



CLEVER
Cities

Public participation in the Linear Park design

06.12.2022.

Extracts from the Call for Proposals

Urban planning document, not a policy document

Projects should... aim at:

- assist 'follower' cities that commit to proactively seek advice, expertise, assistance, capacity building (e.g. through staff exchanges) and mentoring from the 'front-runners' and **develop, within the duration of the project, a sustainable urban planning that systemically replicates, embeds and integrates the demonstrated nature-based solutions 'customised' to their particular context** to successfully address the challenges specified below. **This urban plan is a contractual obligation and should be delivered by the end of the project;**
- develop methodologies for **replication and up-scaling** in different contexts of the solutions deployed in the 'front-runner' cities, including investment strategies, governance and business models and **approaches for their systemic integration in the urban and land use planning;**

Expected impacts:

- enhanced stakeholder and citizen ownership of the solutions through their effective and systematic involvement in **participatory, trans-disciplinary and multi-stakeholder consultation processes for co-design, co-development and co-implementation of visionary urban planning;**

Testing of co-creation in Urban Planning

Procedure by the Law

CLEVER Cities Test

Questionnaire >>> Focus Groups

Call for young arch. Teams – Design >>>

Workshop and ZOOM Meeting for Citizens

EU Green Week Public Talk - online

Authors & Students Conversations

miro board...

Expert Discussion on Urban Parameters

TNOC Festival

Discussion, Open Doors & Windows, Exhibition...

Evidence-based planning, detailed publishing of each step on bellab.rs



WORK OF YOUNG TEAMS



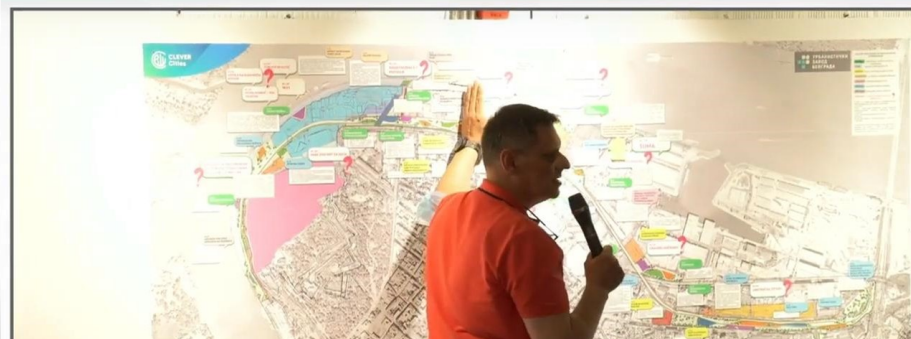
Careful Analytics of the proposed Draft Plan...



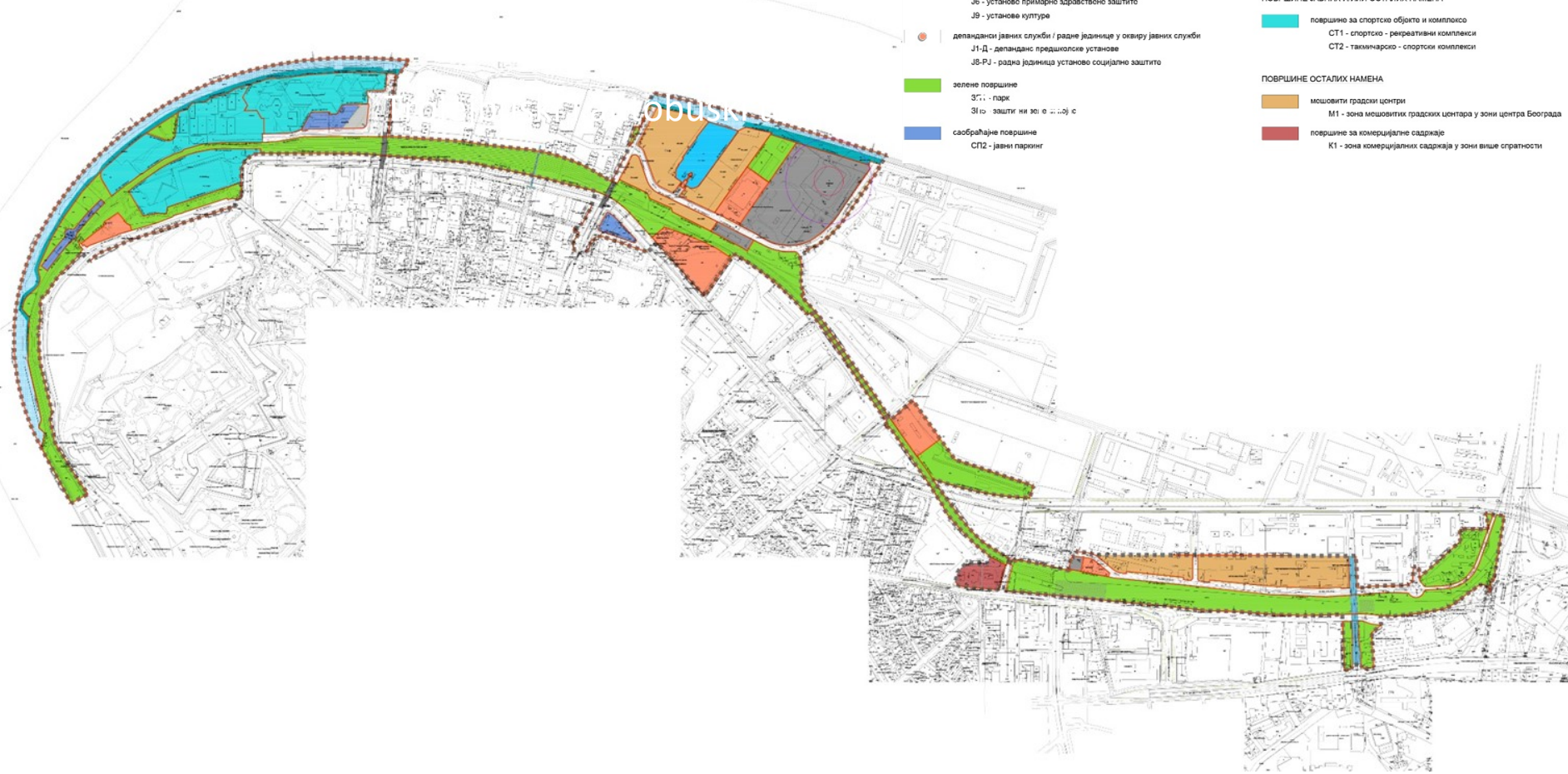
Public Discussion, June 2021

Linijski park. Javna diskusija tokom javnog uvida plana detaljne regulacije za linijski park - Beograd i razgovor sa građanima

Linijski park. Javna diskusija tokom javnog uvida plana detaljne regulacije za linijski park - Beograd i razgovor sa građanima



Plan was adopted 31.08.2021.



легенда:

- граница Плана
- поведива зона утицаја угљен монооксида (35m)
- поведива зона утицаја угљен монооксида (103m)

ПОВРШИНЕ ЈАВНИХ НАМЕНА

- ВЗ - водно земљиште
 - заваторија реко Дунав
 - приобално земљиште (зелене површине у приобалу Дунава)
- ВП1 - водне површине (базен Маријино)
- површине за објекте и комплексе јавних служби
 - Ј4 - високошколске установе
 - Ј6 - установе примарно здравствено заштите
 - Ј9 - установе културе
- депанданси јавних служби / радне јединице у оквиру јавних служби
 - Ј1-Д - депанданс предшколске установе
 - Ј8-РЈ - радна јединица установе социјално заштите
- зелене површине
 - ЗГ - парк
 - ЗП - заштитни зелени простор
- саобраћајне површине
 - СП2 - јавни паркинг

- мрежа саобраћајница
- пешачка стаза / пешачки продори
- подвозник
- постојећа пешачка пасарела
- мостовска конструкција
- метро - резервисане површине за метро станице и шахтове
- површине за инфраструктурне објекте и комплексе
 - ЦС - црпна станица
 - ТО - комплекс топлане
 - МРС - мерно-регулациона станица

ПОВРШИНЕ ЈАВНИХ ИЛИ ОСТАЛИХ НАМЕНА

- површине за спортске објекте и комплексе
 - СТ1 - спортско - рекреативни комплекси
 - СТ2 - такмичарско - спортски комплекси

ПОВРШИНЕ ОСТАЛИХ НАМЕНА

- моштовити градски центри
 - М1 - зона моштовитих градских центара у зони центра Београда
- површине за комерцијалне садржаје
 - К1 - зона комерцијалних садржаја у зони више спратности

Particular Segments



- простор амфитеатралног типа
- природни елементи као заштита од штетних утицаја
- земљани насипи и зимзелено дрвеће
- кровни врт на објекту подземне гараже



- задржати токове који евоцирају историјски контекст некадашњих шинских траса, а које су трансформисане у пешачке стазе, бицикличке стазе, стазе за трчање или ток плитког потока-фонтане уз пешачку стазу

- бесконачна клупа - разиграни путоказ
- дуж клупе - садржаји различитог карактера
- Јапански врт

SUCCESSSES

- Significant interest from citizens to participate
- Openness of institutions for co-creation
- Changed attitude towards ecological and ecosystem services of green areas - importance for adaptation to the climate crisis!
- Creativity and commitment of young teams
- Lack of intensive construction in the park

CONCERNS

- Strong focus on new real-estate development
- Possible gentrification
- **Lack of land value capturing by the public sector**
- Refraining from defining **quantities for specific green urban construction parameters**

EXTRACTS FROM THE PLAN

When designing objects, apply nature based solutions such as: green walls, green roofs and roof gardens, and provide facilities for birds and other animals within the public green area.

Park must be designed to provide ecological, social and economic services (functions) as an ecosystem in urban space

PART 1 - vegetation compositions (flower garden, aromatic garden, healing garden, sensory garden, moist habitat, aromatic plant garden, urban beekeeping, atmospheric water collection systems and other nature based solutions)

it is obligatory to design extensive and intensive green areas on the roofs of the buildings in the surrounding and underground spaces, as well as to design green facades

In order to achieve ecological services, it is necessary to achieve continuity and integrity of the park with continuous different forms of vegetation (tree lines, groups of trees and shrubs, flower beds, various nature based solutions, etc.), which will enable natural processes which will positively affect the quality of air, water, soil, biodiversity and more

should primarily include the use of renewable energy sources (primarily solar and thermal) for lightening paths, electric chargers, etc.

it is necessary to ensure the drainage of atmospheric water from covered areas into the rain sewer, but by enforcing the systematic collection of atmospheric water through nature based solutions and release into the ground (possible collection and use for irrigation)

KEY TOPICS BY CITYENS

GREENERY - NBS solutions and all other types of greenery
WATER - water management, waste water disposal
HERITAGE - nature, cultural, regulations
ENERGY - lighting, energy efficiency ...
SOIL - geological conditions
PROJECT - young architects solutions
MOBILITY – pedestrian and bicycle
UNDEFINED

WORKSHOPS AND PUBLIC EVENTS

01_PUI : prvi sastanak radne grupe za sprovođenje projekta PAMETNI gradovi (CLEVER Cities) i uspostavljanje PUI	19.11.2019.	http://bellab.rs/wp-content/uploads/2019/12/UJP-launch-zapisnik.pdf
FG_01 : Fokus grupa predstavnika sekcija obrazovnih, kulturno-obrazovnih i sportsko-rekreativnih institucija PUI	17.12.2019.	http://bellab.rs/wp-content/uploads/2019/12/2019.12.17-CC-Zapisnik-AMR.pdf
FG_02 : Fokus grupa predstavnike 20 institucija PUI	21.01.2020.	http://bellab.rs/wp-content/uploads/2020/01/2020.01.21-CC-Zapisnik-FG2.pdf
RG_DP : panel-diskusija i radionica za građane u Dorćol Platz-u	12.02.2020.	http://bellab.rs/wp-content/uploads/2020/03/2020-02-12-KOMENTARI-Usmeni-i-sa-mape.pdf
AIR : Iz rezultata razgovora sa mladim transdisciplinarnim timovima – autorima idejnih rešenja za Linjski park	18.11.2020	https://miro.com/app/board/o9J_kif5pM=/

	WHEN IT WAS PROPOSED	CITIZENS SUGGESTIONS	DEFINITION IN PLAN - PDR LINIJSKI PARK	PAGE AND PARAGRAPH IN PLAN
10	RG_DP	CITY FLOWER FIELDS - ZONE 8, NEAR BELGRADE PORT	<ul style="list-style-type: none"> - landscaping - detailed rules of landscaping - "According to its shape and position in space, as well as the functions it should perform, the park will be arranged as a green (ecological) corridor. With realization of planned continuous forms of vegetation (tree lines, groups of trees and shrubs, massifs of trees, flower beds, various NBSs, etc.), will be enabled the development of natural processes, which will positively affect the quality of air, water, soil, biodiversity, etc., and thus the quality of life in city." -for landscaping use deciduous, evergreen, coniferous and shrubby species, flower species (perennials, perennials, roses, ...), lawns, blankets soil, creepers, etc., where the following rules should be observed: - use autochthonous vegetation types that belong to natural potential vegetation, adaptable to local environmental conditions; - it is allowed to use specimens of exotics that have been confirmed to adapt well to environmental conditions; - the share of deciduous species should be dominant in relation to other vegetation; - use nursery-produced seedlings of trees with a breast diameter larger than 10 cm; - use leafy decorative and floral forms of shrubby species and seasonal flowers; - avoid invasive and allergenic species; - alley of trees should be adaptive hardwood seedlings, minimum height of 3.5 m, tree clean from branches up to 2.5 m high and perennial diameter of at least 15 cm; - it is desirable to use fast-growing species, which have a higher phytoncide and bactericidal effect and enhanced aesthetic values; 	

11	RG_DP	FACILITIES FOR BIRDS AND OTHER ANIMALS - NEAR TOPLANA FACILITIES FOR BIRDS AND OTHER ANIMALS - MARINA DORČOL	- present within the mention of nature-inspired solutions "When designing buildings, use NBSs such as: green walls, green roofs and roof gardens; within the public green area, provide facilities for birds and other animals, ecological habitats, islands of freshness, eco-urban furniture, green sound barriers for transit content, etc.	
12	RG_DP	ECOLOGICAL HABITATS, BUTTERFLY PARK - DANUBE QUAY / SRC MILAN GALE MUŠKATIROVIĆ	-present within the mention of nature-inspired solutions "When designing buildings, install nature-inspired solutions such as: green walls, green roofs and roof gardens; within the public green area, provide facilities for birds and other animals, ecological habitats, islands of freshness, eco-urban furniture, green sound barriers for transit content, etc. Specifically, the Butterfly Park is not planned, but ecological habitats can be part of the functional whole of FC1 - themed green landscapes.	
13	RG_DP	VEGETATION SHADE - PRIMARY SCHOOL VLADA AKSENTIJEVIĆ	-"Within the free areas of the construction plot, plan the planting of woody trees so as to provide shade of at least 50% of the total open space for a specific area (orthogonal projection of tree canopies)";	
14	RG_DP	INDIGENOUS PLANT SPECIES	- expert analysis of existing vegetation (bioecological basis), conservation and protection of dendroflora is envisaged -advantage should be given to indigenous species -selection of seeds (indigenous species, avoidance of allergenic species present in our country) "When choosing species for new planting, preference should be given to indigenous species of trees and shrubs adaptable to the natural and created conditions of the subject area; exotic species can be used as decorative, which can be adapted to local conditions, without being invasive and allergenic; "	




Infiltracione trake i površine

Porozno popločanje

Sakupljanje i upotreba kišnice

Fitoremedijacija tla

15	01_UIP	WATERPROOF SUBSTRATES	-when it comes to runoff, it is proposed to use NBSs, the use of semi-porous and porous material for pedestrian, bicycle and trim trails, as well as the use of semi-permeable curtains on parking lots with newly planned facilities.
16	01_UIP	WASTEWATER REGULATION	-"Division of wastewater into atmospheric and sewage, which makes a significant improvement in the regulation of wastewater separately, ie. separate collection of conditionally clean water (from roofs and facades of buildings and free surfaces - plateaus, pedestrian communications, bicycle paths, children's playgrounds, etc.) and wastewater (oily water from catering facilities, traffic and manipulative areas) and sanitary wastewater; " Systemic collection of atmospheric waters through nature-inspired solutions and release into the ground should be forced (eventual collection and use for irrigation);"
17	01_UIP	LAND CLEARING	-The obligation of the investor is, after the removal of the railway, commercial and storage facilities, and before the arrangement of the Linear park and the construction of facilities intended for housing and public use, to perform: - soil pollution testing; - rehabilitation, ie remediation of the subject area



23	FG_01.	scene of natural materials	<p>FC3 - space for outdoor cultural and educational programs, is a space within which there is a plateau, amphitheater, water surface, pergola, etc., which provides the presentation of various cultural and educational programs and gathering a smaller number of visitors; planned construction of an amphitheater as a meeting place in a pleasant environment that forms the surrounding vegetation; the amphitheater is the key contact with subunit 1.7, ie the Line Park; the amphitheater also has the role of a space for cultural and educational programs; the central motif of this area is a prominent pedunculate oak tree (<i>Quercus robur</i>) whose symbolism is multiple and deeply rooted in the tradition of Slavic peoples; covered by conceptual solutions</p> <p>restoration of the Bastion of St. Jakov, after the previous archeological excavations, means reconstruction, revitalization and presentation of all layers, with adjustment of the way of use to modern needs (gallery, exhibition space, art workshop, etc.) within the existing spatial possibilities and planning solution of the Line Park; Bastion Sv. Jacob can be used for various cultural and artistic programs; ... selection of furniture and materials for finishing public areas so that they reflect solar radiation (cold materials); the use of natural materials in the plan is mentioned through the construction of energy efficient buildings and in the rules for the construction of a line park in the garden-architectural elements "Garden-architectural elements that can be found in the park are: walls, walls, ramparts, gates, water and elements with water, pergolas, canopies, pavilions, gazebos, amphitheater, stage, monuments, sculptures, gutters, canals, ..."; the application of garden-architectural elements should be harmonized with the style of landscape-architectural arrangement of the park; "</p>	
26	01_UIP	urban beekeeping	<p>FC1 - thematically green space, consists of various thematic compositions of vegetation (flower garden, aromatic garden, healing garden, sensory garden, moist habitat, aromatic plant garden, urban beekeeping, atmospheric water collection systems and other nature-inspired solutions); Implementation?</p>	
27	FG_01	urban gardening, urban gardens and irrigation - near the heating plant	<p>Additional rules for the construction and arrangement of SUBCONSE 1.7 OF THE LINE PARK - an urban garden of aromatic plants is envisaged;</p> <p>When designing buildings, install nature-inspired solutions such as: green walls, green roofs and roof gardens;</p>	<input type="checkbox"/>

Our findings:

- Encourage land-use planning in favour of green infrastructure & NBS;
- Promote **Ecological Index**, or other tools for green urban parameters;
- Support and link with sustainable urban mobility planning;
- Underline multiple benefits of NBS, e.g. **urban agriculture**;
- Explain and experience benefits of co-creation & „shared governance“;
- Foster community actions...