

Follower City Cascais :: Urban Regeneration Area

proGReg Follower City CASCAIS

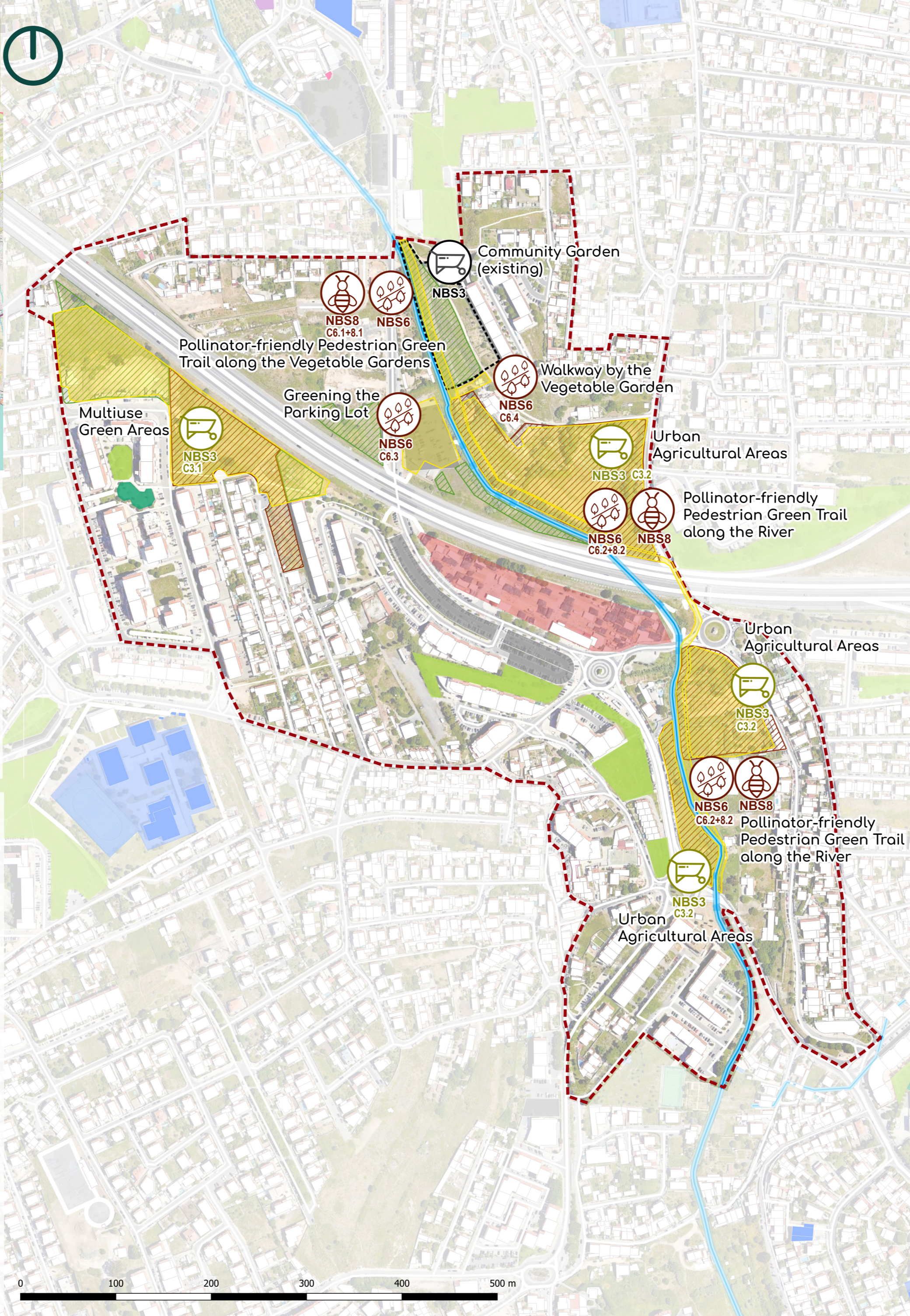
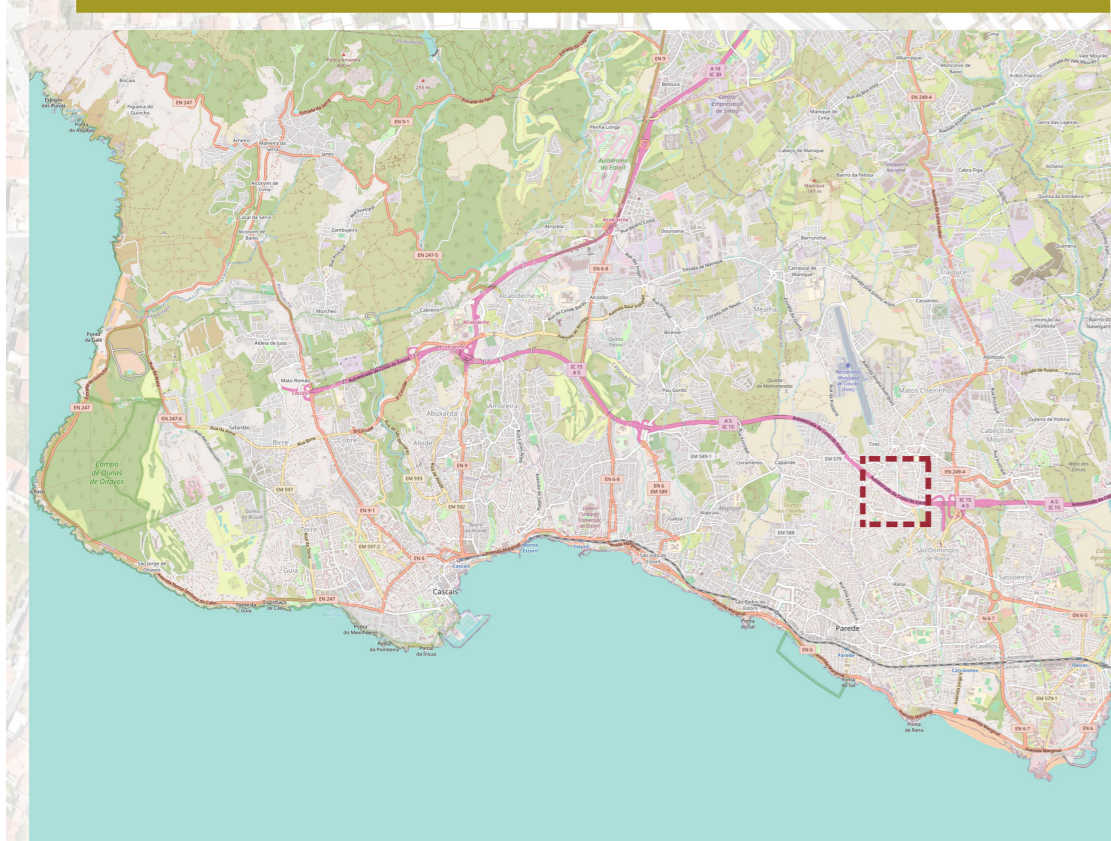
INFO about the city
Population: 214 158 inh. (2021)
Surface area: 97 km²
Density: 2,120 inh./km²
Average elevation: min. 0 to max. 475m
Climate: Csa - Hot summer Mediterranean
Average winter: 8.1-11.7 degree C
Average summer: 14.9-24.8 degree C

INFO about the URA
Population: 2 434 inh. (2021)
Surface area: 0.42 km²
Density: 5,568 inh./km²
Objective: Upgrade unused and neglected terrain to productive GI with social and economic benefits.

Statistic info source: Leopoldo, S., Elisei, P. et al. (2019). Spatial Analysis in Front-Runner and Follower Cities. Deliverable No. 2.2, proGReg, Horizon 2020 Grant Agreement No. 776528, European Commission. source: www.openstreetmap.org



CASCAIS URBAN PLAN for implementation of NBS



Pollinator friendly green trail along river (C6.2+8.2)
The intervention implies the conversion of the river corridor into an ecological and green pedestrian pathway, ensuring residents connection with Nature

Greening the parking lot (C6.3)
The project plans the transformation of the 3100 sqm parking lot with added greenery, shading and additional pervious surfaces.

Walkway by the vegetable garden (C6.4)
The aim is to create a direct walkway to facilitate access to the community garden and to the blue-green corridor. Requirements: comfortable design, environmentally adequate, safe.

Community Garden - existing
FC Cascais has relevant experience of creating community gardens for over a decade. Regeneration strategies are being developed in neighbourhoods with already established community garden. The strategy's objective is to unlock the potential for additional plots while enhancing the impact of the existing garden by improving the connection to the river corridors and the Southern neighbourhood.

Total project area: 11 300 m²
Vegetable garden area (37 plots): 2 800 m²
Orchard area: 970 m² (72 fruit trees)
Green area: 680 m²
No of users: 46:37 for community garden, 9 for community orchard
Type of crops: Organic seasonal vegetables and fruit.
The garden maintenance is ensured by the horticulturists in common areas and cultivation plots. The slopes and outside of the garden are the responsibility of Cascais Ambiente green spaces maintenance teams. Terras de Cascais team manage and supervise the horticulturists to ensure they are following the rules and using the plots properly.



PLANNED NBS: Details on NBS3 interventions

Multi-use green areas (C3.1)
Multifunctional community garden, adapting relaxation, socializing and sports areas. Land use must be reframed from ownership point of view.

Urban agricultural areas (C3.2)
Converting neglected land for agricultural purposes: potentially community gardens, orchards, vineyards, or even pastures for cattle (flock of sheep is often seen).

Details on NBS6 (and NBS8) interventions
Pollinator friendly green trail along garden (C6.1+8.1)
The path will be designed as a pollinator friendly trail with native species, co-implemented with residents (contributing to environmental awareness).

Follower City Cluj-Napoca :: Urban Regeneration Area

proGReg Follower City
CLUJ-NAPOCA

INFO about the metropolitan area
Population: 411,130 inh. (2021)
Surface area: 1,603 km²
Density: 266 inh./km²
Average elevation: 410 m
Climate: Dfb - Warm summer continental climate
Average winter: minus 6.5 - 0.3 degree C
Average summer: 12.7 - 24.5 degree C

INFO about the URA at city scale
Population: 328175 inh. (2023, INS)
Surface area: 1795 inh./km²
Density: 1797 inh./km²

Objective: Cluj-Napoca URA stretches along the blue-green corridor and industrial-railway corridor, an area where several major green initiatives are in implementation or in design. The objective is to go beyond the flagship projects and strategically transform unused and neglected terrains to improve the local landscape and microclimate and create a stronger bond between residents and Nature.

Statistic info source: Leapa, S., Elisei, P. et al. (2019). Spatial Analysis in Front-Runner and Follower Cities. Deliverable No. 22, proGReg, Horizon 2020 Grant Agreement No. 776528, European Commission



CLUJ URBAN PLAN for implementation of NBS

Landuse and GI

- Water/Wetland
- Forest
- Nursery
- Grasslands/Meadow
- Green areas
- Scrub
- Farmland
- Green public spaces
- Playgrounds
- Sports centre/stadium
- Pitch
- Cemetery

Landuse and buildings

- Brownfield
- Industrial
- Industrial areas regulated for conversion and restructuring (PUG)
- Railway
- Hospital
- Commercial/retail
- Public buildings/facilities
- Offices
- Shops/amenities
- Parking
- Places of worship
- Kindergarten
- School/College
- University
- Dormitory

URA limit

- Intervention site
- Planned NBS in FC Cluj-Napoca:

- NBS3 - Community-based urban farms and gardens
- NBS5 - Green walls and roofs
- NBS6 - Accessible green corridors

Primary aim of FC Cluj-Napoca Urban Plan is to facilitate the green revitalisation and transition of post-industrial neighborhoods and peripheral residential zones. Cluj-Napoca has been focusing in recent years on deploying flagship projects. Thus, the current strategy prioritises local efforts and reduce social discrepancies, empowering residents through sustainable green NBS interventions and regenerating local landscapes.

Implementation phases

- 0-5 year plan
- 5-10 year plan
- 10-15 year plan
- 15-20 year plan

Details on NBS3 interventions

- Community gardens in Mănăştur Neighbourhood (CJ3.1)**
Transforming existing informal vegetable gardens into community gardens, paired with multi-functional green spaces, and raised box gardens.
- Multifunctional public space and green corridor Nădăsel (CJ3.2)**
Creating green corridor and multifunctional community space to integrate community gardens, urban orchard and other wanted public space features.
- Multifunctional public space Timișului (CJ3.3)**
The area is proposed to be converted into a multifunctional public space, combining urban orchards, raised box gardens, and community areas for leisure and social interaction.
- Community gardens in collective housing neighbourhoods (CJ3.4)**
NBS 3 adoption in small-scale green areas within collective housing neighbourhoods requires policy and regulation proposal.

Details on NBS6 interventions

- Green roofs programme (CJ5.2)**
Policy proposal for making green roofs a standard solution in Cluj-Napoca area, used for renovation of collective housing units.
- Someș - accessible corridor (CJ6.1)**
Proposal aims to increase accessibility of natural areas by creating a pedestrian and bike path, set apart from the narrow main street to allow residents closer connection to nature.
- Green corridors Development programme (CJ6.2)**
Transformation of green features along streets to enhance GI connection with natural surrounding and regenerate the local urban landscape.
- Green Corridors in Industrial Areas (CJ6.3)**
Zoning proposal for ensuring inclusive accessibility of residents to the river corridor, in case of future conversion projects in post-industrial sites.

Follower City Piraeus :: Urban Regeneration Area

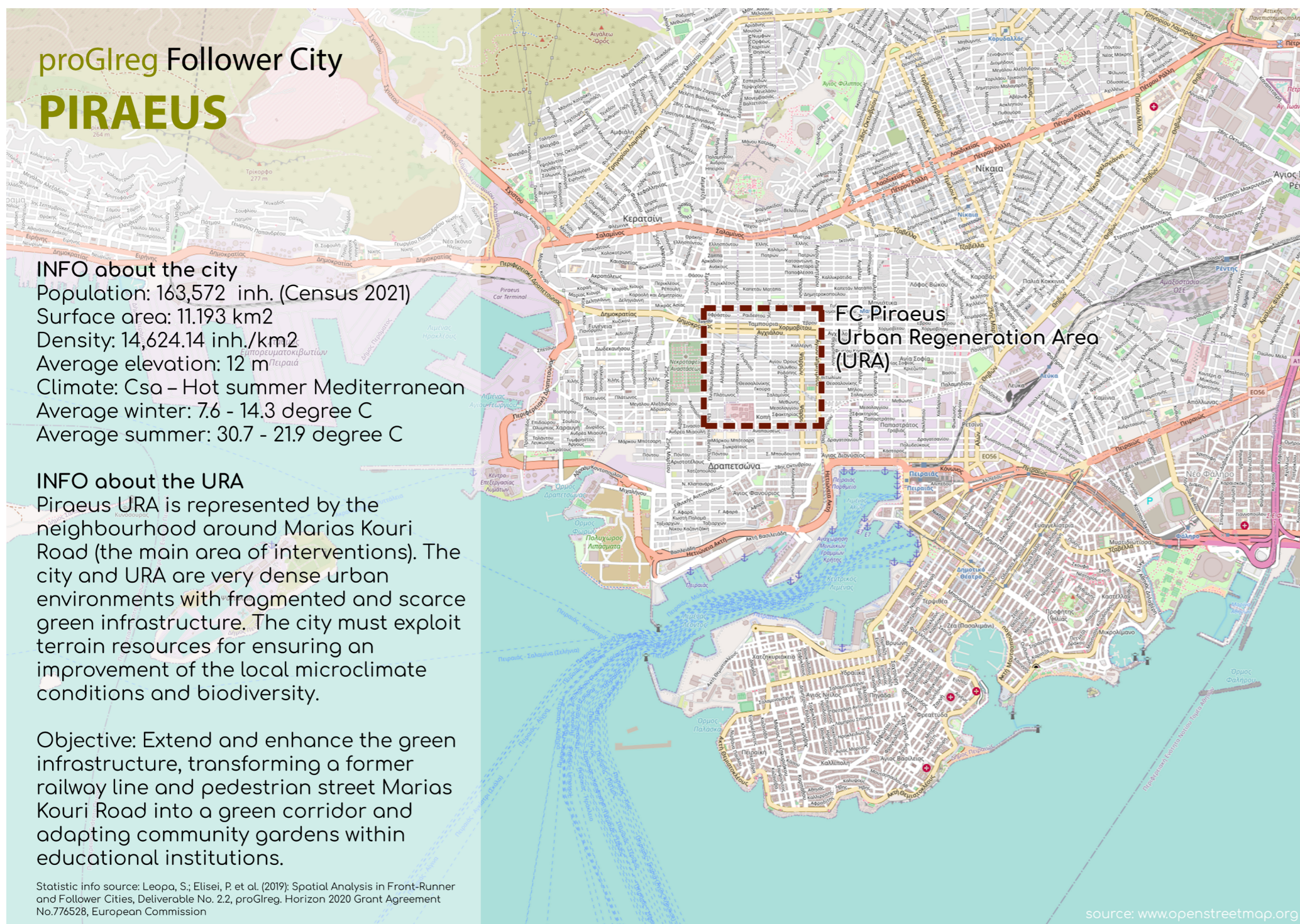
proGReg Follower City
PIRAEUS

INFO about the city
Population: 163,572 inh. (Census 2021)
Surface area: 11,193 km²
Density: 14,624.14 inh./km²
Average elevation: 12 m
Climate: Csa - Hot summer Mediterranean
Average winter: 7.6 - 14.3 degree C
Average summer: 30.7 - 21.9 degree C

INFO about the URA
Piraeus URA is represented by the neighbourhood around Marias Kouri Road (the main area of interventions). The city and URA are very dense urban environments with fragmented and scarce green infrastructure. The city must exploit terrain resources for ensuring an improvement of the local microclimate conditions and biodiversity.

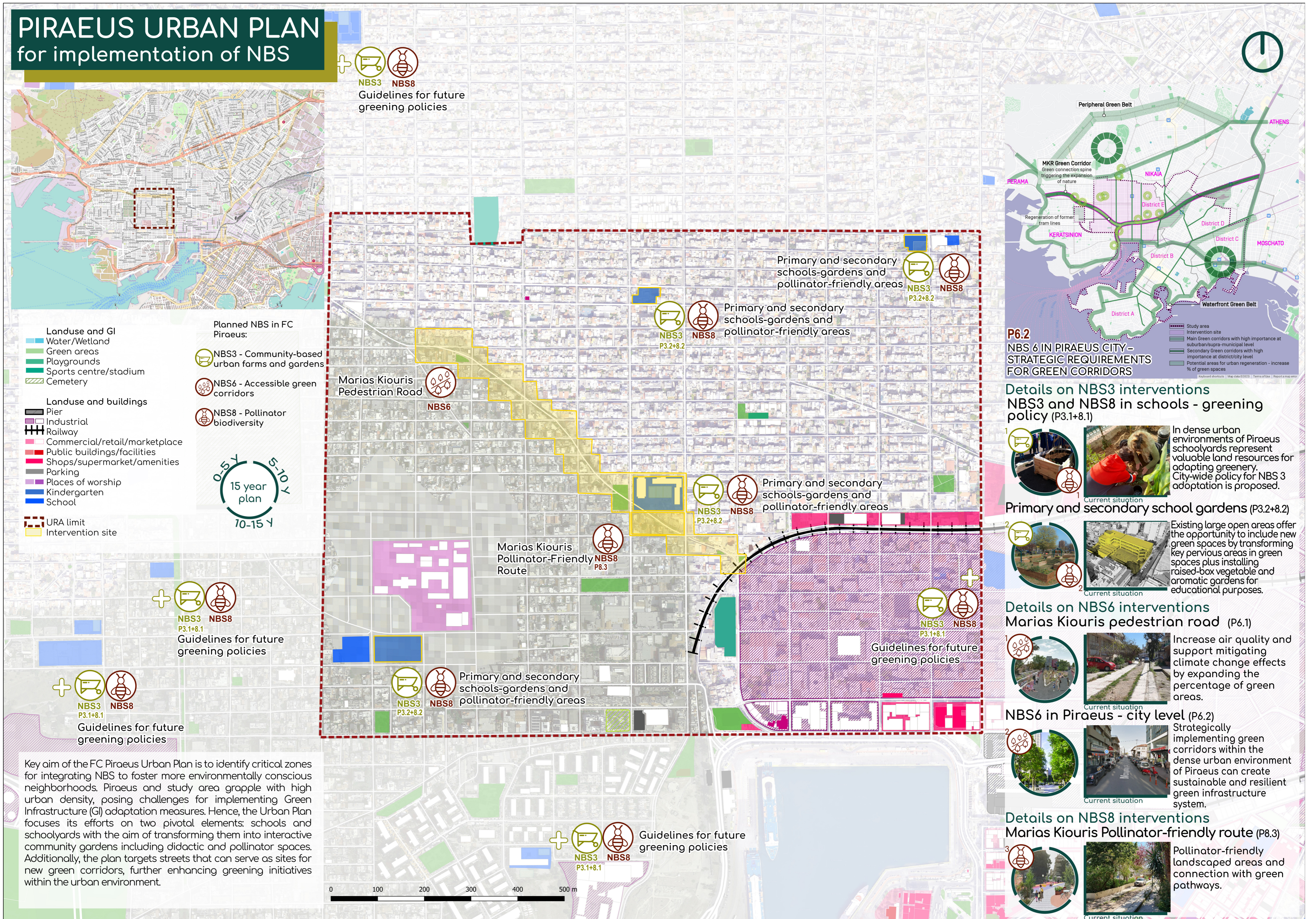
Objective: Extend and enhance the green infrastructure, transforming a former railway line and pedestrian street Marias Kouri Road into a green corridor and adapting community gardens within educational institutions.

Statistic info source: Leopa, S., Elisei, P. et al. (2019): Spatial Analysis in Front-Runner and Follower Cities. Deliverable No. 2.2, proGReg, Horizon 2020 Grant Agreement No. 776528, European Commission. source: www.openstreetmap.org




PIRAEUS URBAN PLAN for implementation of NBS

NBS3 NBS8
Guidelines for future greening policies



Planned NBS in FC Piraeus:
NBS3 - Community-based urban farms and gardens
NBS6 - Accessible green corridors
NBS8 - Pollinator biodiversity

Landuse and GI
Water/Wetland
Green areas
Playgrounds
Sports centre/stadium
Cemetery
Landuse and buildings
Pier
Industrial
Railway
Commercial/retail/marketplace
Public buildings/facilities
Shops/supermarket/amenities
Parking
Places of worship
Kindergarten
School
URA limit
Intervention site

15 year plan
0-5 y
5-10 y
10-15 y

Key aim of the FC Piraeus Urban Plan is to identify critical zones for integrating NBS to foster more environmentally conscious neighborhoods. Piraeus and study area grapple with high urban density, posing challenges for implementing Green Infrastructure (GI) adaptation measures. Hence, the Urban Plan focuses its efforts on two pivotal elements: schools and schoolyards with the aim of transforming them into interactive community gardens including didactic and pollinator spaces. Additionally, the plan targets streets that can serve as sites for new green corridors, further enhancing greening initiatives within the urban environment.

P6.2 NBS 6 IN PIRAEUS CITY - STRATEGIC REQUIREMENTS FOR GREEN CORRIDORS

Details on NBS3 interventions NBS3 and NBS8 in schools - greening policy (P3.1+8.1)

Primary and secondary school gardens (P3.2+8.2)
In dense urban environments of Piraeus schoolyards represent valuable land resources for adapting greenery. City-wide policy for NBS 3 adoption is proposed.

Details on NBS6 interventions Marias Kiouris pedestrian road (P6.1)
Increase air quality and support mitigating climate change effects by expanding the percentage of green areas.

NBS6 in Piraeus - city level (P6.2)
Strategically implementing green corridors within the dense urban environment of Piraeus can create sustainable and resilient green infrastructure system.

Details on NBS8 interventions Marias Kiouris Pollinator-friendly route (P8.3)
Pollinator-friendly landscaped areas and connection with green pathways.

Follower City Zenica :: Urban Regeneration Area

proGReg Follower City ZENICA

INFO about the city
 Population: 110.663 (official data for 2013), 108.278 (estimations for 2021)
 Surface area: 550.3 km²
 Density: 198.1 inh./km²
 Average elevation: 361 m
 Climate: Cfb - Temperate oceanic
 Average winter: minus 3 - 3.8 degree C
 Average summer: 14.5 - 27.8 degree C

INFO about the URA
 Zenica URA is divided into multiple intervention sites, grouped within a neighbourhood, or standalone sites of city-level importance. Thus, it is considered that deploying the planned NBS projects will generate an impact at the city scale.

Objective: Improving the local landscape of neighbourhoods, through productive green spaces and green corridors, and ensuring integration between mobility infrastructure and green infrastructure.

Statistic info source: Leopa, S. Elisei, P. et al. (2019). Spatial Analysis in Front-Runner

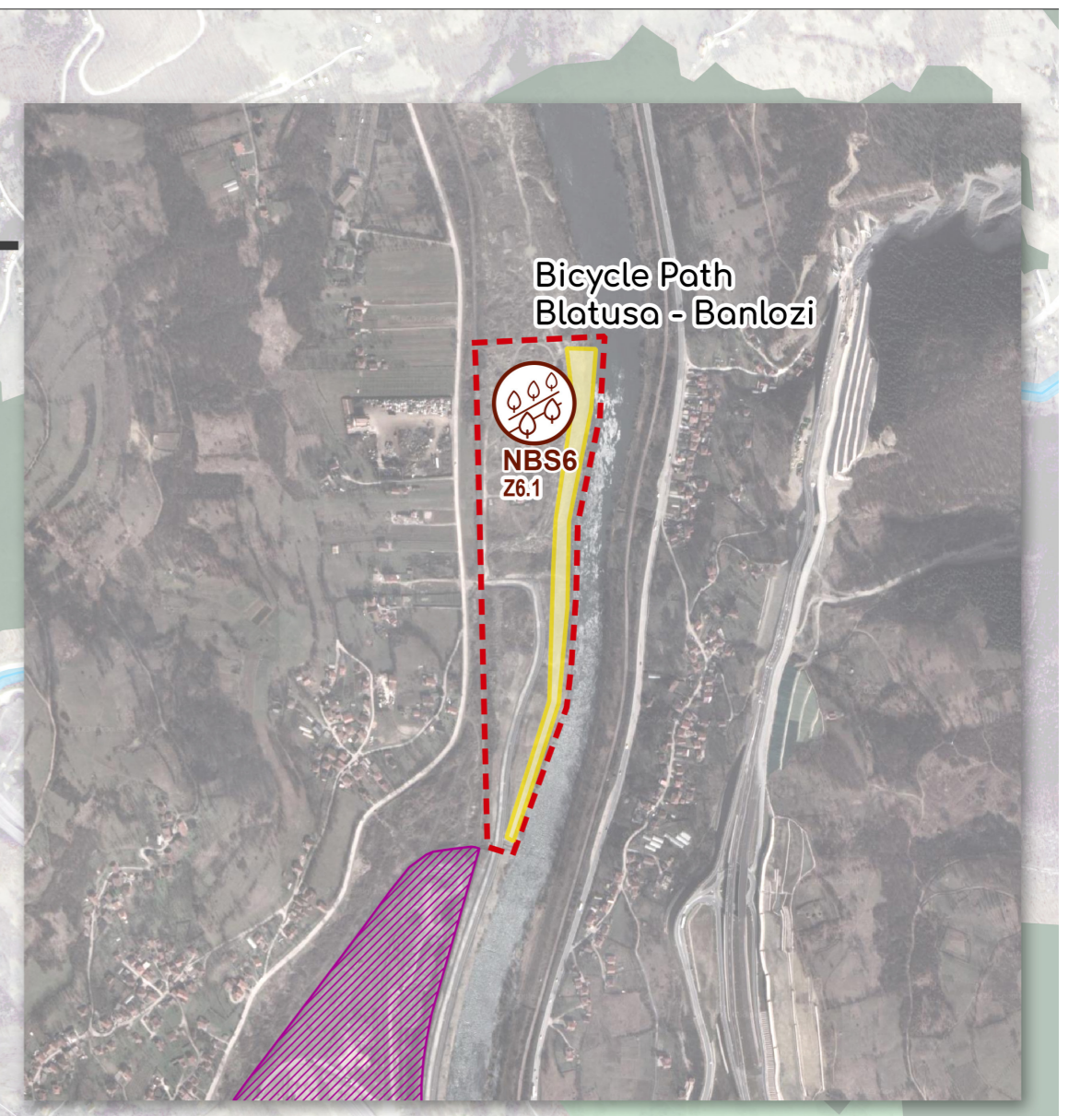
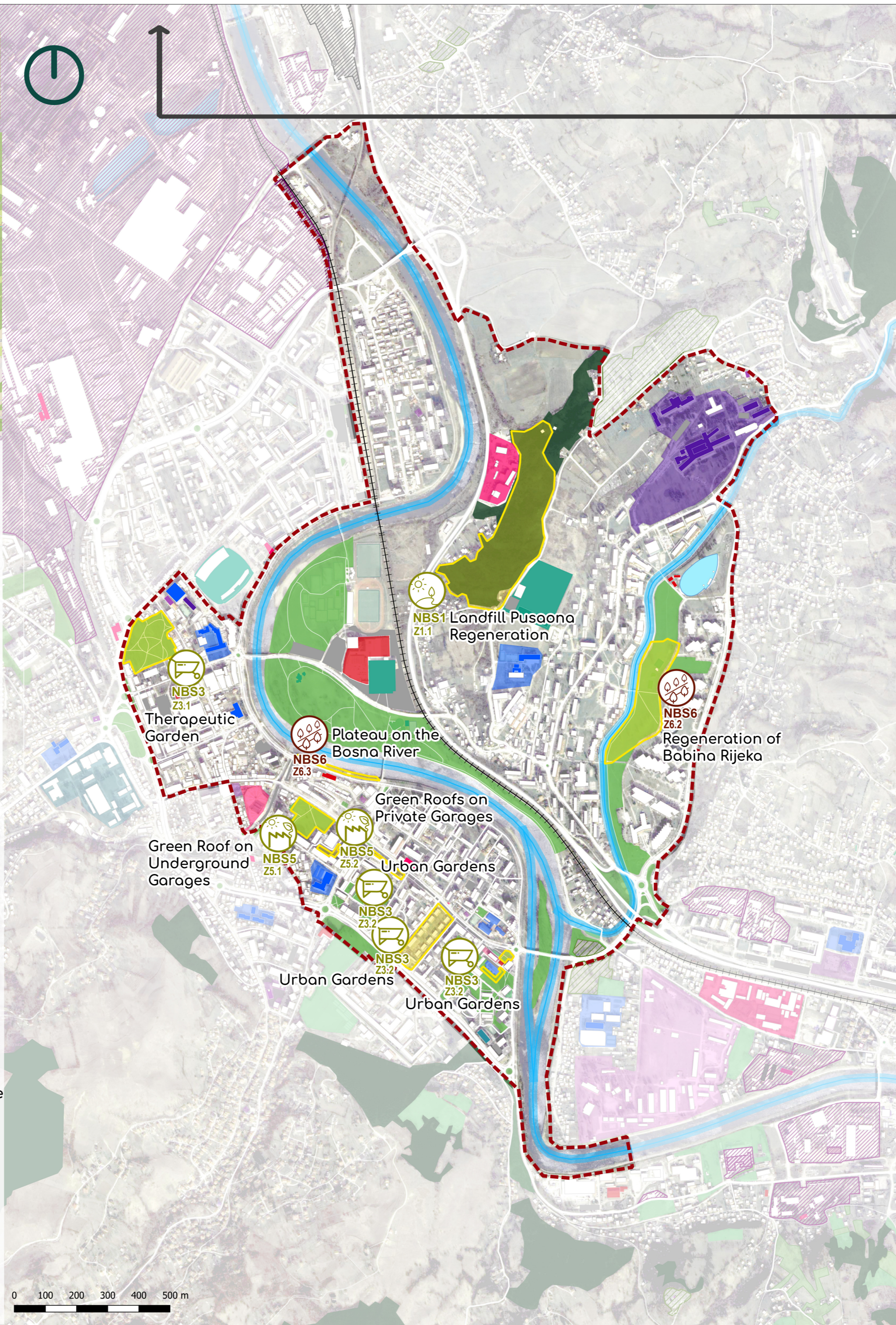


ZENICA URBAN PLAN for implementation of NBS

Landuse and GI
 Water/Wetland
 Forest
 Grasslands/Meadow
 Green areas
 Scrub
 Green public spaces
 Playgrounds
 Sports centre/stadium
 Pitch
 Cemetery
 Landuse and buildings
 Brownfield
 Industrial
 Railway
 Hospital
 Commercial/retail/marketplace
 Public buildings/facilities
 Offices
 Shops/supermarket/amenities
 Parking
 Kindergarten
 School/College
 University

Objectives of the Zenica Urban Plan include adopting strategic NBS interventions in line with ongoing projects to regenerate neighborhoods throughout the city. Reclaiming neglected, degraded, or underused sites and greening measures within the Green Infrastructure System.

Planned NBS in FC Zenica:
 URA limit
 Intervention site
 NBS1 - Leisure activities and clean energy on former landfills
 NBS3 - Community-based urban farms and gardens
 NBS5 - Green walls and roofs
 NBS6 - Accessible green corridors



PLANNED NBS

Details on NBS1 interventions
Landfill Pusaona Regeneration (Z1.1)
 Leisure and sports activities on former landfill and potential clean energy (solar panels on poor soil unfit to grow vegetation - energy can be used for park facilities)

Details on NBS3 interventions
Therapeutic Garden (Z3.1)
 Therapeutic garden to be integrated into the local context, considering vulnerable communities in the neighbourhood and the central location of the site.

Urban Gardens (Z3.2)
 Implementing community gardens in form of raised box gardens, allotments including leisure elements, paired with other greening initiatives and creation of local green corridors plantings.

15 year plan 10-15 Y

Details on NBS5 interventions
Green roof on underground garages (Z5.1)
 Create public green roof on top of underground parking garage, providing valuable ecosystemic services to the neighbourhood.

Green roof on private garages (Z5.2)
 Create public green roofs on top of underground parking, providing valuable ecosystemic services to the neighbourhood.

Details on NBS6 interventions
Bicycle path Batusa Banzoli (Z6.1)
 Create bicycle path connecting the new mixed use development planned in the former industrial area. The bike path has to be further connected to the city bike network.

Regeneration of Babina Rijeka (Z6.2)
 Accessible green corridors and green infrastructure for: redeveloping Babina Rijeka into a community park with supporting green infrastructure.

Plateaus on the river Bosna (Z6.3)
 Waterfront development to create public spaces for leisure activities, making the riverbanks accessible for residents and other users.