Archipelago

a Landscape of social spatial opportunities.

In case of Petrzalka, South of Bratislava, Slovakia.
Site Introduction / Selection.

# Literature/ Methodology review.

# Case studies.

# Site Analysis related design.

# Conceptual Design
- Landscape / Urban Structure Strategies.

# Design Concept
- Landscape / Urban Spatial design.

# Design development.

# Detail design
- Specific area

# Design development
- Revise

# Completing Design

# Detail design
- Specific detail / Material.

# Project Title and Abstract.

# Theoretical Structure.

# Methodology and Planning.

# Mapping.

# Conceptual Design.
- Conceptual Diagram
- Site Selection
- Regional Concept

# Design.
- 3D Drawings and Collages.
- Working Model (conceptual).

# Conceptual Diagrams
- Regional Concept
- Design
- Technical Drawing Detail
- 3D Drawings and Collages.
- Presentation Model 1:200

# Integral report (theoretical and Methodological Structure).

# Review Analysis

# Final Design
- Conceptual Diagram
- Regional Concept
- Design
- Technical Drawing Detail
- 3D Drawings and Collages.
- Presentation Model 1:200

# Integral report (theoretical and Methodological Structure).

# Final Presentation.
AD 907: Emerging of Prešporok (Bratislava)

1418: Golden Age of Bratislava
Maria Theresia of Austria

1918: Austro-Hungarian Empire collapsed. Czechoslovakia established.
1919: Bratislava established as a capital of Czechoslovakia.

1993: Divided Slovakia and Czech Republic.
Building Boom / loss of open space.

2014: 367.6 km²
75% in service
15% in agriculture
5% developed land
1% forest

Population:
- 31,000 AD 907
- 42,238 1918
- 79,000 1993
- 115,000 2000
- 425,420 2014
The University of Economics is based in Petržalka, with campuses situated in different locations around Bratislava.

There are 11 elementary schools and 19 kindergartens administered by the borough. Gymnasium high schools include the state-administered Albert Einstein and Pankúchova 6 gymnasiu̇ms and the private Mercury Gymnasium.

The borough is also known for its football club, Artmedia Bratislava, a participant in the 2005–06 UEFA Champions League.

11 Elementary schools
19 Kindergartens
6 Government Gymnasiums
6 Private Gymnasiums

University of Economic

Football clubs - Champion league
FORM / MOVEMENT / SCALE
PEOPLE & IDENTITY

PETRZALKA IDENTITY
Film by Juraj Chlpik
Source: http://festival.azyl.sk/player/play.html?id=1338
PANEL HOUSING
SENSE OF BELONGING / NO COLLECTIVITY / NO IDENTITY.
RHYTHM OF PRECIPITATION, EVAPORATION & PERCOLATION

POSSIBLE FLOOD AREA IN 48 HOURS

PERMEABILITY

Seasonal Storage 14 cm. (100% of Total Area)
INACCESSIBILITY

Fig 18: Most Sna Bridge, the main connection between north-south area.

Fig 19: D1 Highway (Google)
UNUSED SPACES
FRAGMENTATION
LOST CONNECTION
BETWEEN OLD HISTORICAL CITY - NEW RESIDENTIAL DEVELOPMENT
How landscape can give value to the urban space which bring specific sense of community.
How landscape can provide social spatial opportunities while reconnect urban tissue and people in floodplain area.
How to reconnect the relationship of new-old establishment.
What are the strategies that can achieve the better quality space, provide the sustainable and livability city for people of Bratislava.

a Landscape of social spatial opportunities.
Place Attachment.

Fig 1. The tripartite model of place attachment.

Source:
<table>
<thead>
<tr>
<th><strong>Public Realm</strong></th>
<th>stranger or categorical. the world of strangers and the ‘street’</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parochial Realm</strong></td>
<td>communal. Characterized by sense of commonality among acquaintances and neighbors who are involved in interpersonal networks that are located within ‘communities’</td>
</tr>
<tr>
<td><strong>Private Realm</strong></td>
<td>intimate. Characterized by intimacy among primary group members who are located within household and personal networks</td>
</tr>
</tbody>
</table>


**“Third Place”**

“Third places” are places of community life and facilitate and foster broader, more creative interaction. All societies already have informal meeting places; what is new in modern times is the intentionality of seeking them out as vital to current societal needs.


Neutral ground
Leveler
Conversation is main activity
Accessibility and accommodation
The regulars
A low profile
The mood is playful
A home away from home
Regional scale

EXTENDING THE SPACE

TOLERATING

CONSTRUCTED WETLAND

STREAM

NATURE RESERVE

City scale

PLACING OVER THE WATER

VARYING THE RIVERBED

VARYING THE BANK REINFORCEMENT

BIOSWALE

OPEN CANAL

UNDERGROUND SYSTEM

WATER PLAYGROUND

Neighborhood scale

GREEN ROOF

OPEN GUTTER COURTYARD

RAIN GARDEN

PAVEMENT IN COURTYARD

RETENTION BASIN


Illustration by Author

REGIONAL SCALE

Proposal: Connecting Nature corridors
Complete the green structure of the Region.
WATER MANAGEMENT

Regional scale: FLOODED FROM RIVER - By pass protect both old-new city flooding
Local scale: FLOODED FROM CITY - Rain waters storage and discharge protect town flooding and flood in city downstream
Section Diagram
By pass section show different level of channel to support the fluctuated water level, water channel can become ecological green corridor in dry season.
CITY SCALE

Connecting Collectivity
The water channels' appearance make the cityscape as an Archipelago.
Island - Isolateness
People generation - Individualist who want to share
Island - self world which can be connect to the outer world.
Connector - linkage to the others
Border - define an island openness - enclosure.
Island - Isolateness
People generation - Individualist who want to share
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CITY SCALE

Collectivism
Third place
Place Attachment
Identity

Public

Pluralism
Encounter

Center Spine of City

Collectivism
Sharing

Individualism
Retreat
Self-sustaining

Border / Semi Identity

Neighborhood Courtyard
Place Attachment

Solitude

Private
WEEKDAY USAGE DIAGRAM

Worker Network
- home ➔ bus stop ➔ gas station ➔ highway ➔ home
- home ➔ home ➔ home

Pedestrian - Daily walk Network
- home ➔ bus stop ➔ supermarket ➔ church ➔ close by neighborhood ➔ home
- home ➔ home ➔ home

School - University Network
- home ➔ school play yard ➔ university ➔ bus stop ➔ home
- home ➔ home

Weekend Network
- home ➔ old city ➔ shopping mall ➔ forest ➔ city open space ➔ home
- home ➔ home ➔ home

Images and diagrams illustrating various networks and daily activities with icons and labels.
Place Attachment

“The bonding that occurs between individuals and their meaningful environments”
(Scannell, L, 2009. Defining place attachment)
Cultural Landscape

Social Landscape

Natural Landscape

FLUID LANDSCAPE
FLUID LANDSCAPE

Residences
Communities
Activities

Transportation
Tram / Fast track
Bicycle lane.

Pedestrian Circulation
Urban activities

Step-Stair Function
on top of terrain.

Lifted Deck - Amusement on top of terrain.

Ramp passage integrated with terrain.

Ramp passage Cut in terrain.
Neighborhood Garden
TRANSITION EDGE

Defining Neighborhood
RESIDENCE SCALE

Emerging Place Attachment
- Private space
- Not connected to city spine

- Repeating structure
- Concrete block
- Parking in front of block

- View towards each other
- 4 FL.

- Unrelated structure (to themselves, urban infrastructure)
- No private/semi private space
- Same height level
- Connect directly to infrastructure

- RD6 open courtyard → no usage.
- Shops/cafeterias serve outside.
- Different level of height
Collectivism

Third place

Place Attachment

Semi Link

Neighborhood Courtyard

Individual Unit

Public

Pluralism

Encounter

Identity

Collectivism

Third place

Sharing

Individualism

Retreat

Self-sustaining

Border / Semi Identity

‘Place’

Semi Link

Private

Solitude
RESIDENCE 01 : SELF COURTYARD
BORDER WATER
Separated residence from traffic and parking lot.
Tracking local trail.
RESIDENCE 02 : PARALLEL BLOCKS
RAISED BORDER
Define strip area.
Protect from traffic.
Create waterfall sound.
RESIDENCE 03 : SCATTERED SPACE
ISLAND DEFINED
Add territories and arrangement.
Specific functions in each island.

TYPE 03 : SCATTERED SPACE
RESIDENCE 04 : SHARED COURTYARD
CENTER PLACE
Define usage area by adding elements.
Leading elements.

TYPE 04: SHARED COURTYARD
RELATION
FORM / MOVEMENT / SCALE

Capture Collective Space and create Place attachment for Local Using Pure Form for easily recognition.
People Movement - Create Togetherness in City spine by using curvy form to lead an action. Thus Duplicate pure geometric form to create room for urban space.
FORM / MOVEMENT / SCALE

Feeling of Scale - Transferring scale from Existing enormous blocks to Intermediate and smaller scale through form recognition which create Third place.
WATER SYSTEM MANAGEMENT

Residence area → Root Zone Reed Field → Stepped Purification System → Open Water Surface → Well → Pumping System → Out

Residence area  | Border  | City Spine  | Nature
Helophyte Vegetation from left to right: Bulrush, Common Clubrush, Reed Sweet Grass, Yellow Flag and Sweet Flag.

CITY SPINE

Free Water Surface
Reed root flow
Stepped purification bed
SEASONAL ASPECTS

NORMAL LEVEL FLUCTUATION

HIGH LEVEL FLUCTUATION

DRY SEASON

RAINY SEASON
PASSAGE TYPOLOGY

Step-Stair Function on top of terrain.

Lifted Deck - Passage on top of terrain.

Ramp passage integrated with terrain.

Ramp passage Cut in terrain.
FLORA & FAUNA

Corncrake
White Stork
Balon's Ruffe
FLORA & FAUNA
PHASING DEVELOPMENT

2015 2020 2025 2030 2035
REFLECTION
The Archipalego City
Piecing together Collectivities

Europe Metropolis
Central ambiguity its historic centers float in larger metropolitan fields - Historical facade mask the pervasive reality of the un-city.

Source: 'Imagining Nothingness' in: OMA, Rem Koolhaas and Bruce Mau (eds.), SMLXL (Rotterdam, 1995), 198-203.

Contemporary Society

Contemporary Society, according to social and political scientists, is characterised by at least three fundamental directions:

- Increasing human interconnection through a network of relationships that is progressively covering the whole planet;
- The pace and depth of the evolution of human ways of life determined by technological innovation represent an absolute novelty in human history;
- The scale of anthropological and ecological transformation due to the interaction between evolutionary factors (social, cultural, economic, and technological) has no historical precedent.


A tension in the contemporary city in its inability to combine a traditional form of public space, offering cohesion and a sense of community, with the extensive desire for individualisation that is also part of contemporary society.

Individualism

Individualists promote the exercise of one's goals and desires and so value independence and self-reliance and advocate that interests of the individual should achieve precedence over the state or a social group, while opposing external interference upon one's own interests by society or institutions.

Source: [The Free Dictionary](http://www.thefreedictionary.com/individualism) "individualism" on The Free Dictionary

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I (me)

- Individualism is the belief that personal needs are more important than the needs of society as a whole.
- It is said to have first developed among Baby Boomers, born after WWII.
- The researchers examined factors commonly thought to be linked with cultural individualism.
- These include the use of so-called individualist words in books, such as 'I' and 'me', during the past 150 years.
- They also looked at the percentage of single-child families, how many adults now live alone, divorce rates and the prevalence of unique baby names.
- All of these factors, especially uniqueness, are deemed to be key drivers of individualism.

The potential of architecture (and LANDSCAPE) to create pockets of meaning and significance within the urban context.

"Forming a sense of Community that can transcend the purely individual without destroying the freedom of Individuation."

Cultural Dimension of Archipelago

- **Public**: Pluralism
  - Encounter

- **Collectivism**: Third place
  - Sharing

- **Individualism**: Retreat
  - Self-sustaining

- **Private**
in case of Petrzalka, Bratislava

Public

Pluralism

Encounter

Collectivism

Third place

Sharing

Individualism

Retreat

Self-sustaining

Private

'See the City as a place'

'Non place'

'Second place'

'Semi place'

'Semi Link'

'Semi Identity'

'Place'

Border / Semi Identity

Solitude

Center Spine of City

Identity

Neighborhood Courtyard

Place Attachment

Individual Unit

'Place'

'Settlement'

'Setting'
Thank you!