Genova: the path towards 2030 and 2050

Urban regeneration, climate proofing and sustainability

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Deputy Mayor Architect Simonetta Cenci
Genoa’s Path Towards Climate Resilience

- Capital city of the Liguria Region
- Surface: 243sqkm
- Population: 582,000
- 65 river basin in urban area
- Coastal line of 30km
- City stretch along the coast between the Apennine Mountains and the Ligurian Sea
Current situation, expected to worse in the next mid-long-term period
HYDROGRAPHIC NETWORK
65 river basin
235km in urban area

The largest share of this network, 151 km crosses the city area in covered conduits built over several centuries and different urbanization stages.

Inside the urban fabric, in the perifluvial areas at risk of flooding with different return periods live nearly 150,000 inhabitants.

A number of these areas, which correspond to the most heavily urbanized part of the territory, are frequented – for reason of work, study, leisure and access to services - by a large part of the population living in the larger Metropolitan area

RAIN EVENT >180mm/3h per YEAR (1935-2014)
01 Awareness of all possible scenarios in regards of global trends

02 Investment in capacity building to face the challenges they bring

03 Collect and analyse actual interventions/actions to reshape the city, anticipating future impacts/effects

04 Take robust decision to strengthen the economic, social and environmental tissue
Genoa’s path: learning from the past, studying the future and prepare, anticipate, prevent, transform challenge into opportunities.

Building the FUTURE with engaged citizens contribute to a city’s sustainability by helping identify risks and contributing ideas and solutions to address city issues.
GENOA’S PATH TOWARDS URBAN REGENERATION, CLIMATE PROOFING AND SUSTAINABILITY - Strategic planning framework

**3 Drivers of change**

01. Climate

02. Demographic

03. Digital Transition

**3 Assets**

01. Innovative Development of Infrastructures

02. Urban Regeneration

03. Community Enterprise

**3 Goals**

01. Innovation

02. Anticipation

03. Strengthening
<table>
<thead>
<tr>
<th>Asset</th>
<th>Theme</th>
<th>Focus</th>
<th>Actions</th>
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<tr>
<td>GREY</td>
<td>Innovative Development of Infrastructures</td>
<td>avant guard fruition of the territory</td>
<td>UNESCO SENTINEL GENOVA PREVIEW</td>
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<td></td>
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<td>optimize and renew the infrastructures</td>
<td>CLOUDBURST</td>
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<td>GREEN</td>
<td>Urban Regeneration</td>
<td>regenerate the urban fabric</td>
<td>REGENERAction</td>
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<td>create multifunctional connections</td>
<td>CLEAN AIR</td>
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<td>investments on knowledge, innovative training, soft skills</td>
<td>ONE-STOP-SHOP ACADEMY RESPONSIVE</td>
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<td>SOFT</td>
<td>Community Enterprise</td>
<td>enhance the city ecosystem governance</td>
<td>RIV.ECO POWER ON DYNAMIC CONTROL</td>
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Strategic projects to foster climate proofing and sustainability

East Waterfront and the «Bridge Park»
Urban Regeneration – Bridge Park and East Waterfront, from challenges to opportunities
East Waterfront
GENOAS PATH TOWARDS URBAN REGENERATION, CLIMATE PROOFING AND SUSTAINABILITY - Strategic Projects
EAST WATERFRONT
THE RESTART OF THE PROJECT

September 2017
new draw of the Waterfront

March 2018
CALL FOR PROJECT Mipim Cannes

August 2018
Sport Palace facility sold

2020_2021
Global acquisition proposal
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VISION

The second major project is underway. It will relaunch the former Silos Granai building, creating new services and reshape the functionalities in the area of R&I in addition to those of the Porto Antico, fostering an additional pole of interest.

KEY OPPORTUNITIES:

The project aims at the reconversion of the building and the redevelopment of the surrounding context balancing conservation and reconstruction.

SECTORS:

Tourism
Residential
Labour
Shops
Public services
THE «BRIDGE PARK»
14 August 2018 – Morandi Bridge collapse

April 2019 International design competition for the regeneration Masterplan of the "Polcevera Quadrant" and the new urban park, called “The Bridge Park”

September 2019 - winning project: Boeri studio
Selection of the winning project for the new Masterplan: Polcevera Park and the Red Circle by the team Boeri,Metrogramma, Blaise
The Municipality of Genoa identifies the area under the new Bridge as a **territorially defined area** of intervention on which to concentrate a significant portion of the envisaged investment through an **integrated approach**.

The selected district becomes a sort of “**experimental place**” of what is happening in parallel in a more widespread way in the territory of the city and of the metropolitan city as a whole.

**Masterplan as a territorial infrastructural project**
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[Images of projects related to urban regeneration and sustainability]
Rainwater reuse and run-off slowdown

Erosion prevention and slowing down of washout
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The Polcevera park as a resilient hydraulic system

1. Parco dell’acqua
2. Fun Park
3. Giardino Mediterraneo
4. Giardino delle esposizioni
5. Riverfront Ovest
6. Giardino del Polcevera
7. Riverfront Est
8. “Genova nel bosco”
9. Parco comunitario
10. Terrazza panoramica
11. Parco dello sport
1. New buildings affected by the energy system: production of electrical and thermal energy through photovoltaic panels and solar panels

2. Distribution of electricity, thermal energy

3. Wind Tower: production of electric energy with wind turbines and storage of thermal energy

The Red Energy Circle

4. Gasometer: storage of hydrogen and production of electricity, thermal energy and hydrogen
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A new sustainable and integrated mobility

Functional program
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Challenge and opportunities while implementing the Istanbul Award

**Challenge**
- Retrieving and calculating data using the framework of Indicators

**Opportunities**
- Agile documentation
- User-friendly manual
- Data/Experience driven approach
Thank you