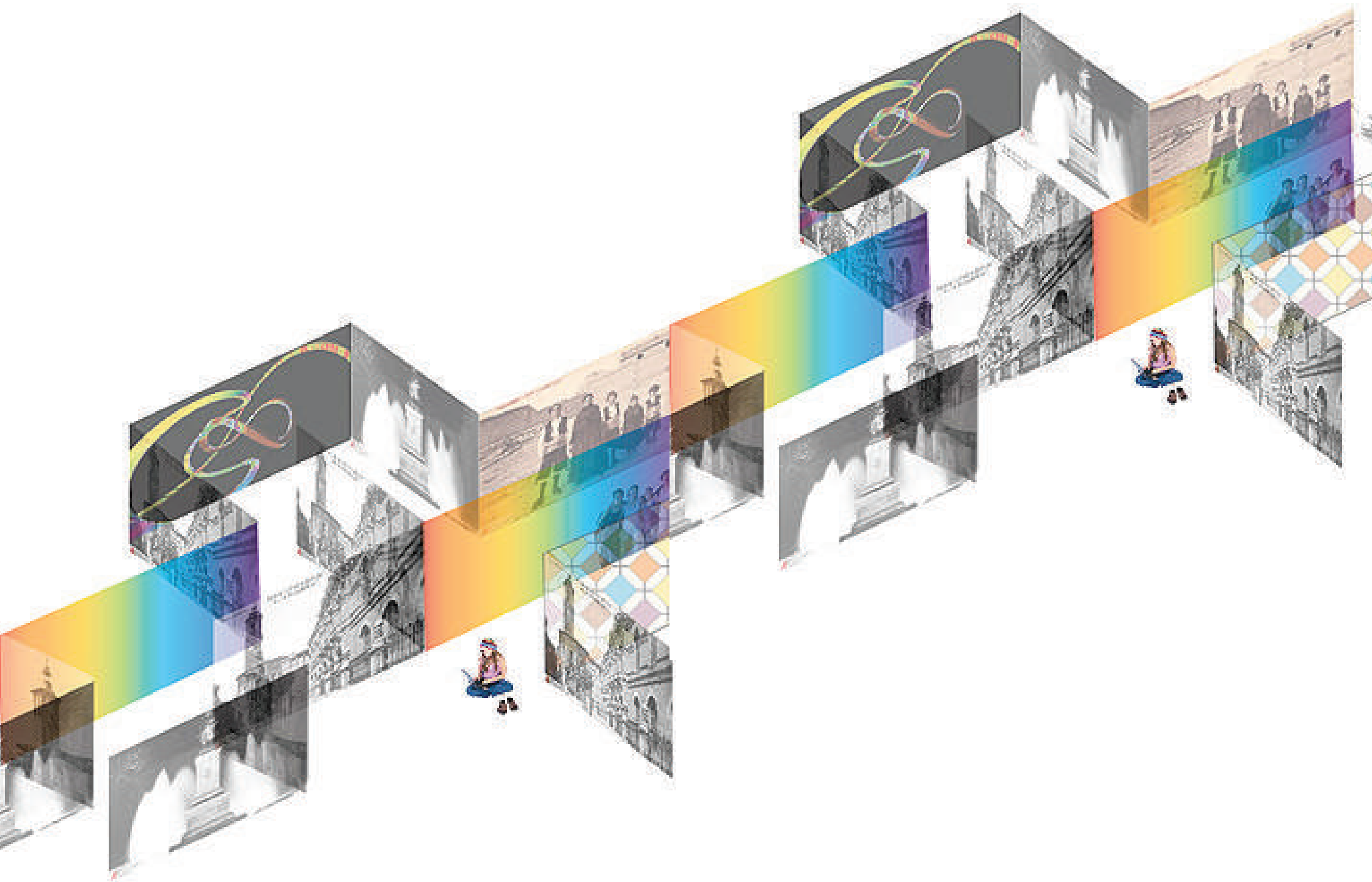
-PORTILLO CONTEXT      - CONTEXTO DEL PORTILLO  
 -Forces and Standards      -Fuerzas y usos

- |   |  |   |   |
|---|--|---|---|
|  | RETAIL / RESTAURANT<br>TIENDAS Y RESTAURANTES                              |  | RESIDENTIAL<br>VIVIENDAS  |
|  | OFFICE OR HOTEL TOWER<br>TORRE CON OFICINAS U HOTEL                        |  | SUBWAY / BUS STATION<br>ESTACION DE AUTOBOS Y METRO / BICICLIS      |
|  | CULTURAL SPACE / MUSEUM<br>ESPACIO CULTURAL / MUSEO                        |  | PEDESTRIAN LINKS<br>ENLACES PEATONALES                              |
|  | SPORTS / CONFERENCE / PERFORMANCE<br>DEPORTES / CONFERENCIAS / ACTUACIONES |  | DIGITAL PLACES<br>MEDIA ACTIVATES<br>LUGARES ACTIVADOS DIGITALMENTE |
|  | COMMUNITY CENTER<br>CENTRO CIVICO  |   |   |







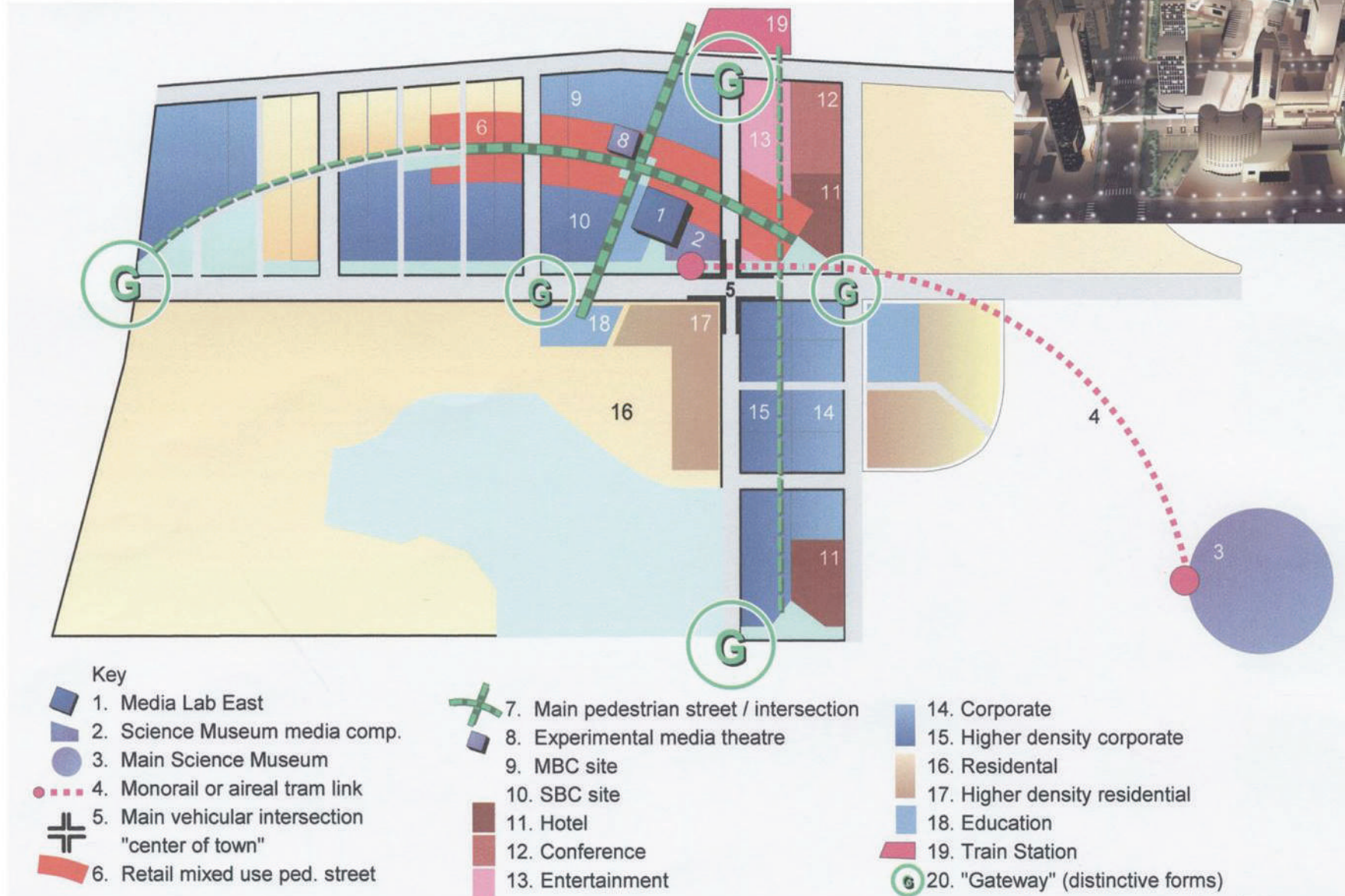


# U-Singapore

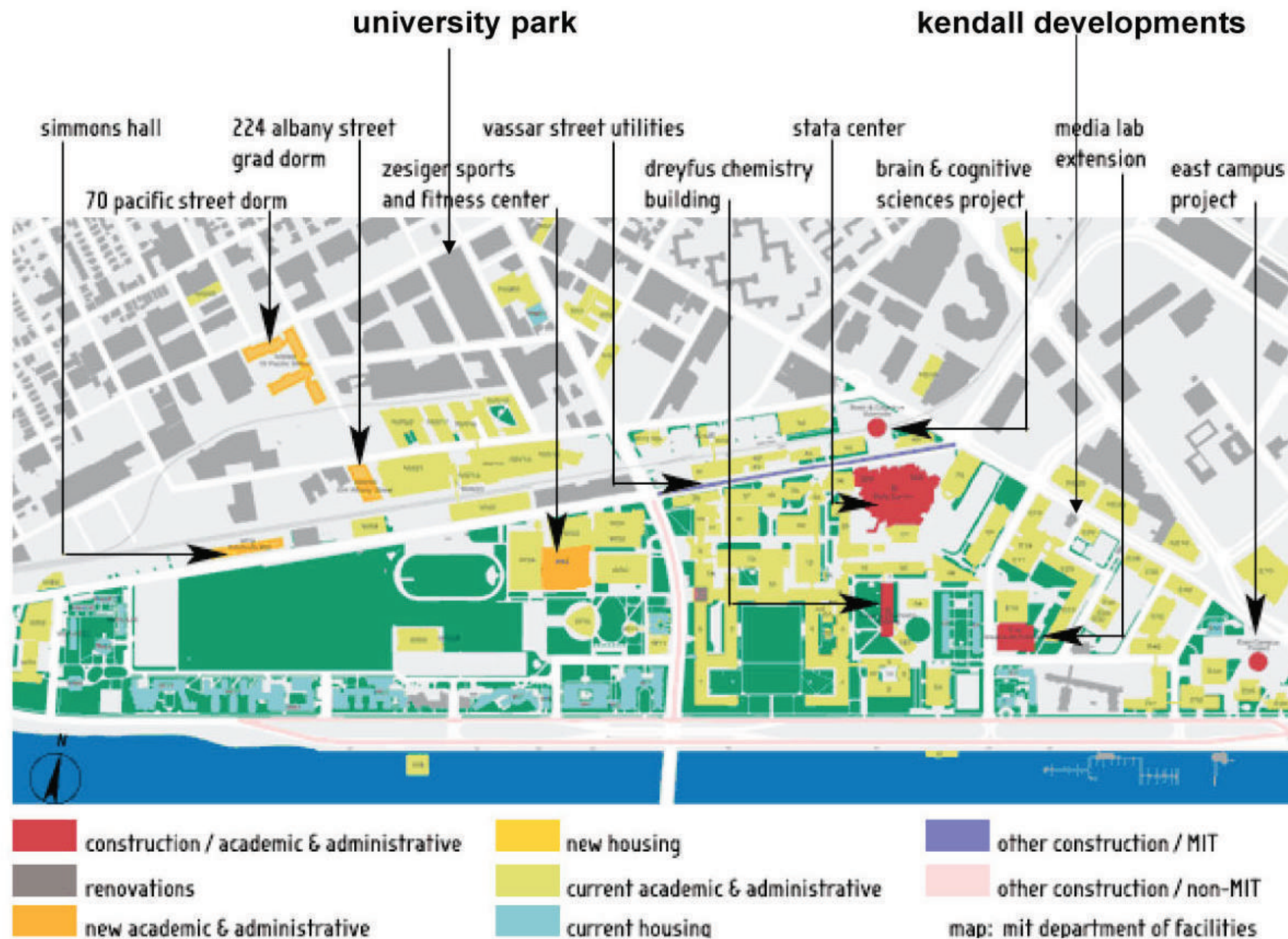


# U-Seoul

## Digital Media City, Masterplan



# MIT- S. Francisco

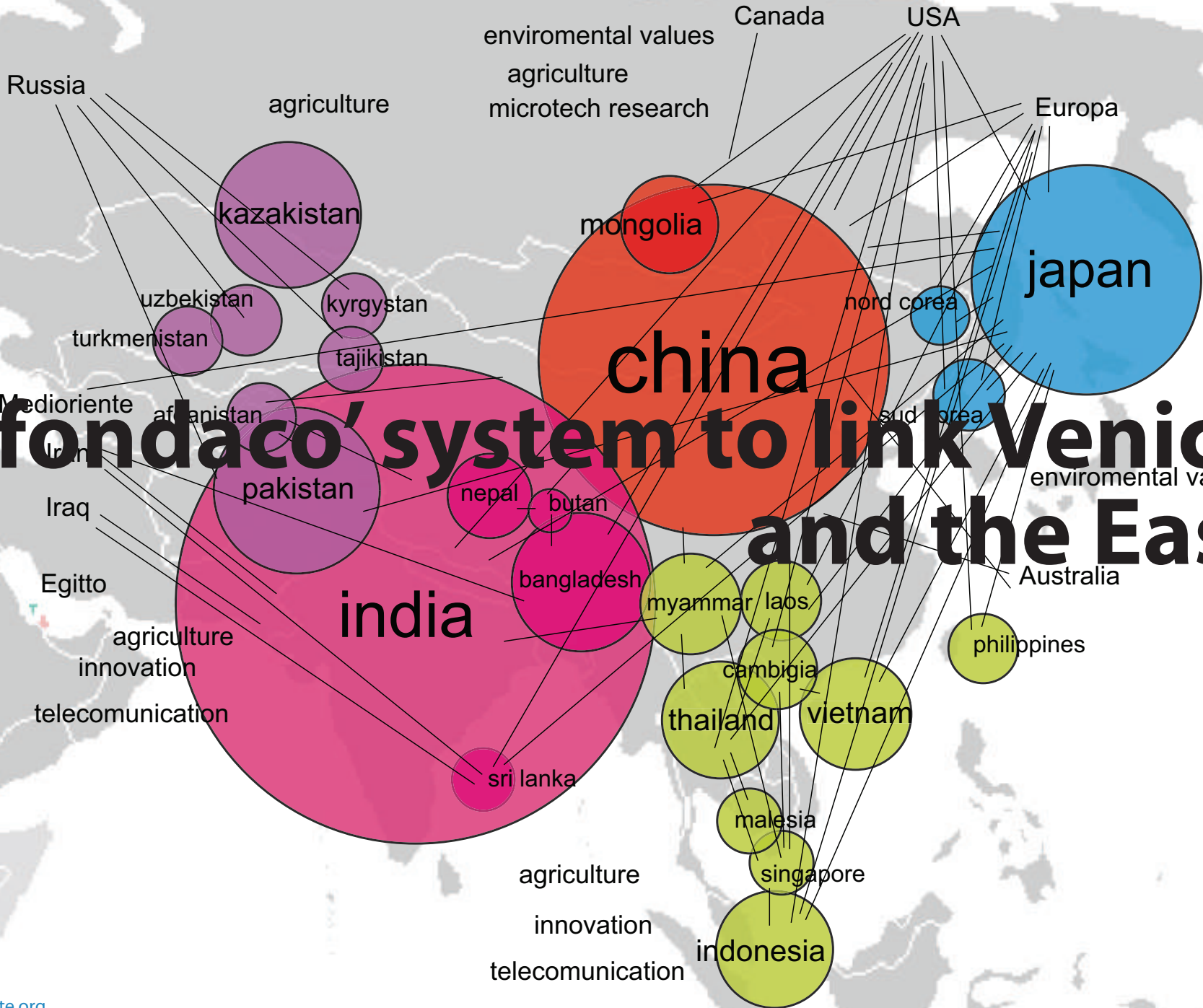




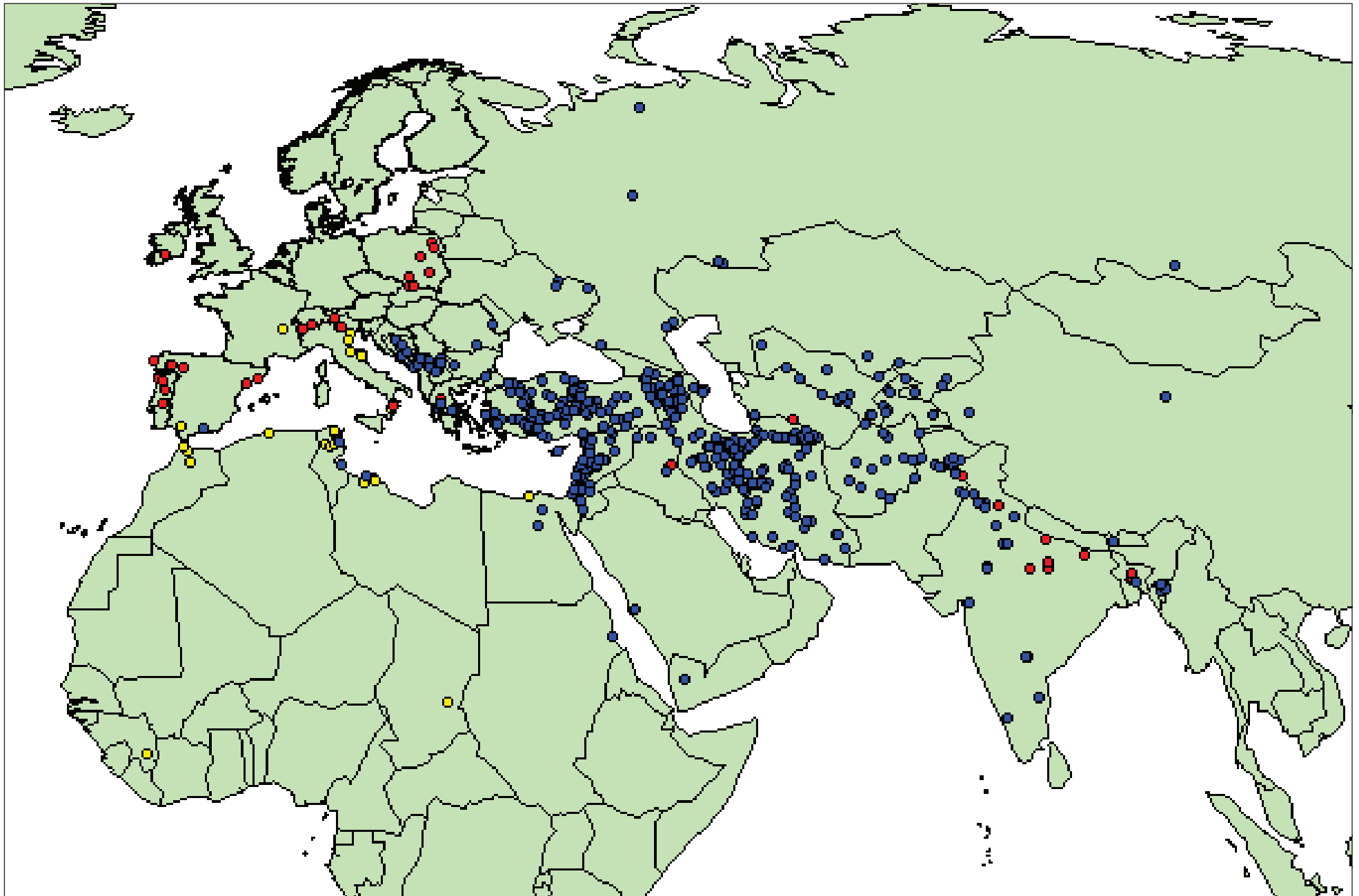
# Florianopolis



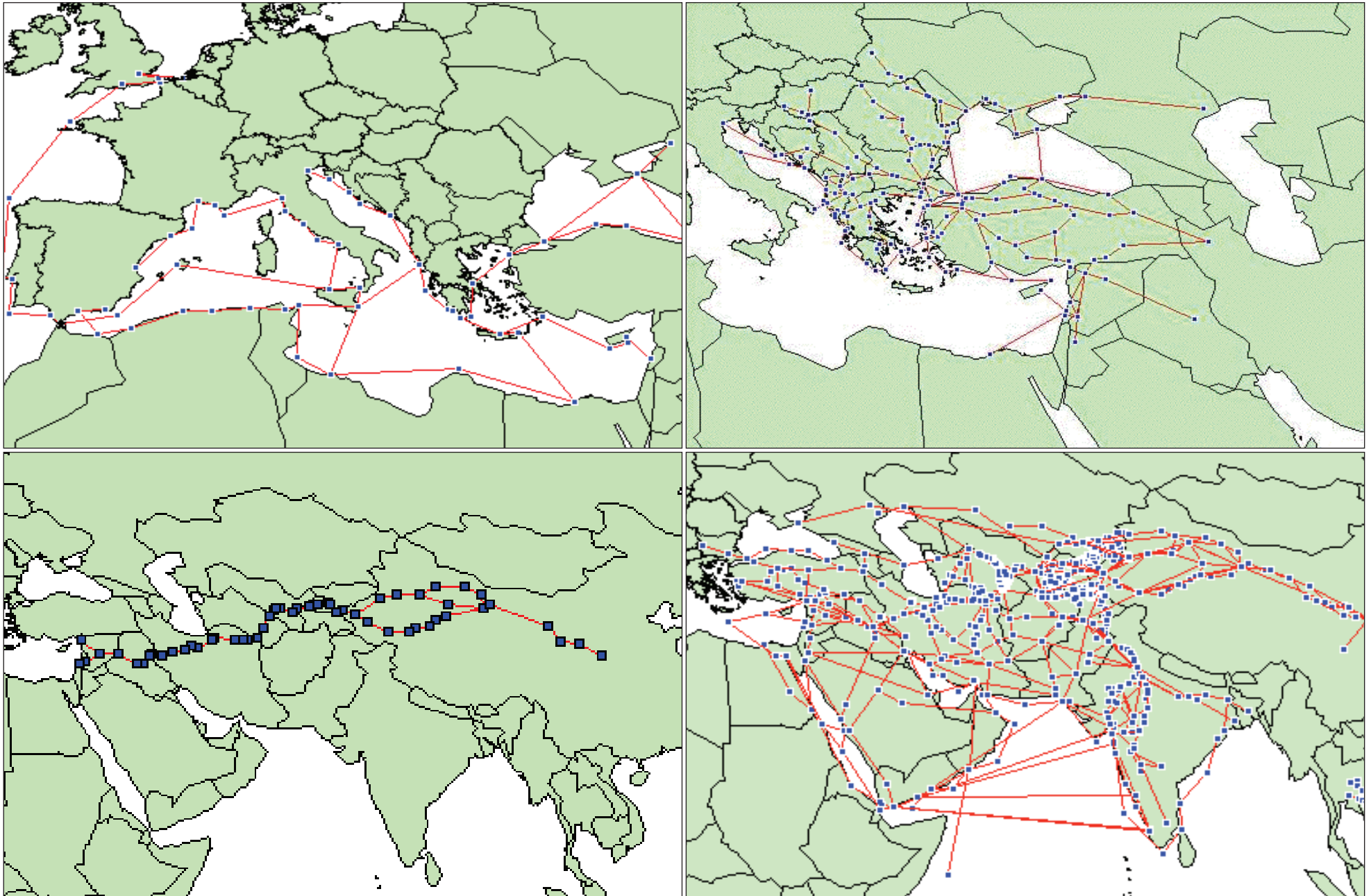
# A 'fondaco' system to link Venice and the East



# Historical processes and goals



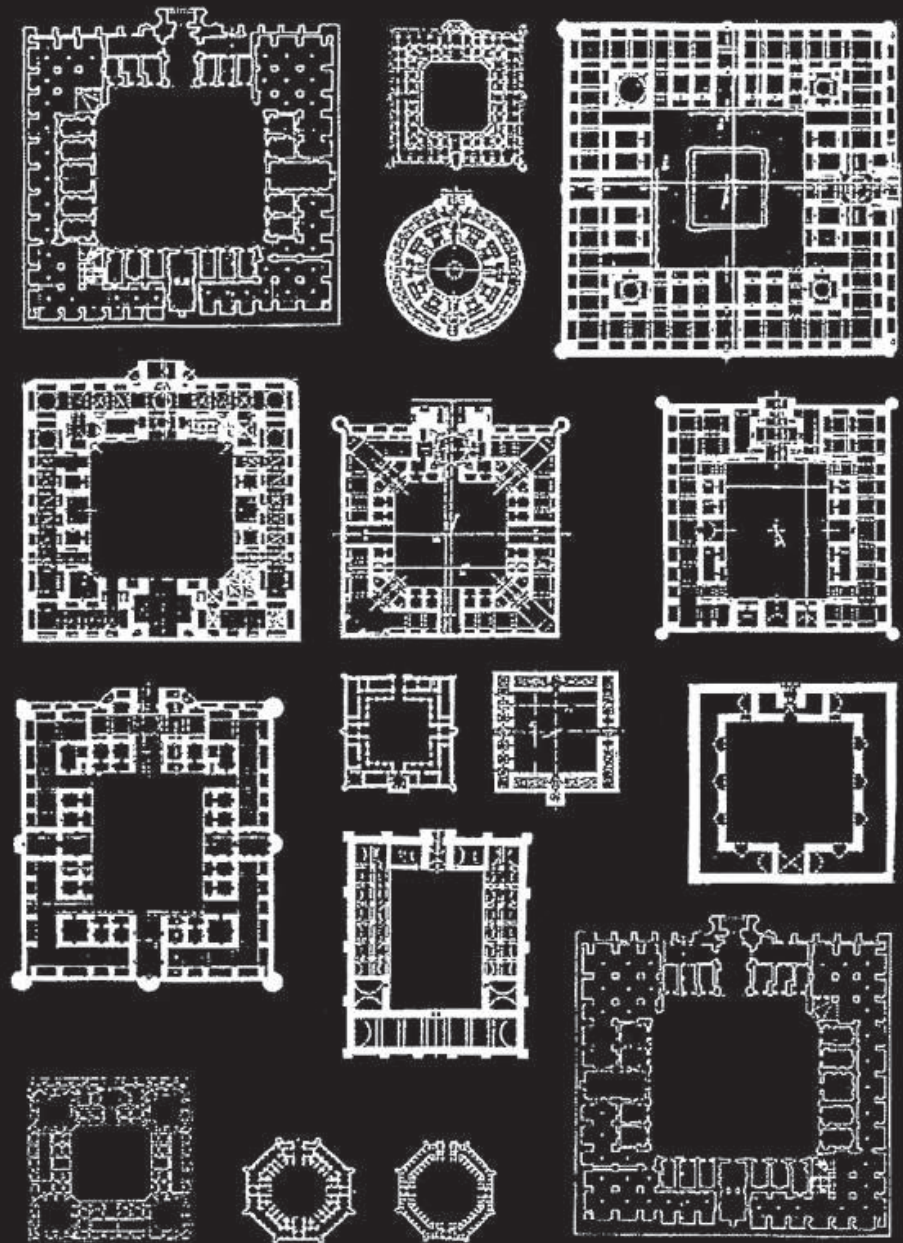
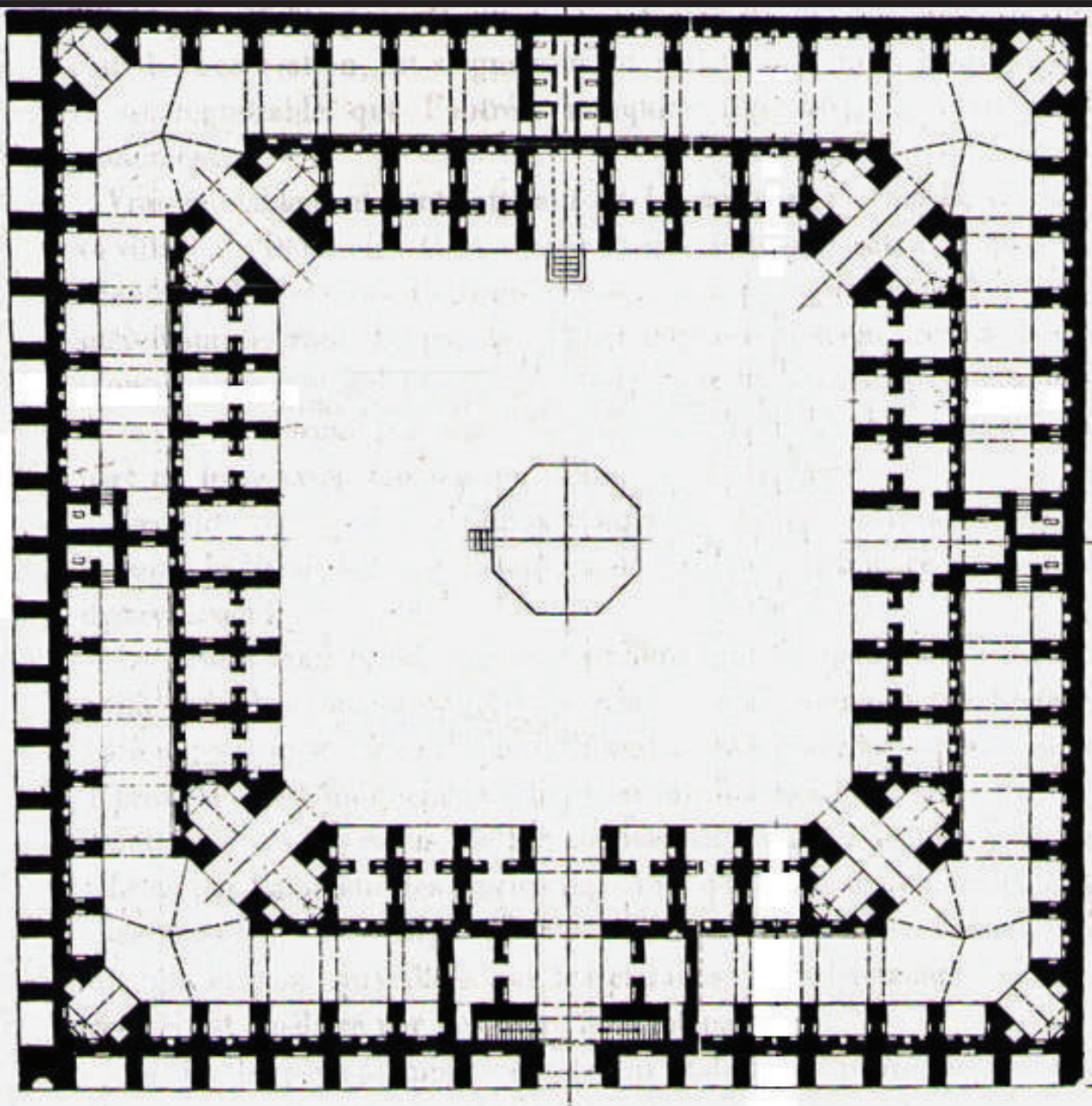
# 1500-1600: from Venice to East



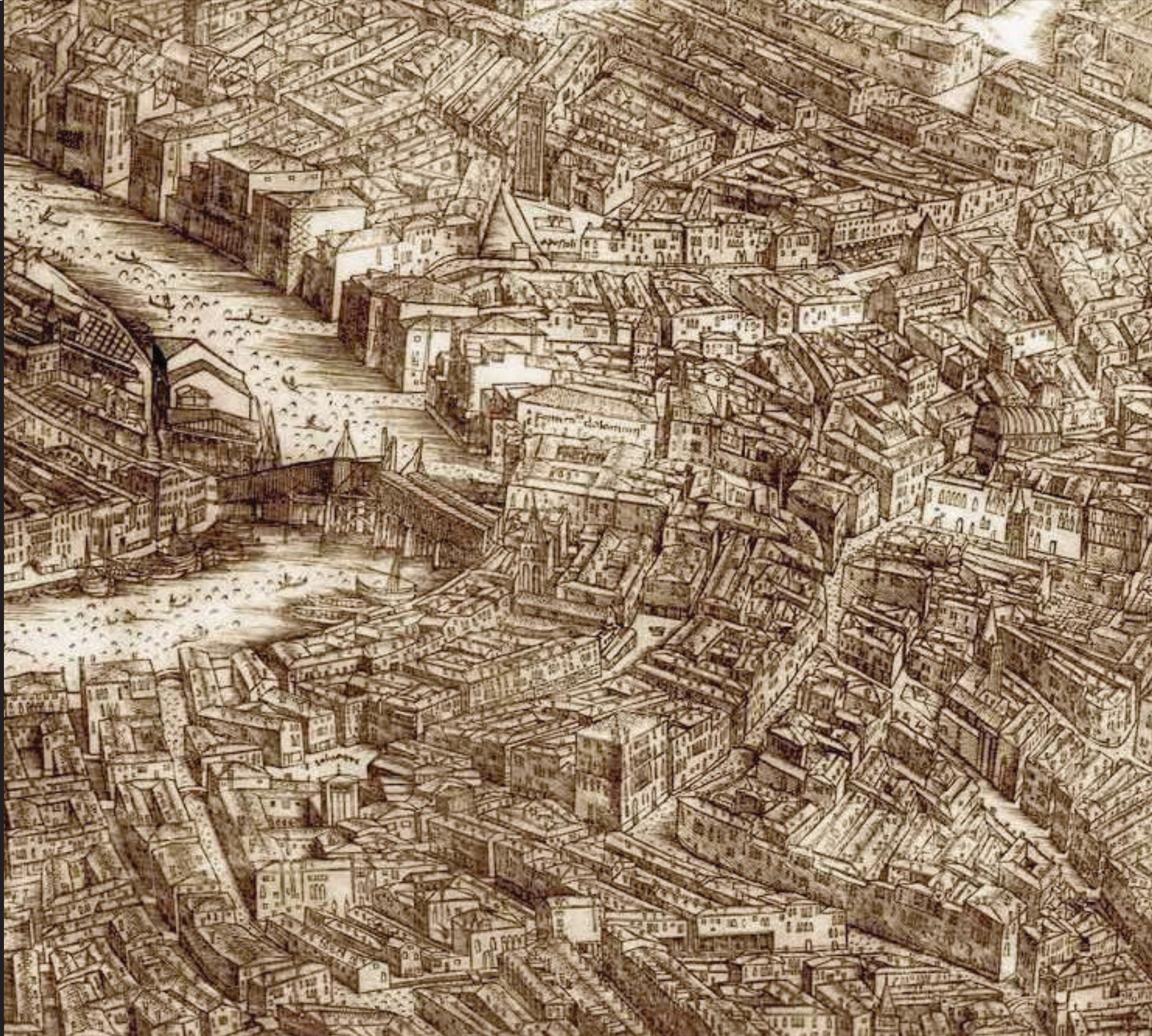
# The fondaco



# Fondaco plans



# Venice in 1500 de' Barbaris map



# Venice: fondaco dei Turchi





# Venice: fondaco dei Tedeschi



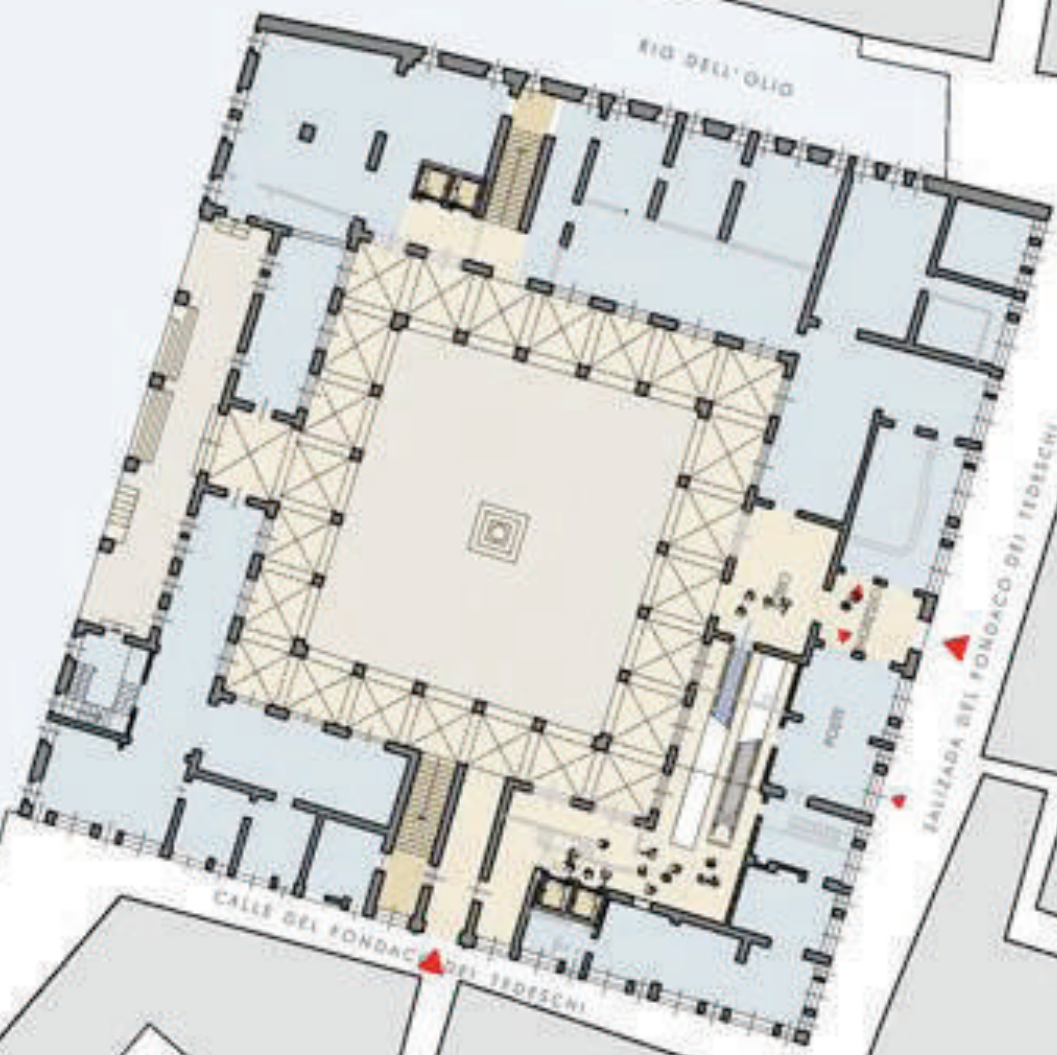
CANAL GRANDE

RIG DELL'OLIO

SARIZADA DEL FONDACO DEI TEDESCHI

CALLE DEL FONDACO DEI TEDESCHI

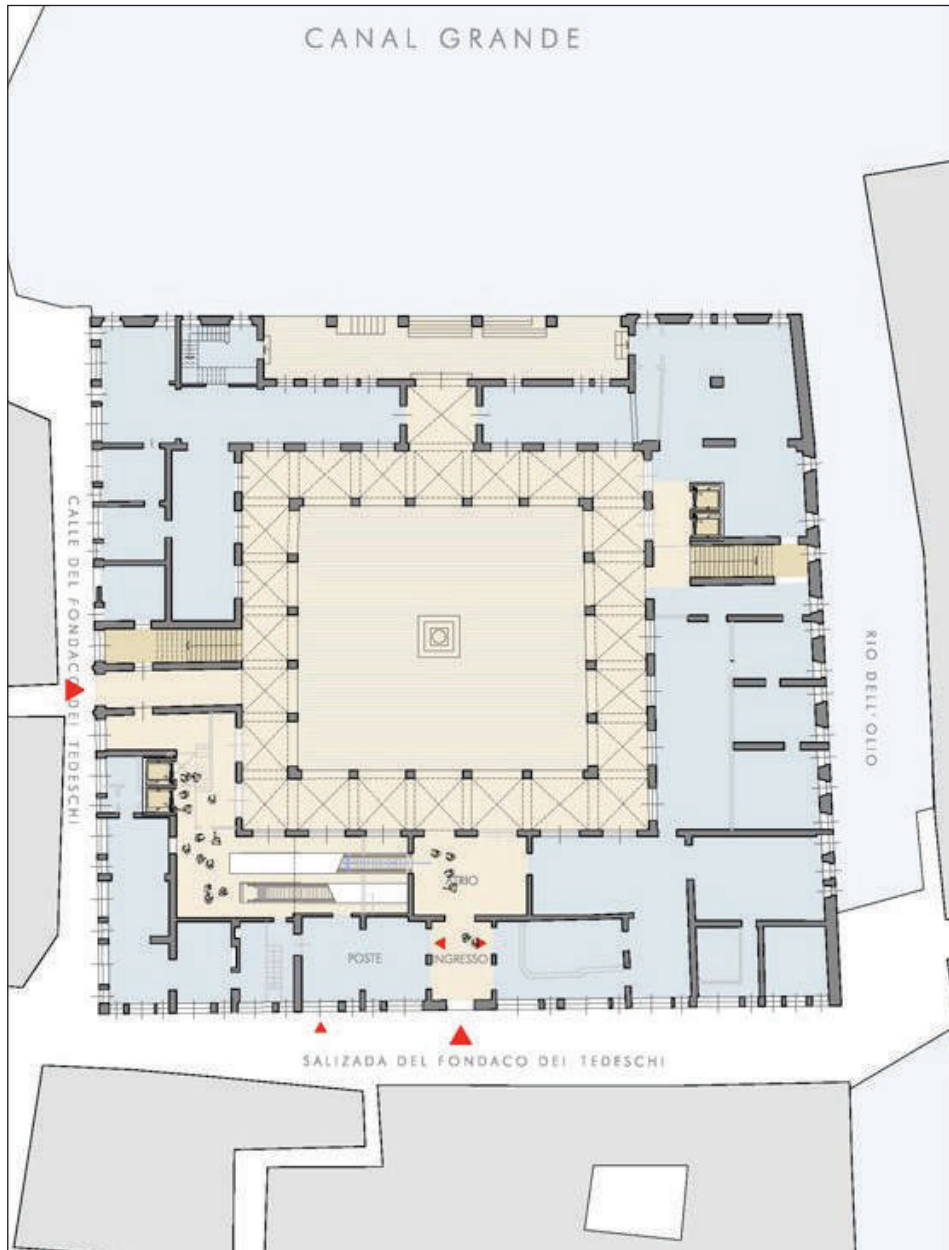
PALAZZO PINO TERRA



# Fondaco dei tedeschi: front on the Channel



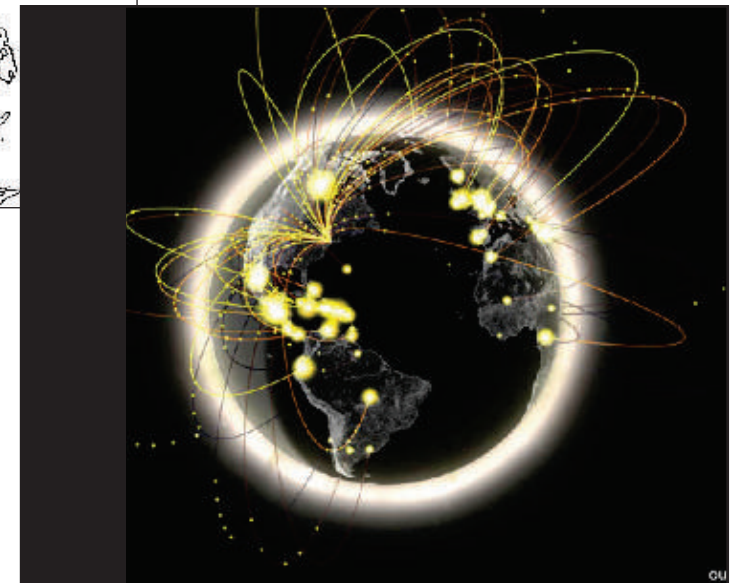
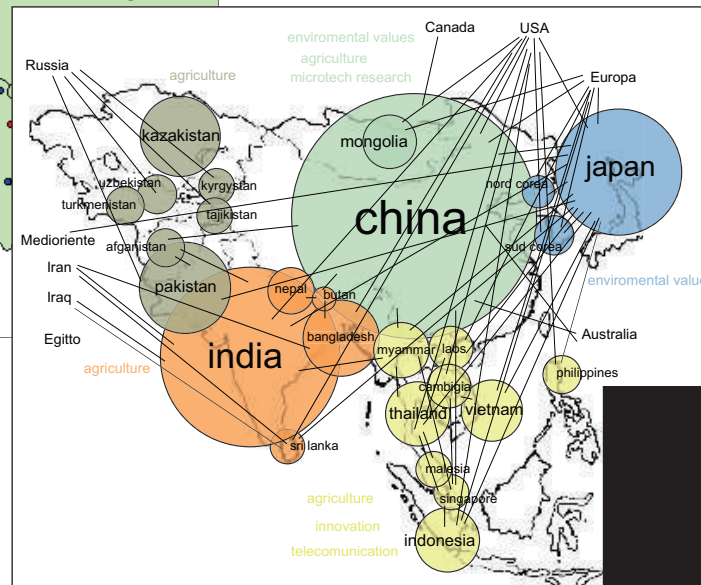
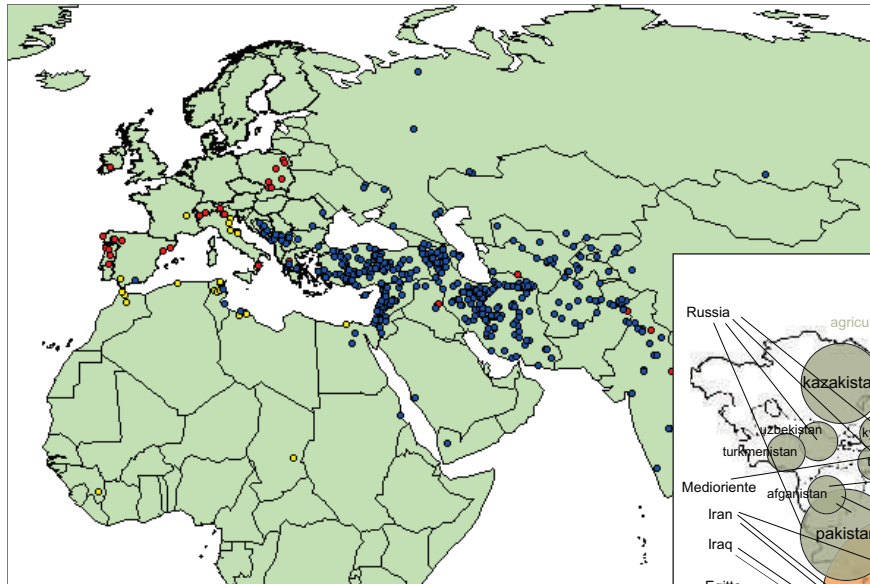
# Fondaco dei tedeschi: plans



**Fondaco dei tedeschi: interior**

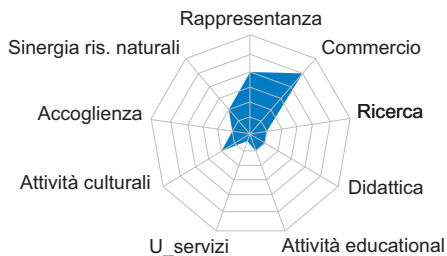
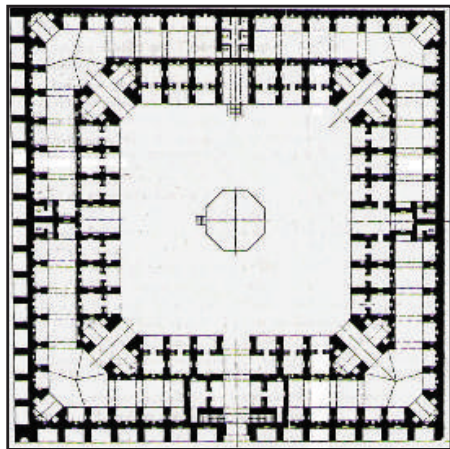


# To renewal fondaco idea: elements



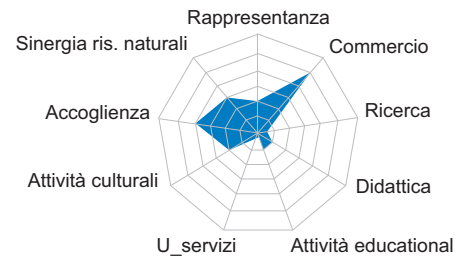
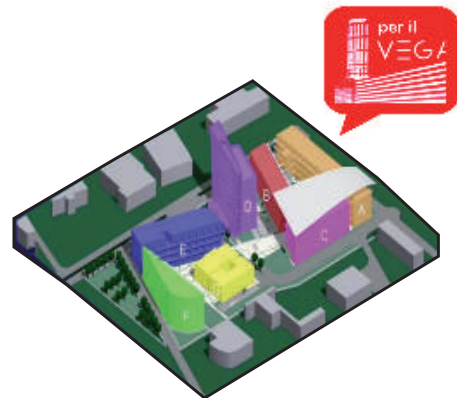
# Fondaco typologies today

## The fondaco



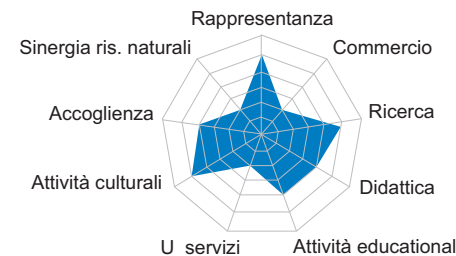
Atoms Coesion

## The Tecnopolo (VEGA)



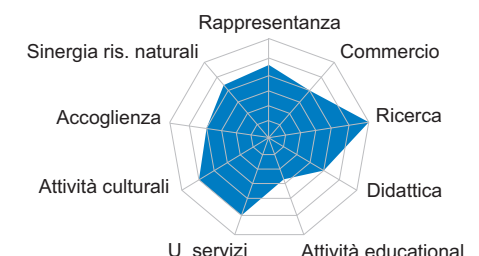
Aroms Bits Coesion

## The Benetton foundations



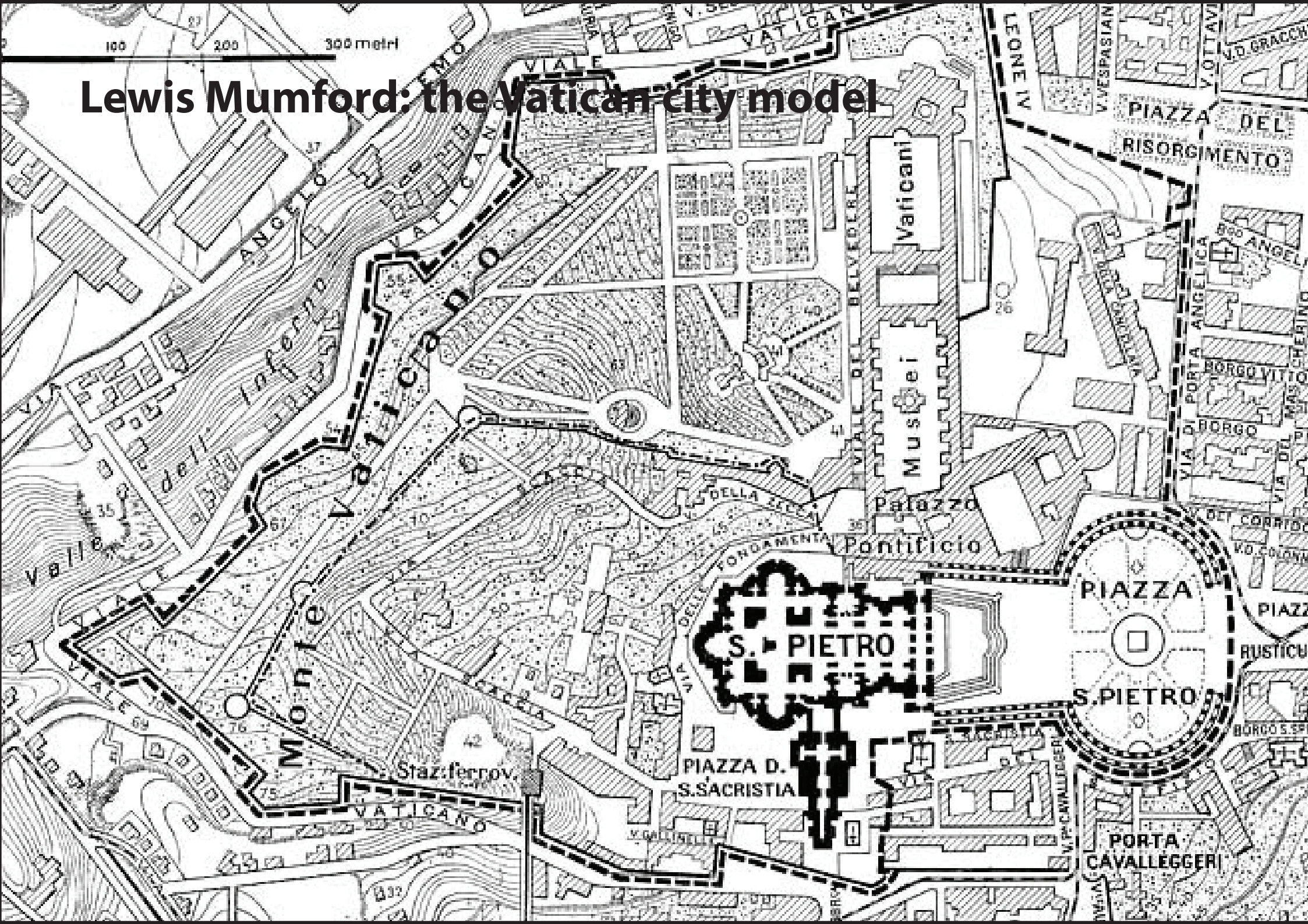
Atoms Bits Coesion

## Fusionopoli & Biopolis model



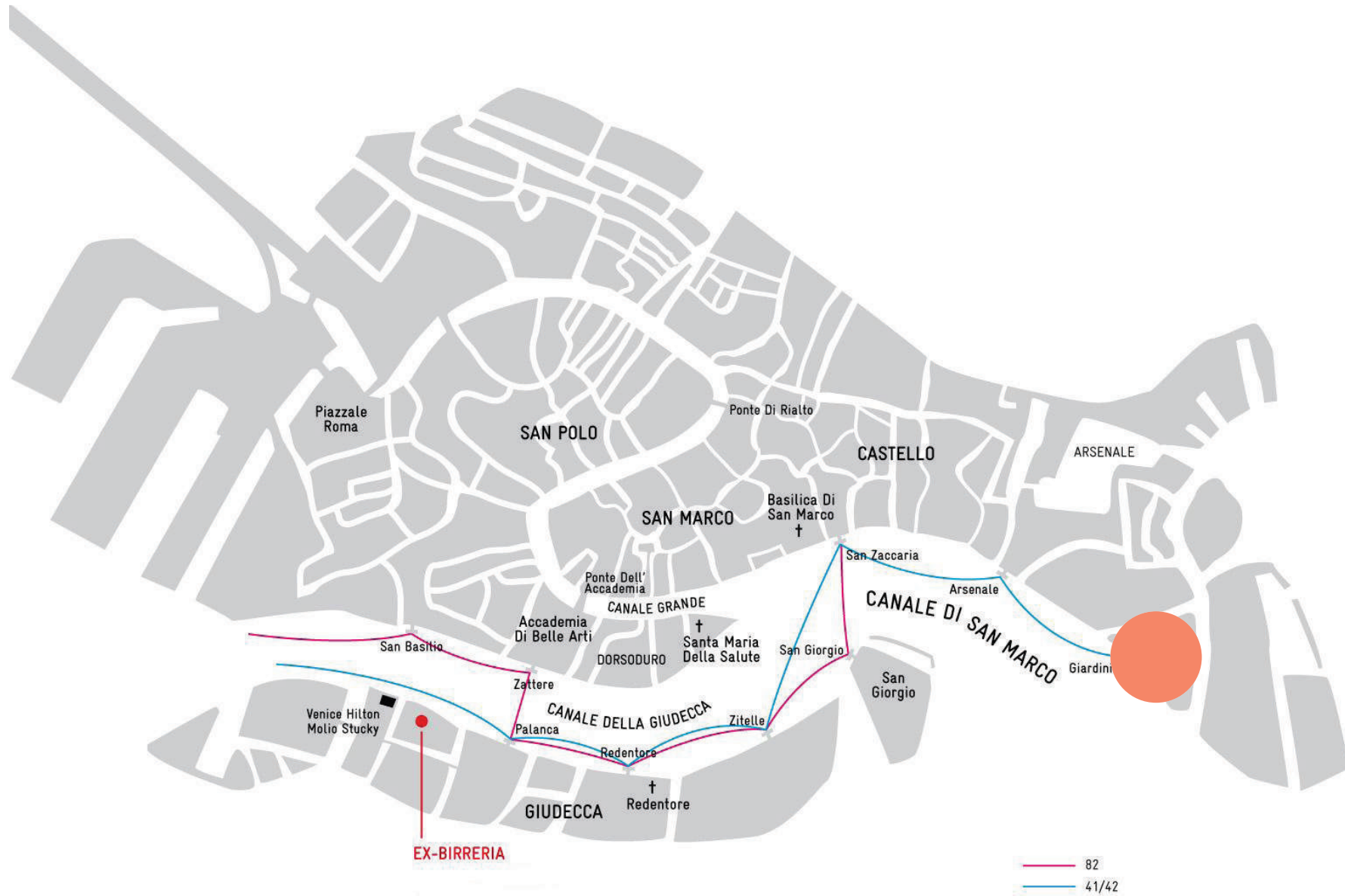
AtomsBits Coesion

# Lewis Mumford: the Vatican city model

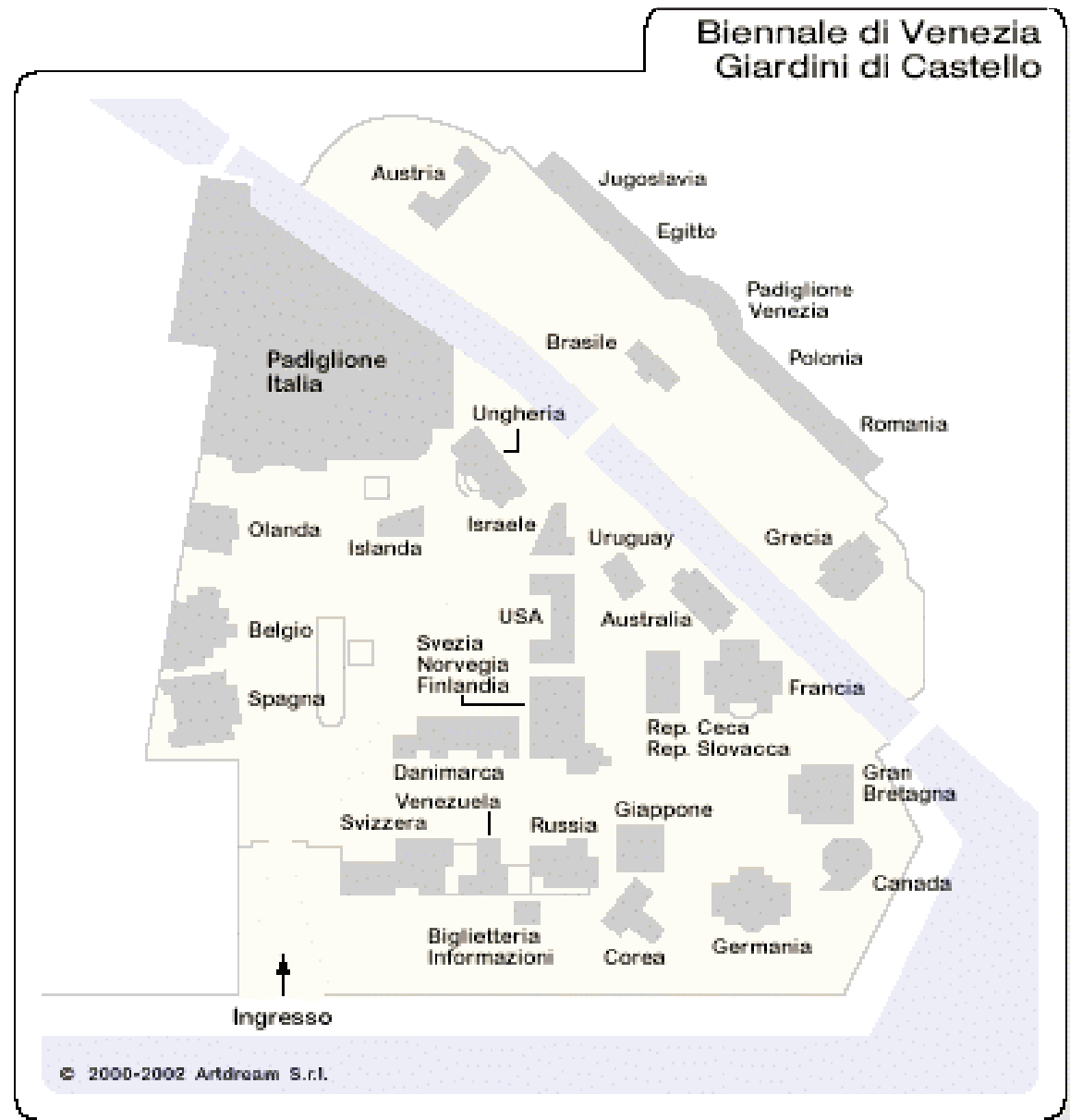




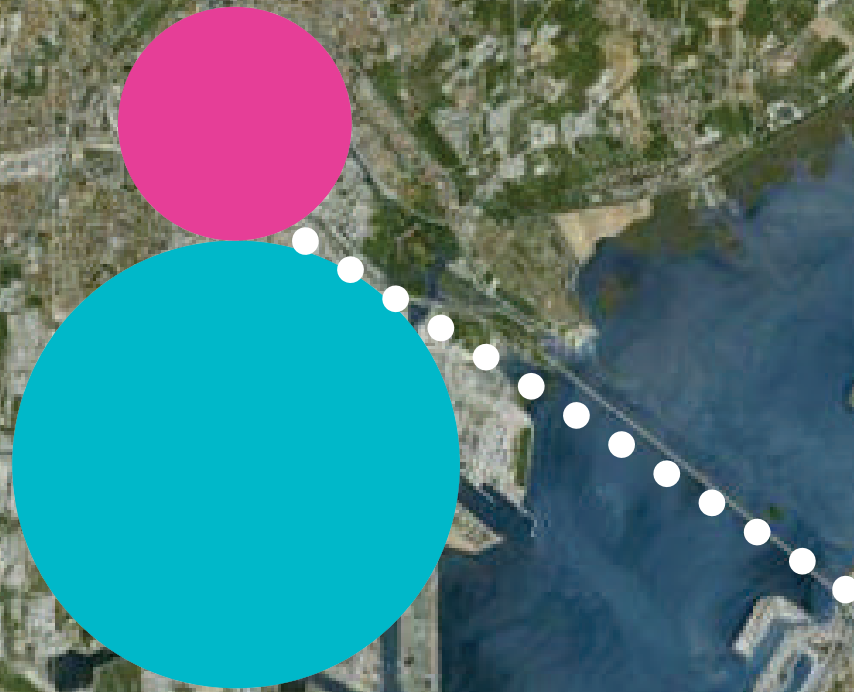
# Venice: the Biennale gardens model



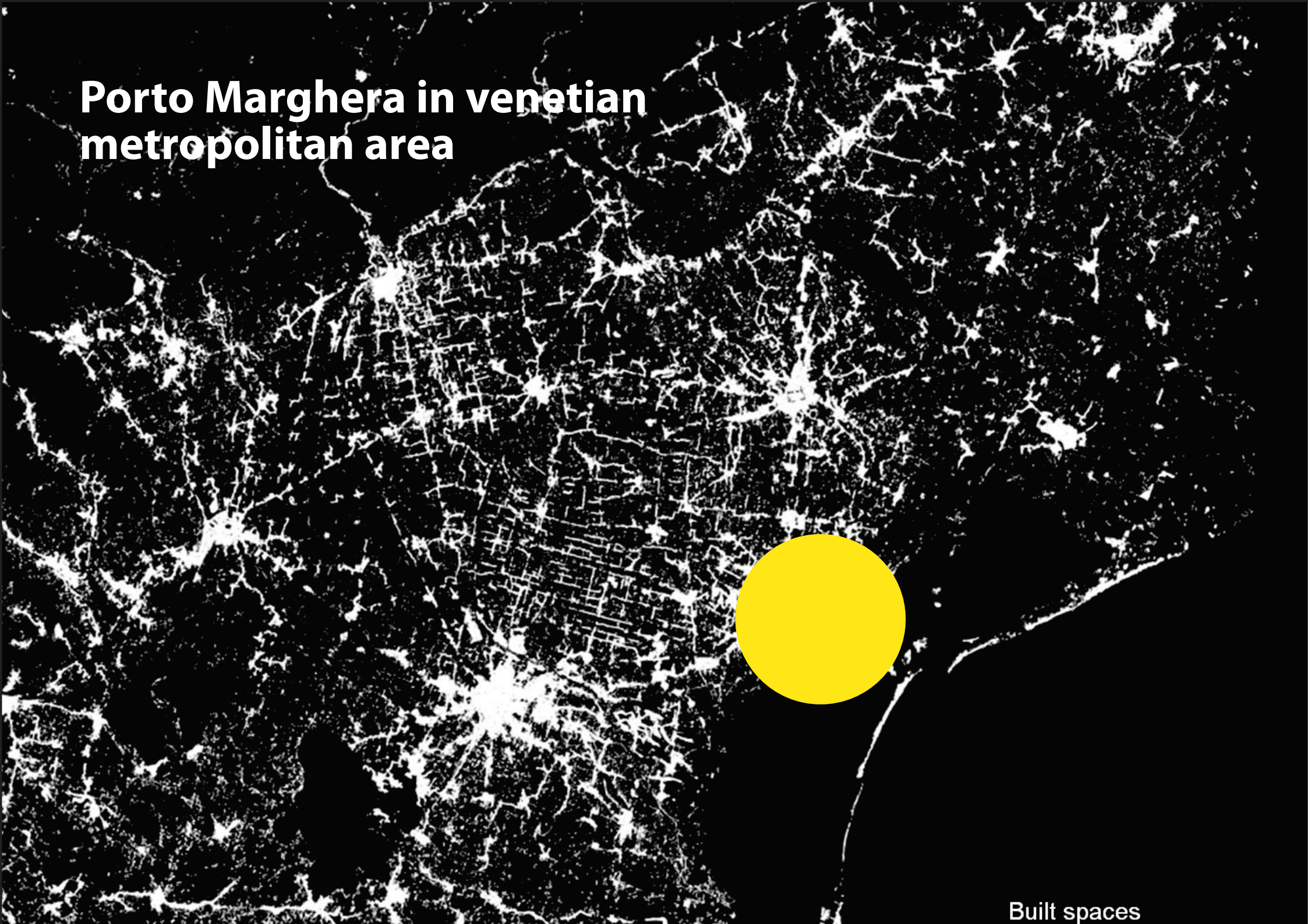
# Venice Biennale gardens: national pavillons



**To renewal historical relationship between  
Venice and Asia: the Porto Marghera  
derelicted areas rehabilitation**

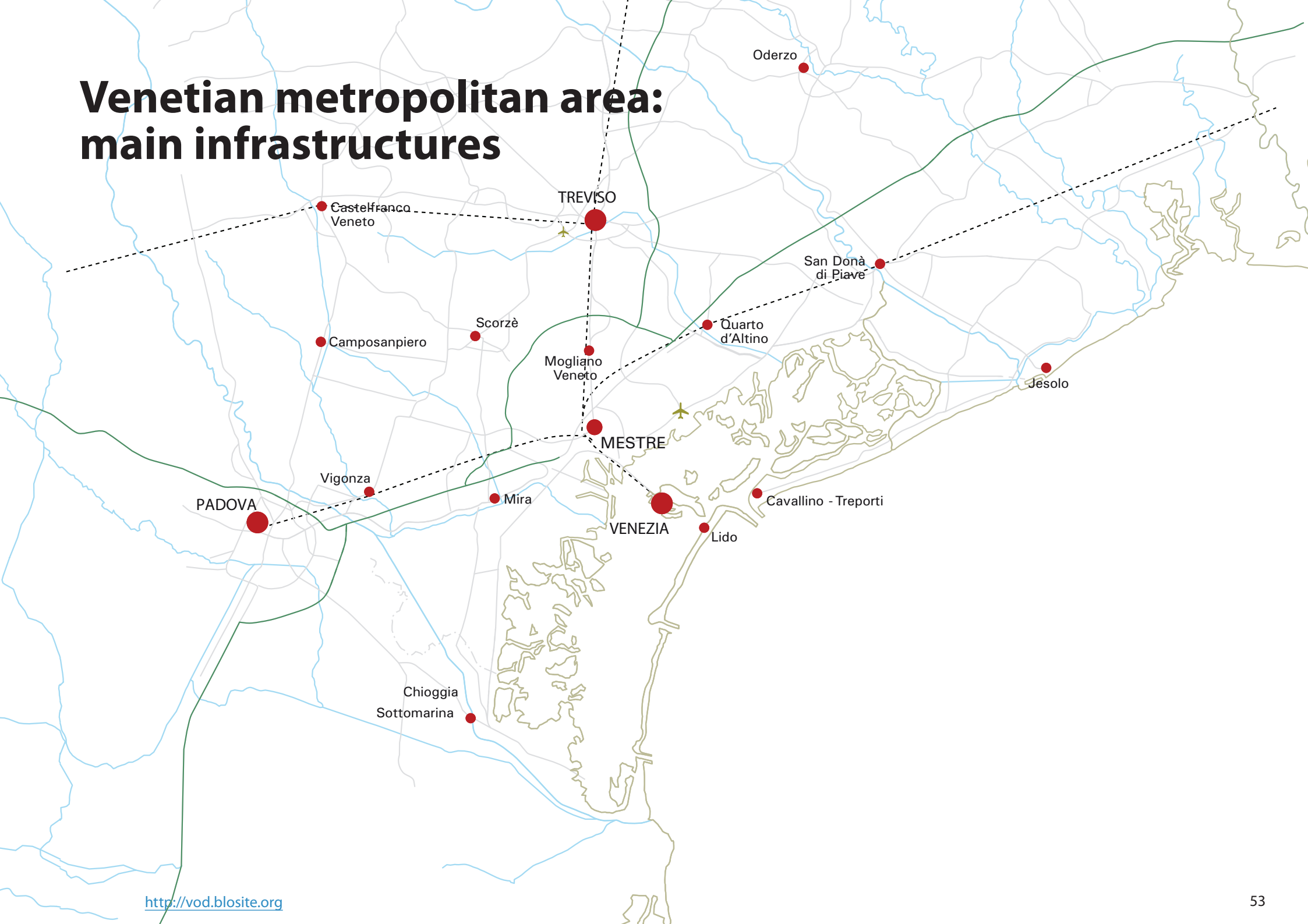


# Porto Marghera in venetian metropolitan area



Built spaces

# Venetian metropolitan area: main infrastructures

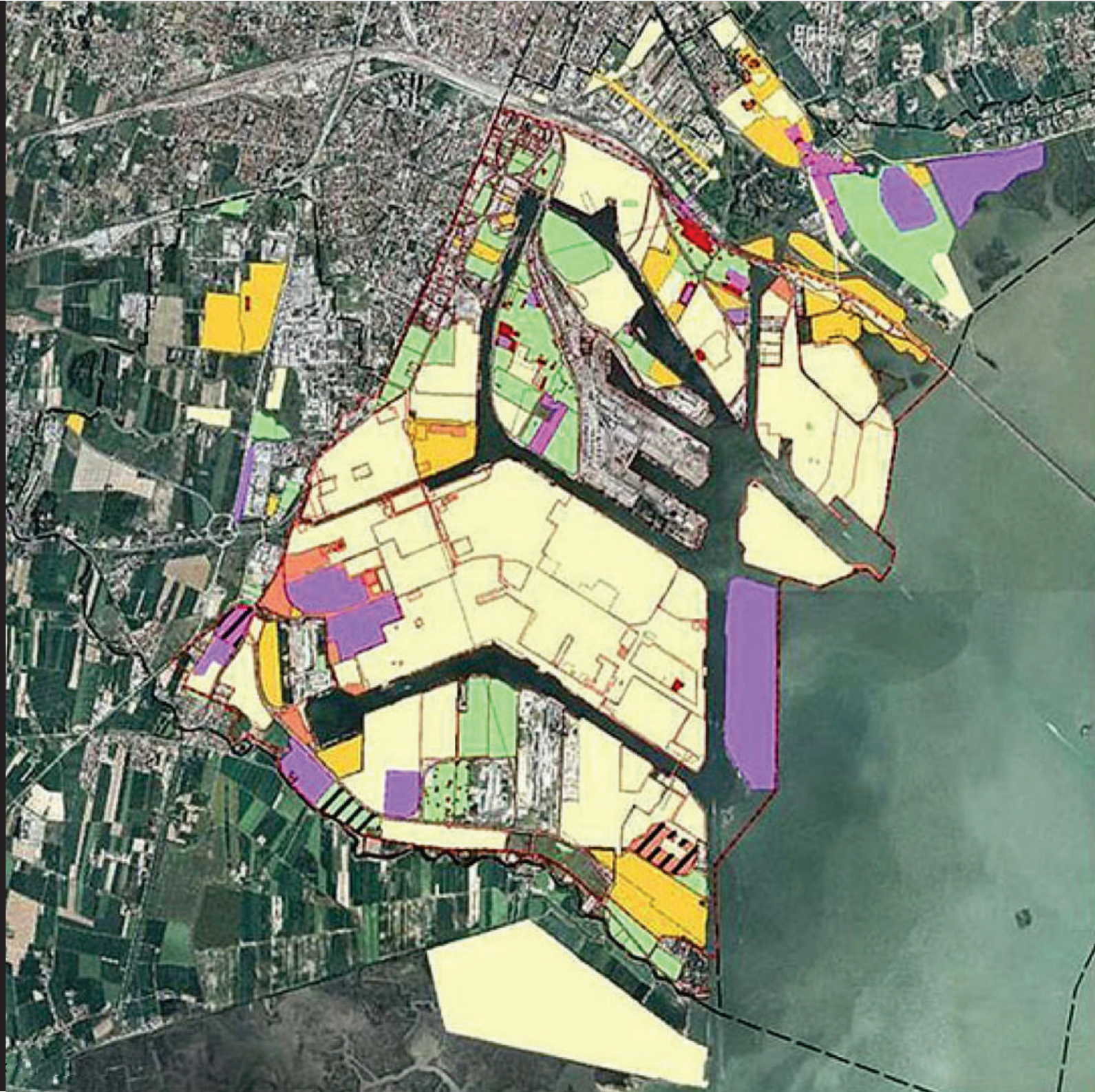


# Porto Marghera: physical resources





# Porto Marghera: land reclamation programme





# Porto Marghera: biological average factor



## Biotic level

Land Area h 16.055  
 Developed Area h 5.412  
 Undeveloped h 10.633  
 Degree of Development 30%  
 BAF 0,31

## Biotic surfaces

**A** Sealed surfaces

**B** Partially sealed surfaces

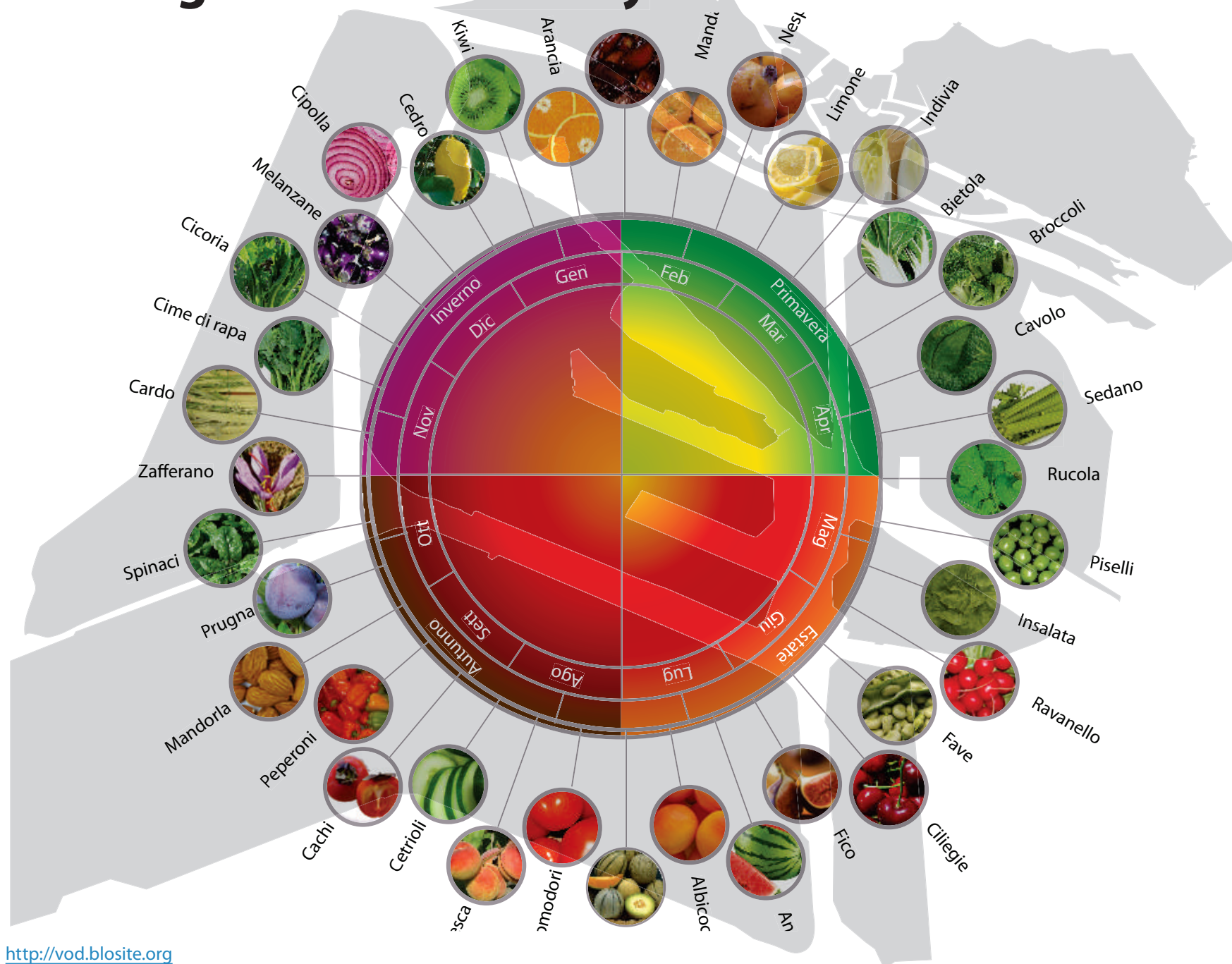
**C** Semi-open surfaces

**D** Unconnected vegetation < 80 cm

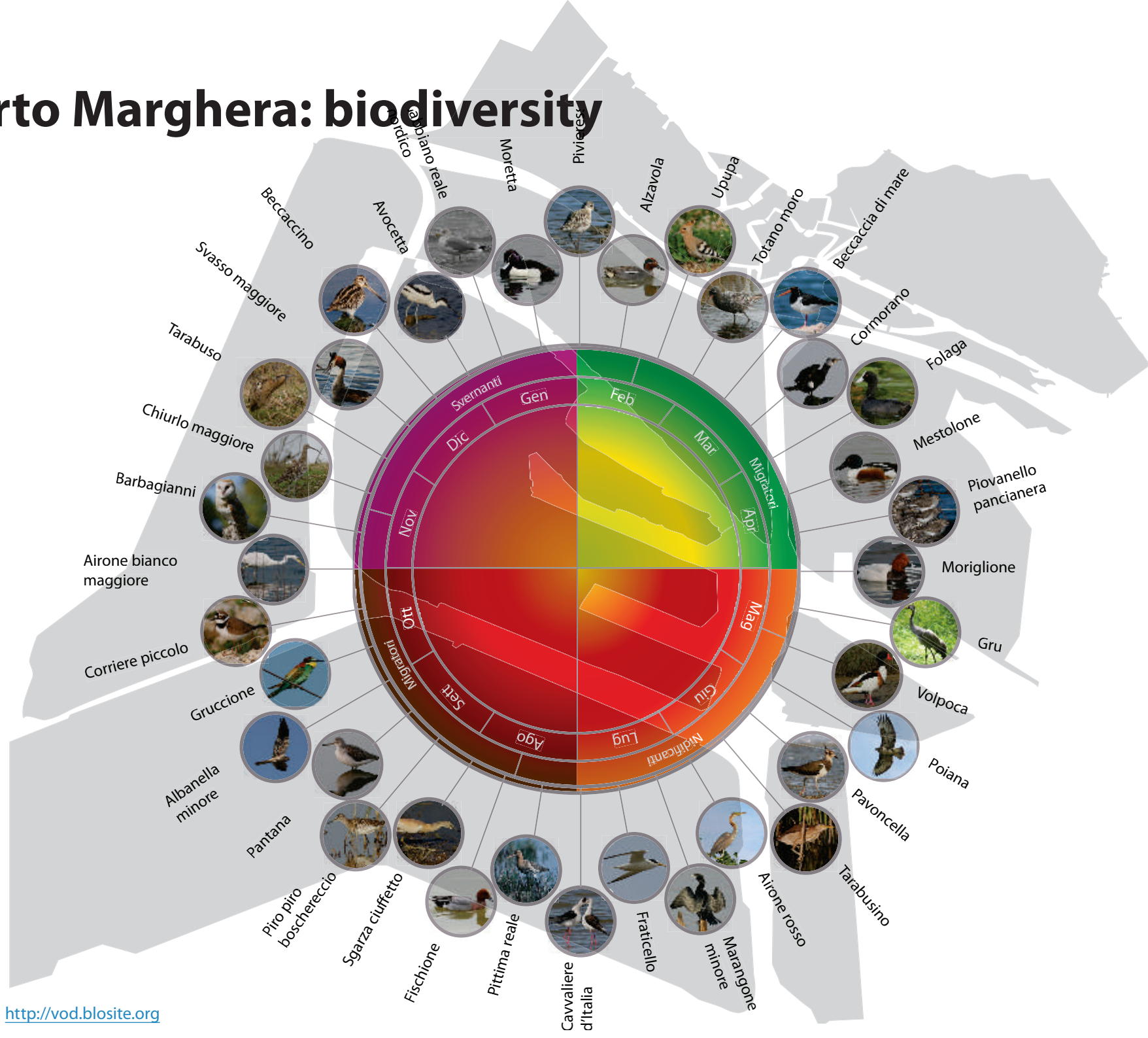
**E** Unconnected vegetation > 80 cm

**F** Connected vegetation

# Porto Marghera: biodiversity



# Porto Marghera: biodiversity



# Climate Change

+6°

**Sea Rise:** L'aumento del livello del mare, correlato all'aumento delle temperature, modificherà sostanzialmente la morfologia del territorio.

**Weather:** L'aumento della temperatura, modificherà sostanzialmente gli aspetti climatici attuali, si passerà da un clima mediterraneo a uno subtropicale.

**Water Quality:** L'acqua salata del mare andrà a compromettere le falde acquifere, diminuendo la disponibilità e la qualità dell'acqua.

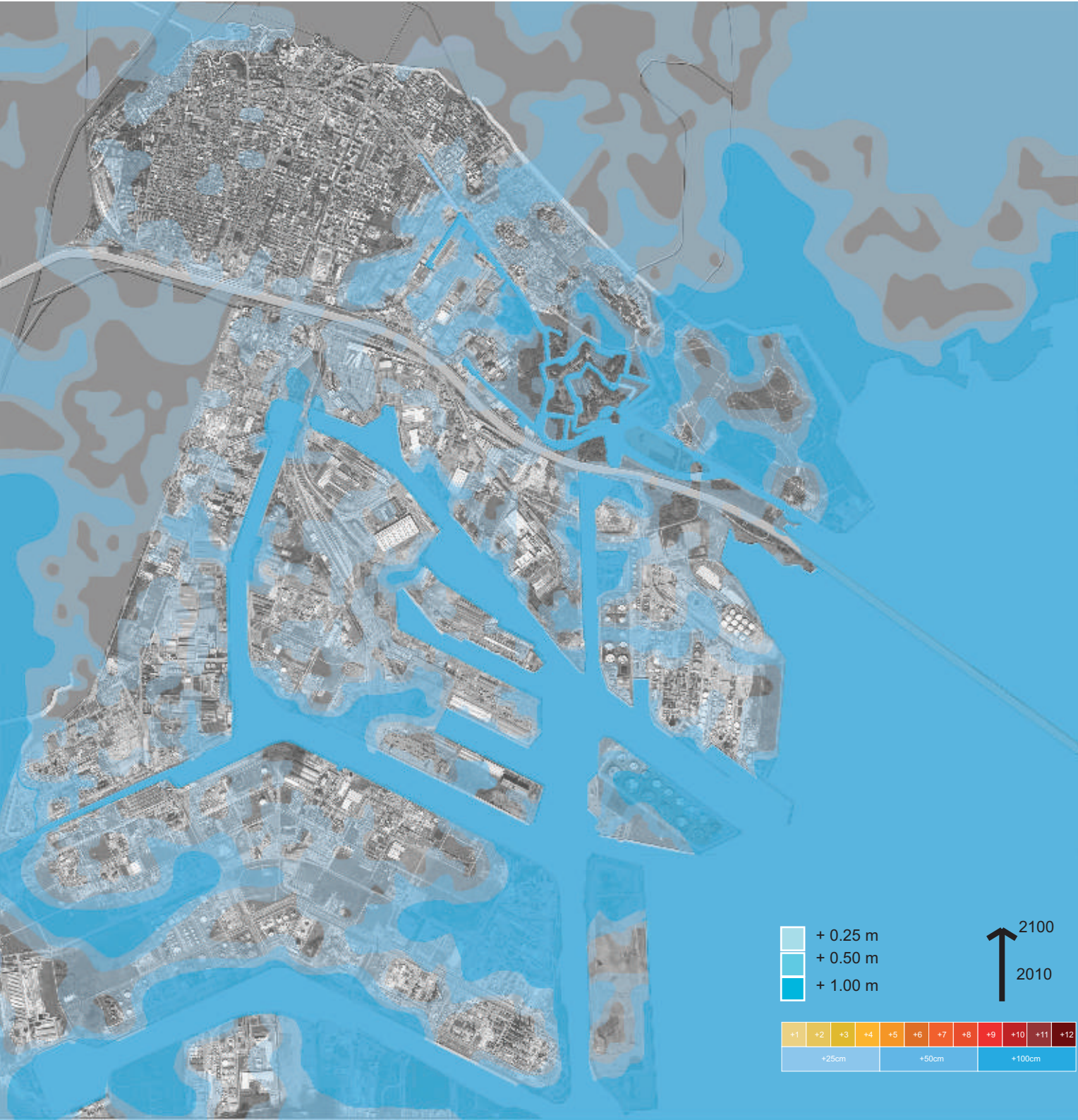
**Crop Bio:** L'introduzione di nuove colture più affini con il nuovo clima apporteranno numerosi cambiamenti sia sulla biodiversità che sullo stile di vita.

**Sea Bio:** L'ecosistema marino, subirà delle modificazioni sostanziali, alcune specie prevarranno su altre andando ad alterare gli equilibri ora esistenti.

**New Landscape:** L'estremizzazione dei fattori climatici genererà una nuova morfologia dove la risorsa naturale sarà l'elemento di maggior interazione.



+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12
+25cm				+50cm				+100cm			



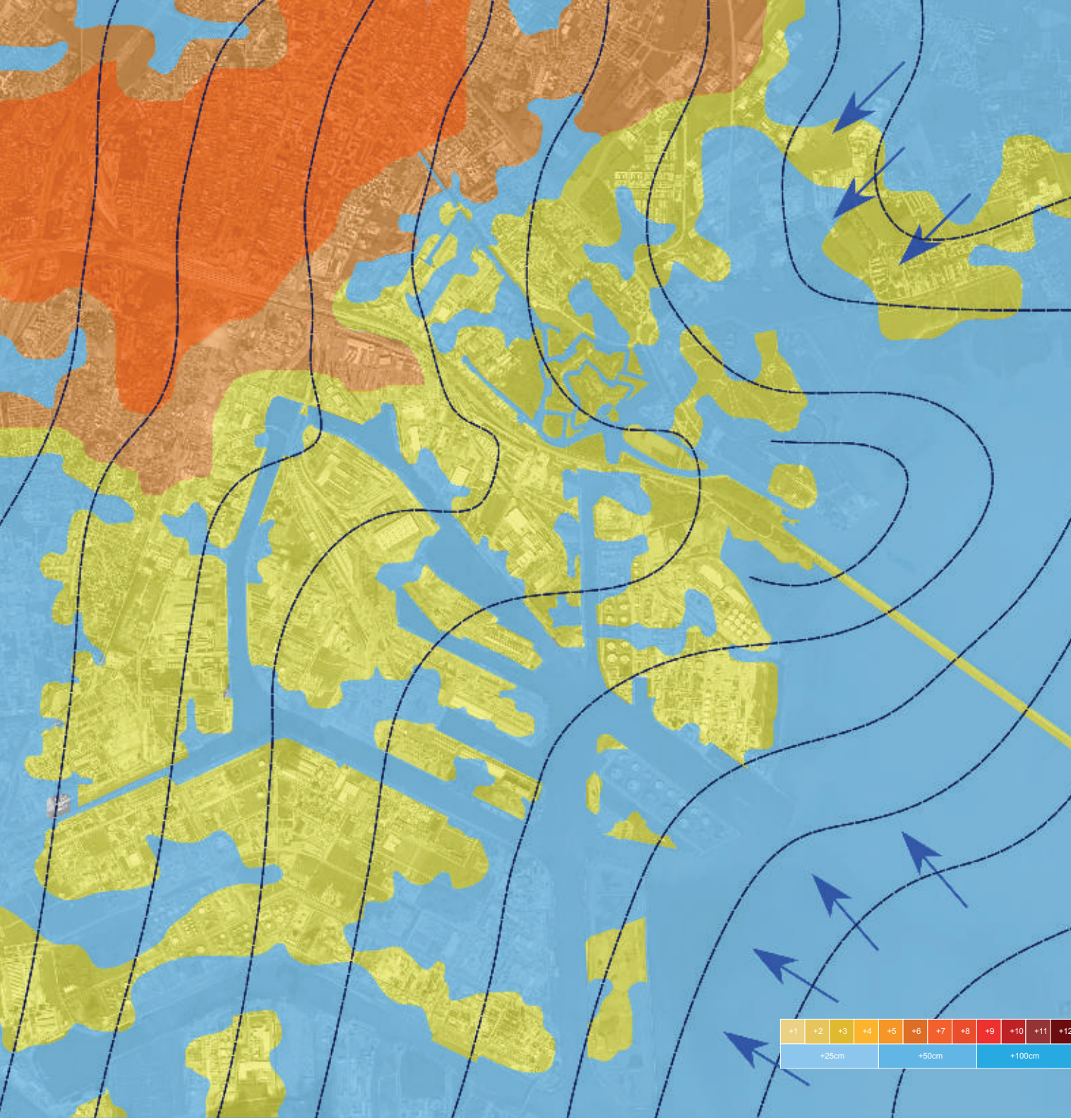
+ 0.25 m  
 + 0.50 m  
 + 1.00 m

↑ 2100  
 2010

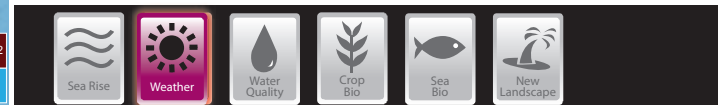
+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12
+25cm				+50cm				+100cm			

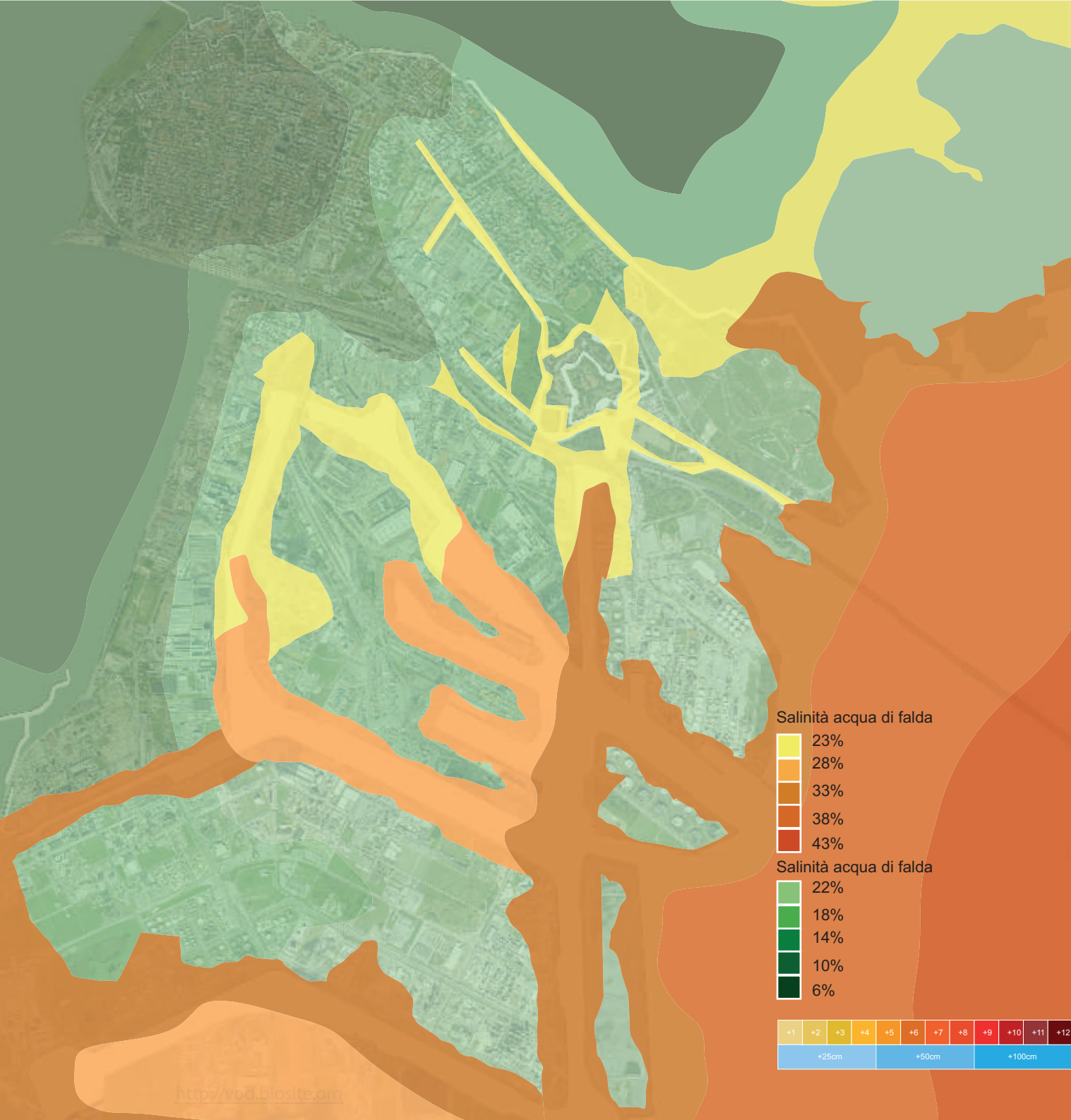
# Climate change: Sea level rise





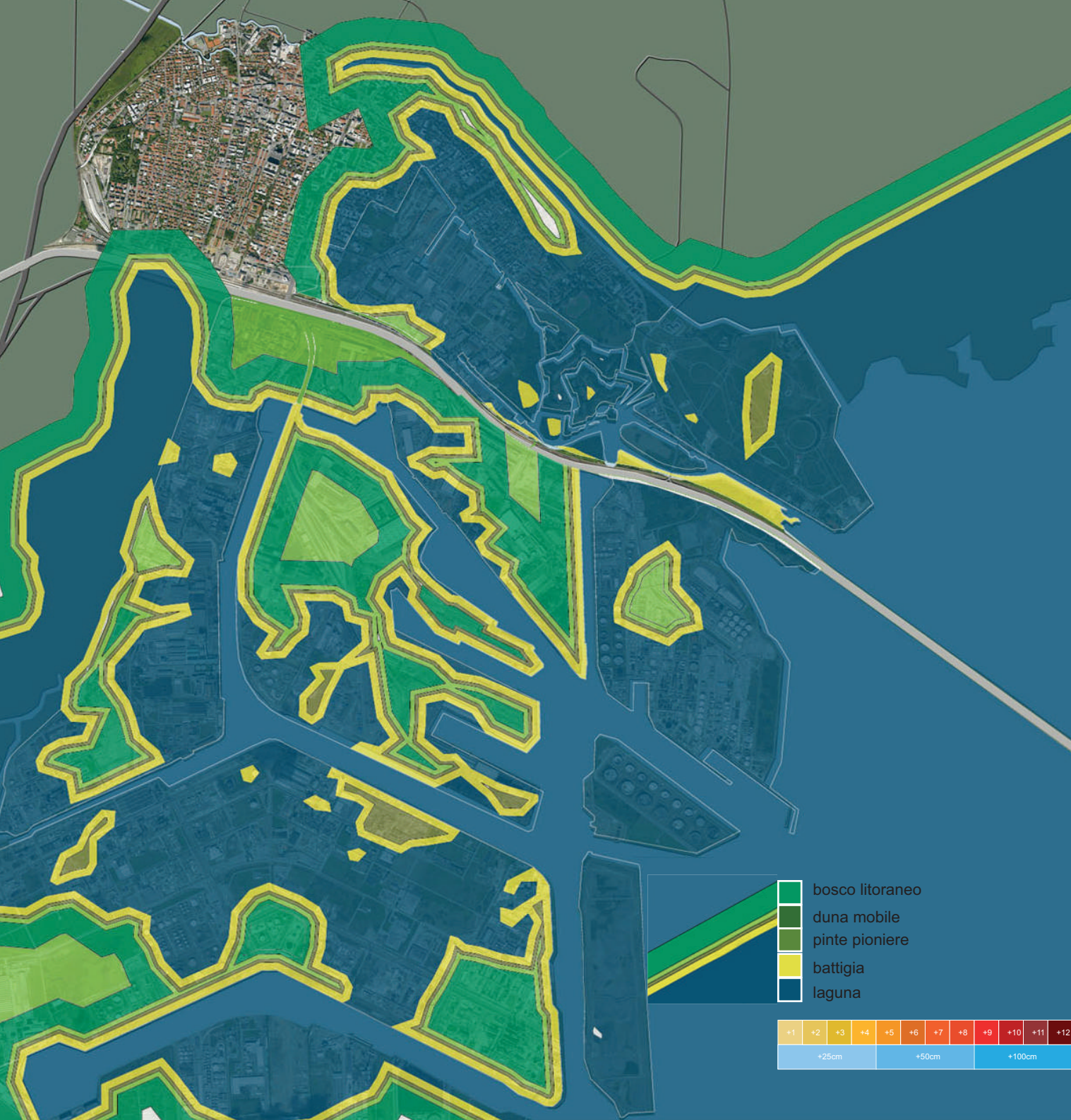
# Climate change: Weather





# Climate change: Water quality

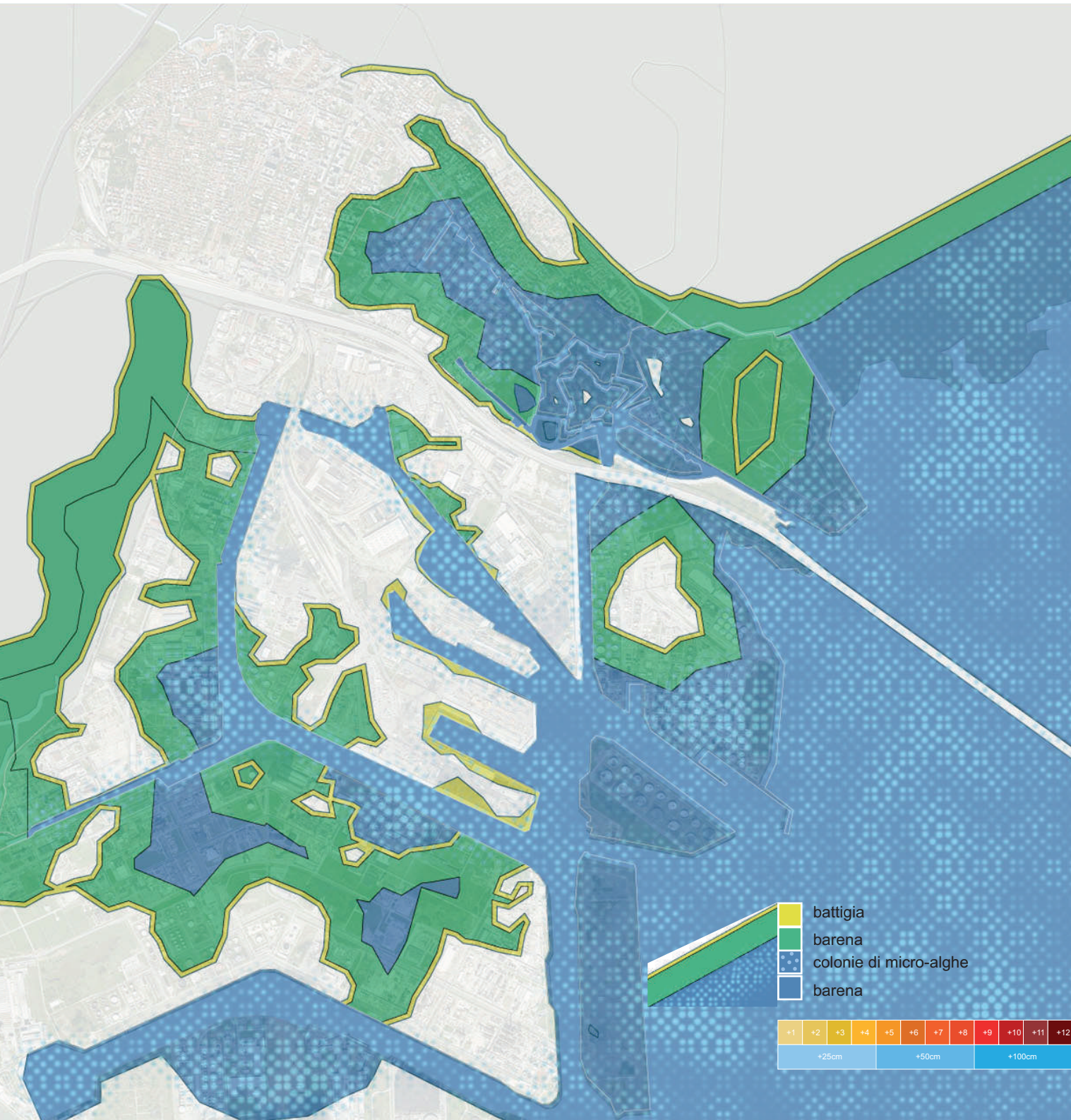




# Climate change: Crop & Biodiversity







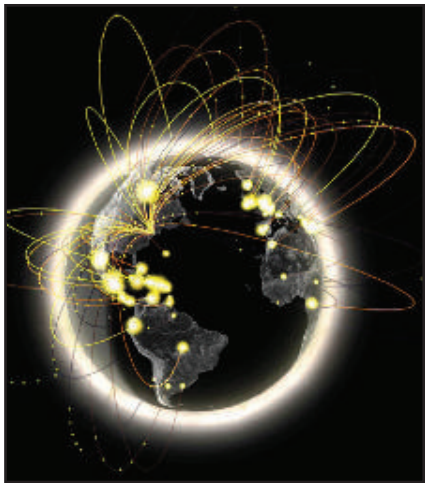
# Climate change: Sea biodiversity



# Porto Marghera: immaterial resources



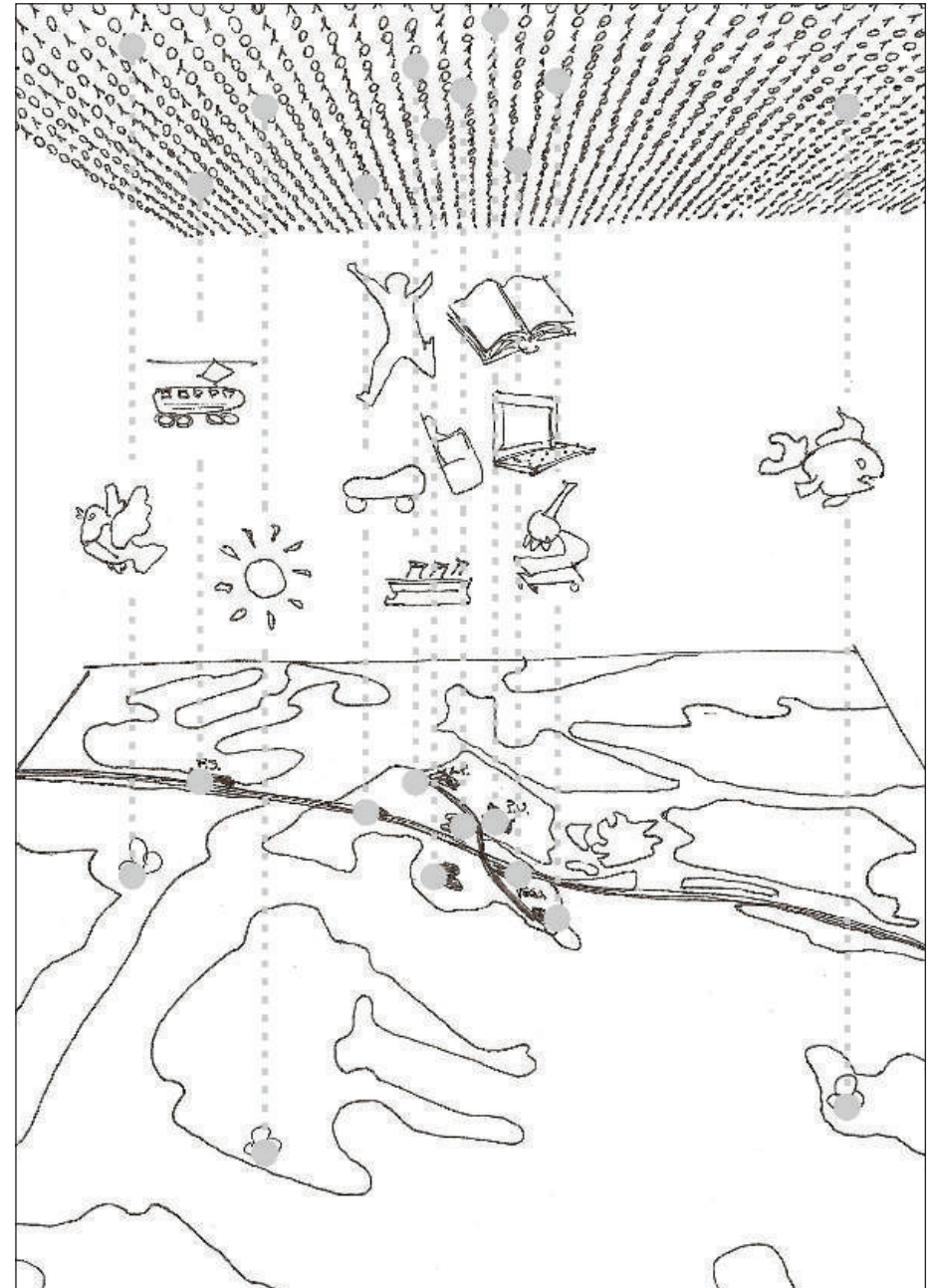
Global network



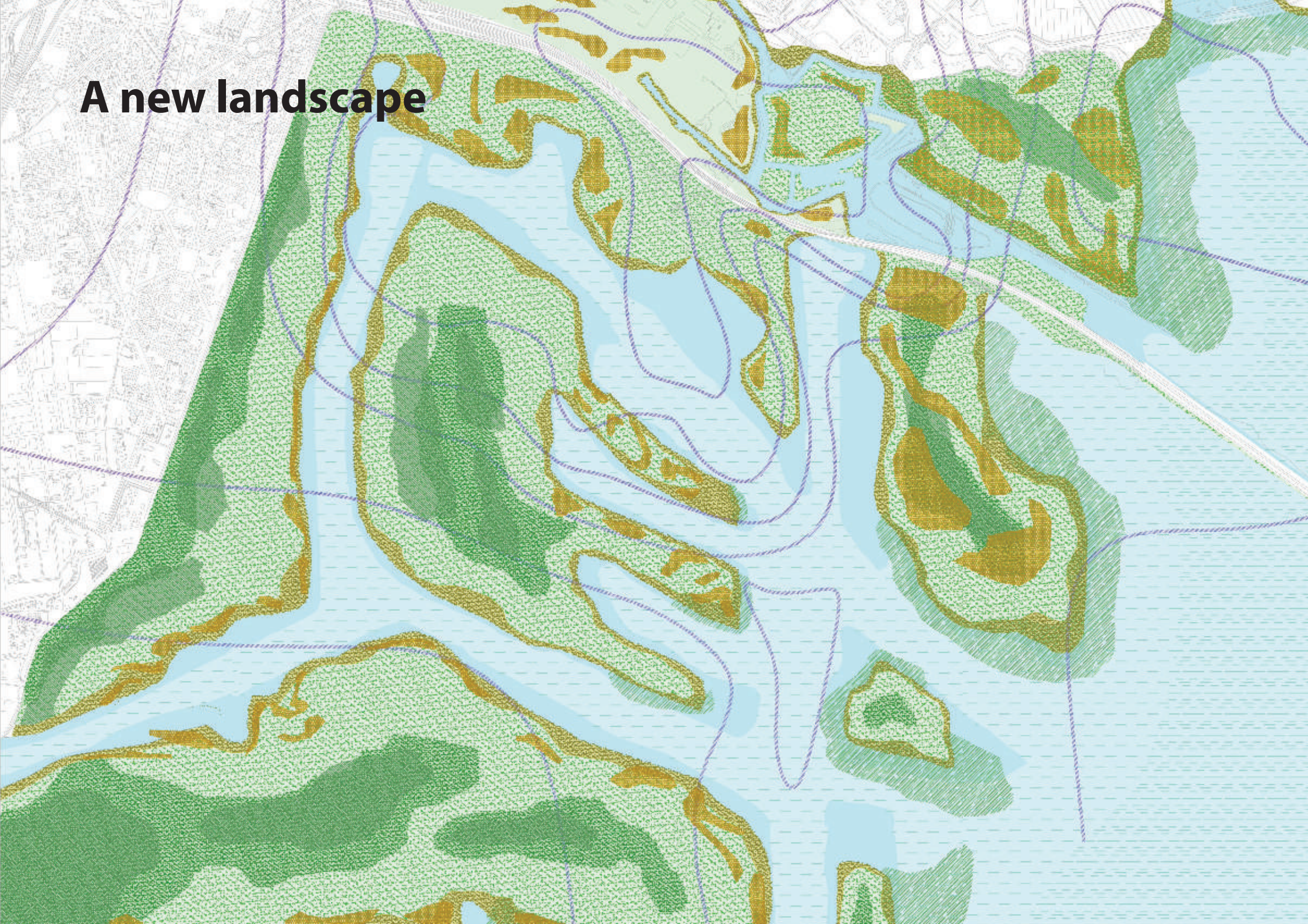
U-city network



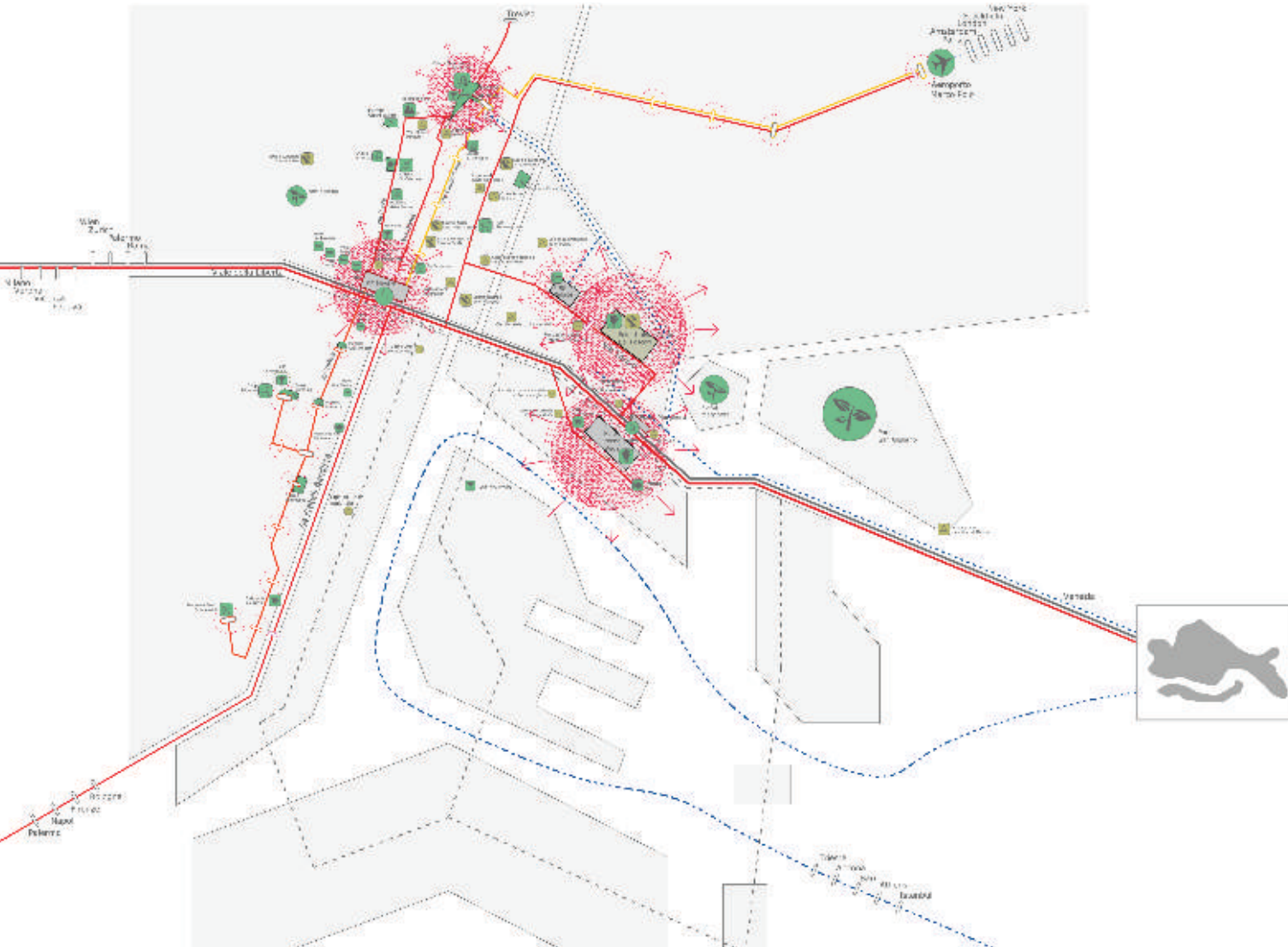
New urban  
virtual spaces



# A new landscape



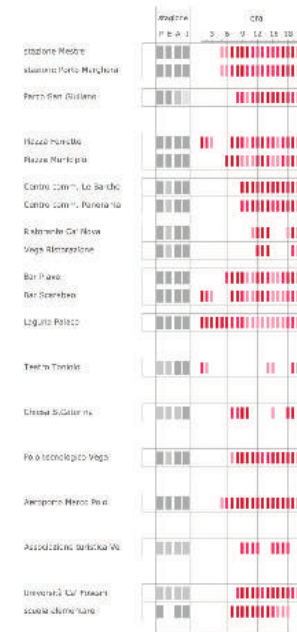
# Infrastructure



Tipologie di aggregazione



Frequenza di aggregazione

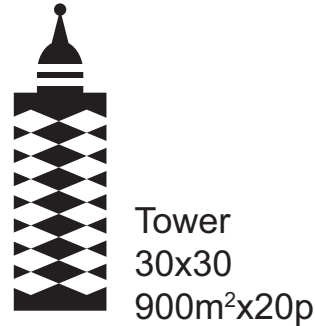


# The misures

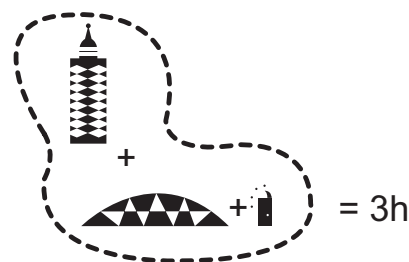
## Functional programme



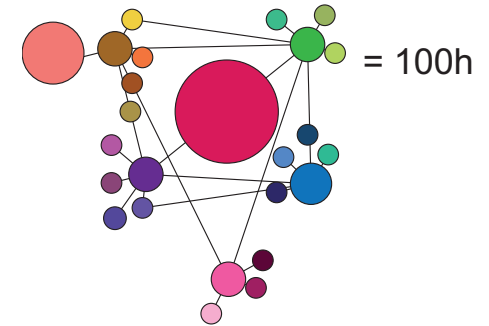
## The components of fondaco:



## The basic module for one fondaco

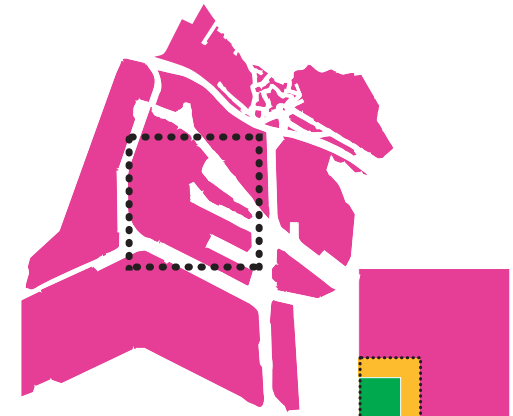


## Necessary surfaces for 25 fondaci

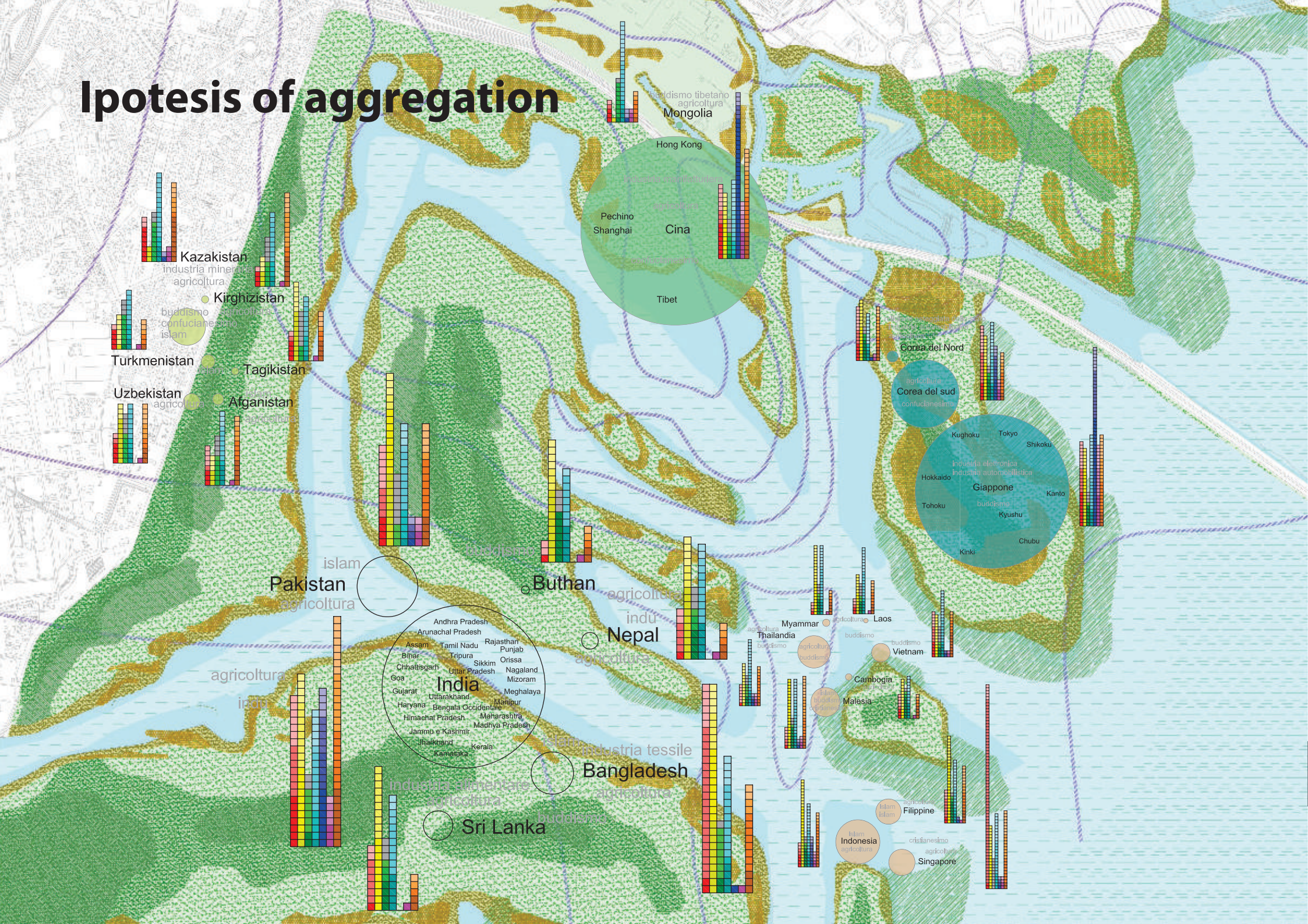


## Check the disposal surfaces

$$1700h - (\text{city icon} + \text{leaf icon} + \text{wave icon}) = 700h$$



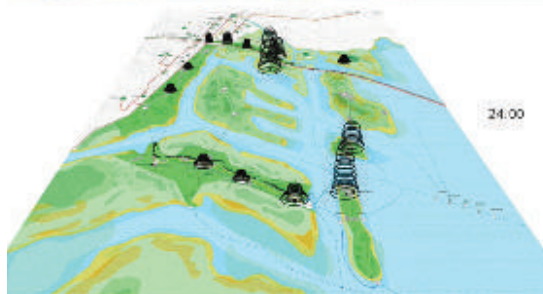
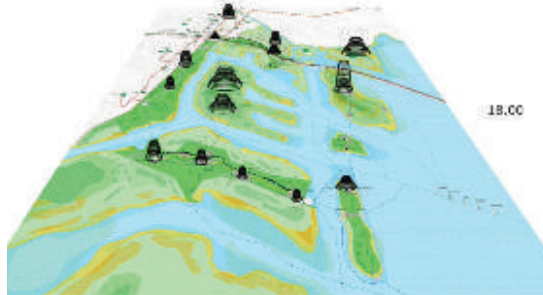
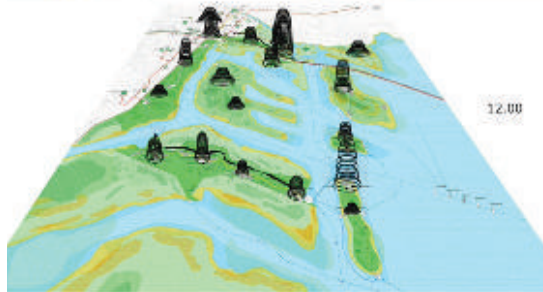
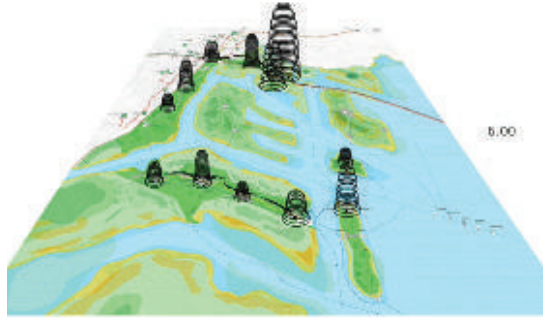
# Ipotesi di aggregazione



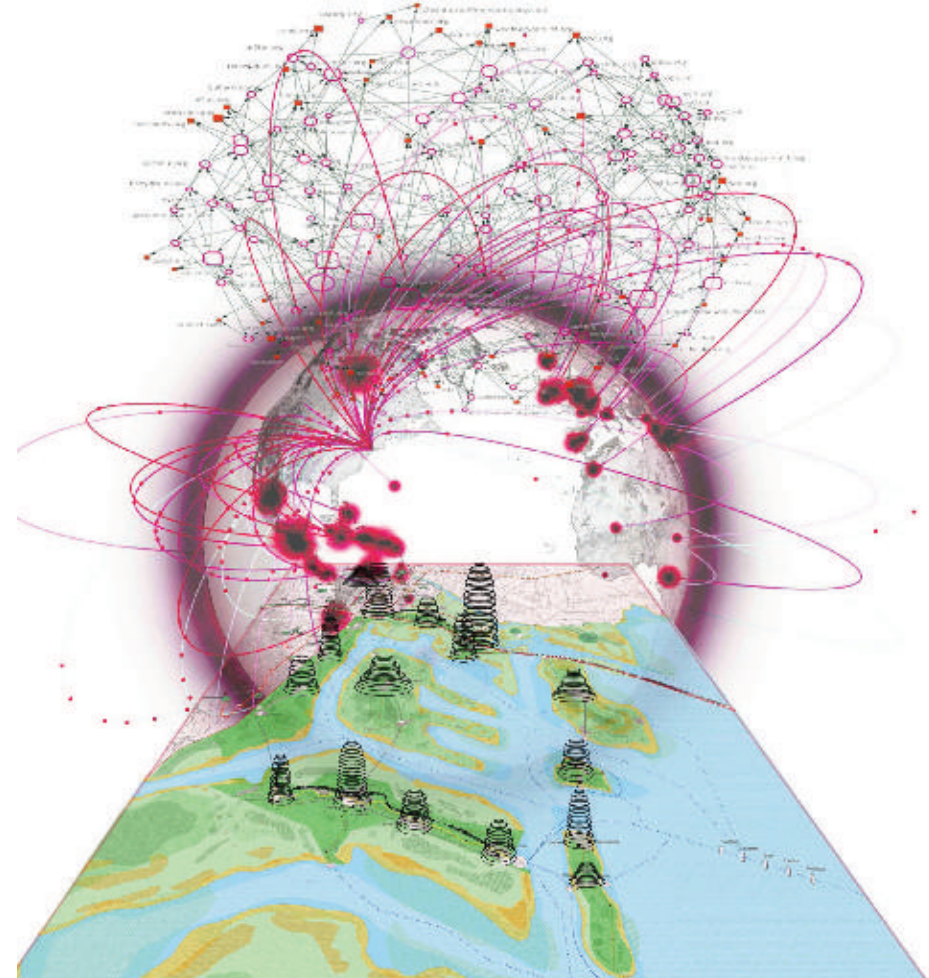
# A Sistem of Fondaci to Converse with the East



# A Sistem of Fondaci to Converse with the net



<http://vod.blosite.org>



03.00 06.00 09.00 12.00 15.00 18.00 21.00 24.00

Venice

Astana

New Dehli

Shangai

Singapore

Tokyo