Towards the Green Capital designing a waterfront in Riga

P5 Presentation V. Prilenska | MSc Urbanism | Delta Interventions Studio | Delft | July 2012 |

project approach working through scales



research & design scales

- city
- waterfront
- local

additional research scales

- delta
- metropolitan region

design on finer scale generates research questions for greater scale and *vice versa* city scale waterfront scale

local scale





highway network (1) by nordregio, 2008



riga location

airports (1) by nordregio, 2008



(1) by nordregio, 2008



ferry lines (1) by nordregio, 2008



riga|

coastal city in north eastern europe

located in daugava delta

country capital

concentrates

- 1/2 of country GDP
- 1/3 of country population /700 thsd/

port city

- passenger port
- cargo port /largest in the country/

well connected

- highways all region
- air connections europe & CIS
- railway CIS
- ferry northern europe, germany



port export import (2) jana seta, 2009

waterfront scale city scale

local scale

(1) beach (above) and

(2) nature reserve kemeri (below)

reflection



riga metropolitan region



region intercity connevtions

context city of riga metropolitan region

riga|

center of metropolitan region for

- work
- study
- entertainment

travel time riga-satellite

• 20min - 2h /bus//train/

for recreation people go to

- jurmala 20min - 1h
- sigulda 1h05min - 1h15min
- · coastal villages in the west 25min - 35min

city scale



economic migration ((1) jana seta, 2009



(2) riots in riga, january 13, 2009



(3) latvian migrants abroad

context city of riga problem - shrinkage

preconditions |

dissolution of Soviet Union > service sector economy

15 years of relative economic decline /1990s, early 2000s/

admission to EU in 2004 /european funds, loans > fake economic growth/

financial crisis on 2009

numbers|

2 waves of emigration /after 2004, 2009/

200 thsd. economic migrants /in 8 years, expert evaluation/

1/4 from the city of riga

more than 60% before going abroad were employed /country looses tax-payers/



based on Krisjane & Bauls (2011)



proportion of migrants by region | based on Hazans (2011)

local scale

spatial relevance location choice spatial quality



based on trip, 2007; brown, meczynski, 2009; lorenzen, 2010;

problem statement

reflection

spatial relevance strategy attract residents



what?

reduce resident emigration and attract new residents

how?

by creating favourable living conditions

examples |

top 10 creative cities in US have extensive recreation facilities /see creative class theory - Florida/

cities with no high-tech component attract people via high place quality /see experience economy and cities -- Lorentzen, Lorentzen/

city branding works /see branding in Turin - Vanolo/ context| framework | problem statement

city scale waterfront scale local scale reflection



city development





nature areas



industrial sites

spatial quality current situation strength & weakness

strengths

[1] large recreational areas

- lakes
- forests

• beach at city periphery /15.7% blue// 28.0% green/

[2] green river islands in city centre

weaknesses|

[1] areas with poor spatial quality

- industrial sites
- brownfield sites around city centre /developed along railway lines// late 19th early 20th c/

[2] infrastructure barriers /modernist planning approach/



city centre river islands (1) zakusala (above) and (2) lucavsala (below)



(3) RER factory industrial site (above) (4) brownfield site at hanzas street (below)

context| framework|

problem statement

city scale

waterfront scale

(1) riga development plan

2006-2012

reflection

spatial quality future situation threat

city development plan | /aimed to improve spatial quality/

[1] built up vacant brownfield sites

[2] densify loosely built industrial sites & turn them into mixed use areas

[3] built up city centre river islands

[4] create new infrastructure connections

threat| /no contribution into spatial quality/

[1] development and gentrification of profitable centre locations

[2] degradation of other industrial locations

/shrinkage/ who is going to use new office, retail, residential spaces?



local scale

nature areas



industrial sites





development proposals by (2) spacegroup (2006, above) and (3) arhis (2006, below)



(5) development proposal by schaller architekten (2007, below)

spatial quality future situation **opportunity**

opportunity|

instead of new built space development new recreational space development

place quality spatial components|

create recreational areas **with** sport facilities

create public | semi-public spaces

improve public transport network

improve | create pedestrian | cyclist network

connect natural | wild places

reuse industrial sites

reduce crime figures /create safe environment/



nature areas



industrial sites



(1,2) example of brooklyn bridge park by MVVA (2003 - ongoing)





(3,4) example of emscher park, ruhr valley

city scale problem statement analysis conclusions | fragmentation & barriers

recreational spaces

- [1] functional levels
 - large weekly use peripheral spaces
 - no small daily use local spaces
- [2] coherence
 - fragmentation
 - interruption by infrastructure
- [3] accessibility
 - linear barriers infrastructure
 - spatial barriers industrial sites

[4] facilities & safety

centralities & amenities |

- [1] cyclist paths, planned
- [2] island park, planned



waterfront scale

city scale

centralities and public amenities | existing

local scale





recreational space provision | without barriers



recreational space provision | with barriers

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framework | problem statement

riga needs a recreational space network which simultaneously

direct benefits

[1] provides residents with daily use local recreational spaces

[2] connects residents to weekly use peripheral recreational spaces via cyclist|pedestrian paths

[3] connects all recreational spaces into one system

[4] improves spatial quality of the city

indirect benefits

[1] improves image of the city

[2] attracts human capital

/according to human capital theory/

[3] attracts new businesses that follow human capital

city scale problem statement proposal | recreational space network

relation to place quality spatial components

create recreational areas with sport facilities

create public | semi-public spaces

improve public transport network

improve | create pedestrian | cyclist network

connect natural | wild places

reuse industrial sites

reduce crime figures /create safe environment/

city scale waterfront scale

local scale

context

local scale reflection



city scale vision green corridors

vision detailed

for further elaboration 3 most important corridors selected

[1] metropolitan regional corridor

 connects riga to satellite towns & nature reserves

[2] city corridor

• connects riga & satellite towns to the sea and the beach

[3] waterfront corridor

- connects city centre to neighbourhoods
- connects neighbourhoods to the riverside



ement city scale

e waterfront scale

local scale | reflection |



city scale vision recreational spaces



forest | (1) forest park, riga



open green (2) lake kisezers, riga



(3) santropol's edible campus, montreal



space with sport facilities | (4) urban basketball, new york

ement city scale

e waterfront scale



city scale vision fill-in spaces



green industrial sites | (1) emscher park, ruhr valley



green residential areas (2) dockside green, victoria



green mixed use areas (3) downtown, portland



some areas left as they are | (4) central market, riga

local scale



nent city scale

add linear and spatial links where it is not possible to make a corridor • dense neighbourhoods • natural barriers /river/ linear links - pedestrian cyclist friendly streets spatial links - tiny public spaces integrated into open spaces with other functions Ŧ

city scale vision links

linear links





(1) malmo, sweden

spatial links





(2) 'parklets', san francisco



1000 2000



number of

inhabitants

> 2 500

2 500 - 5 000

5 000 - 10 00

10 000 - 20

20 000 - 30 30 000



number of employees

waterfront scale motivation why?

waterfront corridor

[1] space on the edge of green | blue landscapes /mutual benefits/

[2] connects city centre to neighbourhoods

[3] connects neighbourhoods to the riverside

[4] space where most people live and work

[5] politically easier to develop as a flagship project



city scale | waterfront scale |

local scale | reflection



waterfront scale historical development city - river detachment

/used to be integrated with the city > city market + port

car traffic development + bridges > detachment/

untill 1860s - defence

river - source of danger > fortification walls facing the waterfront

from 1860s to 1930s - integration |

important functions at the waterfront

- port
- city market

no bridges > lively boat traffic

from 1930s to 1980s - ignorance

port & city market relocated new bridges > cars instead of boats

from 1980s - neglect

bridge + land reclamation > busy highway along the waterfront

waterfront diagnosis map key problem - accessibility 390m /busy highway/ distance between crosings up to 3 km 860m 210m 290m 🔜 - 520m 3.140m [2.850m] 420m landmark/under construction → → good/bad quality promenade o is/no visual link with water * entertainment/under construction 🔜 🗢 is/no access to water shopping mall ÷ passenger port old town <u>م</u> private yacht port city market T swimming place | informal neighbourhood + fishing place | informal catholic church O O easy/hard pedestrian crossing ortodox church no pedestrian crossing industry \$ easy/hard road connection green space | high potential -11 easy/hard bridge connection private garden pedestrian unfriendly square pedestrian friendly urban park parking lot detour **? †** traffic axis 860m distance between crossings traffic node 0

waterfront scale current situation barriers & quality fieldwork results



is no access to the water







easy|hard get on|off the bridge





easy|hard go under the bridge

city scale

local scale | reflection |



reflection

waterfront scale scenarios what to do with the highway?



local scale | reflection









local scale location choice why?

transitional space

- old town
- central train station
- city market

low quality space

- intersected by traffic > air & noice pollution
- no facilities
- no places to stay

space, with landscaping potential |

- city channel /interrupted by a shopping mall/
- city channel park /possible continuation/
- riverside

most difficult location |

- traffic & pedestrian flows
- centralities



local scale current situation centralities & flows

traffic & functional node

5 centralities come together

- old town
- city market
- central train station
- creative quarter (future)
- city

traffic and pedestrian flows come together

- public transport stops
- public transport end stops > return loops
- commuter, visitor, worker, tourist flows

pedestrian flows and centralities are interrupted and separated by highways





city scale



problem statement





city canal

waterfront scale historical reconstruction growth of barriers



(1) city harbour 1900



(2) railway bridges 1930



(2) 13 january street 1930



(3) 13 january street 1960

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context

framework |

reflection



local scale strategy eliminate the barriers park & new connections

phasing |

[1.1] high speed tunnel

[1.2] waterfront promenade

[2.1] relocation of the bus terminal, the shopping mall & the cinema

[2.2] opening the channel & closing the park ring

[3.1] attractions -- water access places, etc.

[3.2] public transport & pedestrian links

relation to city strategy |

[1] elimination of barriers -- infrastructure

[2] recreational spaces with double function

- attraction
- link between other attractions

local scale

reflection



city scale

local scale design masterplan

relation to place quality spatial components

create recreational areas **with** sport facilities

create public | semi-public spaces

improve public transport network

improve | create pedestrian | cyclist connections

connect natural | wild places

reuse industrial sites

reduce crime figures /create safe environment/

city scale |

context|

local scale design traffic flows car & bus



redirected

car-free zone

bus traffic

redirected

new stops added

- to facilitate access
 - to city market
- to avoid return loops



local scale

car traffic | proposed







car traffic | existing



bus traffic | existing

city scale









trolleybus traffic | existing



tram traffic | existing

local scale design traffic flows trolleybus & tram

/redevelop trolleybus traffic in a similar way/

trolleybus traffic

redirected

new stops added

- to facilitate access to city market
- to avoid return loops

tram traffic

significantly redirected

- to cut the area as little as possible
- to 'define' the market area

new stops added

- to facilitate access to city market
- to avoid return loops



pedestrian flows | proposed



commuters | proposed



tram traffic | proposed

pedestrian flows | existing



commuters | existing



office workers | future * *if city market develops catering facilities

local scale design pedestrian flows

new bridges - new shortcuts

compared to existing situation

- · pedestrian routs are shorter
- all pedestrians on the surface /before, in underground tunnels/
- suitable for people with disabilities
- · efficient access to most popular market pavilions

/2 out of 5 groups are shown here/





local scale design landscapes vegetation & paving character



channel park (1) city channel park, riga



(2) parc de la marina, viladecans



waterfront promenade (3) battery park, new york



waterfront terraces hafencity, hamburg

reflection







local scale design edges relationship with the water



(1) battery park, new york



(2) brooklyn bridge park, new york



(3) 21st c waterfront park, chattanooga



(4) kalvebod waves, jds architects

reflection



local scale design squares



through traffic (2) bailey plaza, ithaca



market (3) central market, riga



staying (4) pioneer courthouse square, portland



semi-private (5) berga bazars, riga



X

carlsberg factory patio, copenhagen

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local scale design buildings



pavilions (1) parc la villette, paris



(2) galerie bunker, stephane malka



(3) regent's park open air theatre, london



marine center hafencity, hamburg

context|



city scale

local scale

Riga - a Green Capital of Europe



reflection contribution all scales city spatial quality improvement

all scales interconnected and supplement each other

city scale | network of recreational spaces

every neighbourhood has access to high quality recreational spaces of different functional levels

people can move through the city by bike on foot

waterfront scale | accessible & attractive riverside

most popular recreational and entertainment venue of the city

a 'trademark' of the city

local scale

/a manifestation of the previous two/ an urban park which is a recreational space in itself and a connector between the centralities

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