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Naslijeđe kao potencijal za transformaciju urbanih riječnih obala
Heritage as a Transformation Potential of Urban Riverfronts

Kontekst istraživanja
Research context

Transformacija urbanih obalnih područja postala je ključna tema u postindustrijskim gradovima [1–3]. Od 1960-ih godina izgrađen je velik broj projekata uređenja obalnih područja, čime su uspostavljene opsežne smjernice [4-6]. Ipak, neki se projekti i dalje pokazuju neuspješnima ili neprimjerenima s obzirom na svoju lokaciju, proračun, program, vrijeme i vrstu transformacije [7].

Waterfront transformation has become a pressing issue in post-industrial cities [1-3]. Since 1960s, numerous waterfront projects have been built, establishing extensive guidelines [4-6]. Yet, some projects still prove unsuccessful or inappropriate regarding their location, budget, program, time, and type of transformation [7].

Istraživačko pitanje
Research question

Kako utvrditi **kriterije** koji utječu na potencijal gradova za transformaciju riječnih urbanih obala? Kako **naslijeđe** - od objekta do kulturnih krajolika [8], utječe na **transformacijski potencijal riječnih obala**?

How can we determine the **criteria** that influence the riverfront transformation potential of cities? How does **heritage** — from individual structures to cultural landscapes [8] — affect the **transformational potential of riverfronts**?

Metode
Methods

Pregled literature - 1 knjiga [5], 10 članaka [9-19], 2 poglavlja [20, 21] u zbornicima koji se bave naslijeđem i urbanim obalama, prepoznato je 16 kriterija od kojih je 8 izdvojeno kao najrelevantniji
Kategorizacija kriterija - prepoznati kriteriji kategorizirani su u 3 mjerila: mjerilo grada, mjerilo obale (obuhvat uz rijeku koji se transformira), mjerilo obalne linije/naslijeđa
Analiza primjera - odabrani su kontinentalni gradovi na rijekama, s do 300 000 stanovnika koji su proveli ili trenutno provode transformaciju obale i u čijoj transfomaciji naslijeđe ima značajnu ulogu, prepoznati kriteriji testiraju se na tri grada s ciljem prepoznavanja različitih modela.

Literature Review – 1 book, 10 journal articles, and 2 book chapters. 16 criteria were identified, of which eight were deemed most relevant. **Categorization** – Selected criteria were categorized into three scales: the city scale, the riverfront scale (the area along the river undergoing transformation), and the heritage scale. **Case Studies** – Continental river cities, ≤ 300,000 inhabitants where heritage significantly shapes riverfront transformation. The identified criteria are tested on three cities with the aim of recognizing different models of transformation.

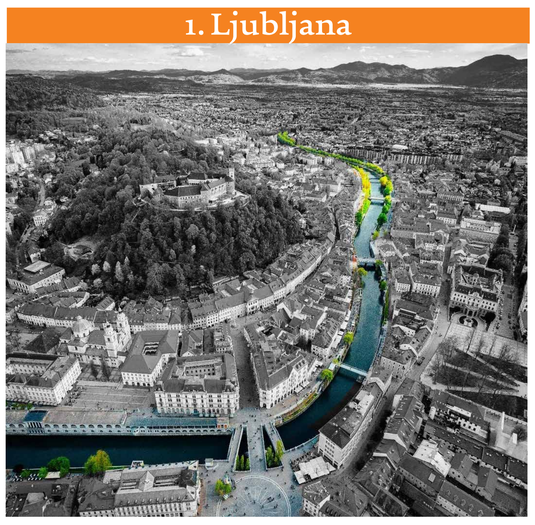
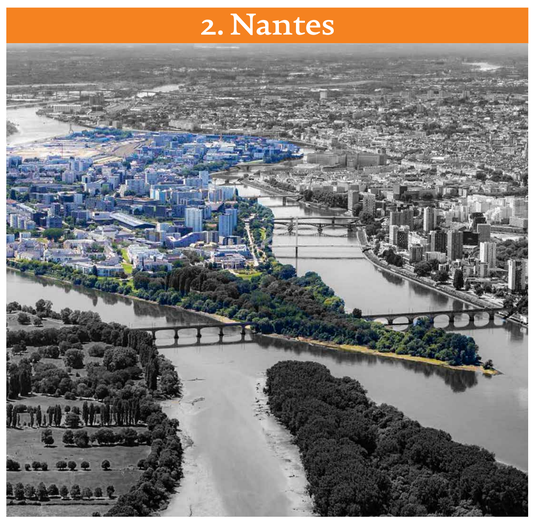
Arhitektonsko - urbanistički kriteriji za procjenu *riverfront* naslijeđa
Architectural-urbanistic criteria for the assessment of riverfront heritage

Osnovna obilježja / General characteristic

Grad, država/ City, country [9]:
1. Ljubljana, Slovenija / Slovenia
2. Nantes, Francuska / France
3. Nijmegen,Nizozemska / Netherlands

Broj stanovnika/ Population [9]:
1. 294 464
2. 281 800
3. 175 002

Rijeka / River[9]:
1. Ljubljanica
2. Loire
3. Waal

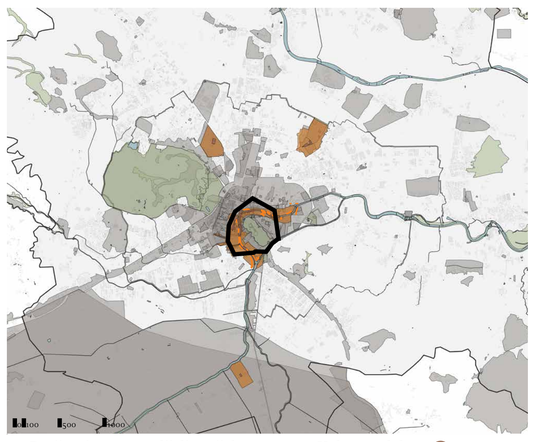
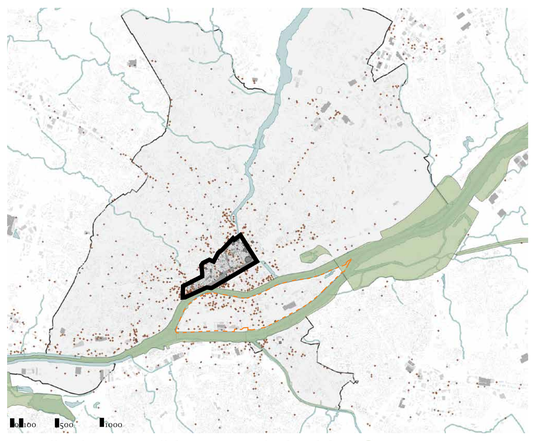
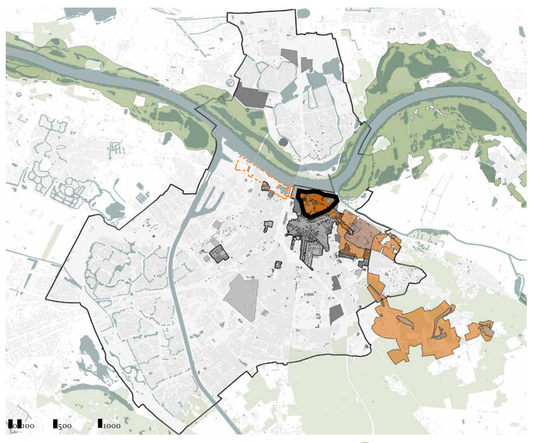
	1. Ljubljana	2. Nantes	3. Nijmegen
			

1. Mjerilo grada / 1. City scale

1.1. Položaj povijesnog centra [9,10]:
Podijeljen s više rijeka i pritoka, Podijeljen rijekom, Uz rijeku, Nije smješten uz rijeku
Historical city centre-river layout:
Divided by several rivers and tributaries; Divided by river, On the edge of the river; Not located near the river

1.2. Kategorija zaštite rijeke [11]:
Prirodno, Kulturno, Mješovito
Preservation status of the river:
Natural, Cultural, Mixed

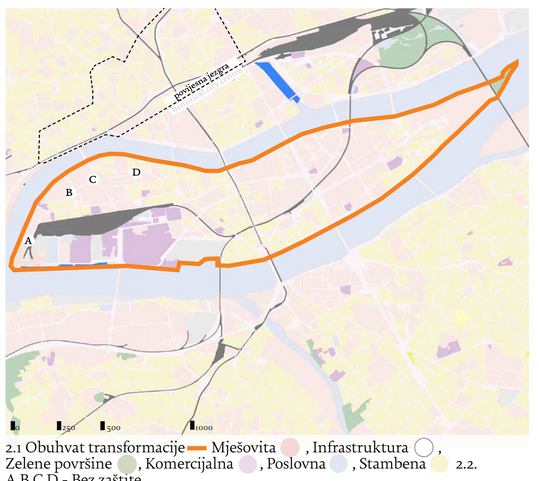
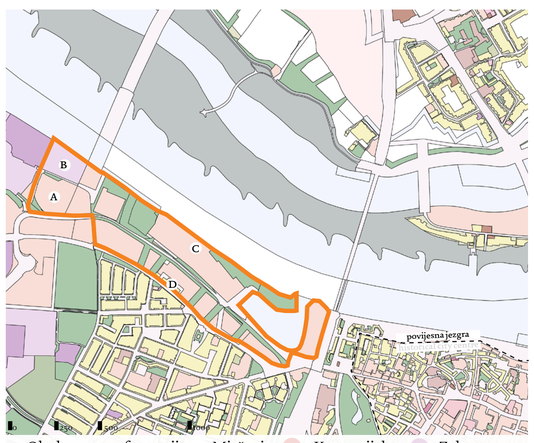
1.3. Kategorija zaštite naslijeđa [12]:
Međunarodno, Državno, Regionalno, Lokalno
Preservation status of the riverfront heritage:
International, National, Regional, Local

			
	1.1 .Povijesni centar podijeljen rijekom — 1.2. Kulturno dobro ● 1.3. Međudržavno ●, Državno ● / 1.1. Historical city centre divided by river, 1.2. Cultural heritage, 1.3. International, National	1.1 Povijesni centar uz rijeku — 1.2. Prirodno dobro ● 1.3. Državno ●, Lokalno ● / 1.1. Historical city centre on the edge of the river, 1.2. Natural heritage, 1.3. National, Local	1.1 Povijesni centar uz rijeku — 1.2. Prirodno dobro ● 1.3. Međudržavno ●, Državno ● / 1.1. Historical city centre on the edge of the river, 1.2. Natural heritage, 1.3. International, National

2. Mjerilo obale / 2. Riverfront / heritage scale

2.1. Planirana namjena obalnog područja [5]:
Komercijalna, Kulturna, Obrazovna, Zelene površine, Rekreativna, Stambena, Poslovna, Infrastruktura, Mješovita
Planned land use:
Commercial, Cultural, Educational, Enviromental, Recreational, Residental, Working, Transportation, Mixed use

2.2 Kategorija zaštite naslijeđa [20]:
Nepokretno kulturno dobro, Zaštićena cjelina, Svjetska baština, Bez zaštite
Preservation status of the riverfront heritage:
Immovable heritage, Preservation areas, Heritage with international status, Without preservation

			
	2.1 Obuhvat transformacije — Mješovita ●, Infrastruktura ○, Zelene površine, ● 2.2. A,B - Nepokretno kulturno dobro; A,B,C,D - Zaštićena cjelina; C,D - Svjetska baština / 2.1. Mixed use, Infrastructure, Enviromental, 2.2. A,B - Immovable heritage, A,B,C,D - Preservation areas; C,D - Heritage with international status	2.1 Obuhvat transformacije — Mješovita ●, Infrastruktura ○, Zelene površine ●, Komercijalna ●, Poslovna ●, Stambena ● 2.2. A,B,C,D - Bez zaštite 2.1. Mixed use, Infrastructure, Enviromental, Commercial, Working, Living, 2.2. A,B,C,D - Without protection	2.1 Obuhvat transformacije — Mješovita ●, Komercijalna ●, Zelene površine ● 2.2. A,B,C - Nepokretno kulturno dobro; D - Zaštićena cjelina 2.1. Mixed use, Commercial, Enviromental, 2.2. A,B,C - Immovable heritage, D - Preservation areas

3. Mjerilo obalne linije/naslijeđa / 3.Waterline/heritage scale

3.1. Položaj naslijeđa u odnosu na rijeku [13,14]:
Uz rijeku, U rijeci, Na rijeci
Heritage location in relation to the river:
Near the river, In the river, On the river

3.2. Stanje naslijeđa [16, 20]:
U izvornoj funkciji, Adaptirano, Djelomično revitalizirano; Revitalizirano, Napušteno, Srušeno
Heritage current state:
Original function, Adapted for reuse, Partially revitalised, Revitalized, Abandoned, Demolished

3.3.Pristup naslijeđu [17,21]:
Puni, Uvjetovani, U blizini, Udaljeni, Bez
Access to the heritage:
Full, Conditional, Proximate, Remote, No access

	A Cukrarna tvornica > muzej/ factory > museum	B Rog Center tvornica > knjižnica/factory > library	A Le Hangar à Bananes skladište > ugostiteljstvo / warehouse > restaurant and café	B Grue Titan Jaune kran > spomenik/crane > monument	A De Vasim tvornica > uredi/factory > office	B NYMA makersplaats vodotoranj>tržnica / watertower > market
	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Izvorno stanje, 3.3. Puni / 3.1. Near river, 3.2. Original function, 3.3. Full access	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access
	C The works of J. Plečnik mostovi, tržnica/bridges, market	D Promenade obala rijeke/embankment	C Les Nefs skladišta > kultura warehouse> culture	D École des Beaux-Arts skladišta > fakultet warehouse > faculty culture	C Honigcomplex tvornica > uredi/factory > office	D Waterkwartier obiteljske kuće/individual housing
	3.1. Uz rijeku, na rijeci, 3.2. Izvorno stanje, 3.3. Puni / 3.1. Near river, On river, 3.2. Original function, 3.3. Full	3.1. Uz rijeku, na rijeci, 3.2. Izvorno stanje, 3.3. Puni / 3.1. Near river, On river, 3.2. Original function, 3.3. Full	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Puni / 3.1. Near river, 3.2. Revitalized, 3.3. Full access	3.1. Uz rijeku, 3.2. Revitalizirano, 3.3. Uvjetovani / 3.1. Near river, 3.2. Revitalized, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Adaptirano, 3.3. Uvjetovani 3.1. Near river, 3.2. Adapted, 3.3. Conditional access	3.1. Uz rijeku, 3.2. Izvorno stanje, 3.3. Bez pristupa / 3.1. Near river, 3.2. Original function, 3.3. No access

Zaključak
Conclusion

Utvrđenih osam kriterija za procjenu naslijeđa omogućuju prostorne analize grada u tri mjerila / kategorije, s ciljem prepoznavanja različitih modela transformacije riječne obale. U nastavku istraživanja utvrditi će se precizni indikatori za pojedine kriterije kako bi se omogućila procjena potencijala riverfront transformacije.

The eight established criteria for heritage assessment enable spatial analyses of the city at three scales / categories, with the aim of identifying different models of riverfront transformation. In the continuation of the research, specific indicators for each criterion will be determined in order to enable the assessment of riverfront transformation potential.

Uslijed visoke razine međunarodne zaštite naslijeđa i položaja rijeke usred visoko urbaniziranog, dovršenog urbanog tkiva, u Ljubljani je primjenjen **model točkaste transformacije** riječne urbane obale. Veći dio naslijeđa zadržava svoju primarnu fukciju uz minimalna unaprijeđenja, a mali broj objekata se potpuno revitalizira i privodi novoj, društvenoj fukciji.

Due to the high level of international heritage protection and the river's location within a highly urbanized and fully developed urban fabric, a **point-based model of riverfront transformation** has been applied in Ljubljana. Most heritage structures have retained their primary function, while a small number of buildings have been revitalized and adapted for new social uses.

Veliki obuhvat, zajedno s brojnim industrijskim naslijeđem i lokalnom razinom zaštite, omogućila je **model revitalizacije gradskog područja** riječnog otoka Île de Nantes u novo gradsko središte sa svim potrebnim gradskim sadržajima. Niska razina zaštite omogućila je i značajne intervencije na objektima, čime su oni prilagođeni novim i raznovrsnim funkcijama - od stambenih do komercijalnih.

The large riverfront area, combined with numerous industrial heritage and a low level of protection, has enabled a **comprehensive revitalisation** of the Île de Nantes into a new urban quarter equipped with all necessary city functions. The low level of protection has also allowed significant interventions directly into the heritage, thereby adapting them to new and highly diverse functions.

Obalno područje Waalfronta u Nijmegenu transformira se u novu veliku stambenu četvrt u kojoj zatečeno industrijsko naslijeđe prima nove javne funkcije koje opskrbljuju okolne, pretežno stambene objekte - **model stambenog susjedstva**. Naslijeđe se minimalno adaptira samo onoliko koliko je potrebno za prihvaćanje novih funkcija.

The Waalfront riverfront area in Nijmegen is being transformed into a large new residential quarter, where the existing industrial heritage enhances the surrounding housing with public amenities — a **neighborhood regeneration model**. The heritage undergoes minimal adaptation, altered only as necessary to accommodate new functions.

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