
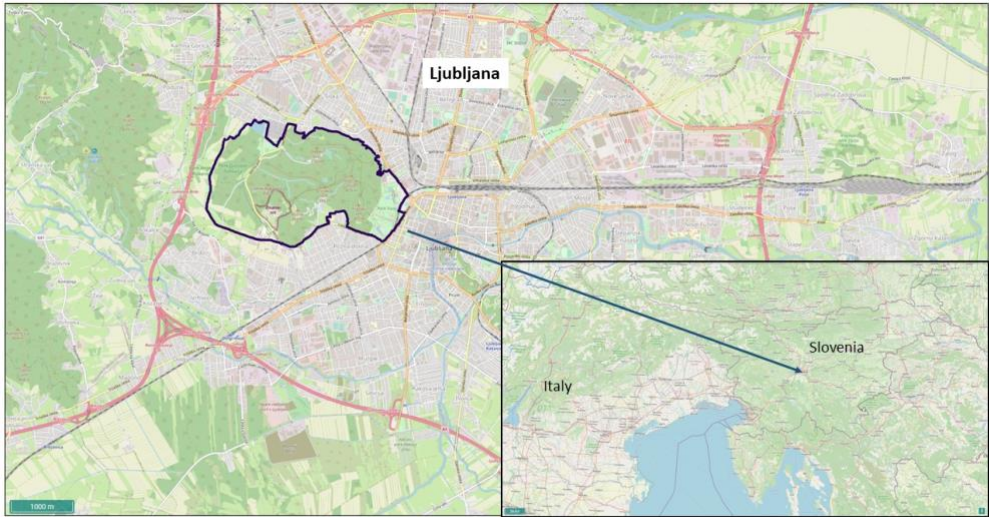


LANDSCAPE PARK TIVOLI, ROŽNIK AND ŠIŠKA HILL – LJUBLJANA, SLOVENIA

Section	 <p>CLEARINGHOUSE 中欧城市森林应对方案</p> <p><i>This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 821242</i></p>
1	<p>TITLE OF CASE STUDY AREA: Landscape Park Tivoli, Rožnik and Šiška hill – Ljubljana, Slovenia</p>
2	<p>INTRODUCTION</p> <p>Landscape park Tivoli, Rožnik and Šiška hill is located in the City of Ljubljana, practically in the city centre itself. This nature protected area has a rich history of being a public urban park enhancing health and well-being of citizens and visitors. Mostly covered by forested area, the Landscape Park comprises a mosaic of different landcover types, forest, public urban park, agricultural land and wetlands, including two relatively big ponds. The recreation area is rich in biodiversity. The area was first protected in 1984, when the then local authorities designated the area a Natural Site of Special Interest in order to conserve numerous natural values and landscape diversity in the heart of an urban area. In 2015, the Municipality of Ljubljana drafted a new ordinance in order to conserve numerous natural values, extraordinary biodiversity, and the landscape diversity of the area.</p>
3	<p>KEY FACTS AND FIGURES OF THE CASE STUDY AREA</p> <p>Biogeographic region¹: Continental/Alpine Surface area: 459 ha Country: Slovenia Region/Province: Slovenia</p>
4	<p>LOCATION MAP(S)</p> 

¹ <https://www.eea.europa.eu/data-and-maps/data/biogeographical-regions-europe-3>



5	<p>NAME OF MUNICIPALITY AND WEBSITE ADDRESS The City of Ljubljana: https://www.ljubljana.si/en/ The Landscape Park Tivoli, Rožnik and Šiška hill: http://parktivolirozniksisenskihrib.si/</p>							
6	<p>LEAD ORGANISATIONS:</p> <ul style="list-style-type: none"> • The City of Ljubljana • JP VOKA SNAGA d.o.o. – the park management 							
7	<p>LOCAL CONTACT(S) Andrej Verlič JAVNO PODJETJE VODOVOD KANALIZACIJA SNAGA d.o.o. Head of Nature Protection Unit Sector for public space maintenance - Landscape park Tivoli, Rožnik and Šiška hill management unit</p> <p>Vodovodna cesta 90, SI - 1000 Ljubljana T +386 (1) 4779 792 M +386 (40) 512 195 E andrej.verlic@vokasnaga.si W www.vokasnaga.si</p>							
8	<p>PRINCIPLE UF-NBS (Urban Forests as Nature-Based Solutions) ACTION(S)</p> <ul style="list-style-type: none"> • Strong visual and landscape amenity • Helps regulate the urban climate and has a mitigating effect on climate change • Regulates urban air quality • Intercepts rainfall and slows water run-off • Is a key element in nutrient cycling • A source of renewable produce • Is a key setting for tourism, recreation, sports training, children’s play and part of an active, healthy lifestyle • Provides extensive health benefits • Provides connectivity and links important green areas together 							
9	<p>OTHER PRINCIPLE NBS ACTION(S) – non-UF</p> <ul style="list-style-type: none"> • City park 							
10	<p>LOCAL STAKEHOLDERS LIST ONLY</p> <ol style="list-style-type: none"> 1. Governing authorities: Municipality of Ljubljana, Ministry for the Environment and Spatial Planning 2. Associations: Fishing Associations Barje and Dolomiti, DOPPS - Birdlife Slovenia, Botanical Society of Slovenia, The Slovenian association for bat research and conservation, Slovenian Butterfly Research and Conservation Society, WWF Adria, Slovenian Society of Plant Biology, Societas herpetologica Slovenica, Biology Students Association, Slovenian Association of Landscape Architects; 3. Citizens: Park users, land owners, property owners, 4. Municipalities: Municipality of Ljubljana 5. Public/private institutions: Public institutions: Office of Urban Planning; City counsellors; Municipalities of local interest; University of Milan, University of Bari A. Moro; Private: Cariplo (bank) Foundation 6. Park planner and authorities: Planner: LP TRŠh Management Unit; Authorities: Dept. for protection of the environment of MOL, Institute of RS for Nature Protection, steering committee; 7. Technicians for park maintenance/monitoring and to educate and support citizens: JP VOKA SNAGA d.o.o., Tisa d.o.o. (arborists), forest and agricultural land owners 							
11	<p>UF-NBS FRAMEWORK</p> <table border="1" data-bbox="229 1832 1479 2116"> <tr> <td data-bbox="229 1832 288 2089">a.</td> <td data-bbox="288 1832 874 2089"> <p>UF-NBS typology</p> </td> <td data-bbox="874 1832 1479 2089"> <p>Parks and Gardens (i.e., large urban public park, amenity green spaces, local areas for play [LUP], woodland play area, tree rows, hedges, species-rich meadows); Natural and semi-natural water bodies and hydrographic networks (i.e., river corridor, lake banks, pond); Choice of plants (i.e., indigenous tree species, non-indigenous ornamental tree and plant species)</p> </td> </tr> <tr> <td data-bbox="229 2089 288 2116">b.</td> <td data-bbox="288 2089 874 2116"> <p>Integration</p> </td> <td data-bbox="874 2089 1479 2116"> <p>n/c</p> </td> </tr> </table>		a.	<p>UF-NBS typology</p>	<p>Parks and Gardens (i.e., large urban public park, amenity green spaces, local areas for play [LUP], woodland play area, tree rows, hedges, species-rich meadows); Natural and semi-natural water bodies and hydrographic networks (i.e., river corridor, lake banks, pond); Choice of plants (i.e., indigenous tree species, non-indigenous ornamental tree and plant species)</p>	b.	<p>Integration</p>	<p>n/c</p>
a.	<p>UF-NBS typology</p>	<p>Parks and Gardens (i.e., large urban public park, amenity green spaces, local areas for play [LUP], woodland play area, tree rows, hedges, species-rich meadows); Natural and semi-natural water bodies and hydrographic networks (i.e., river corridor, lake banks, pond); Choice of plants (i.e., indigenous tree species, non-indigenous ornamental tree and plant species)</p>						
b.	<p>Integration</p>	<p>n/c</p>						

	c. Network/connectivity		Connectivity is ensured by identifying transition zones between built-up urban and peri-urban areas. The Landscape Park is a part of a green belt system to ensure continuity within the ecological network.
	d. Multifunctionality		Multiple functions of green spaces are combined (air water quality, biodiversity with the needs of the community (recreation, social activities, environmental education, areas for dogs), education and research (research institutes and faculties), economic use of forest and agricultural land, cultural institutions etc.
	e. Multi-scale		The park is protected through the national and local, municipal legislation and plans.
	f. Strategic planning processes		n/c
	g. Inter- and transdisciplinary		n/c
	h. Social cohesion and biocultural diversity		n/c
	i. Governance arrangements	I. Project management structure.	Park manager is a public utility company, a part of the local public holding. Both have dedicated directors. The Landscape Park unit is a part of the public space maintenance sector that has its own head. The unit has 4 employees – head of the unit (senior nature conservation councillor), nature conservation councillor, senior nature conservation consultant and nature conservation ranger. All four are authorised nature conservation rangers, a minor offence authority entitled by the Ministry for the environment and spatial planning.
		II. Local community engagement and the nature of their engagement.	Local community may communicate directly to the park manager or to the City. There are some civil societies that engage in dedicated activities in the park (removing IAS, removing trash, ...)
		III. City-scale and/or region-wide governance for the project and/or UF-NBS (city and regional stakeholders and character of their engagement)	Park manager is a public utility company, a part of the local public holding. It has his initiating and supervising body at the City of Ljubljana and professional supervision by the Institute of Republic of Slovenia for Nature Conservation. Moreover, the park has a formal supervision and steering body with representatives of private land owners, a NGO that works in public interest, the Ministry for the Environment and Spatial Planning, the Slovenian Forest Service, the Institute of Republic of Slovenia for Nature Conservation and the City of Ljubljana.
		IV. National and international governance context (national and international stakeholders and character of their engagement)	As a local protected area we are a part of the National System for Nature Conservation. Thus the main national stakeholders are the Institute of Republic of Slovenia for Nature Conservation and the Ministry for the Environment and Spatial Planning. Internationally, the park authority is a member of Parc Dinarides, Europark and Interpret Europe, employees are involved in several other international activities such as EFUF, FAO UPF, etc.

		V. Other (specify)	n/a
j.	Institutional frameworks	I. Project staff responsibilities.	<p><u>The LP TRŠH NC unit at public utility company JP VOKA SNAGA d.o.o.</u> – performing protective, professional, supervisory and management tasks in the Tivoli, Rožnik and Šišenski hrib Nature Park</p> <ul style="list-style-type: none"> • Head of the unit (senior NC councillor) – responsible for professional tasks of the unit, the management plan, organization of the work, yearly planning, a minor offence authority, etc. • NC councillor – responsible for communication and PR, project management, unit’s administration, a minor offence authority, etc. • Senior NC consultant – responsible for biological database, biological field work, reports and monitoring, a minor offence authority, etc. • NC ranger – 70-80% of the time in the field, responsible for park surveillance, monitoring of valuable natural assets, biodiversity and landscape diversity, guiding, forest pedagogy, a minor offence authority, etc.
		II. Project Management Committee (Y/N) if Y.	n/c
		III. Frameworks <u>above the project</u> that exert influence on the project and/or UF-NBS e.g. Municipality, National Forestry Department.	The park’s management plan needs to be respected by the forest management plans, spatial planning, etc. The Nature Conservation act is the umbrella act.
		IV. Private companies that work on behalf of/or are embedded within the project.	Tisa d.o.o. – arborists and forestry
		V. Trade representative organisations that are involved in the project	n/a
		VI. Regulatory frameworks that the project operates within (i.e. bylaws, municipal laws, national laws, licences and leases, partnership agreements etc)	<ul style="list-style-type: none"> • Nature Conservation act • Ordinance on the Tivoli, Rožnik and Šiška Hill Landscape Park (Official Gazette of RS, no. 78/15) • Ordinance on the Management Concession for the Tivoli, Rožnik and Šiška Hill Landscape Park (Official Gazette of RS, no. 1/17) • Provisional Management Guidelines for the Management of the Tivoli, Rožnik and Šiška Hill Landscape Park
		VII. Other (specify)	n/a

	k. Economic frameworks	I. Community fundraising	n/a
		II. Project delivered services and monies raised by project	In order to achieve the conservation objectives of the nature park, the following nature conservation tasks are carried out: 1. Efforts for the conservation and restoration of land use, the implementation of activities and interventions in the area that protect natural assets, preserve biodiversity and landscape diversity; 2. Conservation and restoration of the state of nature, which ensures a favourable situation concerning plant and animal species, their habitats and habitat types; 3. Conservation of mosaic landscapes typical for the nature park; 4. Preventing the spread and removal of non-native species, especially invasive plant and animal species; 5. Performing conservation measures relating to plant and animal species, their habitats and habitat types; 6. Other tasks that protect natural assets and preserve biodiversity and landscape diversity in accordance with the management plan.
		III. City, regional general funds	City budget to cover the cost of the salaries to carry out the yearly programme.
		IV. Special funds e.g. National Lottery, Challenge funds	n/a
		V. National government funds	n/a
		VI. Private sector investment	Corporate social responsibility
		VII. International funds e.g. European Union structural funds, LIFE + etc.	Y – project funds – grant of the Parks Dinarides (WWF)
		VIII. Other (specify)	n/a
	I. Sino/European comparative relevance		n/a
	m. UF-NBS valorisation		n/a
	n. Procurement of UF-NBS		n/a
	p. Ecosystem services (list the three most important services being provided in no more than 50 words)		n/a
	q. Renaturing		n/a