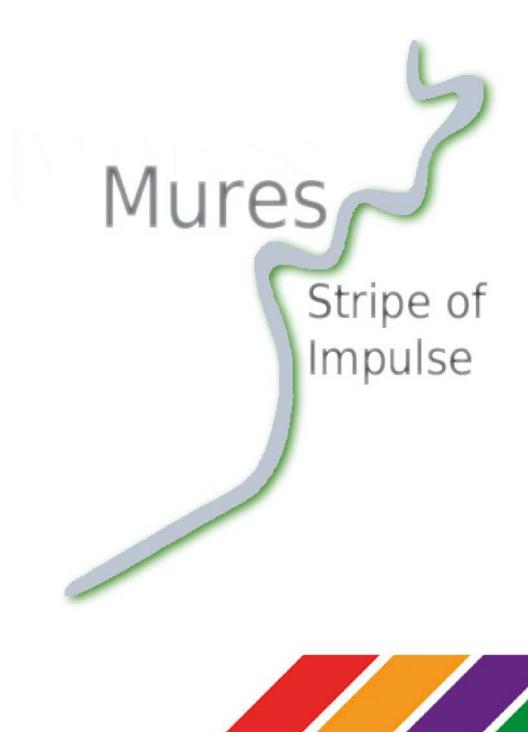
Kristin Vorloeper Sven Rosenkranz Christian Polzin





Analysis

Potentials:



Salt spring / Spa



extraordinary view on surrounding landscape



people already using the area for recreational purpose.
e.g. fishing, barbecue, sunbathing



area is habitat for rare species high biodiversity



water is an attractive landscape element



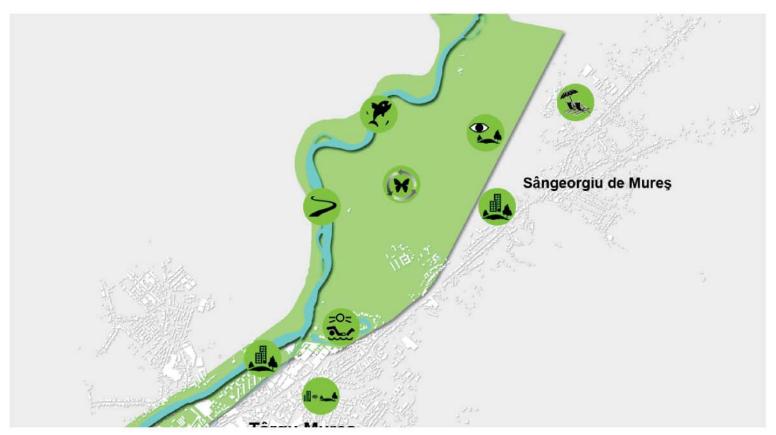
water is an attractive landscape element



Water resort "Weekend" is popular in Târgu Mureş and attracts a lot of people



the project area is not far from the city center



Sângeorgiu de Mures

Conflicts / threats:



high risk of flooding in the project area / restrictions for constructing



promotion of attractions to increase locial / regional tourism



only few possibilities to experience the water from the river / missing infrastructure



illegal waste deposits in the landscape



low appreciation /awareness for landscape



infrastructure to connect the surrounding villages with Târgu Mureş



identity of project area is unclear



no money for maintaining green spaces

Concept

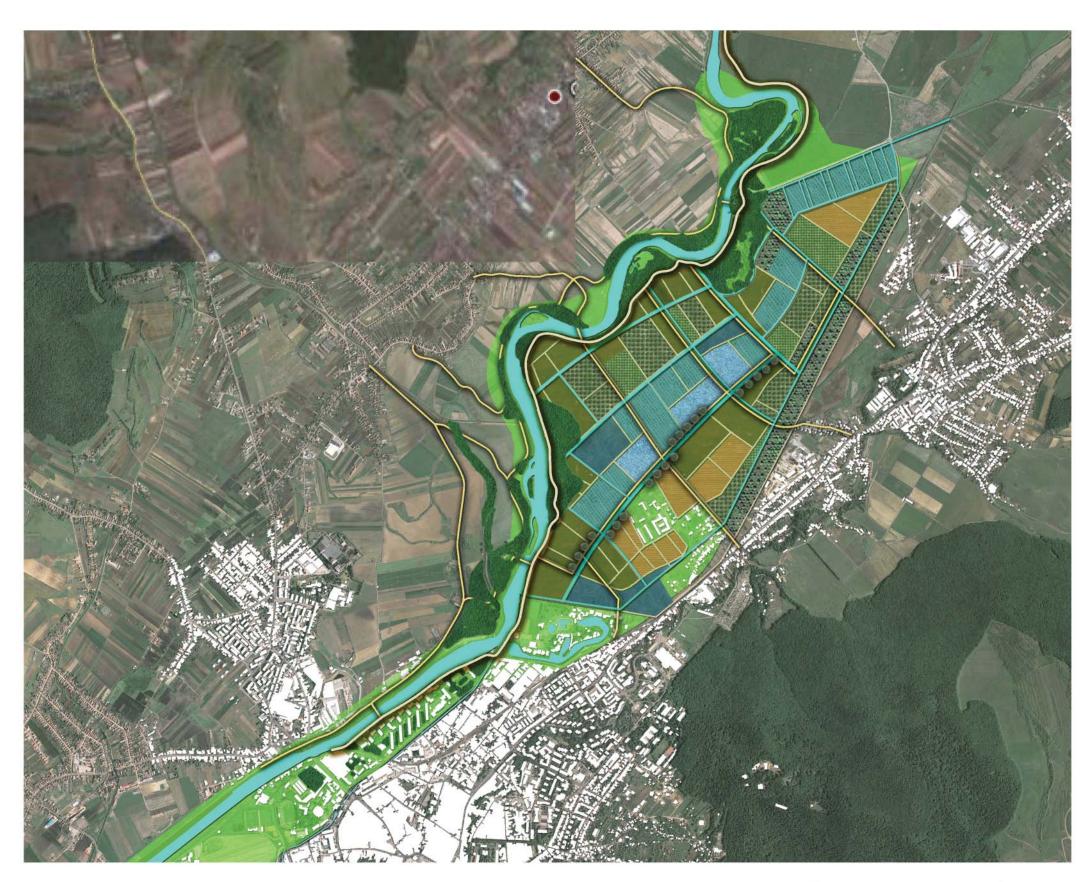
Mission:

- to give a look from outside to the river region
- to bring new ideas and new backgrounds from different countries
- to give new impulses to this area

Vision:

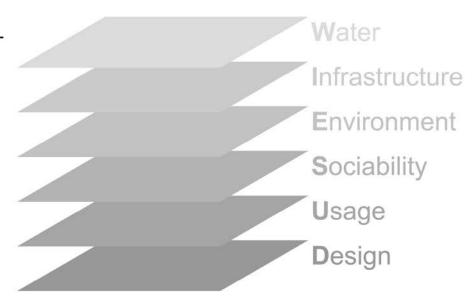
The river Mures is giving impulses for a sustainable future landscape combining possible pressures on landuse with growing recreational needs.

Main goal is to use natural processes of the river as a landscape element and to keep the compartmentalized structure of the culture landscape.



Strategy

To approach the main concflicts we use a layer structure where every layer is a component of our concept.



Water:

Water as the main defining landscape element is very attractive for recreational purposes as well as a carrier for biodiversity.

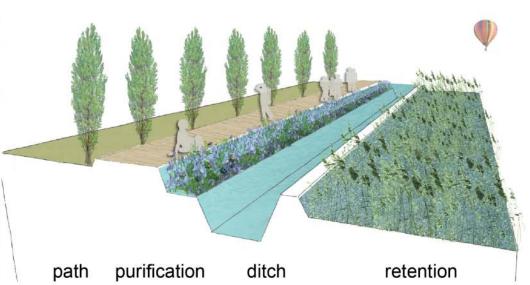
This element appears in various aspects:

stream, wetland and ditches Over time the project area is regulary flooded.



Declared water areas in the center of our project area work as research water basins with emphasis on rentention (flood protection), purification, water plants and water engineering.

These basins can also work as show water gardens.





Infrastructure:

There are only few roads connecting Târgu Mureş with the surrounding villages. They are heavily used by cars and trucks and not very suitable for bikers or pedestrians.

In addition the river works as a barrier in this area.

To enhance the infrastructure is a important impulse for a development in this area.



path of 1st level - urban promenade



path of 1st level - rural promenade

1st level pathes

An "urban" promenade on the dam with possibilities to go down to the water and small terraces for resting and having a nice view to the river and landscape.

Also a "rural" promenade along the river for experencing the nature and the landscape.

Pathes of 2nd and 3rd level are mainly made of waterbound surface. Wooden planks are used in wetlands.



Overview path system



path of 2nd level



path of 3rd level

Environment:

Space within only 5m from the river is protetected by national law. But the surround area is very rich in flora and fauna with rare and valuable species.

To protect and to improve the biodiversity a green corridor along the river has to be established.

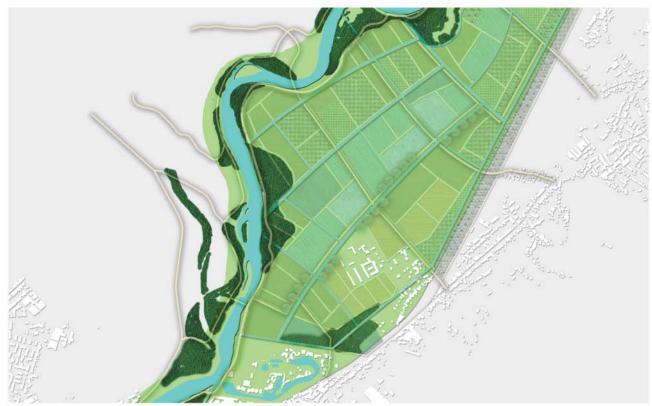
In future the question will come up what to do, if farmland is no longer

needed or profitable. Demand for

This catalog shows possible landuses afterwards combining environmental matters (water) with reacreational

other landuses will increase.

demands.









afforestation / timber



grazing



cultivation of plants for short term plantations / tree nursery



short term plantation / energy crops



research / biotopes



research / purification / retention / hydrology



gravel extraction / swimming ponds



vegetable cultivation



Socialbility:

A good neighborhood in the city quarter next to the river is one factor that the city turns towards the river.

Besides green spaces help the people identify with the riverside.

The peak of the island (an neglected area) marks the transition from urban to more rural area, which is in our case a "Neighbourhood Park", that refers to usergroups that have now the park adopted.







after

To increase the appreciation for local landscape and environment, it is important to involve young people. The benefits are possibly less illegal waste dumping and more awareness for the nature.



schools around the project area



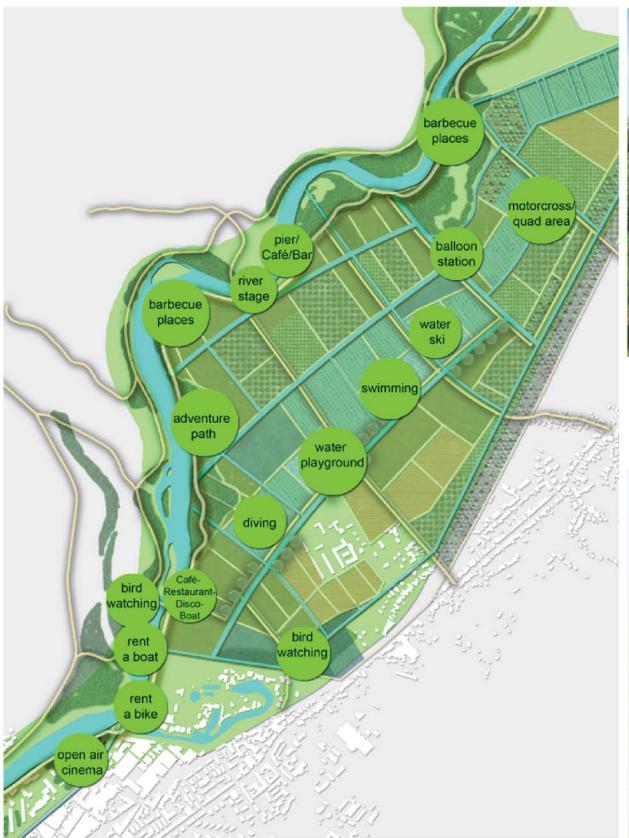
3

Strategy

Usage:

Further north of the "Weekend" there is no noticeable usage.

To attract different usergroups to the project area a sequence of recreational activities is set along the promenade as well in a next step along the water features that can be developed in the future.





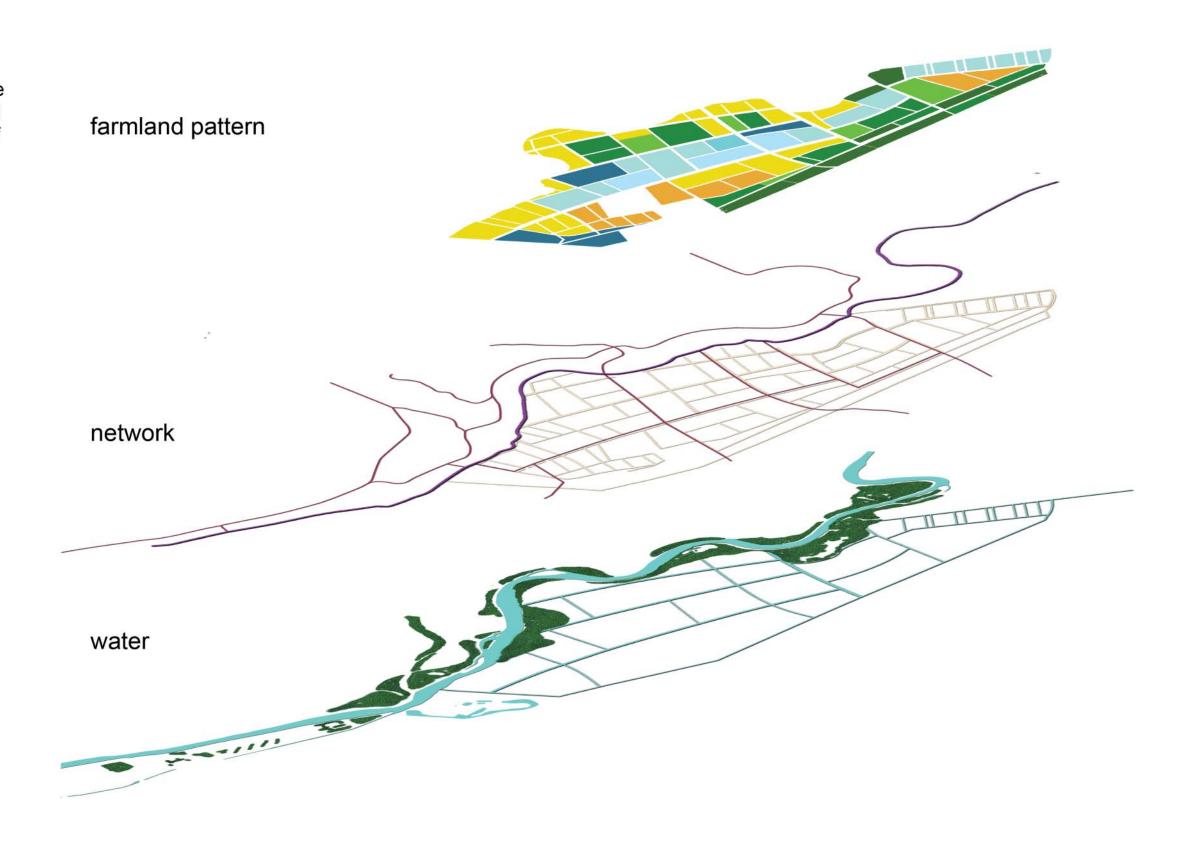




K. Vorloeper - S. Rosenkranz - C. Polzin

Design:

The main design principle refers to the structure given by the typical farmland pattern in the region, the processes of the river Mures and the trailnetwork.





Implementation

Funding:

Moreoften there is no money provided from the municipality to maintain green spaces.

As consequence those green spaces must be economically used and that use influences the structure of the patterns.

Especially use of short term plantation as an alternative to conventional agriculture will be a profitable use.

According to the European Union 20 percent of the energy demand should covered out of renewable energies from 2020 on. To achieve this target, the usage of wood as biomass becomes indispensable. Short term plantations of populus and salix have an enormous potential to produce biomass in an economic effective but also ecological sensitive way. The plantations need only a low input of energy. They are profitable for 20 years and have to be harvested every 4 years.

Form of cultivation	Pattern	Structure	Economic value	Usage value
Gravel extraction		ALAKANAN ALA	€€€€	
Swimming ponds		A TOP TO THE PARTY OF THE PARTY	€	
Research Purification, Retention, Hydrology			€€	
Research Biotopes			€€	
Cultivation of plants for short term plantations tree nursery			€€€	
Short term plantations Energy crops Salix, Populus, Miscanthus	0000	_0888888800_	€€€€	
Afforestation timber	- 22		€	
Grazing			€€	
Vegetable cultivation			€€€	



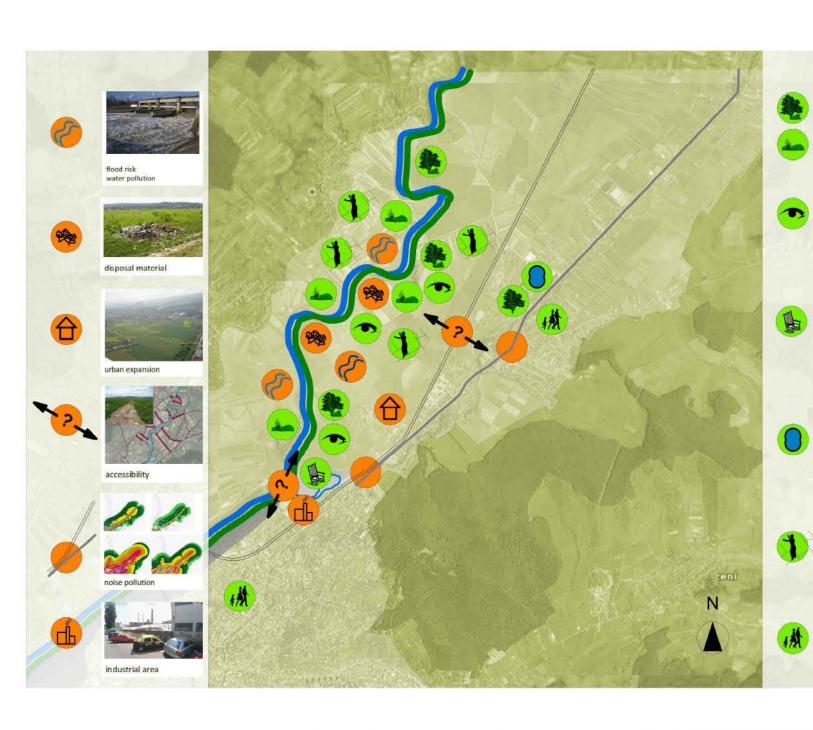
conceptual masterplan - site scale

landscape scene I STRONG PATHWAY STRUCTURE I land use I urban I landscape patterns I yoga school I ecological value I semi - urban I ADDING FUNCTIONS kajak station I nature workshops I health tourism I ADDING ALTERNATIVE INCOME I recreation I transformation I ALTERNATIVE SPACE I dancing school I thematic trails I meadows I signs I local materials I

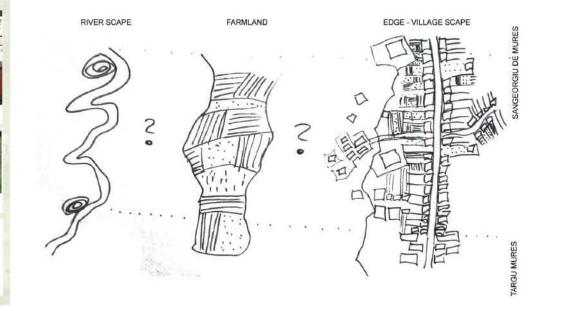








RIVER SCAPE	FARMLAND	EDGE AND VILLAGE SCAPE
+ shape	+ open view	+ landmark (church)
+ dimension	+ transit zone	+ traditional rural patterns
+ diverse biotopes	- some abandoned plots	+ health spa area
+ fresh air		
+ presence of water		
+ view		
TVICW		
+ view		
- access	- disposal material	- access to river scape
	- disposal material - maintenance	- access to river scape - urban sprawl
- access	750 2545 11 2 10 10 10 10 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	HANDONIO EN INVIOLIZACIANI
- access - water pollution	- maintenance	- urban sprawl - "trendy" buildings
- access - water pollution - disposal material	- maintenance	- urban sprawl
- access - water pollution - disposal material - lack of protection	- maintenance	urban sprawl"trendy" buildingsnoise pollution along national road



Analysis synthesis

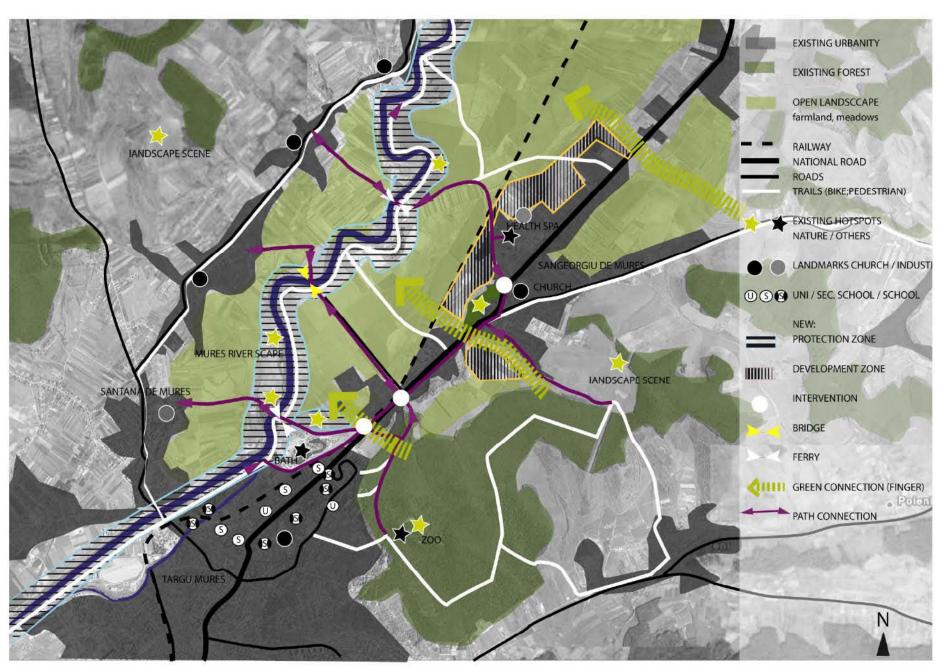
"WHEN MONEY HITS" - URBAN SPRAWL



"WHEN NATURE STAYS" - IDENTITY AND RECREATION



Disconnected Units

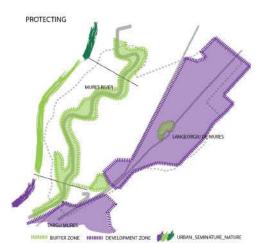


Conceptual Masterplan - city scale

Mures River will get a new Buffer Zone around 25 m wide on each of it's side (left bank and right bank). The existing pathway along the river will be integrated in this zone. There is no allowed urban extension within the area between the railway and the river. The map illustrates also a new development area for Sångeorgiu de Mures. Along the National Road no. 15 (DN15) in Sångeorgiu de Mures there is nearly no view to the Mures valley. The concept proposes 3 "green fingers" (open landscape like farming, meadows) coming from the south east. These will also keep the borders of the village which actually starts to smudge. The concept takes advantage from the existing path and road structures and is just adding a connection over the Mures to Sântana de Mures. The purple lines illustrate the connecting pathways. In terms of quality and orientation, these pathways need a new concept and design concerning material, use and signage. The concept likes to connect the existing hot spots with the path way structure and wants to provide best viewpoints to the landmarks and scenic surrounding landscape.

For creating an identical image there is a need of connecting these mentally and spatial separated units river scape, farmland and settlement. Only then people can be able to discover and get to know the place. People only protect what they need and love.

CONNECTING

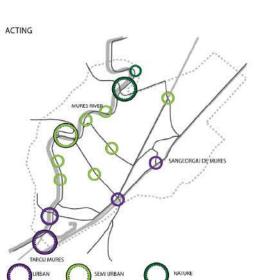


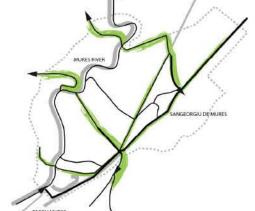
Protecting

Main aim is to protect the vernacular landscape characters. Therefore the concept defines buffer zones for sensitive areas. There will be only use of native species for planting. In addition the concept defines a usability sequence from urban, semi urban to natural uses and materials.



First of all it is the connection of the settlements with the river. Therefore the concept defines main access roads which have to represent visual the access to the river. This can be done with thematic trails, pedestrian and bicycle pathways with shelter, special furniture, local materials and signage. An emotional connection can be created by including education to the area e.g. nature workshops.



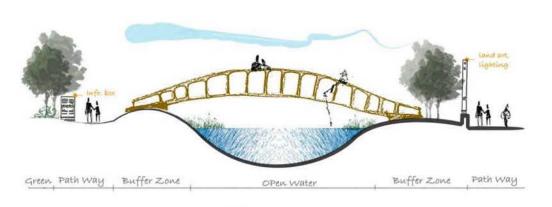


Acting

The new interventions will act in an urban, semi urban and natural sequence. Near settlements you will find intensive interactions and uses. In sensitive areas and especially as far as from settlements it will shift into a more natural interaction – a sensitive use.

Principle of Protecting, Connecting and Acting

- * define buffer zone (15-25m) with restricted usage along the river to ensure maximum protection of the river and enhance the ecological quality
- * define alternative land for urban expansion which has better opportunities as residential zone taking in account the preservation of vernacular landscape and landscape scenery
- connect the river by extending a green finger from the eastern forest which will stand as added value for the wildlife and the leisure activities
- define more access to the river (both sides) from the main road using the existing street and walking trails and define the river paths and pedestrian and biking lanes



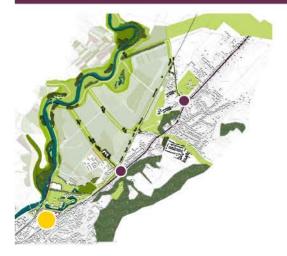








URBAN DESIGN INTERVENTION



Design Elements:

+ Art center | Dancing school | Hotel- Accommodation

Design Principles:

- + Strong intervention
- + Urban materials
- + Active usage





above: Present Situation - Industrial Site next to the "Weekend" Recreational Area

left: Proposed Situation for Industrial Site Reconversion (Urban Design Intervention)





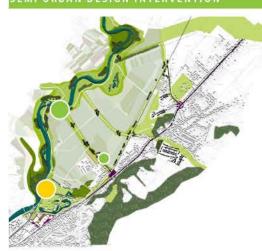




above: Present Situation - Industrial Site next to the "Weekend" Recreational Area

left: Proposed Situation for Industrial Site Reconversion (Urban Design Intervention)

SEMI URBAN DESIGN INTERVENTION



Design Elements:

- + Wooden deck
- + Promenade path
- + Playground for children

Design Principles:

- + Urban intervention
- + Eco-friendly materials
- + Active usage



right: Present Situation - Go Kart Entrance next to the "Weekend" Recreational Area

left: Proposed Situation for Entry Point Recreation Area (Semi-urban Design Intervention)



SEMI URBAN DESIGN INTERVENTION







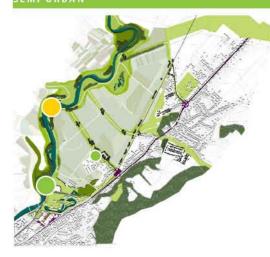


right: Present Situation - Go Kart Entrance next to the "Weekend" Recreational Area

left: Proposed Situation for Entry Point Recreation Area (Semi-urban Design Intervention)



SEMI URBAN



Design Elements:

- + Mures Bridge
- + Rest point
- + Fishing points

Design Principles:

- + Medium intervention
- + Eco- friendly materials
- + Passive activities





above: Present Situation - River Shoreline

left and below left: Proposed Situation for Recreation Area
next to the river - soft (left) and hard (below) version
below: Proposed Situation for Recreation Area Meadow Plain









Design Elements:

- + long plots
- + parking
- + shelter

Design Principles:

- + kick off by farmers
- + tools, water provided by farmers
- + city people rent plot,
- + maintain and harvest





source: http://www.meine-ernte.de/so-funktionierts.html

Alternative agriculture service – providing farmland, transportation

This idea is coming from Germany. Farmers provide the possibilities to rent a vegetable plot for one season nearby the cities. In this example, the farmer sows and plants 20 different vegetables and flowers. The pattern is similar to the traditional Romanian small scaled farming pattern with long plots. They are doing it in an ecological friendly way with bio quality standards. After sowing, the citizens can rent a plot for one season (May to October). The farmers provide a shelter, water and garden tools. The citizens take over the maintenance and they harvest their own bio products.

Facts for the German example:

- small garden, for singles and couples: 45 m² 179€ (season)
- family garden, family and friends: 85 m² 329 € (season)









 regularly professional guidance and help, directly at site if needed (by a farmer or as

an announcement displayed on a board)

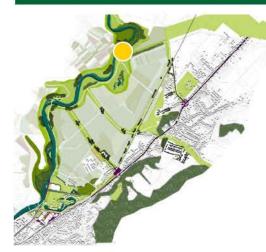
basic tools for garden work, water

- · information about questions concerning vegetable gardening, tips and tricks
- online community and photo gallery
- experiencing nature and people
- 2 hours per week gardening source: http://www.meine-ernte.de

Alternative agriculture service -transportation service

In this concept, cars are not allowed to get close to Mures river. We want to provide other transportation systems, especially in combination with renting stations. This idea could provide an extra income by using the farming vehicles as transportation. In Harghita-Madaras we experienced a tour to the top of the mountain by sitting in a wagon pulled by a tractor (source: http://www.pensiuniharghitene.ro/programs. html?id=5). The same idea can be adopted for the project area to carry boats, people and bikes to their destination point as our group member Fahad already experienced, after a bicycle problema farmer with his horse waggon took him to next road.with his horse wagon to the next road in a village. He paid a small amount of money for this service.

NATURURAL DESIGN INTERVENTION



Design Elements:

- + Birds watchtower
- + Meditation sculpture
- + Research area

Design Principles:

- + Soft intervention
- + Natural material
- + Restricted use





right: Present Situation - Wetland Area above and left: Proposed Situation for Wet-





IMPRESSIONS EXCURSION





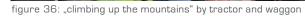








figure 37: little hiking trip

figure 38: view to landscape of eastern Carpatians

figure 39: on top of a holy mountain

figure 40: Landscape near Cortus (Mures county)



figure 41: contacts in Cortus



figure 42: welcoming with our guest families



figure 43: overnight stay - an amazing landscape

4. ACKNOWLEDGEMENT

4. Acknowledgement

The imla course would like to thank the entire Târgu Mures Representatives, Ms. Kovács Angela, Ms. Ilona Csortán, Ms. Mirela Lungu, Ms. Coralia Goicovici, Mrs. Georgiana Branea, Mr. Klaus Birthler, Mr. Csortán Ferenc, along with the entire Corvinus and IMLA Team, especially the Professors who guided us throughout the whole process of project orientation, starting with Ms. Kristin Faurest, Mr. Albert Fekete, Mr. Frieder Luz, Mr. Róbert Kabai and the PhD team, Mrs. Dóra Hutter, Mrs. Anita Szöbölödi, to Mr. Levente Mathiassy from the Maintenance Crew in "Weekend" Recreation Area for all the support, to Antena1 Târgu Mures Crew for healthy publicity, and, of course, the other actors and participants involved in the overall discussions regarding this project, along with full acknowledgement to the original sources referred to in this paper work, which also include the study/research part of our colleagues previously prepared for our analysis and concept part, naming: Fahad Alghamdi, Wendy Laura Cinta, Issia Habou, Ishrat Mahbub, Christian Polzin, Susanne Raabe, Sven Rosenkranz, Asma Sahboon, Daniel Scheuffele, Kristin Vorloeper, Yujun Zhang. A special thanks goes out to all the involved parties in helping us collecting data: the Water Agency (Directia Apelor), the Environmental Agency (Mr. Peter Ábrán and Mr. Calin Cengher), the Agriculture Agency (Directia pentru Agricultura si Dezvoltare Rurala).

5. References

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Targu Mures Municipality (Official Website) http://www.tirgumures.ro/ Local Agenda 21 http://www.undp.ro/download/LA21_mures%5Bcounty%5D__2004-2005_eng_final.pdf

Real Estate Developments http://targumures.olx.ro/vand-parcele-de-teren-tg-mures-iid-113897232

 $Suggestion\ of\ Design\ Furniture\ and\ Materials\ http://www.gallowaygranite.co.uk/gallery/large/bench-waterfront.jpg$

Suggestion of Design Furniture and Materials http://www10.aeccafe.com/blogs/archshowcase/2011/04/27/holstebro-storaastream-in-holstebro-denmark-by-okra-landscape-architects/

Farming Concept in Germany http://www.meine-ernte.de
Local Transport Concept in Romania http://www.pensiuniharghitene.ro/programs.html?id=5].

IMPRESSIONS STUDIO WORK

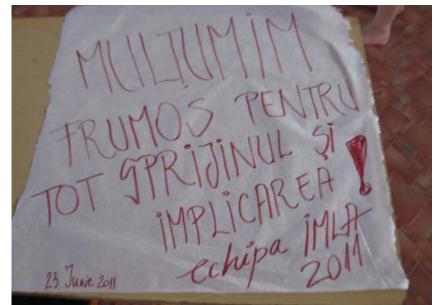






figure 45: working studio



figure 46: "imla's on the run" - railway on site



figure 47: group work in new studio, at weekend area



figure 48: working place - weekend area of Targu Mures



figure 49: terraces of pension Anna - view over the project area



figure 50: after final presentation - barbeque time



figure 51: visit from vize president of Asop (Romanian Landscape Architects)



figure 52: final presentation - here "Agro Landscape Park Mures"



figure 53: the imla team - after final presentation

Mala

International Project June 2011 | Supervisor: Prof. Dr. Frieder Luz | Prof. Dr. Albert Fekete | Prof. Dr. Kristin Faurest impressum: Susanne Raabe

List of participants:

IMLA 2009/2010 Fahad Alghamdi I Wendy Laura Cinta I Issia Habou I Ishrat Mahbub I Christian Polzin I Susanne Raabe I Sven Rosenkranz I Asma Sahboon I Daniel Scheuffele I Kristin Vorloeper I Yujun Zhang