



POLICY SUPPORT FACILITY – COVENANT OF MAYORS

LJUBLJANA (SLOVENIA), 29. March 2023

Luka Sešel, Expert of NBS, Policy Support Facility, Covenant of Mayors

Luka Sešel

- Currently employed at the Ministry of Public Administration of Republic of Slovenia - Office for Projects and European Funds
- Working for City of Ljubljana (8 years) – **NBS, Urban forestry, Urban Beekeeping...** EU Funds, **Interreg, H2020, URBACT,...**
- Joint Technical Secretariat, Financial control, Project Consulting
- Degree in Geography

What are NBS = Nature-based solutions



➤ IUCN - International Union for Conservation of Nature

Nature-based Solutions leverage nature and the power of healthy ecosystems to protect people, optimise infrastructure and safeguard a stable and biodiverse future. Nature-based Solutions are actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature.

➤ FAO UN - Food and Agriculture Organization of the United Nations

Nature-based Solutions (NBS) are being mainstreamed as an opportunity to guide the current development into a more sustainable path, with eco-friendly technology in line with nature. NBS is understood as actions supported by nature designed to face societal challenges and ensure human well-being.

➤ UNEA – United Nations Environment Assembly

Definition of nature-based solution as ‘actions to protect, conserve, restore, sustainably use and manage natural or modified terrestrial, freshwater, coastal and marine ecosystems, which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services and resilience and biodiversity benefits.’

➤ European Commission

"Solutions that are inspired and supported by nature, which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience. Such solutions bring more, and more diverse, nature and natural features and processes into cities, landscapes and seascapes, through locally adapted, resource-efficient and systemic interventions". Nature-based solutions must therefore benefit biodiversity and support the delivery of a range of ecosystem services.

References and Sources

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- <https://www.fao.org/3/cb3140en/cb3140en.pdf>
- https://wwf.panda.org/wwf_news/?5226891/nature-based-solutions-UNEA
- https://knowledge4policy.ec.europa.eu/biodiversity/brief-me-nature-based-solutions_en

Best practice – URBforDAN

Project URBforDAN – City of Ljubljana

Management and Utilization of Urban Forests as Natural Heritage in Danube Cities



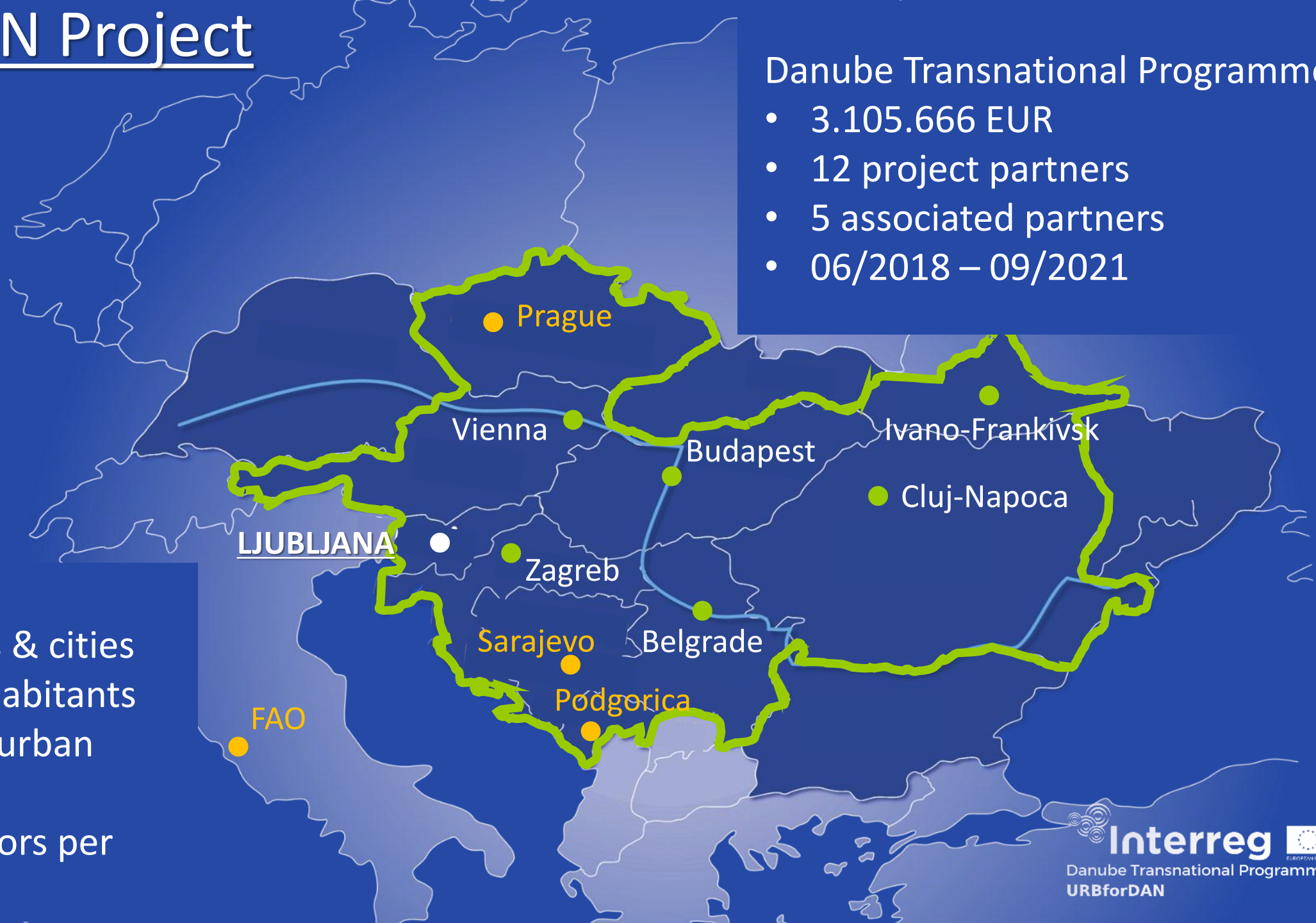
City of
Ljubljana



URBforDAN Project

Danube Transnational Programme

- 3.105.666 EUR
- 12 project partners
- 5 associated partners
- 06/2018 – 09/2021



TARGETING:

- ✓ 10 countries & cities
- ✓ 6,5 mio. inhabitants
- ✓ 35,5 km² of urban forests
- ✓ 15 mio. visitors per year



LJUBLJANA
Golovec hill



BUDAPEST
Hármashatár Hill



CLUJ-NAPOCA
Făget Forest



VIENNA
Danube Island



ZAGREB
Park forest Grmošćica



BELGRADE
Avala Mountain



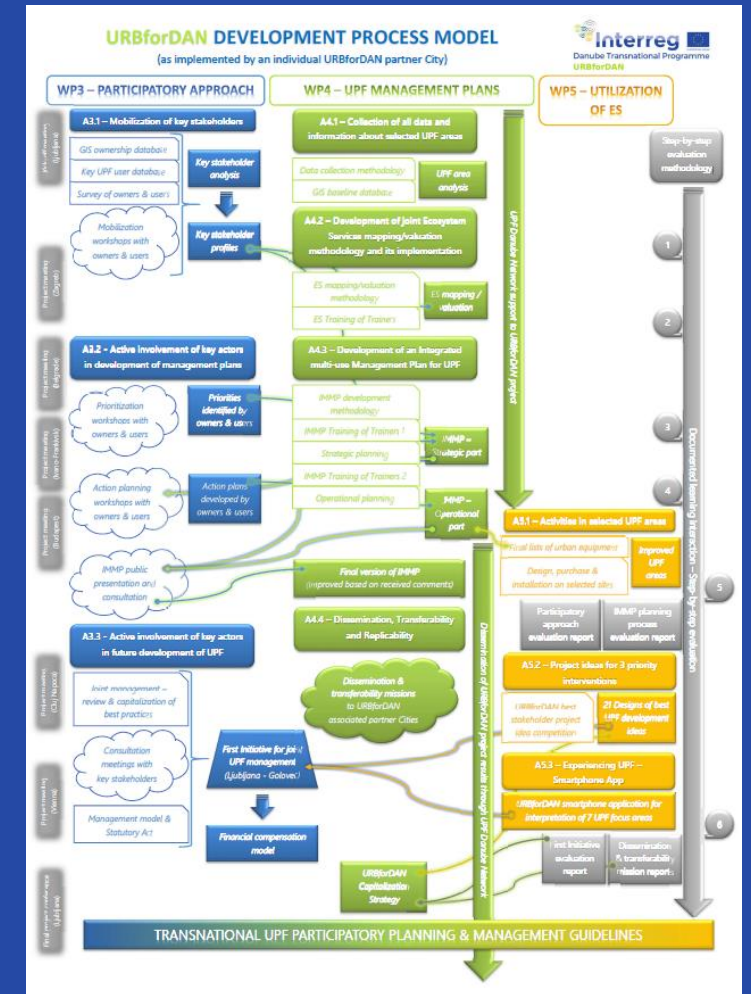
IVANO-FRANKIVSK
Vovchynets Hills

LJUBLJANA - Šmarna gora
ZAGREB - Grmošćica II
CLUJ - Lomb Forest
IVANO-FRANKIVSK -
Kolodiyvka and Dobrovliany forest

ADDITIONAL FOUR

URBforDAN PROCESS

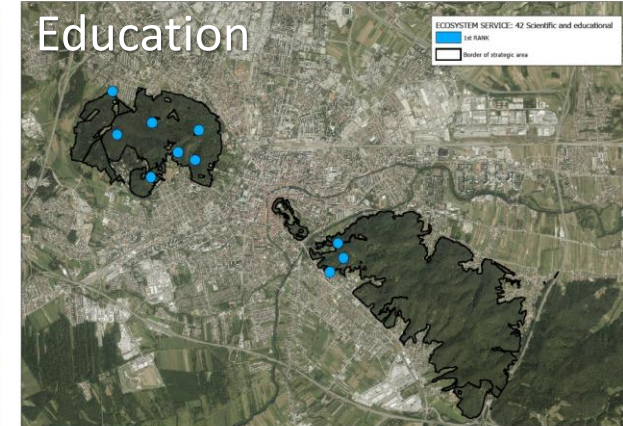
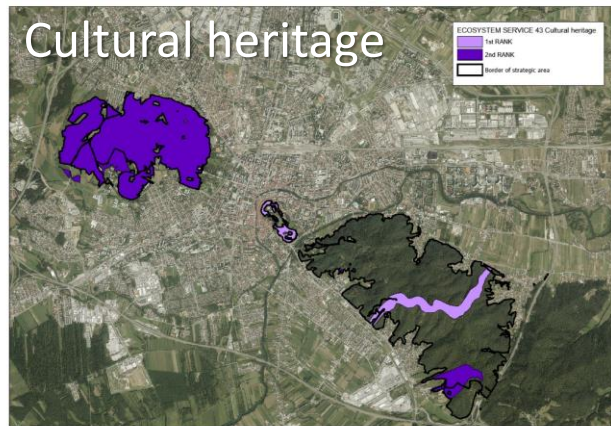
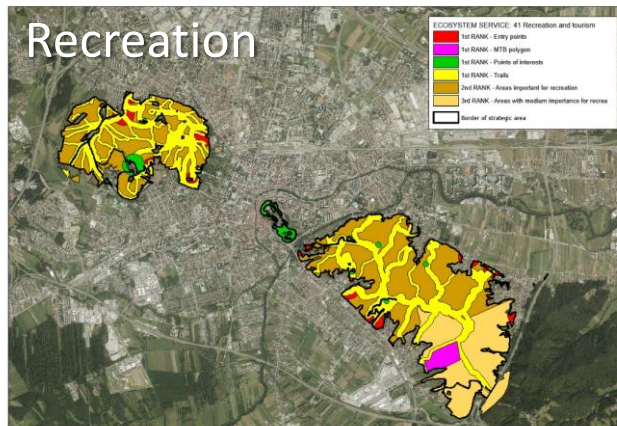
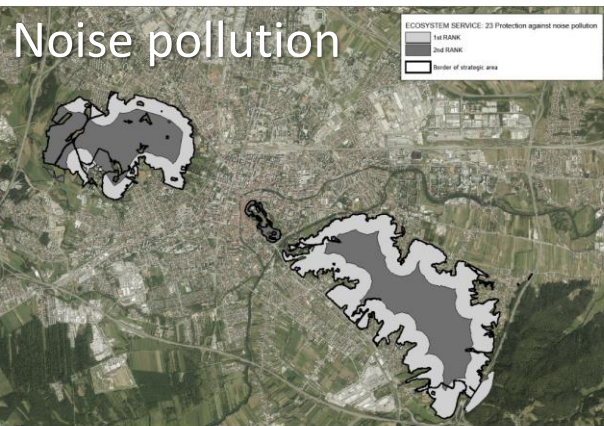
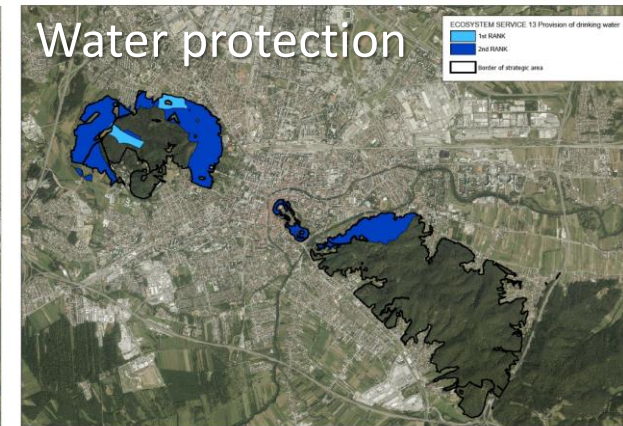
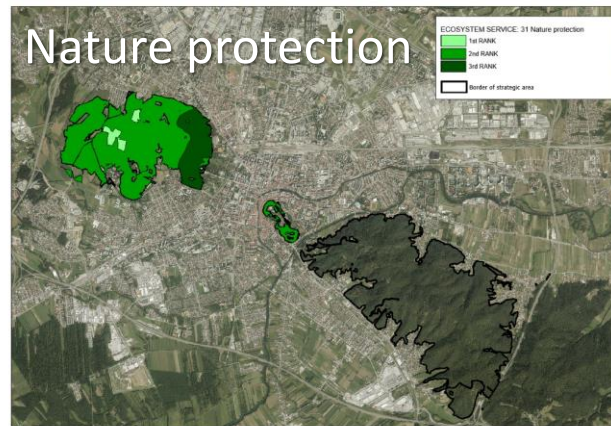
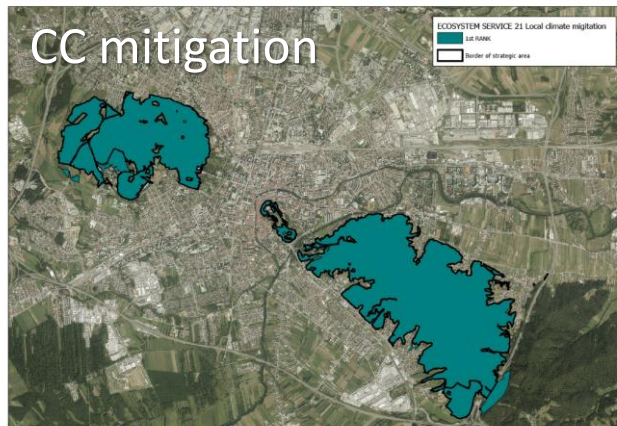
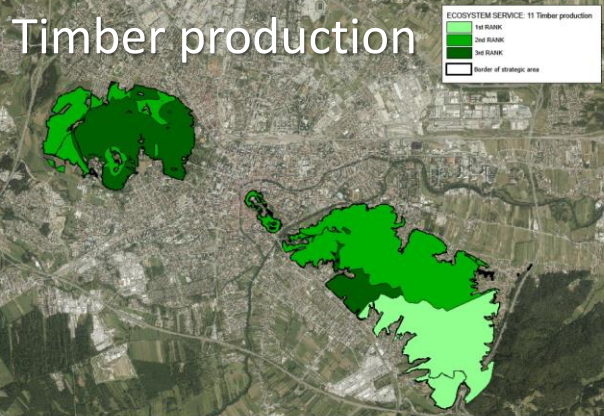
1. Participatory Approach
2. Ecosystem Services
3. Integrated Multi-use Management Planning (IMMP) process
4. Implementing the IMMPs in practice
5. Monitoring



PARTICIPATORY APPROACH









ECOSYSTEM SERVICES



INTEGRATED MULTI-USE MANAGEMENT PLANNING PROCES



- ✓ **Strategic part → for all Ljubljana's Urban Forests**
- ✓ **Operational part → only for the selected focus area – Golovec hill**

-  Ljubljana's Urban Forests
-  Other forests in Ljubljana
-  Green areas
-  Water bodies
-  Ljubljana highway-ring
-  The border of the City of Ljubljana



City of Ljubljana, Golovec hill

IMPLEMENTATION OF IMMPS IN PRACTICE



City of Belgrade

City of Ivano-Frankivsk

City of Zagreb

IMPLEMENTATION OF IMMPS IN PRACTICE



City of Vienna



City of Budapest



City of Cluj-Napoca

MONITORING

- Follow the Strategy and Action plans
- Monitor implementation of Action plans
- Update Action plans if needed
- Keep communication with stakeholders and target groups
- Use different tools to help monitoring (visitor counters)

MAIN OUTPUTS AND ACHIEVEMENTS

- 8 UPF City STRATEGIES and 11 Integrated multi-use management PLANS
- 10 UPF EQUIPPED for multipurpose use
- Participatory Planning & UPF Management GUIDELINES
- Guidance packages and TRAINING OF TRAINERS
- Ecosystem services mapping & valuation METHODOLOGY
- INITIATIVE for joint management of UPF (Golovec case)
- Financial Compensation MODEL (Golovec case)
- SMARTPHONE APP for UPF visitors
- Urban Forest Danube NETWORK



URBforDAN APP



KEY DELIVERABLES

URBforDAN movie



<https://www.youtube.com/watch?v=Bjq4MYTk2A>

URBforDAN final conference



<https://www.youtube.com/watch?v=XFPiDclwwX0&t=2284s>

URBforDAN best idea exhibition



12 Scientific ARTICLES on UPF

S. Posavec i dr.
Otvoreni pristup – Open access
<https://doi.org/10.5552/rms.2020.5>

Strateški ciljevi gospodarenja urbanim šumama grada Zagreba (37-17)
Preliminarno priopćenje – Preliminary note

Strateški ciljevi gospodarenja urbanim šumama grada Zagreba

Stjepan Posavec, Ivica Tikvić, Damir Dramalija, Sergej Šimpraga, Izabela Kuzle

Nacrtak – Abstract

Urbane su šume ključna područja za očuvanje prirodne i kulturne baštine u gradovima, važnih turističkih lokacija i rekreativskih površina. Te za osiguranje visoke razine kvalitete života. Svojim obilježjima urbane šume privlače mnoge korisnike, ali također oblikuju i brojne dileme (upravitelje, vlasnike, interese skupine) kojima je cilj upravljanje aktivnostima u njima. Urbane su šume stoga prostor različitih djelovanja, koja mogu dovesti do sukoba među korisnicima i dioncima, ali i do neodrživog korištenja resursa. U nekim gradovima prisutna je i izrazita fragmentacija posjeda. Isto obilježje gospodarenje. Urbane šume grada Zagreba pokrivaju 345,08 ha, najviše u sjevernom dijelu grada, na obroncima Medvednice. Stalno proširenje i urbanizacija naselja u blizini tih šuma stvara dodatni pritisak i smanjuje površinu pod šumom. Urbane su šume i sastavni dio zelenih površina grada Zagreba te privlače i građane i turiste. Gospodarenje njima zahtijeva posebnu pažnju, s naglaskom na općekonomske funkcije šuma i njihove koristi za zajednicu. U sklopu provedbe projekta URBforDAN (Management and Utilization of Urban Forests as Natural Heritage in Danube Cities) izrađene su smjernice integriranog upravljanja urbanom šumom na primjeru park-šume Grmošćica. Vrednovane su usluge ekosustava, predloženi strateški ciljevi i izrađen operativni plan provedbe obnove toga lokaliteta.


Ključne riječi: urbane šume, usluge ekosustava, koristi, integrirano gospodarenje



Interreg 
Danube Transnational Programme
URBforDAN

URBforDAN Operational plan-
Template

Interreg
Danube Transnational Programme
URBforDAN
Management as Nature
We plan to:
- set new standards
- develop multi-
- improve coordi-
- establish an ur-
PROJECT PARTNERS:


Interreg
Дунайська Трансгранична
URBforDAN
Управління і ви-
ки природної спадщини
Ми плануємо:
- встановити нові стандарти
- розробити ефективні механізми
- покращити координацію між партнерами
- створити Дунайську мережу
Програма співпраці
ПАРТНЕРИ ПРОЕКТУ:


MORE INFORMATION AND KEY DOCUMENTATION

Visit: INTERREG DANUBE

www.interreg-danube.eu/approved-projects/urbfordan

Join: UPF Danube Network

<https://dgroups.org/fao/trees-for-the-cities/urb-for-dan>

Thank you for your attention

Best practice – Revitalization of Streams

Revitalization of Streams – City of Prague



Best practice – Revitalization of Stream



Best practice – Revitalization of Stream

- Before



after



Best practice – Revitalization of Stream

- Before

after



Best practice – Revitalization of Stream

- Before

after



References and Sources

- <http://www.praha-priroda.cz/vodni-plochy-a-potoky/vodni-toky/litovicko-sarecky-potok/>
- <http://www.praha-priroda.cz/>
- <http://www.praha-priroda.cz/vodni-plochy-a-potoky/>
- <https://www.praha.eu/jnp/en/index.html>
- <https://en.wikipedia.org/wiki/Prague>

Best practice – Rooftop Park + Green Street

Rooftop Park – City of Amsterdam



B. Bylon Rooftop Park

Green roof park

- mitigation of urban heat island (decreasing local temperature)
- damper for run off water
- insulation - less energy for heating and cooling
- increase of biodiversity
- socializing, recreation



Knowledge Mile Park

Green street

- filters for urban pollutants (cleaning air)
- cool the air by between 2 °C and 8 °C
- increase of biodiversity
- carbon sink
- reducing cost for air-condition and heating
- increasing property value

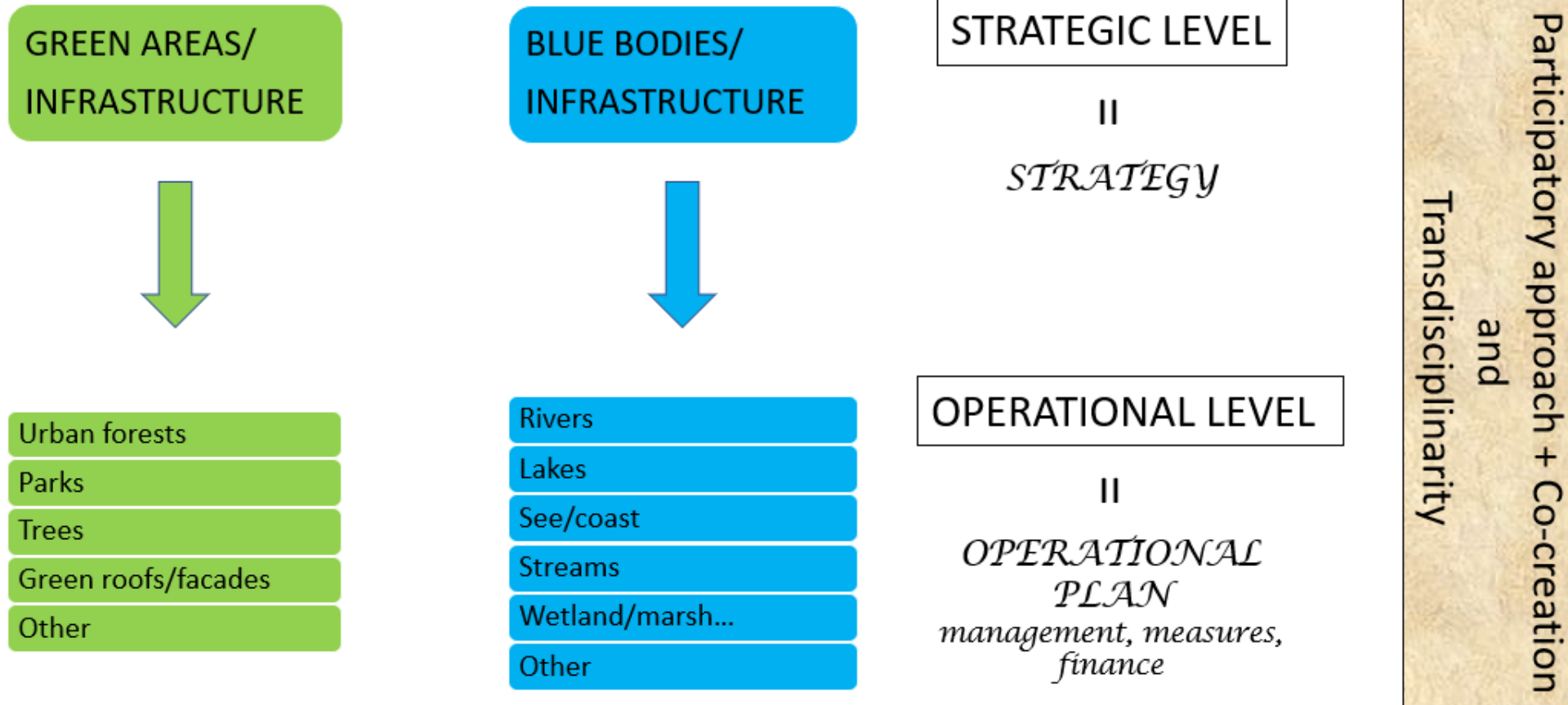


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- <https://www.climatescan.nl/projects/6234/detail>

Planning and Management of Green and Blue areas in cities

PLANNING AND MANAGEMENT OF GREEN AND BLUE AREAS IN CITIES



HVALA