Urban Eco-Commons Sarajevo

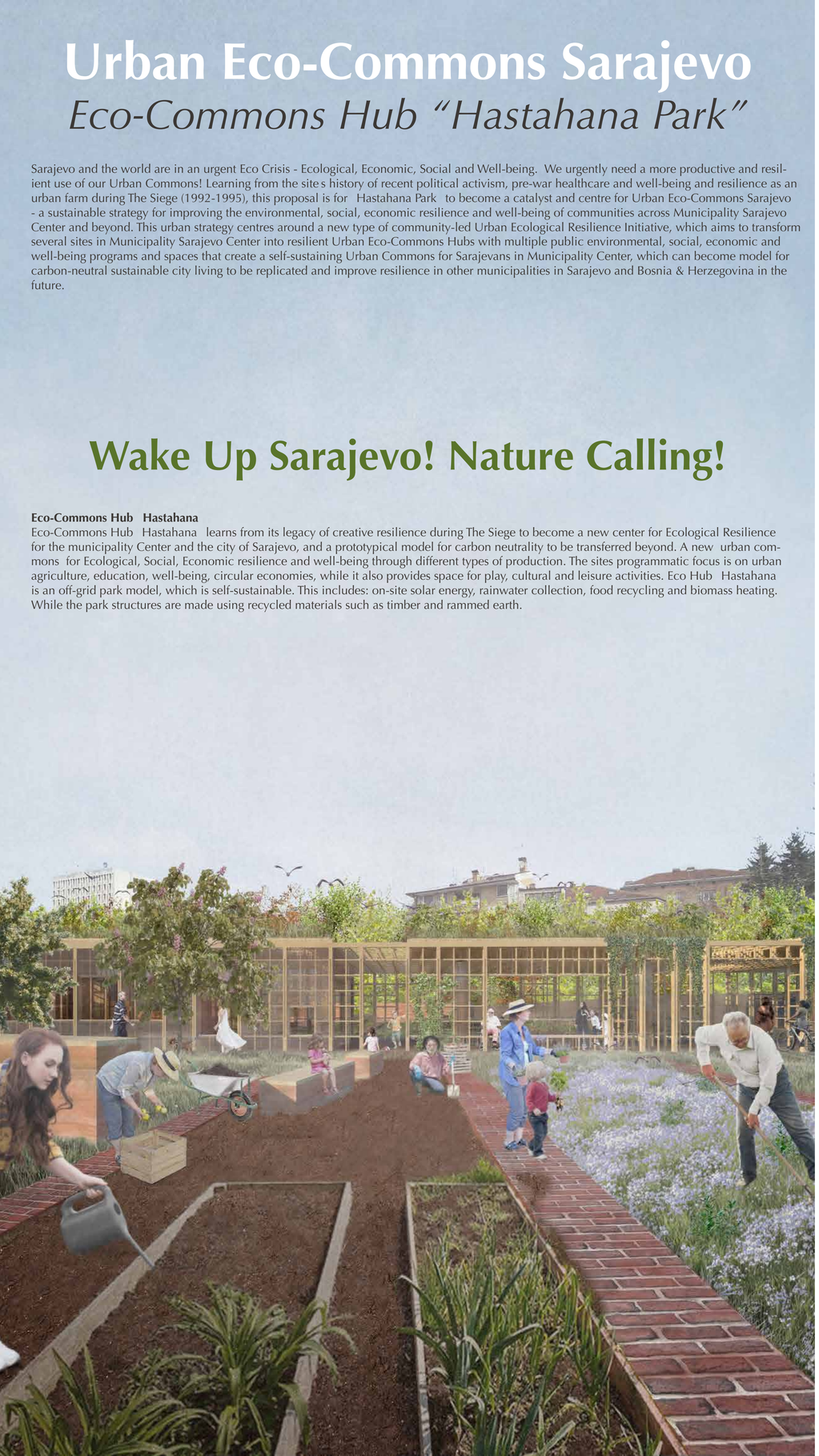
Eco-Commons Hub "Hastahana Park"

Sarajevo and the world are in an urgent Eco Crisis - Ecological, Economic, Social and Well-being. We urgently need a more productive and resilient use of our Urban Commons! Learning from the site s history of recent political activism, pre-war healthcare and well-being and resilience as an urban farm during The Siege (1992-1995), this proposal is for Hastahana Park to become a catalyst and centre for Urban Eco-Commons Sarajevo - a sustainable strategy for improving the environmental, social, economic resilience and well-being of communities across Municipality Sarajevo Center and beyond. This urban strategy centres around a new type of community-led Urban Ecological Resilience Initiative, which aims to transform several sites in Municipality Sarajevo Center into resilient Urban Eco-Commons Hubs with multiple public environmental, social, economic and well-being programs and spaces that create a self-sustaining Urban Commons for Sarajevans in Municipality Center, which can become model for carbon-neutral sustainable city living to be replicated and improve resilience in other municipalities in Sarajevo and Bosnia & Herzegovina in the future.

Wake Up Sarajevo! Nature Calling!

Eco-Commons Hub Hastahana

Eco-Commons Hub Hastahana learns from its legacy of creative resilience during The Siege to become a new center for Ecological Resilience for the municipality Center and the city of Sarajevo, and a prototypical model for carbon neutrality to be transferred beyond. A new urban commons for Ecological, Social, Economic resilience and well-being through different types of production. The sites programmatic focus is on urban agriculture, education, well-being, circular economies, while it also provides space for play, cultural and leisure activities. Eco Hub Hastahana is an off-grid park model, which is self-sustainable. This includes: on-site solar energy, rainwater collection, food recycling and biomass heating. While the park structures are made using recycled materials such as timber and rammed earth.



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Eco-Commons Hubs

Eco-Commons Hubs sites include: Hastahana Park, Radiceva Street, Musala Street, Amerikanac, Franza Lehara, Park Kemal Montena and Safet Isovic, Park Crni Vrh and Park Betanija. Each Eco-Hub has a focus on one of four key strategies for urban resilience, which include: Urban Eco-Farming Parks, Cultural Parks, Eco-Build Workshops for materials recycling and Eco-Housing. These hubs are based on a 3-5 minute walking zone distance, reducing the necessity for vehicles in the town centre, thus reducing carbon emissions and improving health and well-being in an over polluted city. This works towards transforming Sarajevo towards a 15-Minute City -like model while also capitalising on and unearthing the historic use of this part of the city for agriculture and green space. In this new urban model, Eco-Commons Hubs allow residents to access their daily needs (food, health, education, culture, leisure housing, work) within a short walk or bike ride.

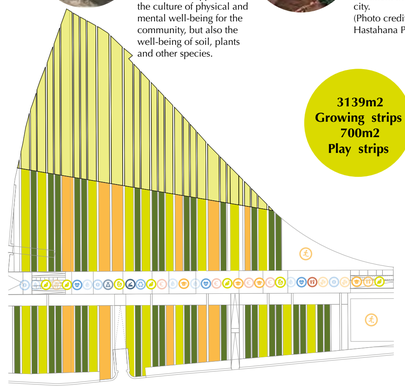
Photo: Historic Agricultural Map of area around site Eco-Hub Hastahana unearthes the historic use of this area of the city as agricultural land use and green fields before the modernisation period.

Photo: Austro-Hungarian Hospital
Eco-Hub Hastahana links to the history of the site as a healthcare facility by reinventing the approach to well-being to create a space that encourages a more holistic approach to the culture of physical and mental well-being for the community, but also the well-being of soil, plants and other species.

Photo: Siege time allotments Eco-Hub Hastahana learns from the creative resilience of Sarajevans during the Siege of Sarajevo (1992-1995), during which the community used the Hastahana Park site as an urban allotment in the besieged city.
(Photo credit: Facebook Hastahana Park page)

Urban Eco-Commons Sarajevo - Urban Strategy

Eco-Commons Hub Hastahana - Community Strategy



Eco-Commons Hub Hastahana - Site Food Growing and Programming Strategy

Yields

Type : **Social**
Area : **700 m2**

Type : **Potential additonal growing space**
Area : **2423 m2**
Potential Vegetable Yield : **135 people/ Per annum**

Type : **2m wide agricultural strip**
Area : **1817 m2**
Vegetable Yield provision : **101 people/ Per annum**

Type : **3m wide agricultural strip**
Area : **1322 m2**
Vegetable Yield provision : **73 people/ Per annum**

Vegetable types

Cucumber [12.5m2] *0.4%*
Corn [21.97m2] *0.7%*
Beetroot [50.2m2] *1.6%*
Aubergine [163.2m2] *5.2%*
Tomato [163.2m2] *5.2%*
Kale / Green Cabbage [163.2m2] *5.2%*
Lettuce [175.7m2] *5.6%*
Pepper [182m2] *5.8%*
Broccoli [182m2] *5.8%*
Carrots [182m2] *5.8%*
Spinach [590m2] *18.8%*
Courgette/ Zuccini [486.5m2] *15.5%*
Pumpkin/ Squash [765.91m2] *24.4%*

**[based on 18m2 per person per annum] and equivalent across 'growable' site area] see A3 report for detailed analysis*

***Refer to A3 boards for full descriptions of the individual layers**

DIAGRAM KEY:

- *Cycle Lane*
- *3 min Radius*
- *6 min Radius*

Economics
- *Economics*
- *Restaurants*
- *Public Market*
- *Creche*
- *Eco - Building Workshops*

Social
- *Culture*
- *Play*
- *Recreation*
- *Education*
- *Eco - Housing*
- *Well Being*
- *Recycling*
- *Solar Energy*
- *Water Harvesting*
- *Soil Repair*
- *Biomass*

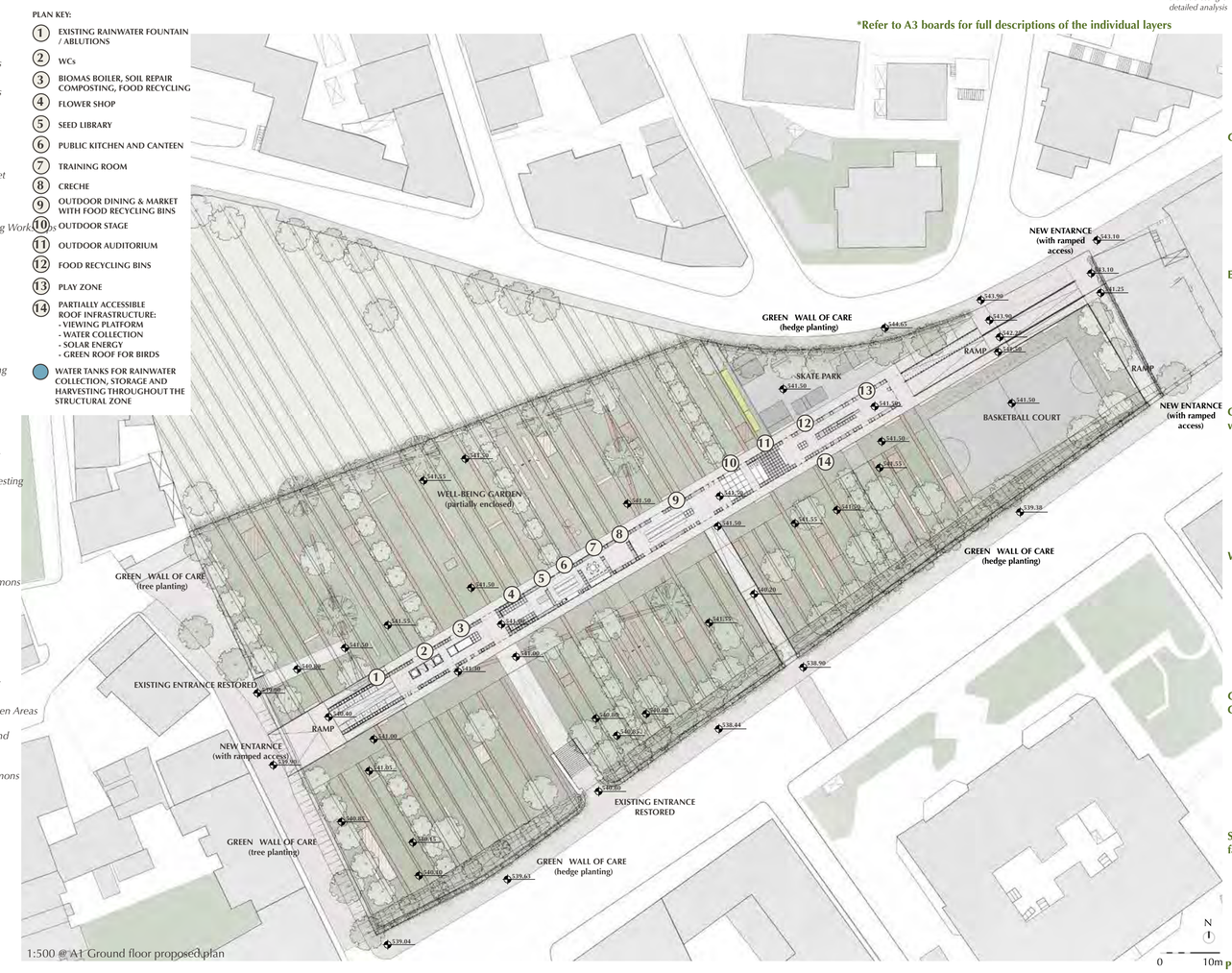
Public
- *Eco - Commons*
- *Re-wilding*
- *Leisure*
- *Food*
- *Biodiversity*
- *Existing Green Areas*
- *Compost and Food Waste Recycling*

Private
- *Eco - Commons*
- *Re-wilding*
- *Leisure*
- *Food*

PLAN KEY:

1. EXISTING RAINWATER FOUNTAIN / ABLUTIONS
2. WCs
3. BIOMAS BOILER, SOIL REPAIR COMPOSTING, FOOD RECYCLING
4. FLOWER SHOP
5. SEED LIBRARY
6. PUBLIC KITCHEN AND CANTEEN
7. TRAINING ROOM
8. CRECHE
9. OUTDOOR DINING & MARKET WITH FOOD RECYCLING BINS
10. OUTDOOR STAGE
11. OUTDOOR AUDITORIUM
12. FOOD RECYCLING BINS
13. PLAY ZONE
14. PARTIALLY ACCESSIBLE ROOF INFRASTRUCTURE:
    - VIEWING PLATFORM
    - WATER COLLECTION
    - SOLAR ENERGY
    - GREEN ROOF FOR BIRDS

WATER TANKS FOR RAINWATER COLLECTION, STORAGE AND HARVESTING THROUGHOUT THE STRUCTURAL ZONE



1:500 @ A1 Ground floor proposed plan

Eco-Hub Hastahana provides functional space for Urban Ecological Resilience, which includes spaces for environmental, social, economic resilience and well-being.

1. Environmental Sustainability:
Food growing, consumption, exchange and recycling is considered as a circular economy and litecycle in the scheme. Recycled food is used to make compost and biomass energy, while a composting programme enables soil reparation and improves soil nutrition. Other trees, planting, green space and green roofs encourages air filtration and biodiversity for birds and insects.

Several sustainable technologies are used throughout the project to create an off-grid carbon-neutral park. This includes; solar panels for providing electricity for indoor and outdoor lighting and some heating, rainwater collection on flat green roof and water storage tanks are included throughout the central timber framework structure, which store grey water and store water for watering plants in the summer months or droughts.

Sustainable natural and recycled materials are used for construction of landscaping and architectural elements throughout to ensure 100% recyclable project. This includes rammed earth and clay brickwork for benches and landscape walls, and timber framework for the central axis infrastructure building. Fly ash cement is used to make concrete foundations where necessary. A lightweight recycled polycarbonate is used to clad the urban agricultural building structure with internal functions.

2. Economy and Circular Economies:
A circular economy is created around the process of growing, consumption, exchange and recycling of food, which also includes education, research, volunteering and eating. An on-site kitchen and canteen serves the community and workers, but also visitors, workers and tourists to generate income for programs and maintenance. The site is an organic food distribution and trade centre with other local producers, creating circular economies for local food production. Economic partnerships can be made with local restaurants for food and ingredient provision. Job provision for on-site managers, trainers and facilitators.

The training room and outdoor stage and auditorium can be rented for events for additional income. A creche and early education room is provided for children, which is another part of financial sustainability strategy.

3. Sociability and Inclusiveness:
A key focus of Eco-Hub Hastahana is education and social inclusion across generations. The hub will be linked to University Campus Sarajevo and other educational institutions and schools, including the agriculture faculty and architecture faculty, and run educational, research and volunteering programs in food growing, planting, soil reparation, urban ecologies and other sustainability practices. There hub will become a training centre for urban ecologies. The programme is geared towards connecting generations, providing space and programme for care and active ageing as well as learning for new generations.

Eco-Hub Hastahana also provides a holistic approach to social cohesion, peace and reconciliation, through inclusive spaces like peaceful gardens and active volunteering and socialising. Cultural space is provided for gatherings and events, including an outdoor stage and auditorium. T
The project has been designed in an inclusive way, to accessibility standards. 1:20 ramps have been used for site entrances and mobility throughout the site.

4. Well-being:
A holistic approach is taken towards well-being in this project, which centres around the urban agriculture programme and creating shaded and peaceful green spaces for contemplation. This includes considering physical health, organic food and exercise, while also providing cleaner air, while also providing comfortable and peaceful spaces for mental wellbeing.

Along with humans, the aspect of planting and re-wilding the edges of the site as green walls of care provides biodiversity for insects and birds. Food recycling and composting facilities also provide an infrastructure for improving soil health and plant health.

Detailed axonometric view of the main area of the Eco-Commons Hub Hastahana

5.Sensitivity to History and context:

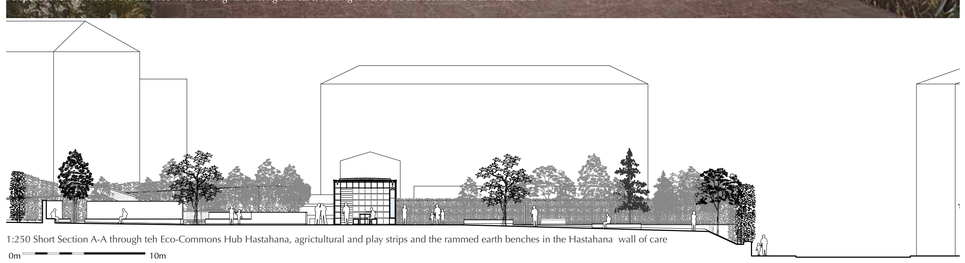
Eco-Hub Hastahana links to the history of the site as a healthcare facility by reinventing the approach to well-being to create a space that encourages a more holistic approach to the culture of physical and mental well-being for the community, but also the well-being of soil, plants and other species.

The existing stone boundary wall is preserved and restored. The two existing historic entrances are preserved and restored. Three additional ramped entrances are provided to enable inclusivity onto the level of the site. Access through the historic boundary wall is precise and minimal.

The view of the Magribija Mosque from Kranjcevica Street, approaching from the direction of the town centre, has been preserved by offsetting the central axis strip off the line of the mosque, while a contemplative rainwater fountain and ablution space has been provided in the central axis adjacent to the mosque.

6. Identity:
A new urban eco identity is given to the site, or rather uncovered from it s past potential, as both a space for community-led political and social action, resilience and well-being. While a new sustainable off-grid eco-urban structure on the site, the green strips, peace garden and natural green walls of care at the perimeter give a new type of horizontal landscaped architectural landmark.

Perspective render view of the Entrance from the original existing staircase, looking towards the Eco-Commons Hub Hastahana



1:250 Short Section A-A through teh Eco-Commons Hub Hastahana, agricultural and play strips and the rammed earth benches in the Hastahana wall of care

0m 10m

Detailed axonometric view of Viewing platform, stage and cultural space of the Eco-Commons Hub Hastahana

Detailed perspective view of the Flower shop in Eco-Commons Hub Hastahana

Detailed axonometric view of the Creche, Viewing ramps and platform and green biodiversity roofs of Eco-Commons Hub Hastahana

Detailed perspective view of the Ablution area and water harvesting tanks at Eco -Commons Hub Hastahana

Axonometric view of whole site within context - showing how the proposal sits as a link between the both sides of the site, creating a semi- covered walkway brimming with bio-diversity and sustainable facilities for the community

1:250 Long Section B-B thorugh the site showing full Elevation from the South

0m 10m

Key Plan NTS