

"what is the **city** but the people? true, the **people** are the city"

William Shakespeare, Coriolanus

Creative Metabolism of urban waterfront

Urban waterfronts are today one of the most prolific variants of creative cities: dense and hybrid locations where resources, opportunities, aspirations and ambitions of cities are translated into visions, new relations and projects. The creative port city is capable of reactivating new urban metabolism, of generating new architectural forms, of producing new landscapes and, through the permanent flow of urban culture, of fuelling the great relational networks, making them more dynamic, communicative and competitive. The most important implication of waterfront regeneration is that this particular area should be addressed as a structural/strategic element of the "fluid city" as a whole.

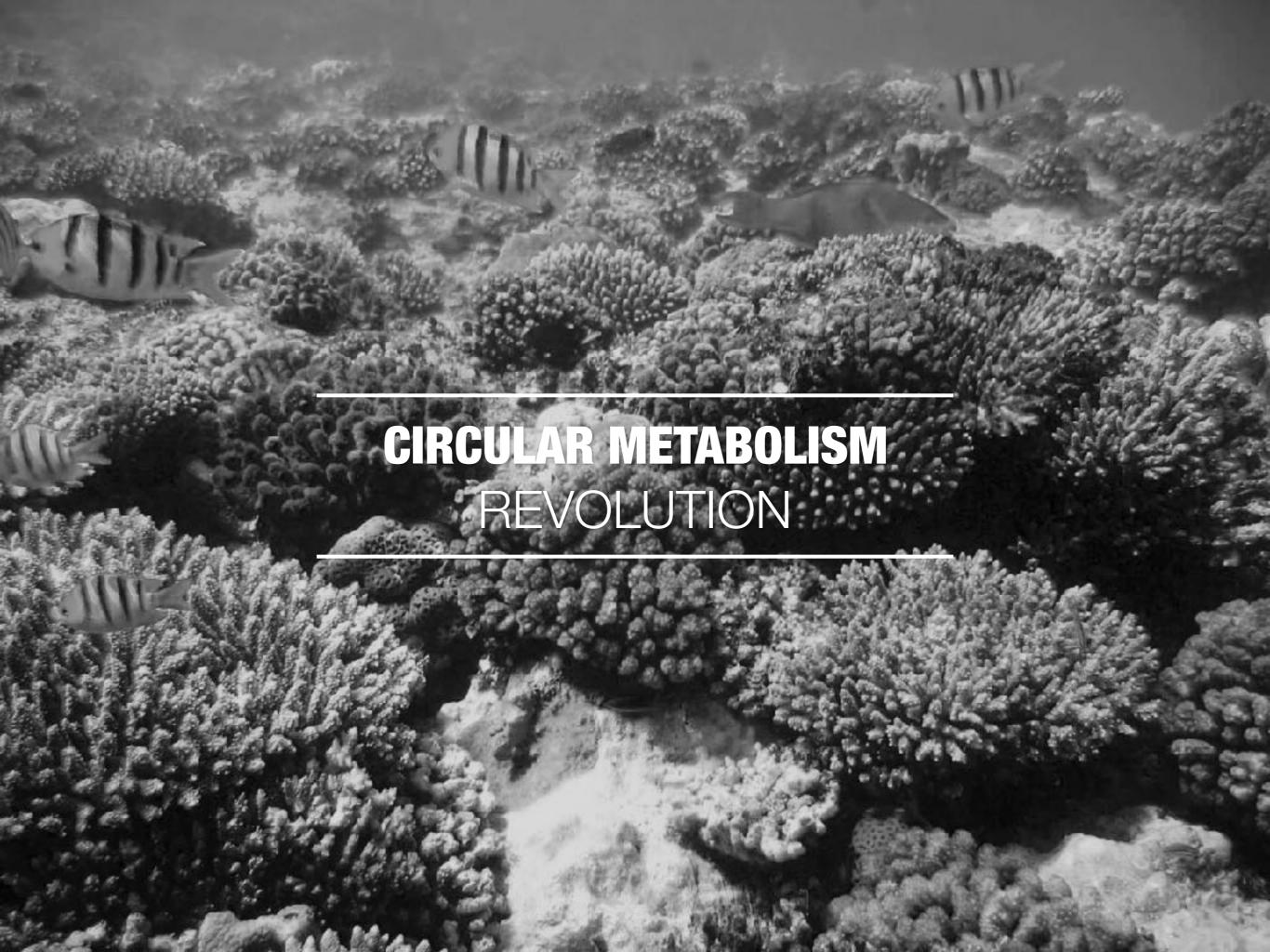
waterfronts can be main actors of the

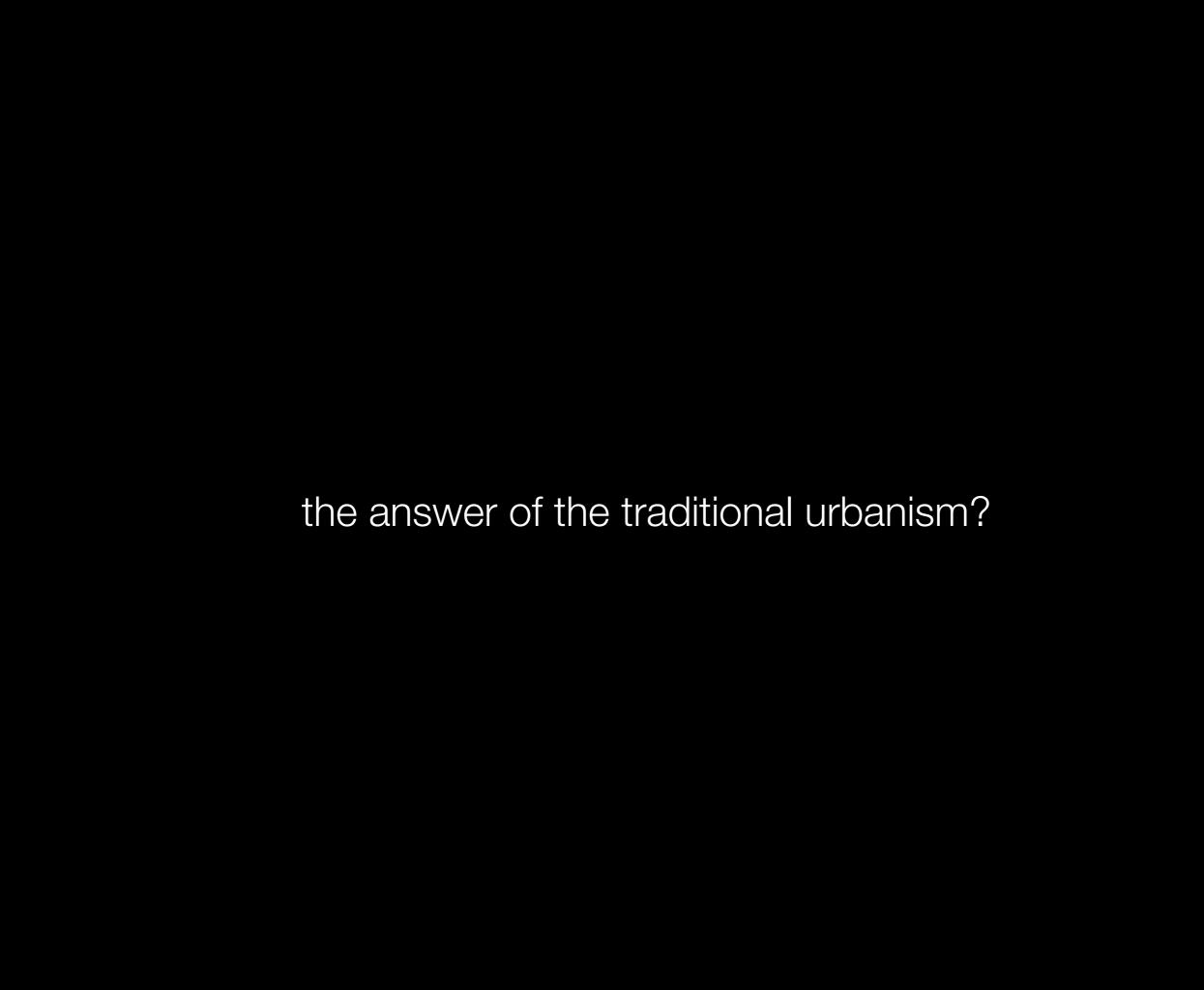
NEO-ANTHROPOCENE REVOLUTION



click on timeline to move in time







we need a

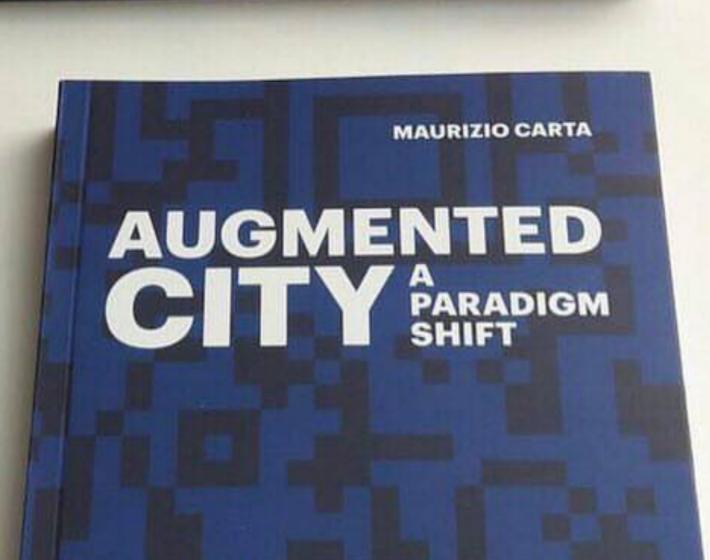
PARADIGM SHIFT

MAURIZIO AUGMENTED CITY

MAURIZIO AUGMENTED CITY

MAURIZIO AUGMENTED CITY

MAURIZIO AUGMENTED CITY











SENTIENT

We must use a wide range of sources, coming from tech, bio, human sensors, for improving a knowledge dimension to answer different people's questions and to solve several problems. So we need new values, skills and tools for renewing a knowledge-based and solvingoriented urbanism in a well-timed collaborative scenario.

RECYCLICAL

The city must be based on recycling processes and led by the principles of circular economy. We need a paradigm shift for transition cities that not only reduce, re-use and re-cycle their tangible and intangible resources, but manage and design a new circular metabolism, by including planned recycling among the components of the urban project against their obsolescence.

OPEN SOURCE

We need for a civic-tech-urban structural alliance in the sharing society we live, able to generate new public collaborative space. The city is no more a pre-compiled code of spaces and functions, but it is a collaborative and incremental process of meeting places and housing, social infrastructure and places of co-work. And then it triggers a renewed community covenant that reactivates the constituent factors of urban life.

The

RESILIENT

We must accept the task for adaptive, circular and selfsufficient cities for winning the climate change challenge, producing and distributing effectively the "resilience dividend" as effective instrument of urban ecological equalization. Cities can be active actors of the new climate regime.

INTELLIGENT

We must generate an enabling ecosystem based on the hardware of better urban spaces, on the software of the active citizenship, but overall on the new urban operative system for a more advanced and responsive city planning and urban design.

FLUID

We must rethink porosity and fluidity as projective paradigms in the connective dimension for urban regeneration projects that derive by water their charge of identity, producing new spatial configurations from renewing interface port-city not as place-threshold but as a producer of powerful urban identity.

Augmented City Manifesto

RETICULAR

The regional urbanisation process must be redefined from the traditional ecosystem and gravitational model to a new and more effective reticular one, based on the different roles of metropolitan super-organisms and territorial archipelagos.

PRODUCTIVE

We need to reactivate the economic dimension of the cities framing the powerful makers movement within a new the creative/productive urban ecosystem for improving the manufacturing renaissance in the cities based on the new digital artisan economy, for reconstituting an essential economic base of the city, after years of euphoria for city as service-provider only.

STRATEGIC

The Augmented City needs a new implementation approach, a more adequate process for allowing to transform ideas into action, for focusing several actions into a holistic vision. We need a new alliance between public-private-civil society and ask for innovative paths to implementation. The Augmented City asks for an incremental dimension, an adaptive approach and a timeoriented action, able to activate several cycle to regenerate districts, cities and lands. We must adopt an approach led by a relational-incremental masterprogram rather than a rationalcomprehensive masterplan. For regenerating the transition areas we must use the Cityforming@ Protocol, based on a system of incremental colonizing tactics, opensource consolidating actions and development strategies.

CREATIVE

culture, communication and cooperation as resources for an active city can generate new forms and pattern able to reshape urban space, to stimulate the human creativity and to produce a different growth based on identity, quality and reputation.

We must improve the cultural dimension through the integrated use of

Maurizio Carta, Augmented City. A Paradigm Shift, Listlab, 2017

waterfronts as **fluid eco-communities**

Waterfronts, therefore, are more than straightforward urban contexts, they are better described as structural components of cities, frequently part of a harbour clusters and the focus of combined action: they are "fluid eco-communities" requiring wideranging strategic action so as to fully exploit cultural, tourist and productive capitals. European port cities are also important portals providing access to imposing production platforms between the Atlantic and the Mediterranean, between the Americas and Asia, and as a consequence must be capable of establishing new functions which go beyond the stereotypical images of marginalization and degradation, so often associated with ports, and aim to fully exploit the capital possessed by this particular territory.

#fluidcitychallenge

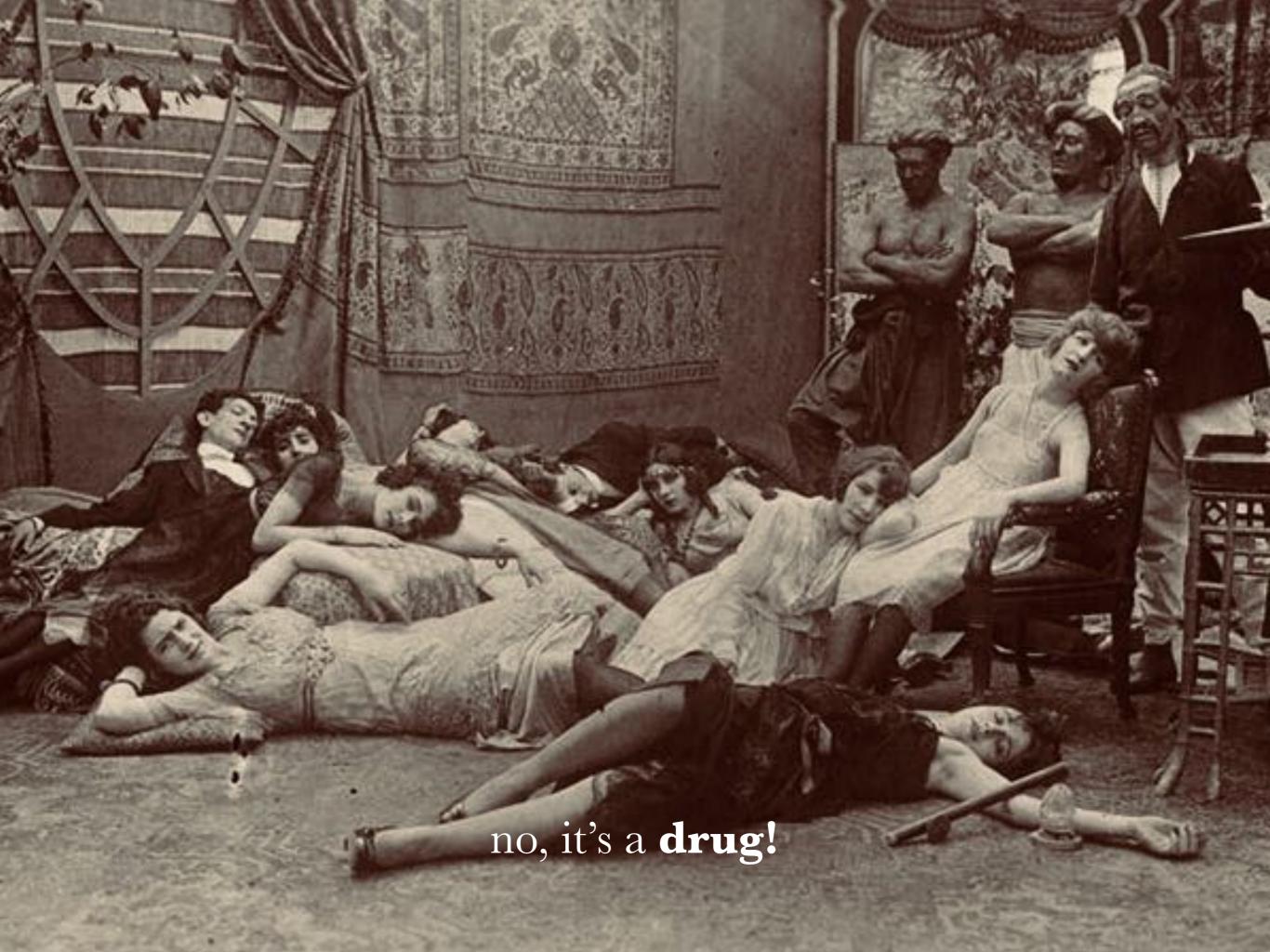




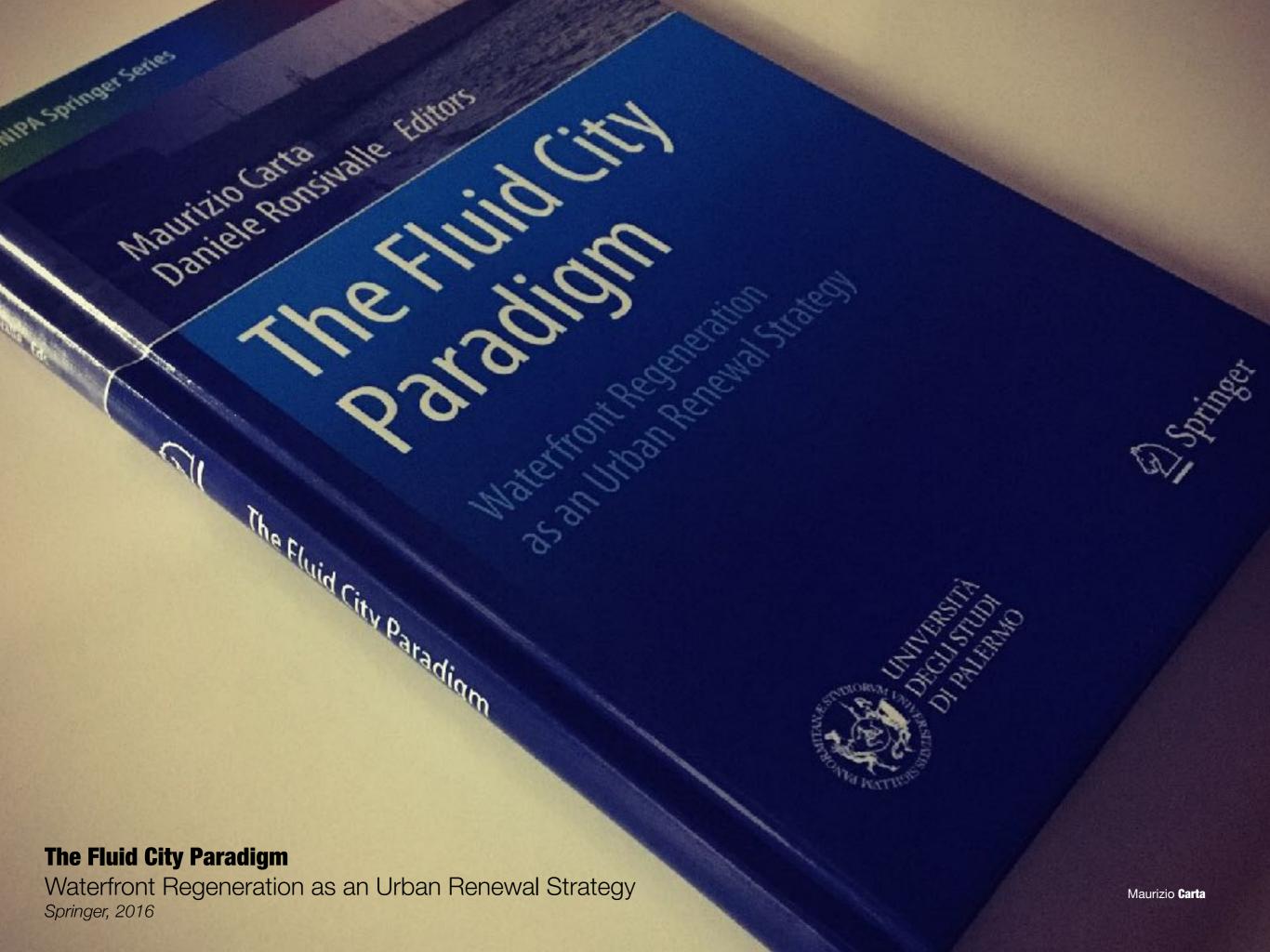














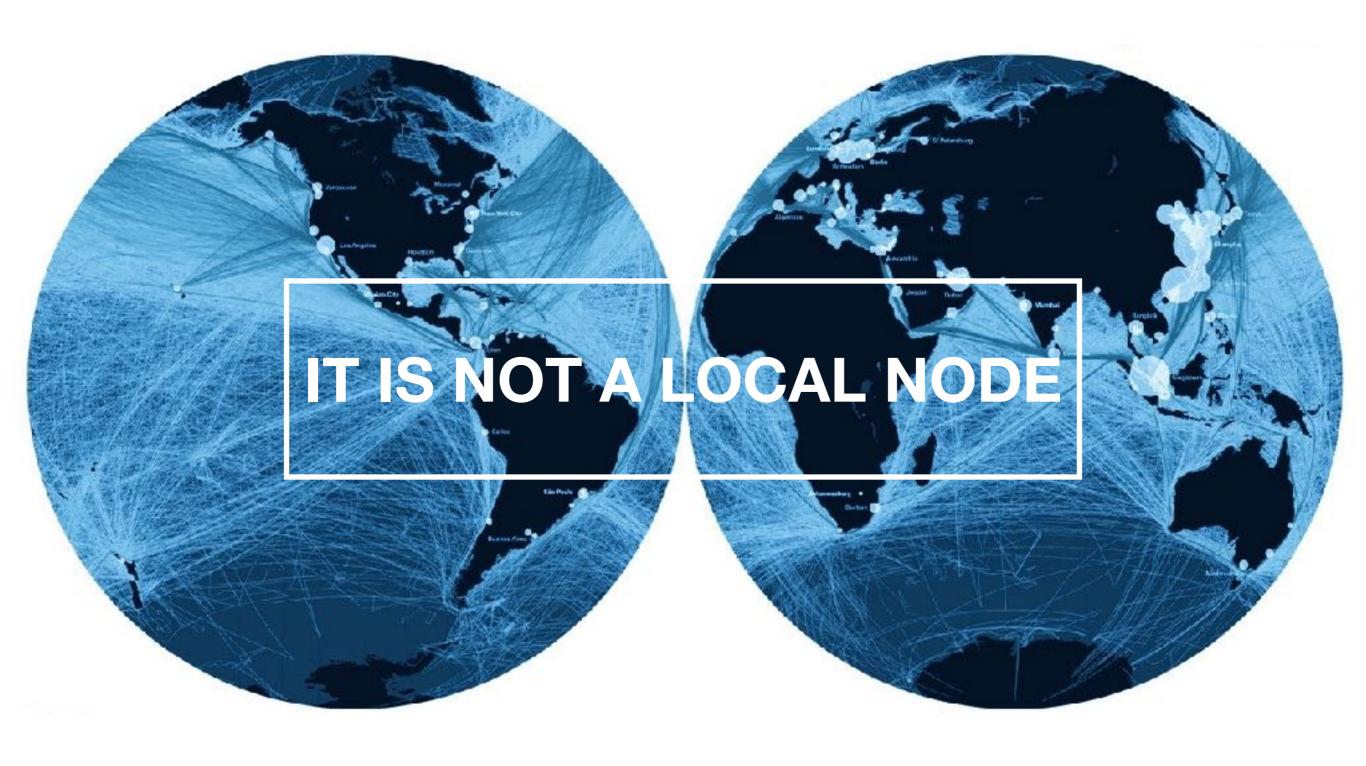






















doesn't exist a single waterfront

Four relationships for a Fluid City

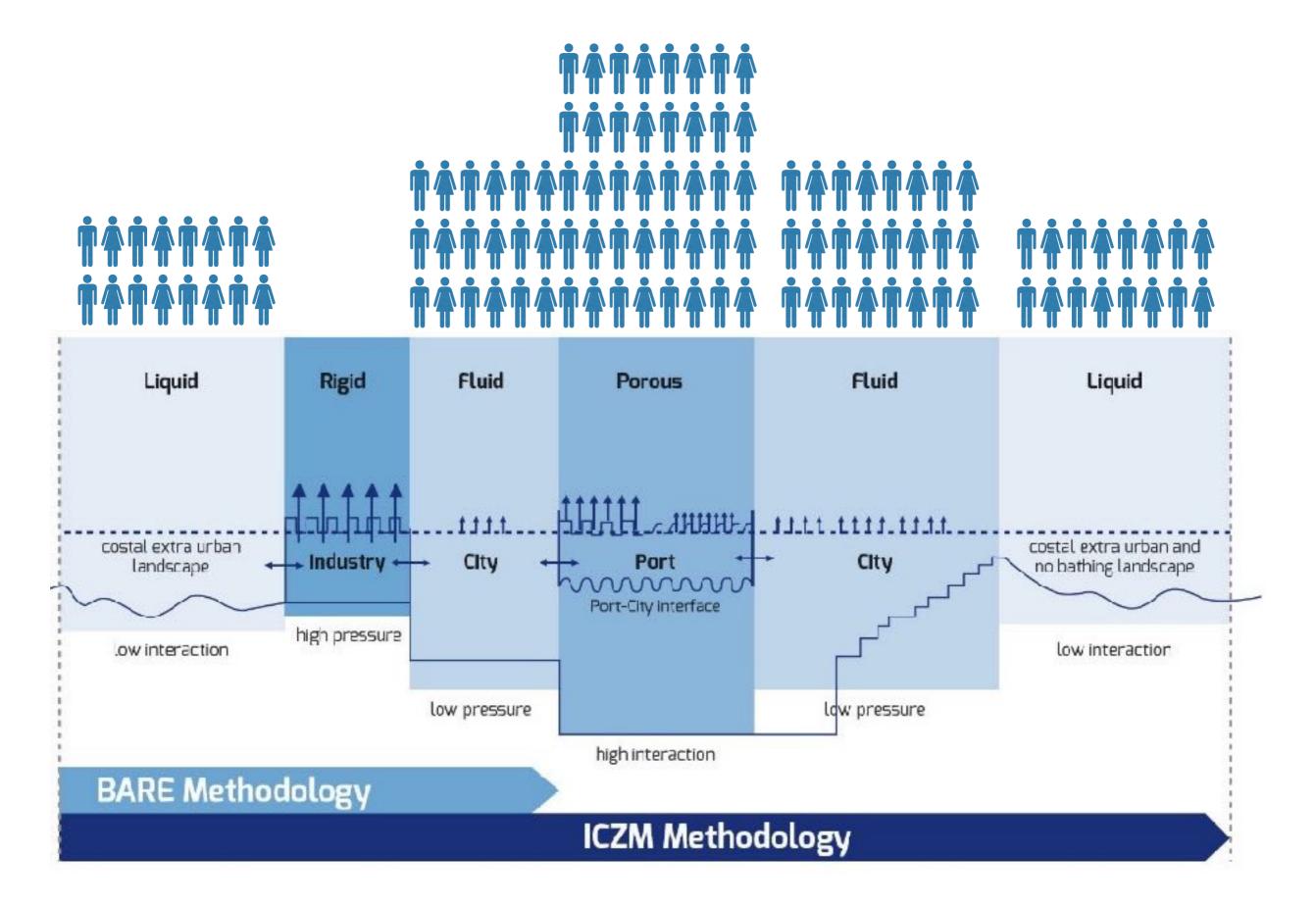
The **Fluid City Paradigm** is not only a theoretical framework but it's also a **projectual devices** for reimagining the relationships between water and city. To set up more fertile waterfront regeneration tools we have identified four main relationships between port and city in order to adapt consequential actions towards a greater fluid integration of the cities of the future.

The **liquid relationship** is characterized by the prevalence of a coastal identity represented by a landscape where the coastal nature is the mainstream of the waterfront: low interaction between sea and city.

The **fluid relationship** is associated with sailing, cultural and leisure facilities and accommodation: the fluid waterfront is immersed and intertwined with the urban structure, characterised by marinas and cultural and leisure services, and strictly connected to the city. The functions provided for this section relate to the boating, recreational and cultural activities capable of being an integrated interface between city and port: low pressure of the city on the waterfront.

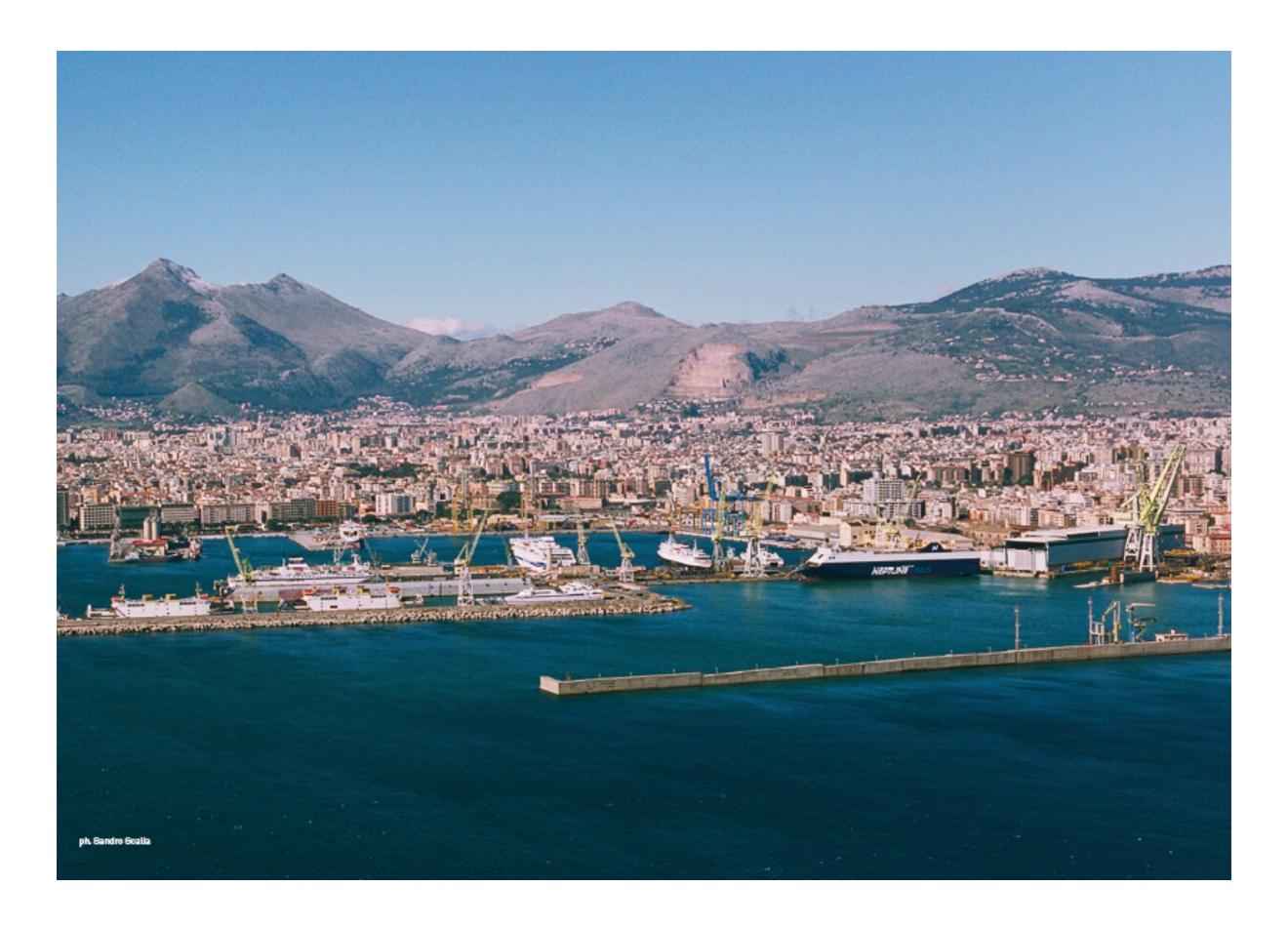
Third variant is the **porous relationship**, namely an area for cruise-ships and passengers, enjoying close ties with the city and transport system. This type of port is characterised by a large porous area in permanent transformation that acts as a link between the port activities dedicated to passengers and new cultural, residential and commercial activities related to the quality of the waterfront. **It** manifests a high degree of interaction between the port and city. The porous area between water and city is one in which the fluid metabolism of city finds its design declination through the use of resilient devices and blue infrastructures that not only make more permeable the relationship between cities and coast, but which provide new experiences depending on the amount of water in the dry season or the rainy season, even during severe flooding due to climate change.

intensity and range of waterfront relations





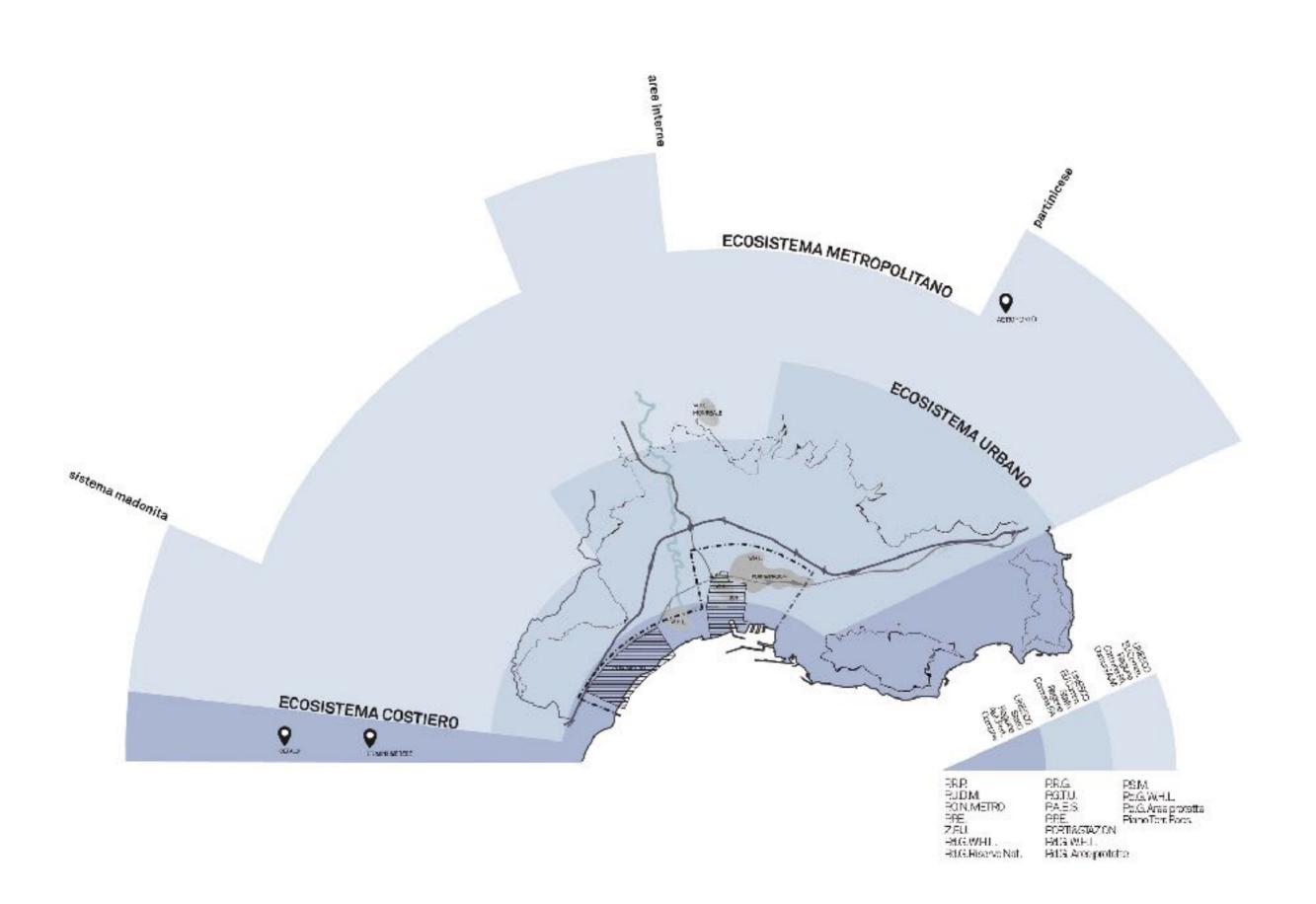








metropolitan multilevel governance



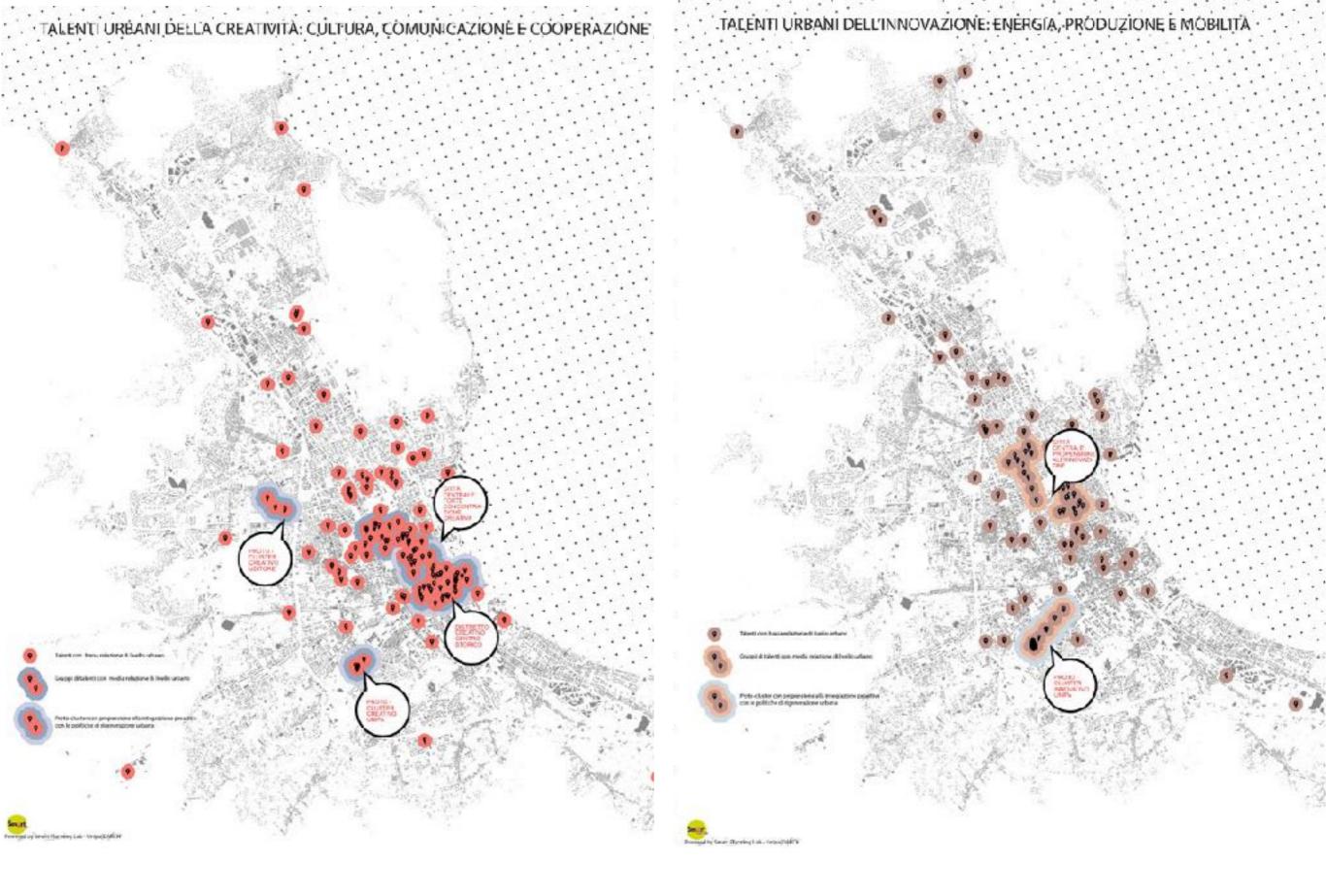
Conflict / Separation Global competition PORT MASTERPLAN Port Authority port area Infrastructural issues Local economy City / port COASTAL LAND USE PLAN Functional Port vs City Fragmentation City Council Regional Authority Public access maritime state property Urban regeneration Community empowerment CITY MASTERPLAN Landuse Urban policies City Council Urban area

from waterfront as land of conflicts to waterfront as common ground

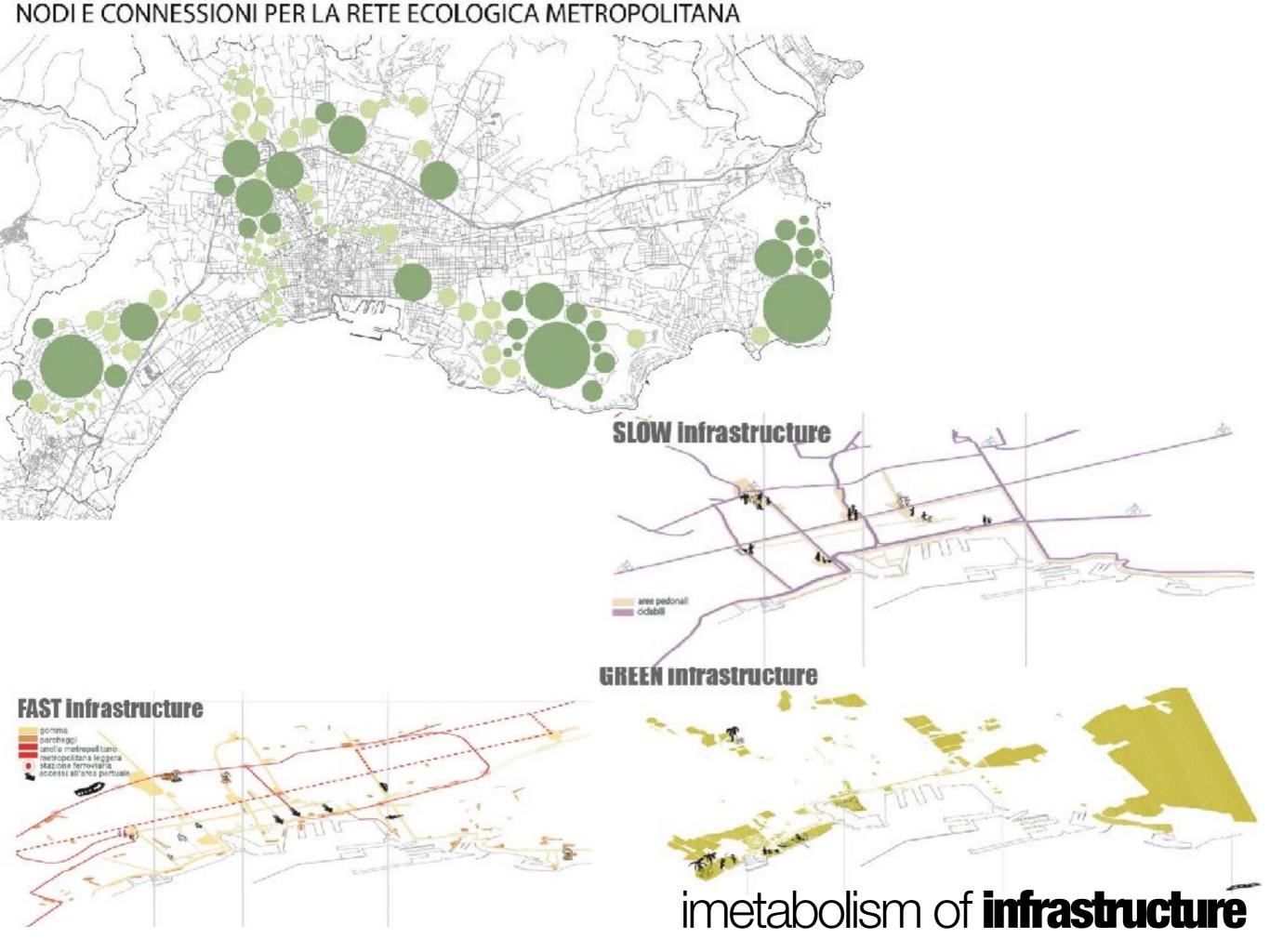
Integration / Interaction Environmental issues Global competition **New Paradigm** Urban regeneration Community empowerment Local economy **COMMON GROUND Cloud Governance Fluid City** Interactive approach Integrated project City Council Regional Authority Community Port Autority nvestors

from waterfront as land of conflicts to waterfront as common ground

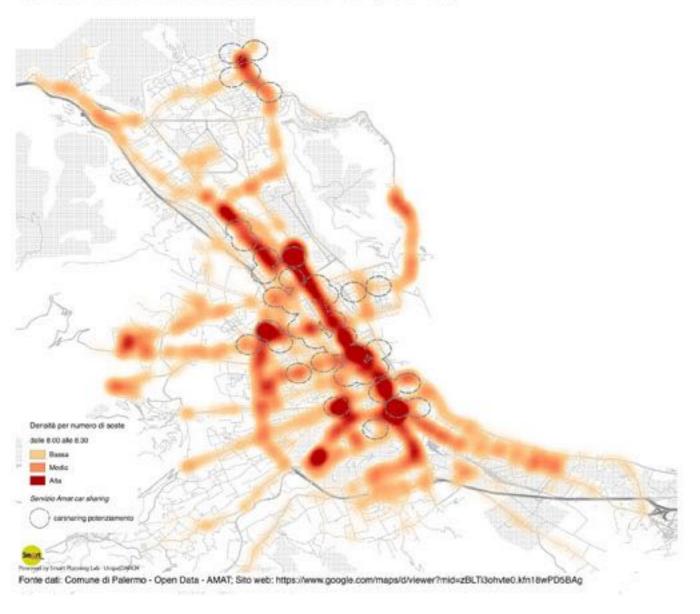
#fluidmetabolism



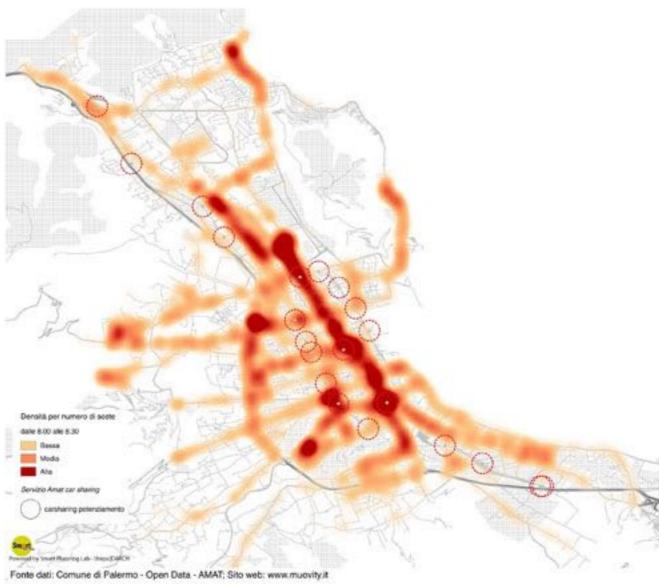
metabolism of **talents**







SCENARIO MOBILITÀ MEDIO TERMINE SOSTE TPL PROGRAMMATE NELLO SCENARIO BUS+TRAM (H. 8.00 - 8.30)



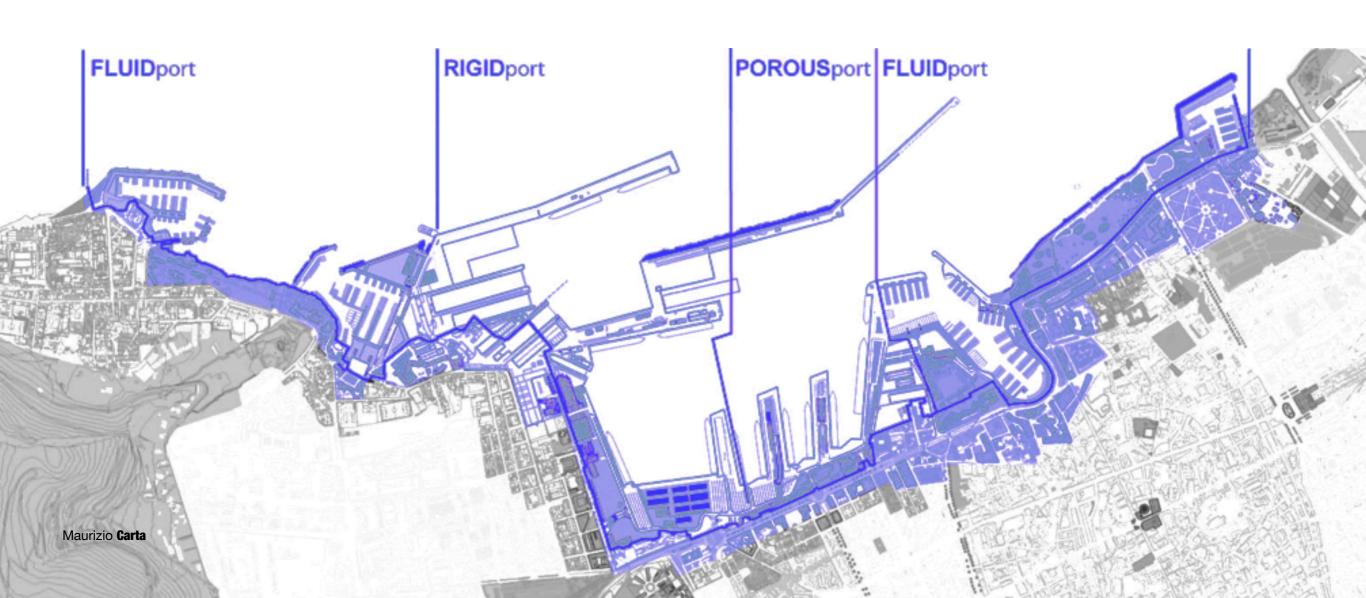
metabolism of **mobility**



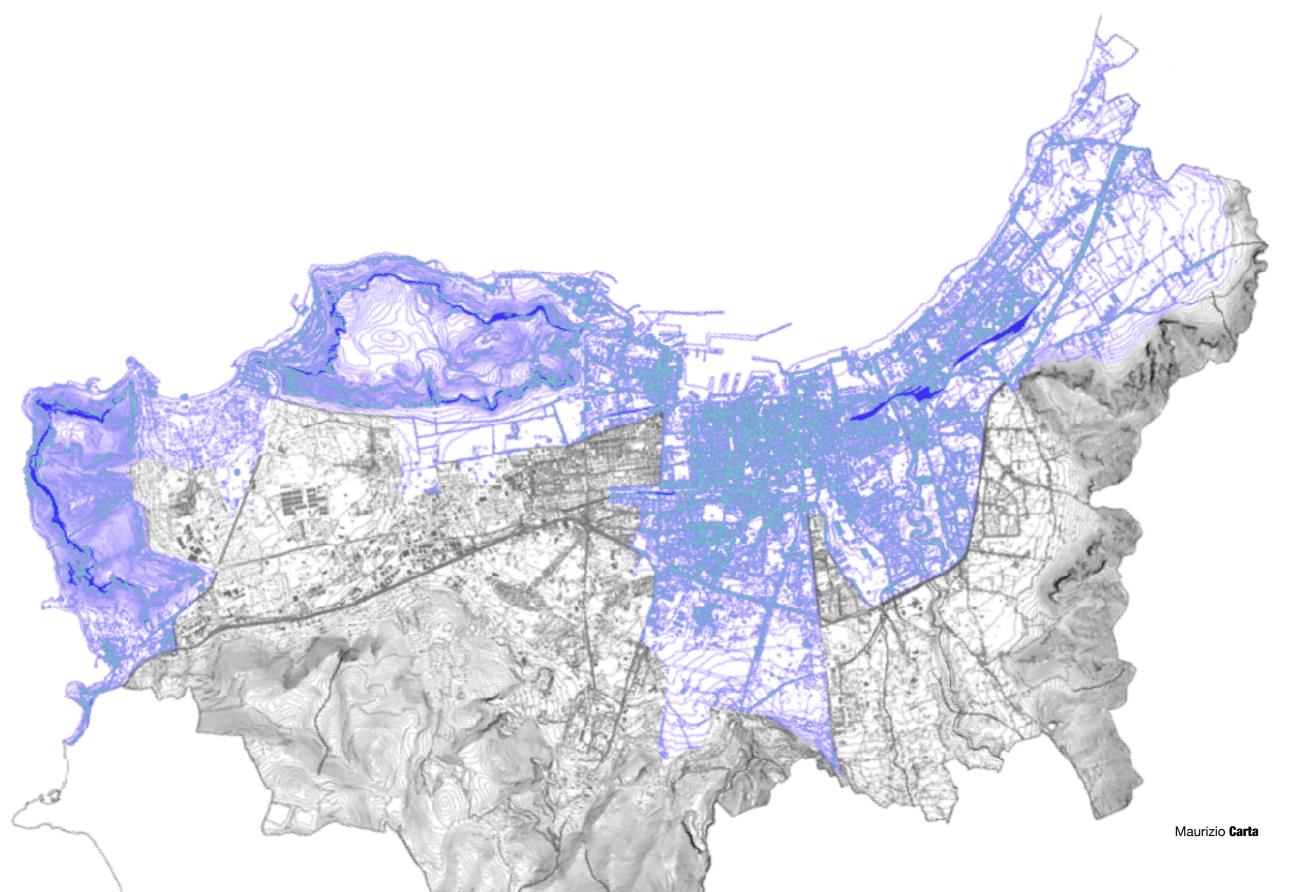


fluidpalermo

from waterfront ...



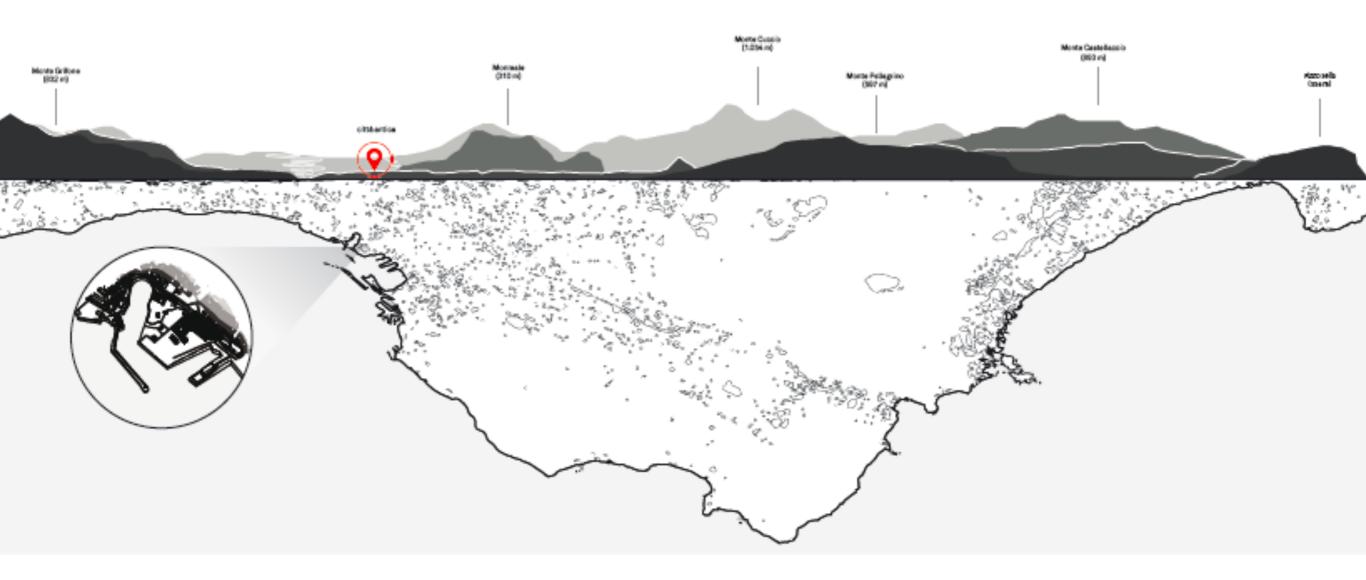
... to fluid city



IL PAESAGGIO DI CONTESTO

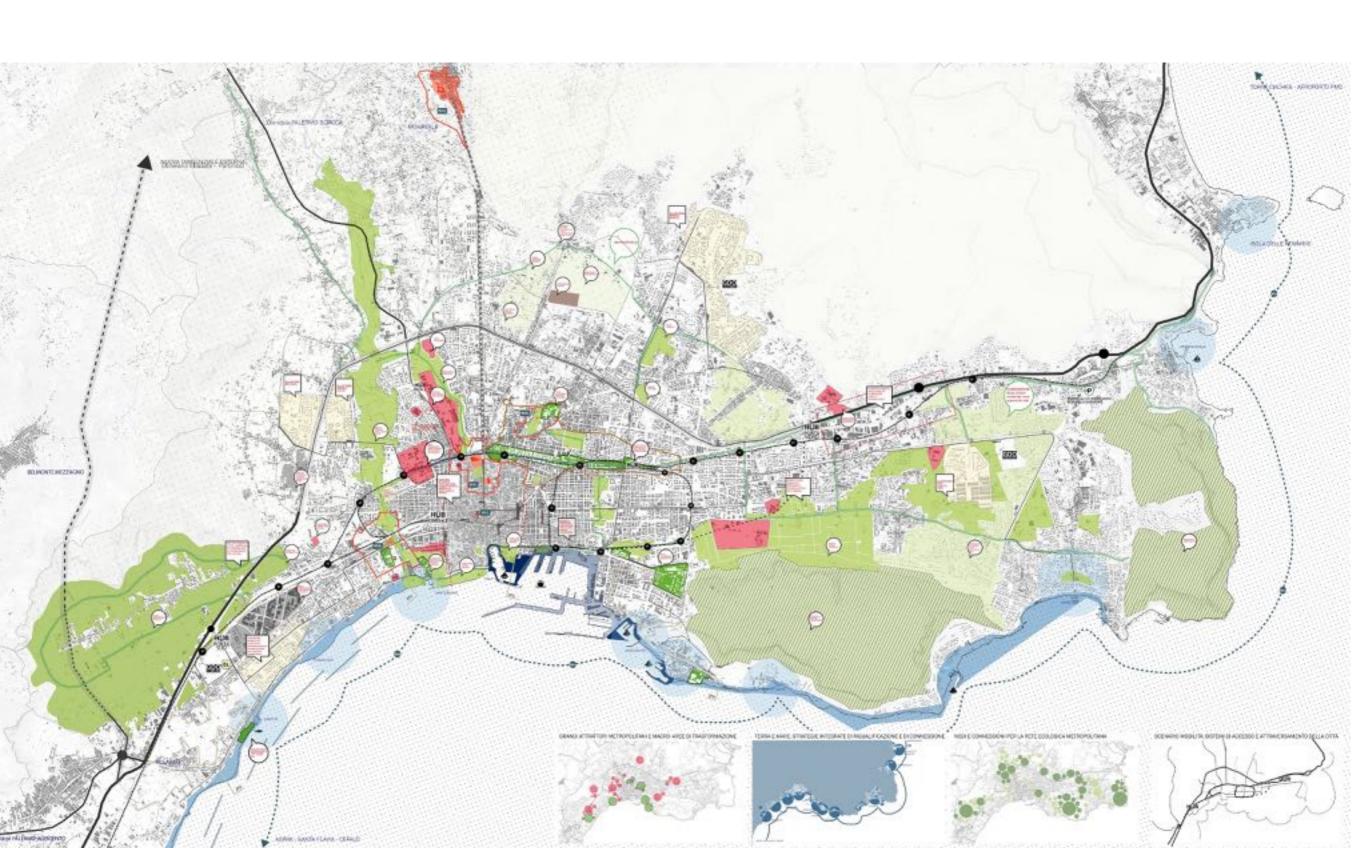
La piana su cui sorge la città è racchiusa tra mare e monti. La piana vista dal mare disvela il porto come il cuore di un articolato sistema paesaggistico.

fluid city as landscape



PALERMO METROPOL²⁰²⁵

waterfront is a key of the URBAN REGENERATION STRATEGIES





the masterplan for the new port







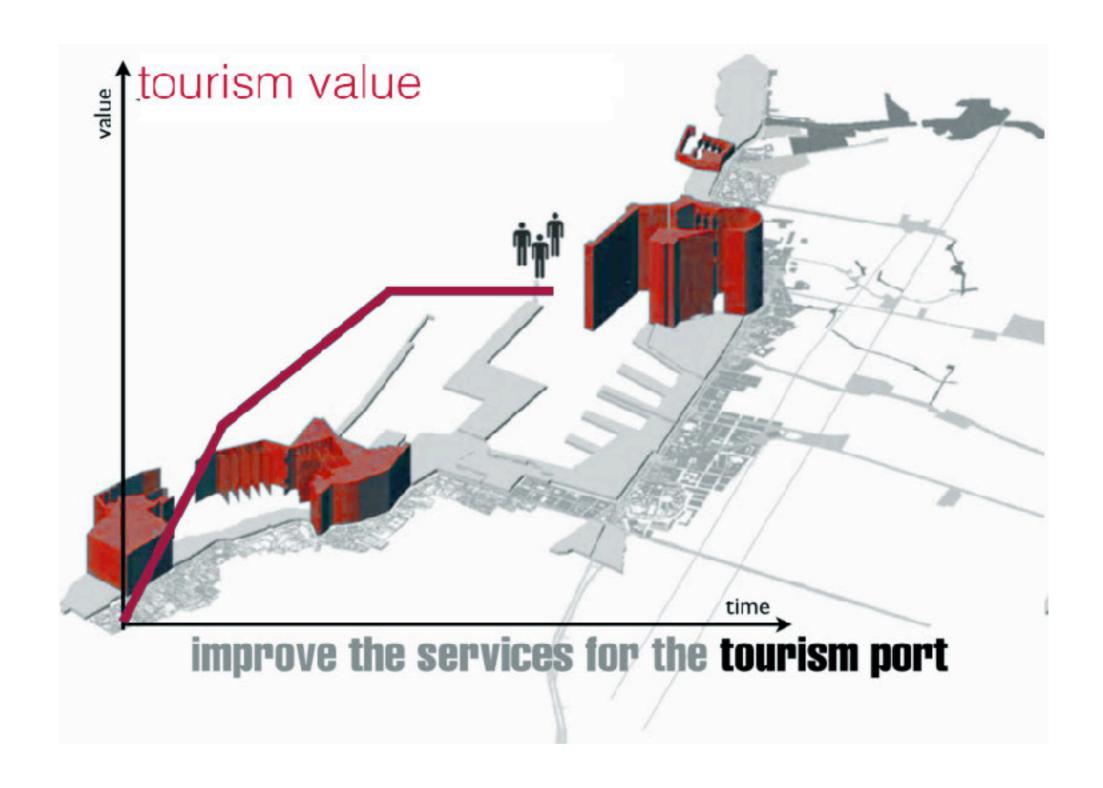






the new waterfront as multiplier of urban economies.

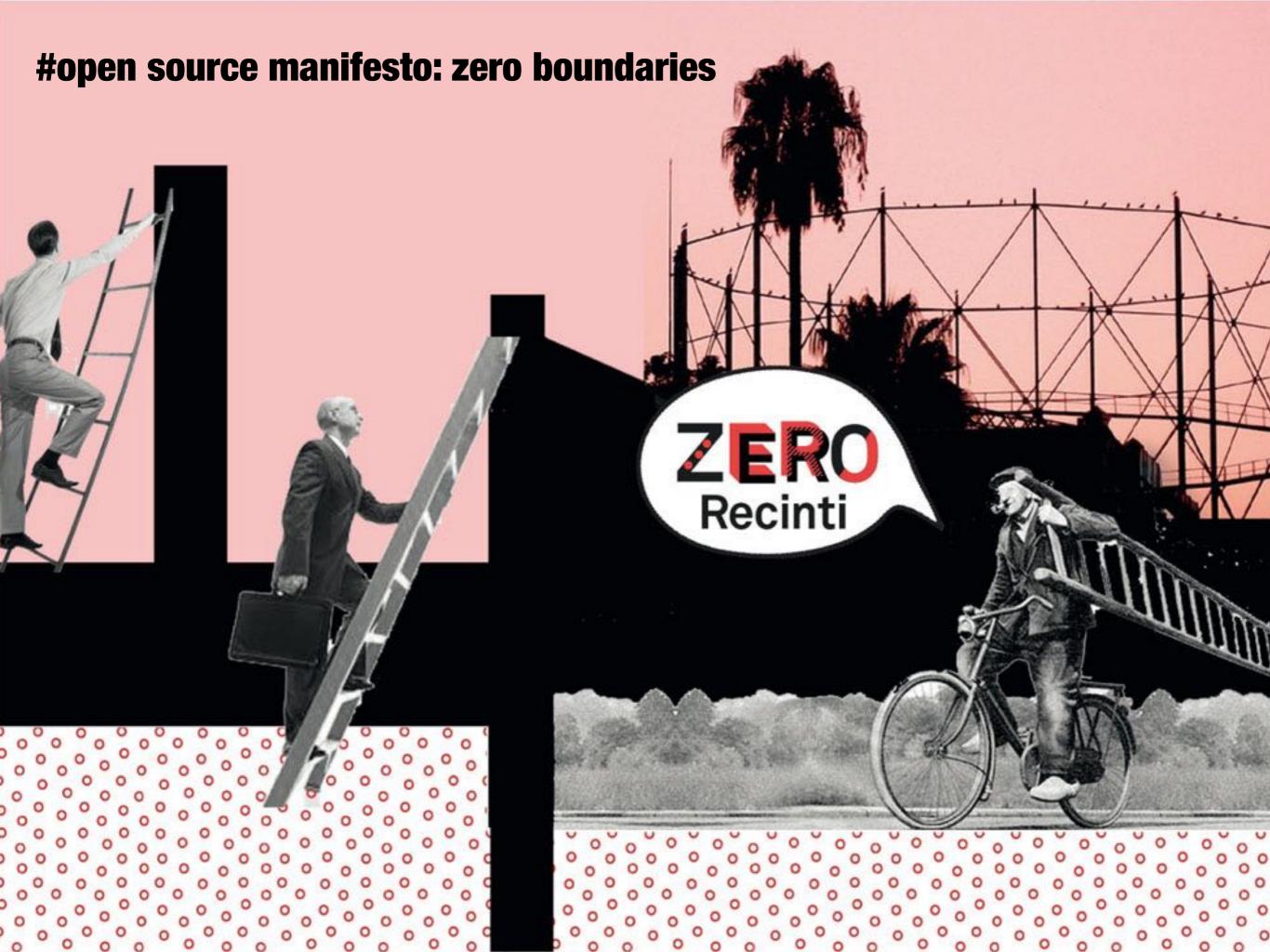




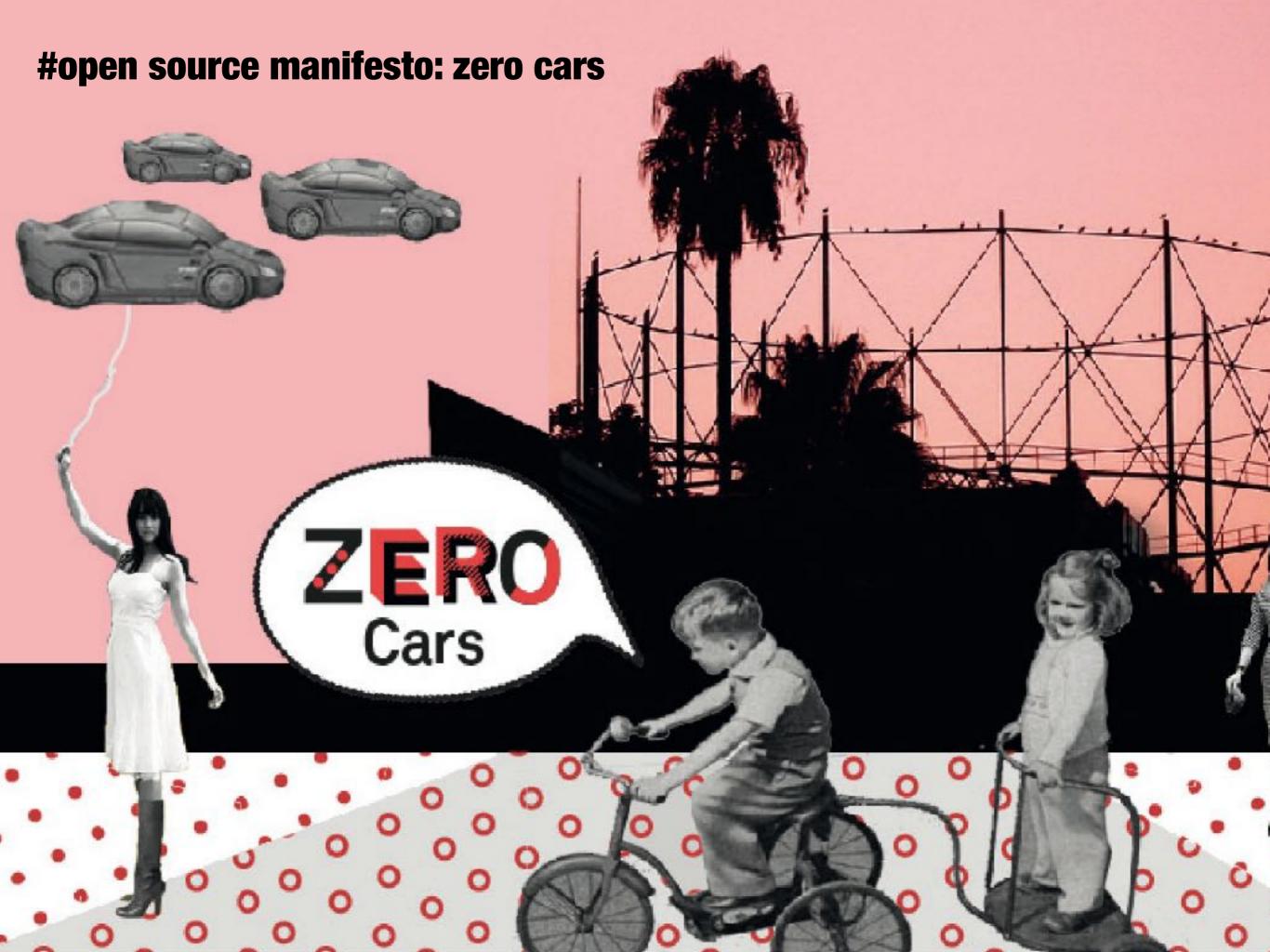














PALERMO città porto

CONCORSO INTERNAZIONALE DI IDEE PER LA PROGETTAZIONE DEI NUOVI TERMINAL CROCIERE E RO-RO E RELATIVE AREE DI INTREFACCIA CON LA CITTÀ, NELL'AMBITO DELLE PREVISIONI DEL PIANO REGOLATORE PORTUALE DEL PORTO DI PALERMO

Documento preliminare di progettazione (DPP)

Gennaio 2018

FLUID

PALERMO CITTA' PORTO

Documento preliminare per la progettazione dei terminal crociere e passeggeri del porto di Palermo

committente

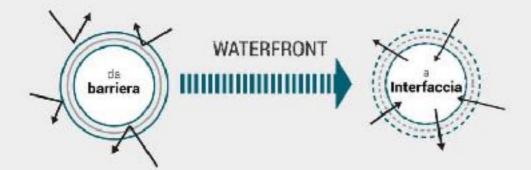
Autorità di Sistema Portuale del Mare di Sicilia Occidentale

progetto **Maurizio Cart** anno

ALLEGATO 2

Da barriera a interfaccia liquida

TERMINAL RO-RO



TERMINAL CROCIERE

FLUID

PALERMO CITTA' PORTO

Documento preliminare per la progettazione dei terminal crociere e passeggeri del porto di Palermo

committente

Autorità di Sistema Portuale del Mare di Sicilia Occidentale

> progetto **Maurizio Carta** anno 2017

INTERFACCIA CITTÁ-PORTO

STAZIONE MARITTIMA

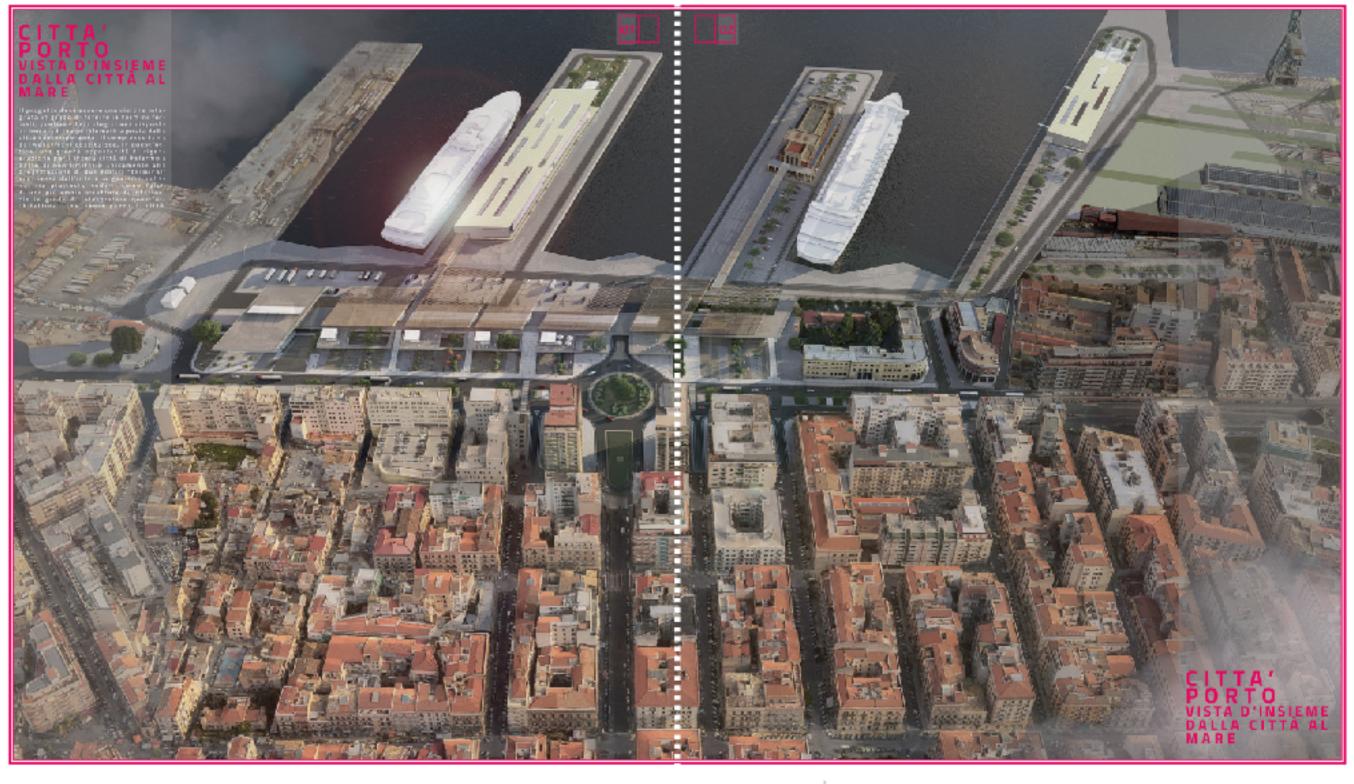
CONNETTERE TERRA E MARE, PORTARE LA CITTÀ VERSO IL PORTO

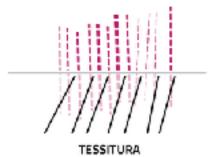










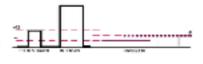


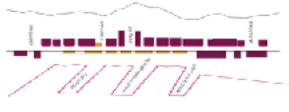


RICUCITURA









FRAMMENTI

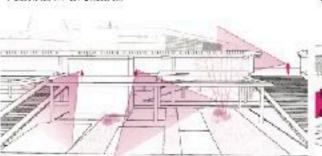
MORFOLOGIA

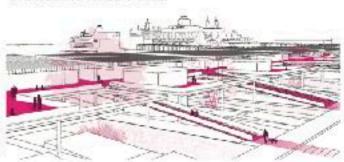
INTEGRAZIONE









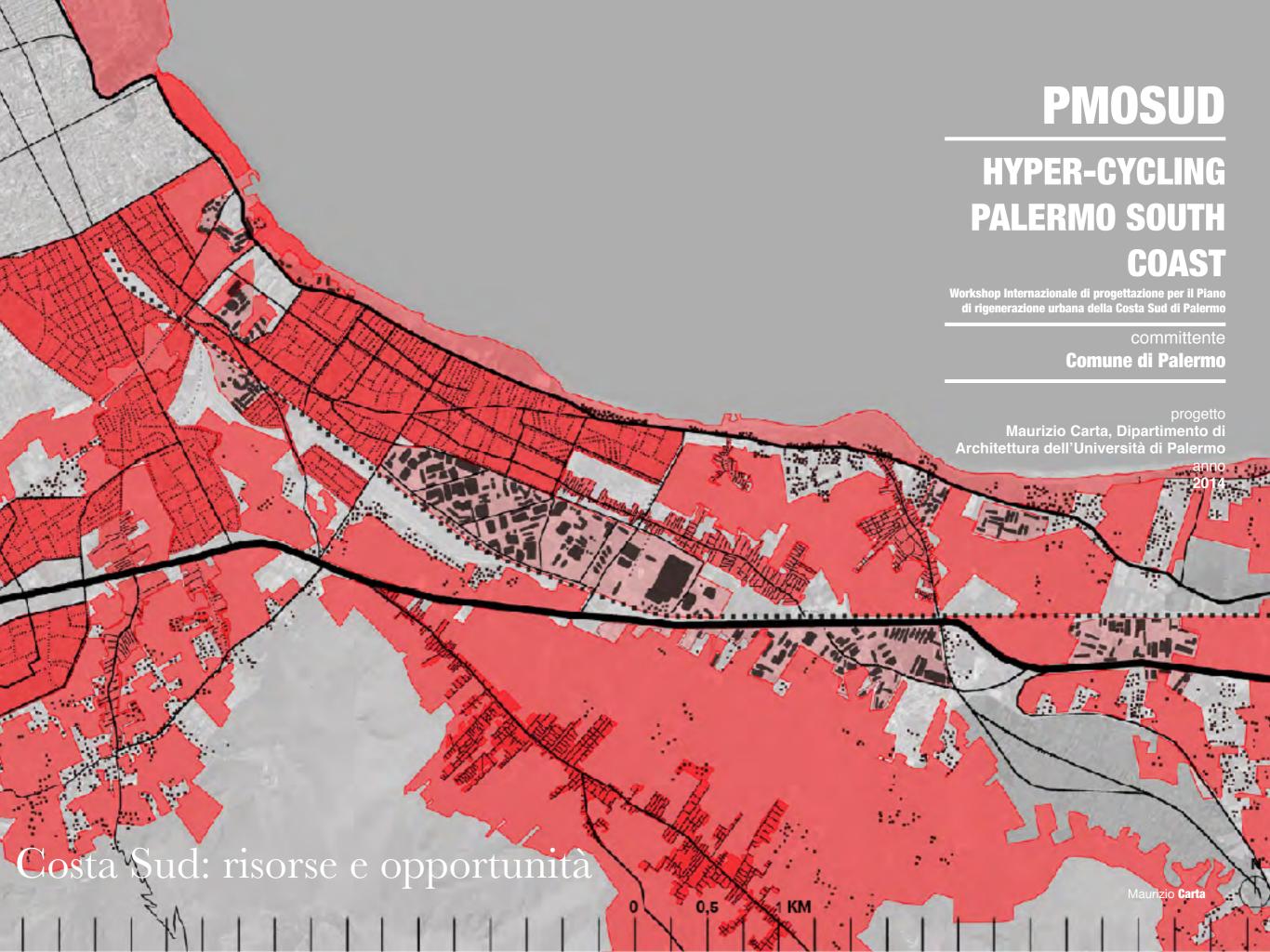


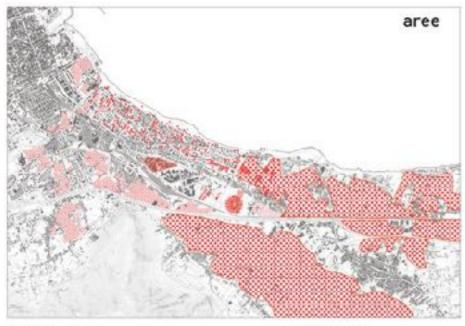




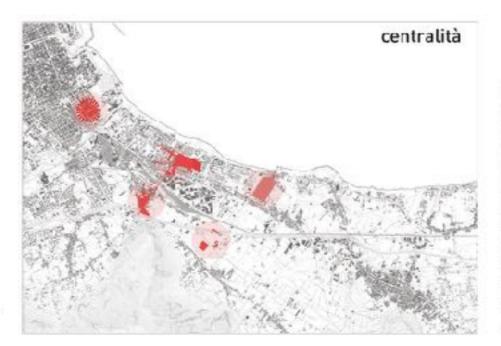




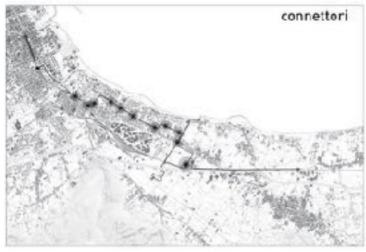




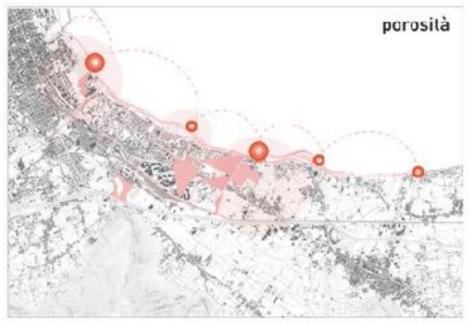
Brown Cycle/ Nuova produzione e paesaggi produttivi per la riattivazione dell'economia dei quartieri e lo stimolo dell'Innovazione sociale.



Red Cycle/ Riattivazione delle componenti culturali ed identitarie per accogliere nuovi attrattori urbani capaci di ridislocare i centri della città (Energy District, Social District, Città d'acqua, Agri/Fablab).



Grey Cycle/ Pctenz amento infrastrutturale della mobilità tranviaria come generatore di nuove nodalità.

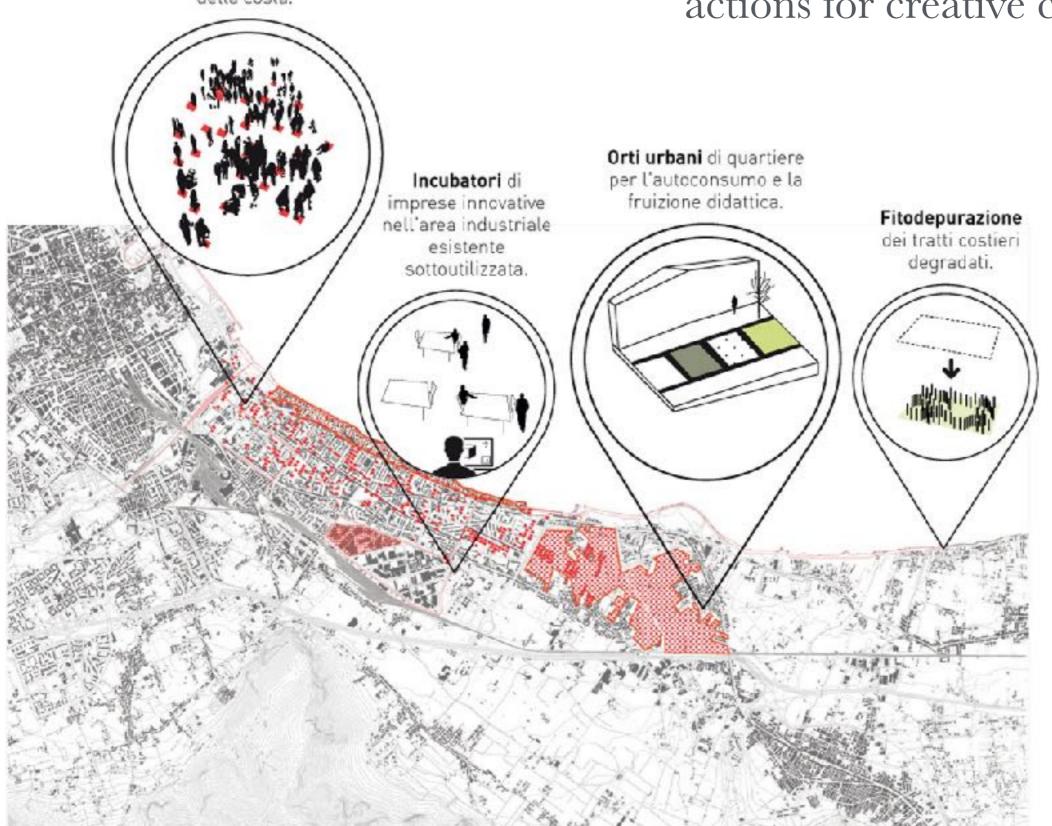


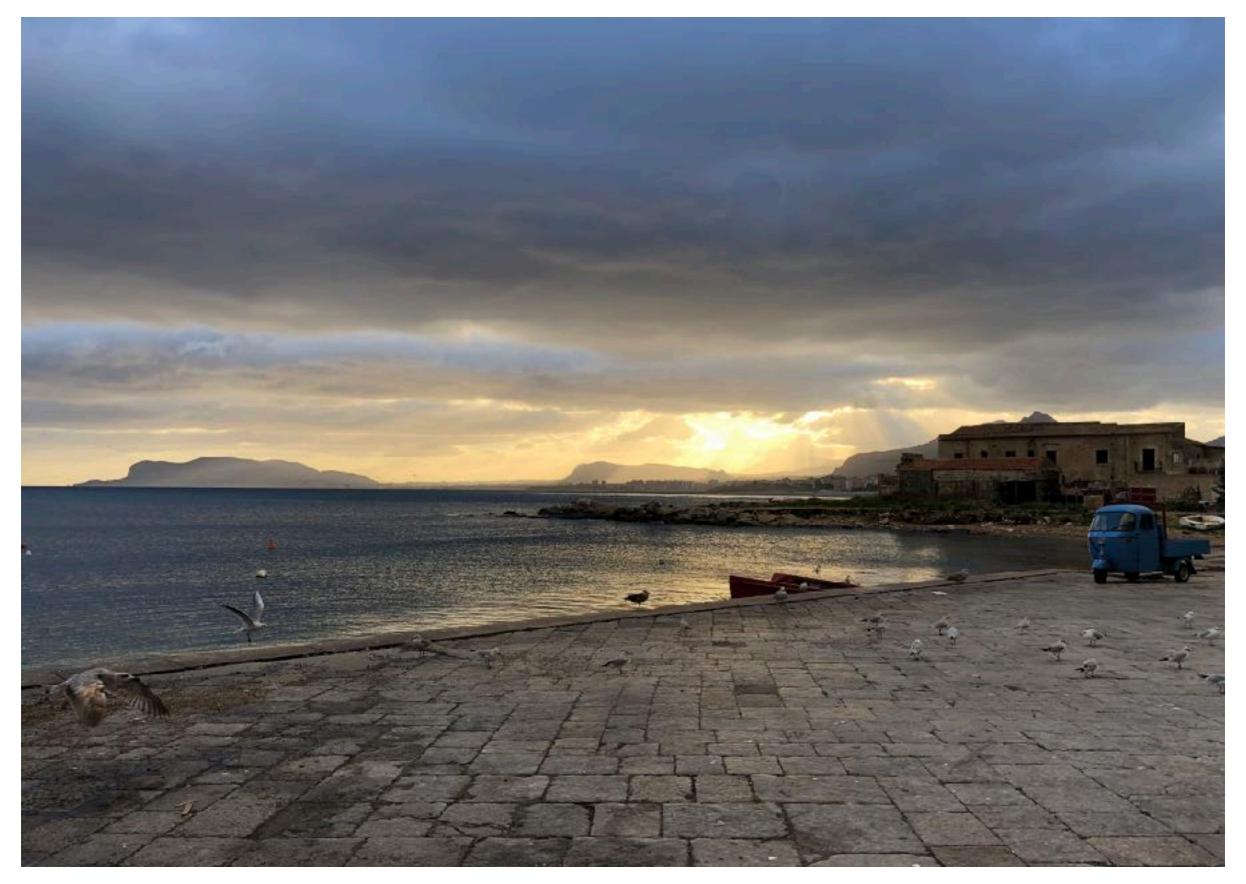
Blue Cycle/ Riattivazione delle connessioni fluide costatessuti urbani e potenziamento della porosità.

densifying without consuming, connecting by porous interfaces, fluidity as ecosystem strategy.

Agopuntura urbana, spazi adattivi, cantieri leggeri per attrezzature per la fruizione della costa.

Cityforming Protocol actions for creative colonization





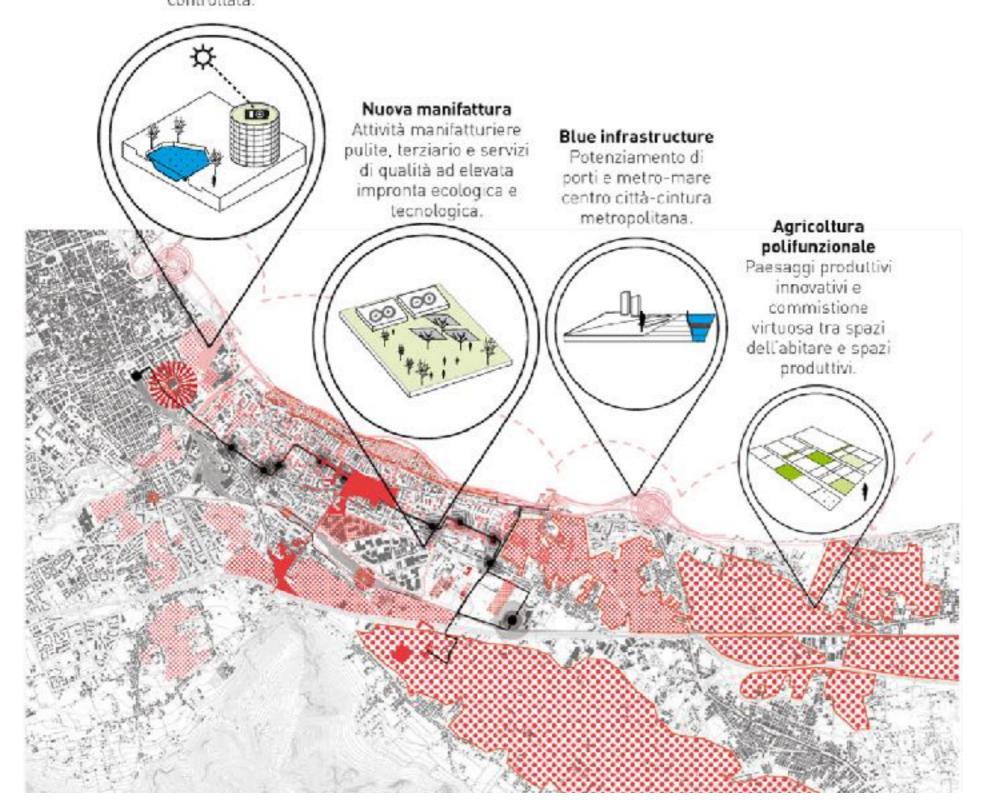
Maurizio Carta

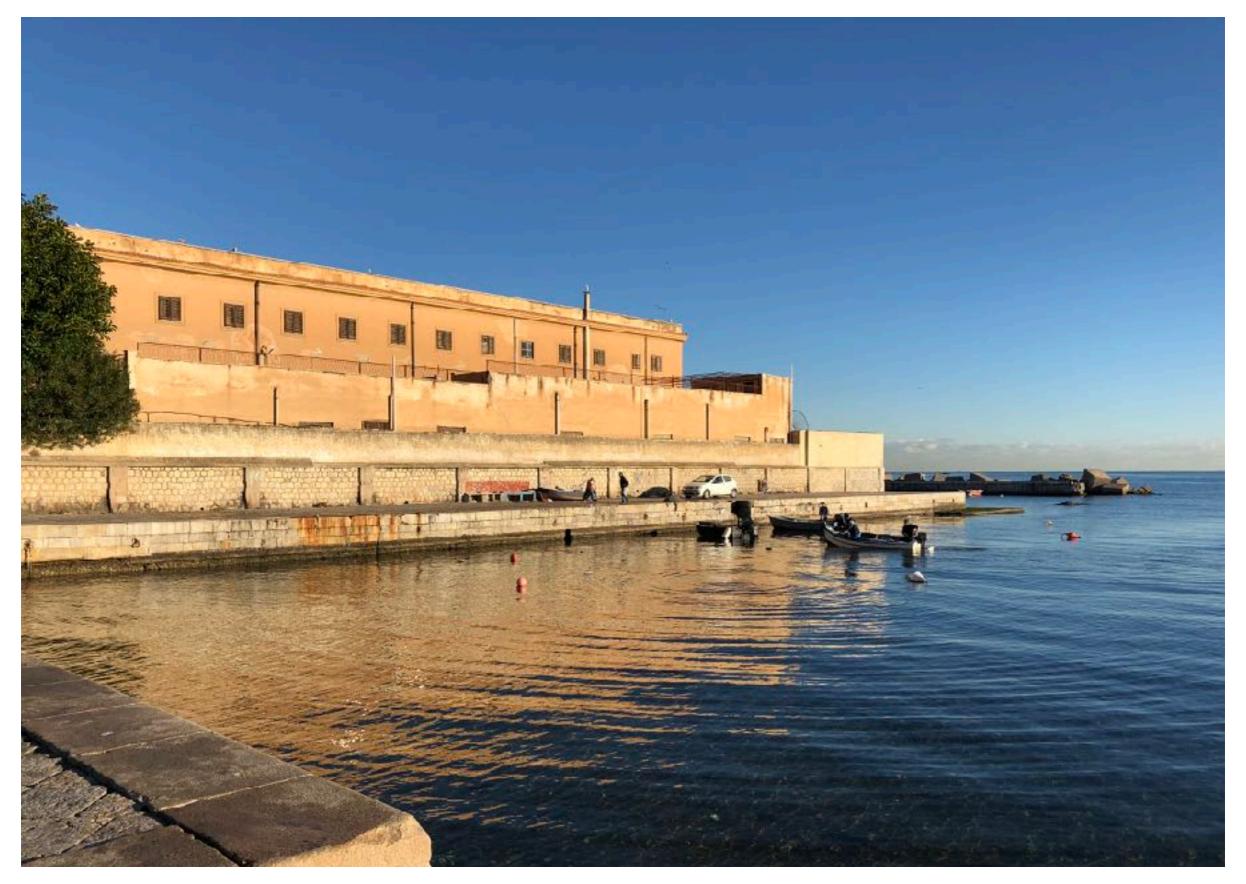
Energy district

Riconversione ex Gasometro, rinaturalizzazione e aree di esondazione controllata.

Cityforming Protocol

actions for sustainable consolidation



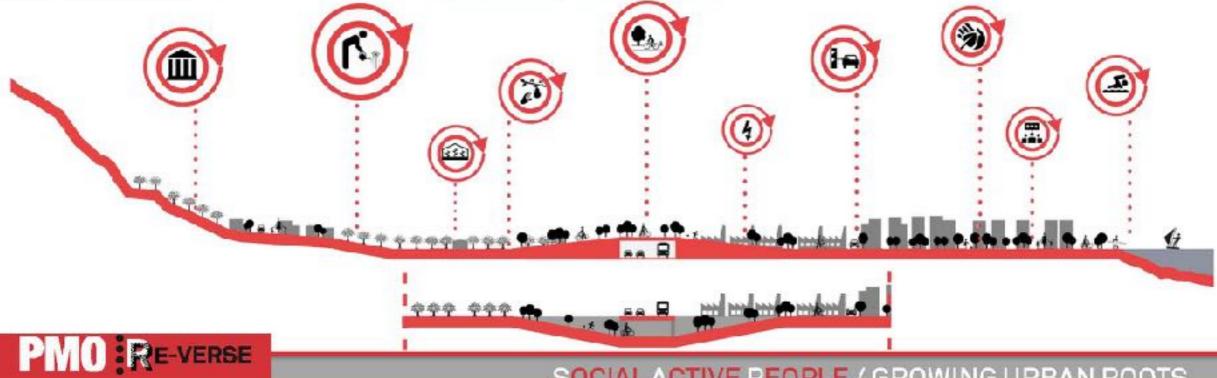


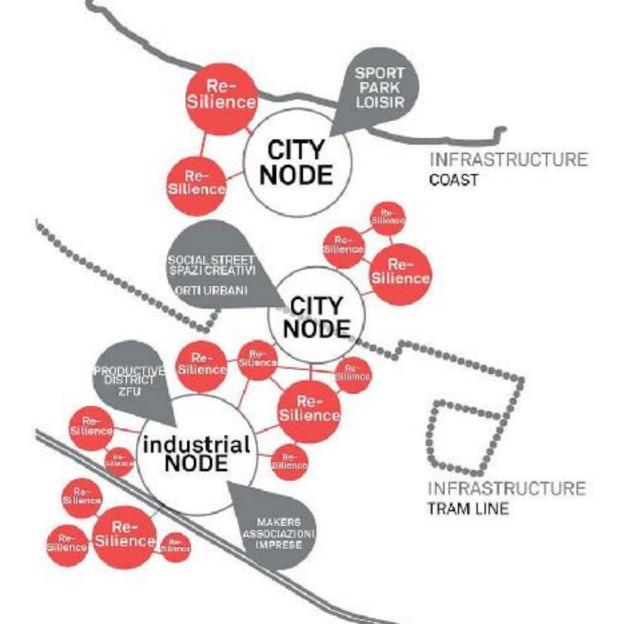






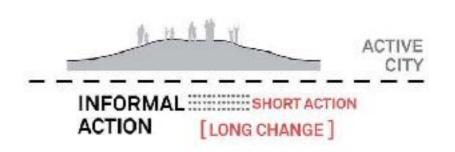
SOCIAL ACTIVE PEOPLE / GROWING URBAN ROOTS

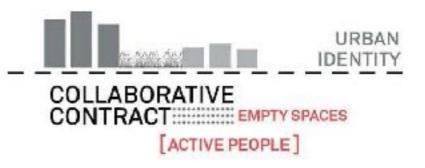




INFRASTRUCTURE

RAILWAY



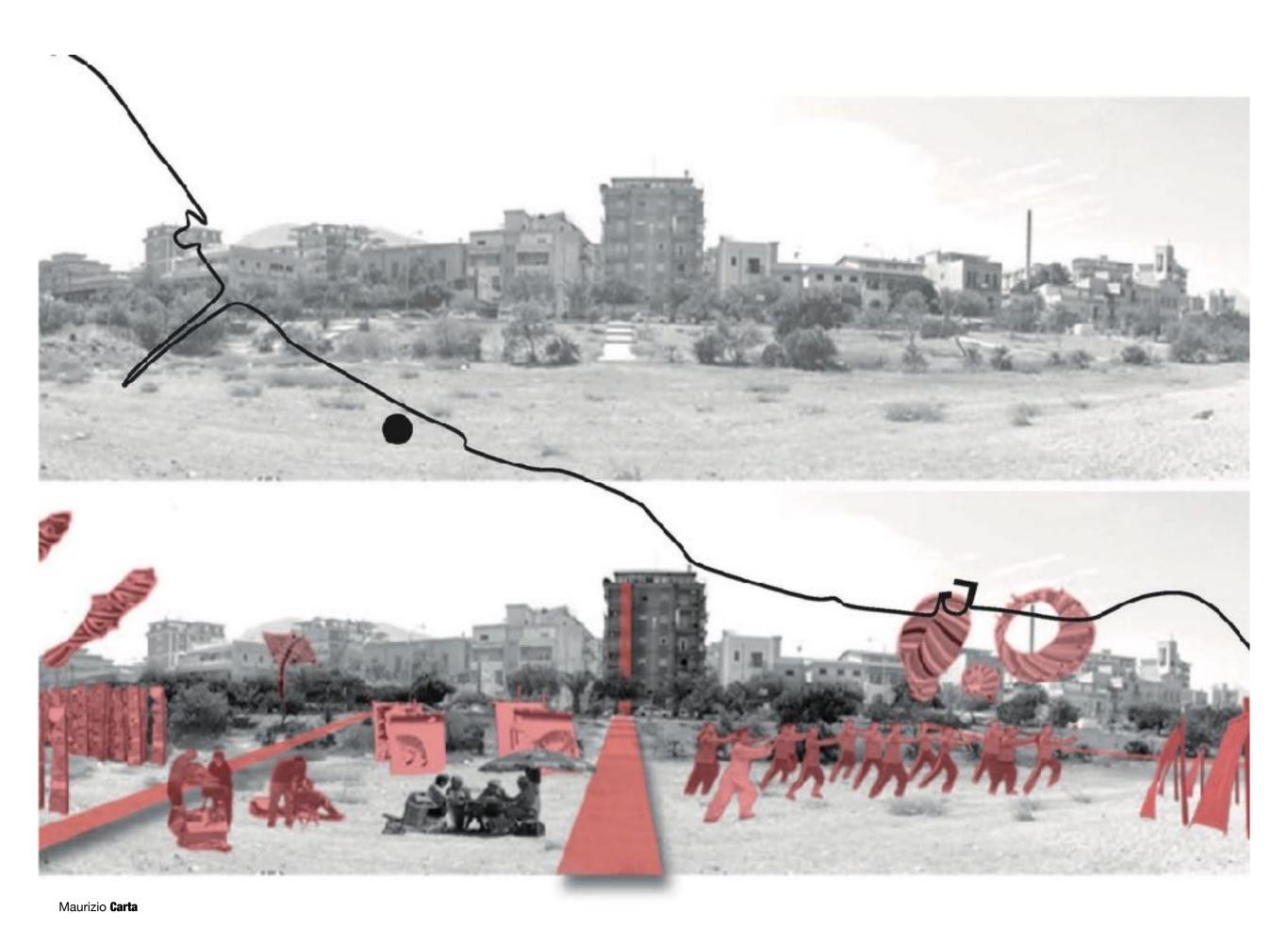


SOCIAL MAKERS URBAN MAKERS IMPRESE

COMMUNITY

PRODUCTIVE DISTRICT SOCIAL MAKERS COMMUNITY

ZFU 9 MLN € 100 DOMANDE DI IMPRESA [0 LUOGHI]

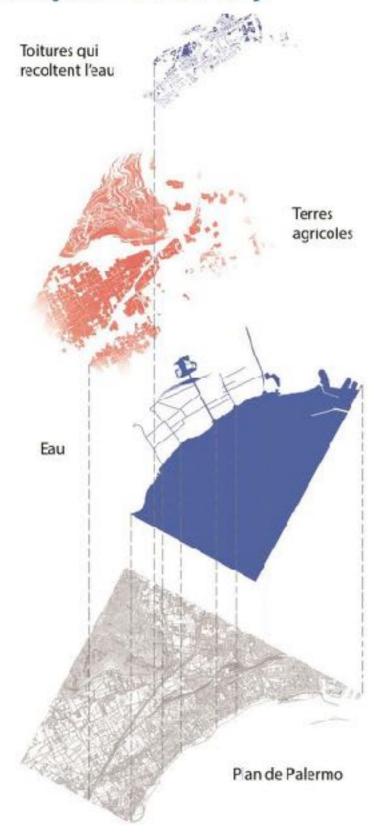


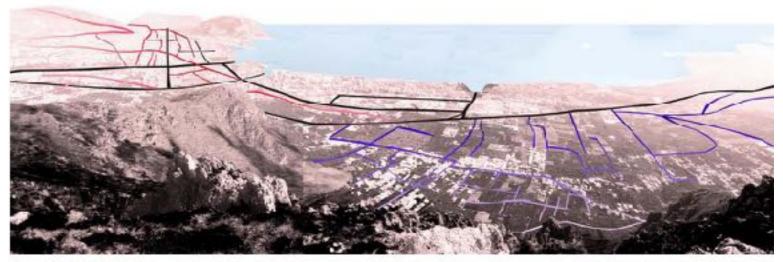
BlueCycle

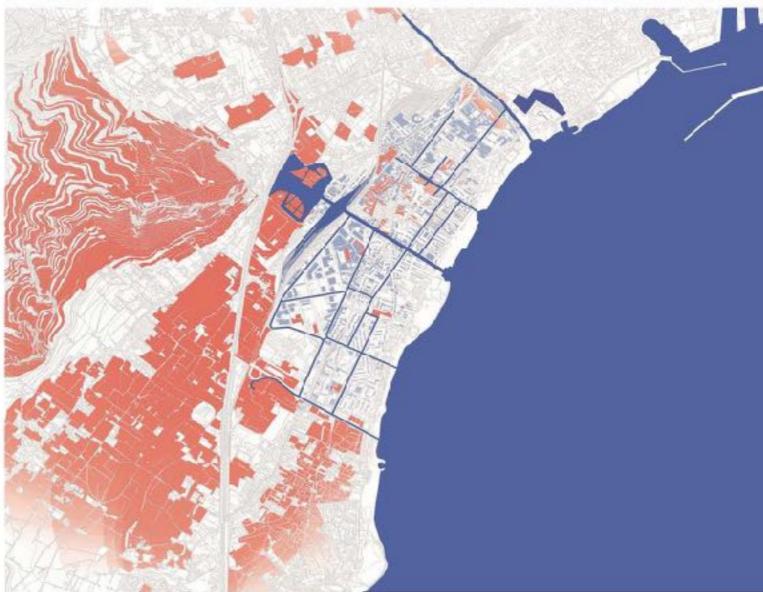
L'exploitation des ressources permet la réactivation des cycles vitales et la régénération de la ville dans un processus écologique et dans un nouveau métabolisme urbain qui tend à créer un waterfront interne à Palerme.



BlueCycle • Fluid City







BlueCycle • Fluid City

