

D 5.5.1: PLANS AT THE MUNICIPAL/INTERMUNICIPAL LEVEL FOR THE SPATIAL ORGANISATION OF CULTURAL HERITAGE Golubac & the Iron Gates



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What is DANUrB Project?

DANUrB - a regional network building through tourism and education to strengthen the "Danube" cultural identity and solidarity. Cultural network aims to strengthen the Danube regional cultural identity and to create a common brand by fostering transnational cultural ties between the settlements along the Danube, and by exploring the unused or hidden cultural and social capital resources for a better economic and cultural return





SURVEYING THE IMAGE OF GOLUBAC 40 Marija Cvetković, teaching assistant and PhD candidate 44 **FORMING THE SPACE** SYNTAX OF GOLUBAC Jelena Marić, teaching assistant and PhD student **SUMMING IN SWOT** 48 ANALYSIS Dr. Branislav Antonić, teaching assistant ING NEW DESIGN 50 S & SCENARIOS Dr. Branislav Antonić, teaching assistant **DESIGNING NEW** 64 . **SOLUTIONS FOR GOLUBAC**

Dr. Branislav Antonić, teaching assistant



O. INTRODUCTION Prof. Dr. Aleksandra Djukić

The Faculty of Architecture – University of Belgrade has got a long history of cooperation with local Municipalities and Faculties from Serbia and abroad on different projects within the studio courses. The results from this cooperation, in the form of visions and scenarios for future development, as well as Master projects and urban design, are useful for development new ideas and could be used as a background for new urban and action plans.

The cooperation within DANUrB project has been realised with Golubac and Smederevo as Associated partners, and it included the involvement of local authorities, stakeholders and citizens. The students from obligatory course Methodology of Urban Design from the Master course Master of Integrated Urbanism did the research and projects for Golubac and students from the last semester of the same Master course did their Master thesis and Master projects for Smederevo. The process of research and design included the research of documents and materials, in situ work and meetings with stakeholders and all interested parts in city development. As the main topic of the research was strengthening of the cultural identity and solidarity along the Danube, students In their project's tried to find the answers on the research questions: what the cultural identity is, how can we defined it and how we can use it in urban development, regeneration and promotion of a city. They are also searching the answers about the authenticity and uniqueness of local cultural identity and its

Research polygon - the Iron Gates and Golubac Towns.

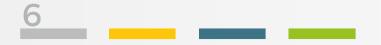
Golubac is a small town located along the Danube with rich and valuable natural and cultural heritage. Although, the town has been shrinking during the past half century and it suffers from the luck of accessibility and infrastructure, and facing many socio-economic challenges today, it has a lot of potentials for development of tourism regarding the medieval Golubac Fortress nearby, which has been recently reconstructed and the entrance of Iron Gate next to it. The newest incentives and investments have made little influence to overcome this situation.

On the other hand, the Iron Gates are a large transboundary protection area, with "Đerdap" National Park in Serbia and "Porțile de Fier" Natural Park in Romania. The entire region presents a huge and rich ecosystem, with four inner gorges and three inter-valleys. The landscape is characterised with many specific and different segments of scenery.

Small towns and villages along the Danube in Iron Gate have got a different impact across the gorge. The most important change that was done during 1970s is the formation of large Iron Gates artificial lake, which lead to the flooding the lowest part of the gorge with all previous islands and the reallocation of several settlements (Orşova, Donji Milanovac) and the most valuable heritage sites (Tabula Traiana, "Lepenski Vir" archaeological site), leaving old settlements to be flooded. Accordingly, formation of the lake formed a

use in forming the urban brand and the part of a new "Danube cultural promenade". new riverside, too.

However, there are many (>50) localities of immovable cultural heritage that are protected by Serbia and even more that are



preliminary protected or even not included in official protection lists. These localities are sprawled across the gorge, so they can play the role of nods in the prospective spatial development of network for cultural tourism in cultural routes

Golubac municipality has developed a lot of planning and strategic plans for the most attractive areas within its territory. It has enacted 12 important spatial and urban plans, urban design projects and strategic documents. More than half of these documents are mostly essentially orientated towards tourism.

The Spatial Plan of Republic of Serbia and the Spatial Plan of Municipality of Golubac are strategic plans and incorporated both strategic and regulatory elements by law. The Spatial Plan of the Republic of Serbia 2010-2020 is an umbrella document in territorial planning Serbia. Landscapes are well-elaborated in this plan in two major topics – 'nature and ecology' and 'sustainable use of heritage'. They are also represented in all sections of the plan, from planning objectives till the implementation at the end of the plan.

The main intention of the Spatial plan of Municipality of Golubac is strengthening of tourism development, in accordance with valuable cultural heritage and, particularly, the possession of Golubac fortress as a special cultural asset as well as preserving the natural heritage and identity.

The General Urban plan is focused on the built area within the town and supports mixed-

of tourist infrastructure is placed as well as the bicycle route and pedestrian path along the riverbank.



Fig. 1: The first national workshop in Golubac: students and teaching staff from the course "Methodology of urban design" and local experts (source: B. Antonić)

Expectation from the project and contributions

The relationships between cultural heritage, specific patterns, identity on one side and different concepts, approaches and instruments of urban development on another one was investigated. The focus was on development of regional network through tourism, education, strengthening cultural identity and solidarity.

The expected results were development of the region and Municipality, incitement of cultural identity, connecting the existing settlements and creating common brand, as well as research of not recognised and hidden cultural capital.

use and mixed-density development in the part of the town along the river, where a mix of non-residential facilities is planned. This is also the area where the main concentration

The results should contribute to development of spatial – cultural network "Danube cultural promenade", which would connect all the settlements.

1. METHODOLOGY Prof. Dr. Aleksandra Djukić

The course Methodology of Urban Design is the obligatory course at second semester of Master Academic studies – program at Master of Integrated Urbanism. The course takes place for hours per week.

The course goals are to introduce the students with the methodologies of urban design and to accept the general methodology recognised by RIBA, which could be described as a process in four phases: analysis, synthesis,

appraisal and decision, that pass through a series of linked decisions. The focus is on the training of students for work in the field of urban design, i.e. the development of their abilities to understand, systemise and implement the different methods of urban design, as well as to use acquired knowledge in practice – in urban plans and urban design projects.

The course consists of theoretical part and theoretical lessons.

Theoretical part includes the following topics:

- Introduction in the methodology of urban design;
- The review of research methods and techniques which are used in the field of urban design;
- Implementation of different methods in urban design, Dialectical process;
- Adequate organisation of research;
- Definition of criteria for the evaluation of optimal solution.
- Practical part includes the practicing of acquired knowledge in situ, i.e. on two selected polygons: the historic core of Smederevo and Golubac Fortress with the central part riverside of the town, through following steps;

- Defining the problems that should be examined;
- Organising of the entire research;
- Creating a design concept;
- Defining the programme for the concept evaluation;
- Developing and presenting planning scenarios
 development scenarios, with outcomes;
- Checking previous steps and outcomes on the selected polygons.

Teaching is conducted through interactive and multimedia lectures (ex-cathedra lectures, discussion, surveys), through group work during practical classes and through the elaboration of acquired knowledge by its presentation (colloquia).

Work in situ is necessary part of practical work as well as use of methods and techniques presented in theoretical part of the course, such as mental mapping, space syntax, research data on internet.

The main aim of colloquia is the audit of the student implantation of obtained knowledge in a concrete site.

Learning outcomes of the course

Attending lectures and acquiring presented information, students should:

- Obtain their knowledge about the different methods of urban design and the possibilities of their use in practice;
- Develop their ability for work in the states of both wide autonomy and active collaboration;
- Expand their capacities to link and combine
- Analysing the concrete polygons by the different methods and techniques of urban design, In situ research;

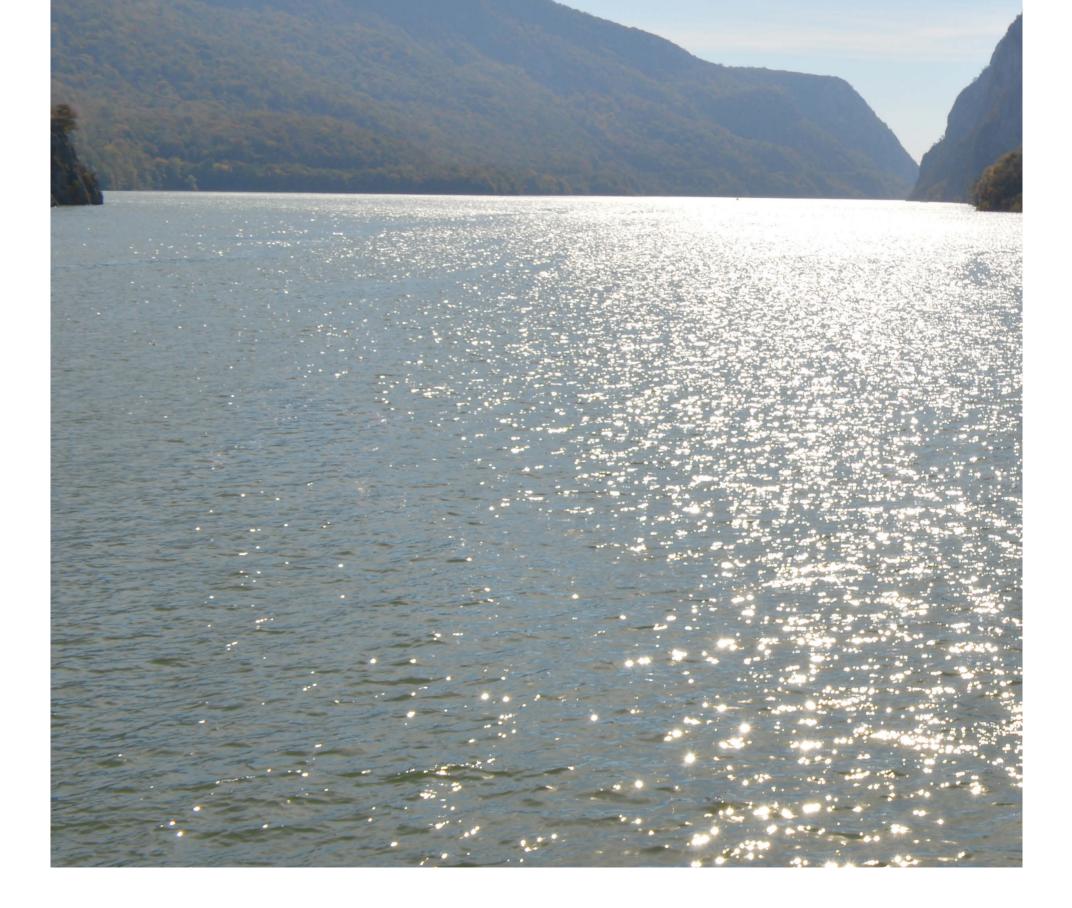
theory and practice in urban design and

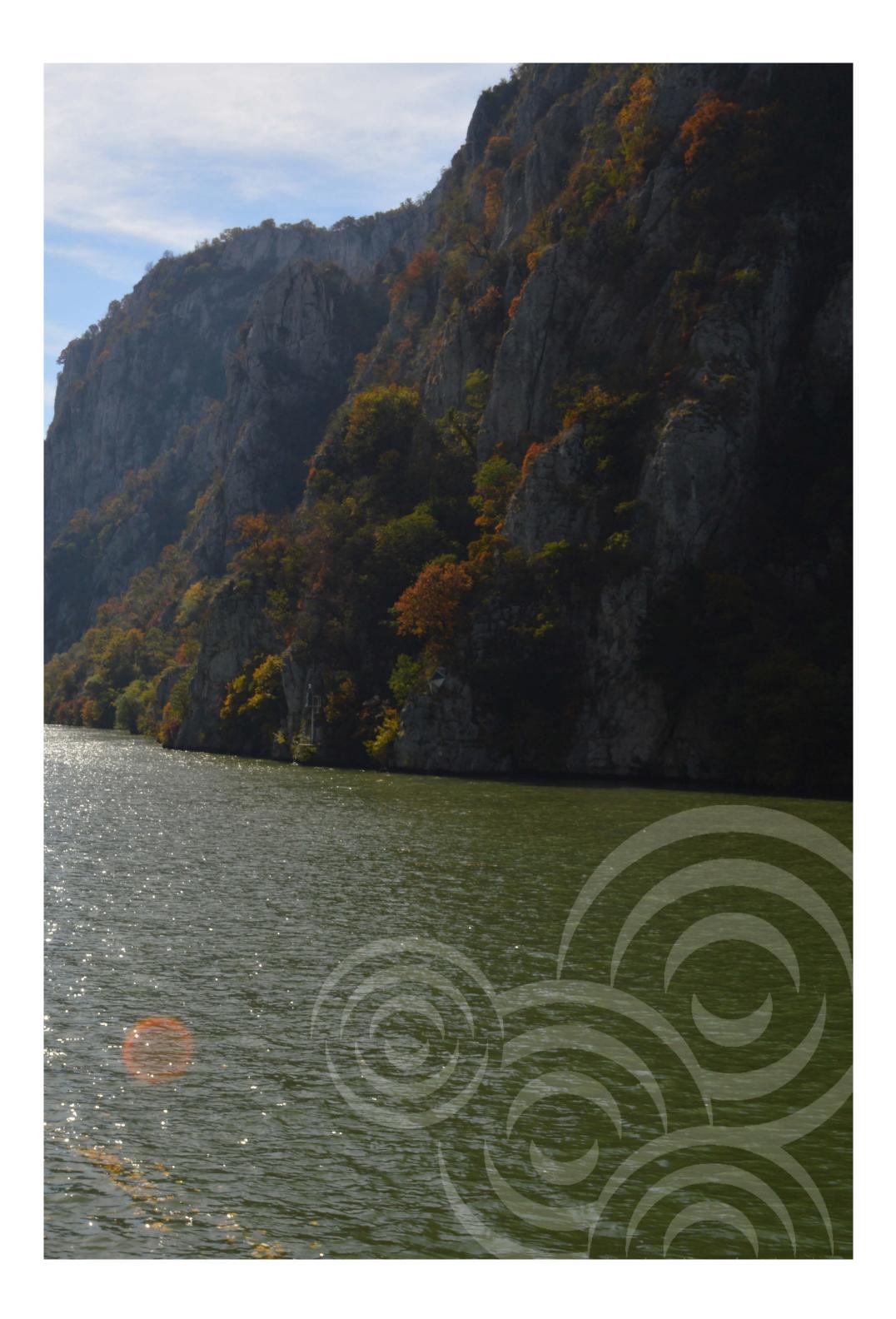
• Improve their skills in the various types of communications (verbal, written, graphical and digital).











2. THE IRON GATES MACRO-REGION Milica Cvetanović, PhD student

The Iron Gates is a gorge in Southeast Europe. It is located at the lower Danube and is a boundary space between Serbia and Romania. On both sides, it is protected due to its natural and cultural significance – in Serbia as a national park, and in Romania as a natural park. In Serbia, the location of the gorge is in its eastern part.

With a length of 100 km, the Iron Gates Gorge crosses the Carpathian ranges and connects Panonian Basin with the Pontian Basin (Marković & Pavlović, 1995). The Danube valley in this gorge is composite, which means that narrower and wider parts change.



Fig. 1: Veliki and Mali Kazan with the narrowest part in the Iron Gates Gorge - 180 m (source: B. Antonić)

The Đerdap National Park was declared in 1974. It spreads along the right bank of the Danube, from Golubac to Karataš near Kladovo. It is the largest national park in Serbia, and by its characteristics is the most complex. This park is known by great natural diversity and numerous cultural and historical monuments (Jovičić, 2009). Three municipalities – Golubac, Majdanpek and Kladovo manage this national park. The area of the gorge is actually accumulation Đerdap Lake, which was created after the construction of the hydroelectric power plant Đerdap I in 1972. It is the largest artificial lake in Serbia. In terms of river traffic, the gorge has a good position since it is on the route of the Danube Corridor or Corridor 7. It has positive effects in attracting tourists on cruisers. State roads 34 and 35 (smaller part) pass through the gorge. Via state road 33, the road 34 is connected to the most important road in Serbia - the highway A1, which is part of the E75 road (connects Greece and Norway). However, the land traffic position is not enough transparent so most foreign tourists still come by river road.

Natural heritage of the Iron Gates in Serbia is characterized by numerous geomorphologic features and plant species. The borders of the national park that separate it from the rest of Eastern Serbia are the mountains: Miroč (768 m), Veliki Greben (655 m), Šomrda (806 m) and Liškovac (803 m). The mountain area of the Đerdap National Park is dissected with the valley of the Porečka River (Jovičić, 2009). The territory of the Đerdap National Park is situated on the border of two different floristic regions: the middle-European region of temperate forests and the Ponto-South Siberian or steppe-forests floristic region (Stevanović, 1996). In this area there are more than 1.100 plant species, and especially forests of beech and oak forests are known. The fauna of this area is also rich and various (Jovičić, 2009). It is thought that at least 200 bird species visit this area throughout the year. Numerous species of mammals are present, including: wildcat, bear, wolf, jackal, chamois, deer, otter and others. A great number of species of insects, amphibians and reptiles also inhabit this territory (Macura at al., 2012). The cultural and historical significance of the Danube banks in the Iron Gates Gorge is big. Historical data on the right, Serbian bank speak about periods thousands of years



before the new era. The Iron Gates is best known for Mesolithic and Neolithic culture and historical settlements such as Lepenski Vir, Vlasac and Padina. Roman, Byzantine, Slavic and Ottoman cultures also lefted great significance. There used to be many more archaeological sites, cultural and historical monuments. By raising the dam due to the construction of the hydroelectric power plant on the Danube, most of these sites from various periods have been submerged.

Municipalities Golubac, Majdanpek and Kladovo have made a decision to proclaim a geopark whose beginning will be near Golubac, in the part of Usije-Vinci. Currently, it is being labeled, and some parts of the geopark will coincide with the borders of the national park.

In the geomorphological and geological view stands out the Boljetin River canyon, which is also part of the nature reserve. It is recognizable by its visible layers of sediments that date back to the time of the Tethys ocean. This canyon is one of the most valuable objects of geo heritage in this part of Serbia and also an inevitable place for adventurers. Among the narrower and wider parts of the Danube valley in the Iron Gates, by its beauty stands out the gorges Veliki and Mali Kazan (also known as Danube Boilers), 19 km long. The width of the Danube at this point is 180 m, which is the smallest width in the entire gorge, and the biggest depth in this part is 68 m. In several places in the gorges there are karst springs. The remains of Trajan's king of Dacia, but the view on it is possible from the Serbian side.

Lepenski Vir is considered to be the home of the oldest European civilization. The locality is dislocated, moved 100 meters away from the original location. It is estimated that it is about 9000 years old and that the culture of Lepenski Vir lasted about 2000 years. During that period, the look of the houses in Lepenski Vir has never changed.



Fig. 2: Archaeological site Lepenski Vir was a prehistoric urban settlement (source: B. Antonić)

The inhabitants of Lepenski Virwere fishermen and had some knowledge of nature. They had developed religious-magic and ritual practices. The characteristics of the space were similar to all the early settlements - a large compactness in a small area, enclosed with stone or wooden fence (Đorđević, 2009). The houses were trapezoidal structures with lime plaster floors containing numerous large stone sculptures and other symbolic artefacts (among other finds), together with a record of complex burial practices associated with the structures and the areas between them (Bonsall at al., 2008). Today the archeological site is the central part of the museum of Lepenski Vir. It is a modern building with an archeological site in the central part, an impressive museum exhibition and media

Road can be seen, as well as the monument in the rock – Tabula Traiana (Trajan's board). (Stanković, 2008). On the Romanian side of this part of the gorge there is the famous statue in the rock – the face of Decebalus,

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contents. However, tourist signaling to the site could be improved.

Tabula Traiana (*The Trajan's board*) is the best preserved monument of the Roman culture in the Iron Gates Gorge. It is a sign in Latin that speaks of the great undertaking of building a Roman road through the gorge, during the regency of Emperor Trajan. The road was completed at the beginning of the second century. The inscription on the board is engraved in a rock (Petrović, 2004). During the construction of the hydroelectric power plant Đerdap I (1963-1972), the Roman road was sunk, and Tabula Traiana was cut from the rock and re-set 21.5 m above the former site. Today is visible from the river.

Medieval **fortress Golubac** is located at the entrance to the Đerdap National Park. It is one of the most recognizable fortresses on the lower Danube and attracts a large number of visitors. During the last years the fortress was renovated and reconstructed, and the road that had previously led through the fortress was displaced. Near the site, there is a modern visitor center and a dock. The construction of an ethno complex near the fortress is also planned.

The area of the National Park is in general poorly populated and it is also characterized by absence of larger industrial plants in the surrounding environment and lower level of construction of transport infrastructure (Jovičić, 2009). The process of depopulation and aging of the population spreads beyond the borders of the national park. The largest number of settlements in the gorge is rural (with the exception of Golubac, Donji Milanovac, Kladovo and partly Tekija). Still, urban settlements are smaller centers and the process of urbanization is actually a bit slow. Agriculture is limited, in certain places and prohibited. There are potentials for the development of viticulture. The main initiator of the development of this region is tourism. Due to the sensitivity of the area and its protection, tourism must be sustainable and environmentally oriented. Cultural tourism should be established as the primary because in its frames it would include visits to natural resources, since all cultural motives of the Iron Gates are in a unique natural environment.

The intermixture of various ethnic groups -Serbs, Romanians, Czechs, Turks, Germans, Hungarians. etc. - in the area of the Đerdap National Park has produced a richness of ethnography and folklore traditions passed from generation to generation (Patroescy & Vintila, 1997).

Spatial plan of the special purpose area of the international waterway E80 - Danube (Pan-European Corridor VII) mentions construction of docks and marinas at priority locations, such as border sections. It was also said that the direct positive effects of the corridor development of the Danube waterway and its surroundings are expected from tourism. According to plan, Danube is recognized as an important tourism route, but mostly for luxurious tourism. The plan mentions new waterway development projects in the municipality of Golubac such as a cruise pier at Golubac Fortress and a renewed marina next to the center of Golubac Town, as well as marinas in Lepenski Vir, Tekija and nautical center in Poreč bay. The small settlements like Usije, Vinci, Dobra, Brnjica are included among potential locations for small marinas. (IAUS & IUV, 2015). Most of the priorities from this plan related to the area of the Iron Gates Gorge are still not fulfilled.



Spatial plan of the special purpose area of the **Derdap National Park foresees the adoption** of the Law on the Đerdap National Park and the program of protected area management. Priority activities that are planned: protection, presentation and controlled use of the area, preservation of natural areas, protection and improvement of the state of immovable cultural goods, construction and arrangement of new contents in the function of tourism (marinas, docks, visitor centers), development of rural tourism, development of hydropower, construction and modernization of the road network (construction of a bypass at Golubac Fortress), arranging of mountain, excursion, hiking, fishing and bicycle trails (bicycle trail on the Eurovelo 6 route). In addition the basic environmental protection to priorities, intensification of trans-national and international cooperation is also planned cooperation at the local level with Romanian municipalities on the Danube (IAUS, 2012).

The opening of the reconstructed fortress is planned for the spring 2019, but the tourist infrastructure in Lepenski Vir is not fully completed. The biking trail on the Eurovelo 6 route starts from the settlement Vinci to Golubac fortress and is still not completed due to lack of finance. About 70% of the trail is done, but for the rest the help of European funds is necessary. Spatial plan of the special purpose area of the Derdap National Park says about the Law on the National Park and the program of protected area management. The law is not passed, but it is the Management Plan of Derdap National Park. The most

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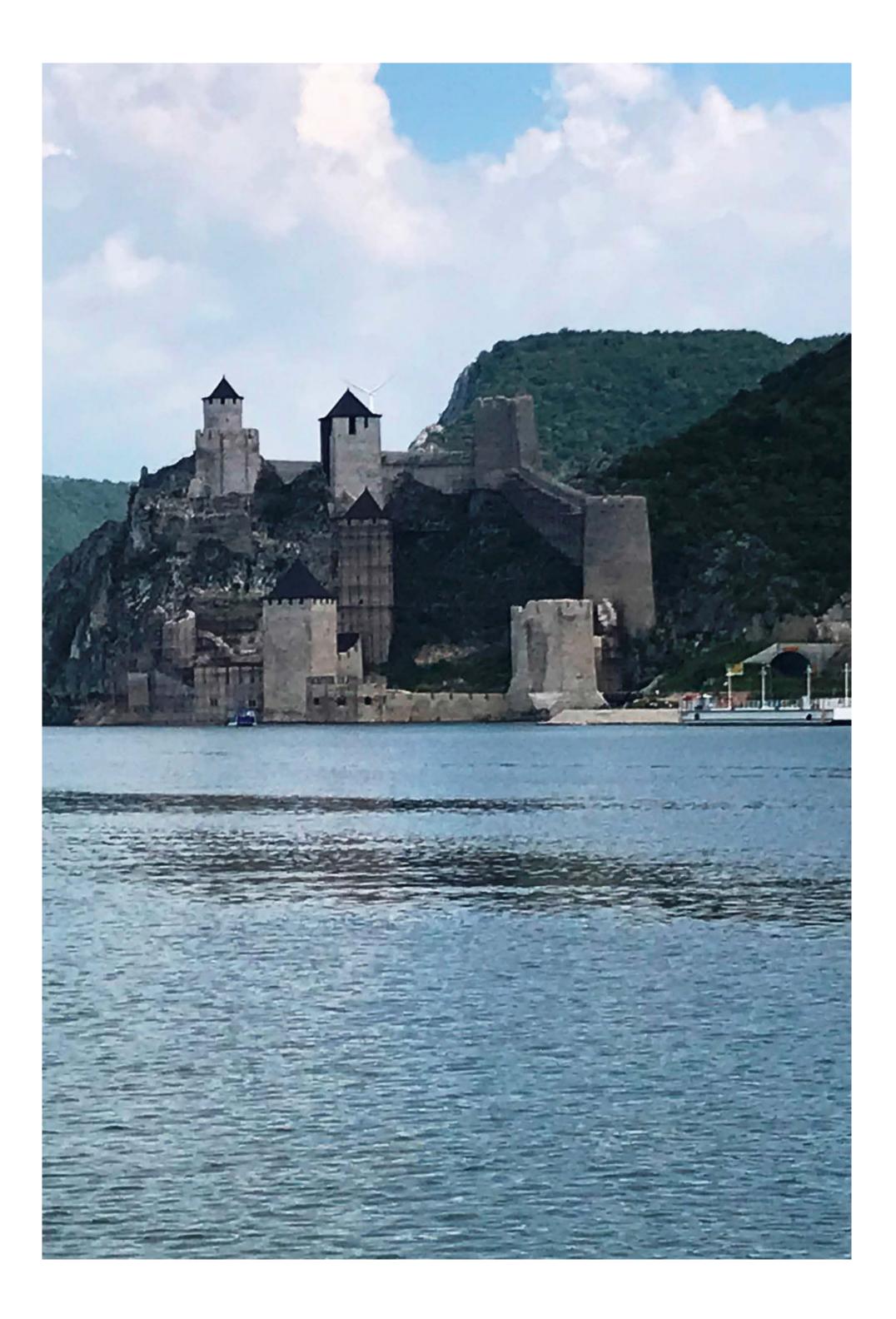
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important is that the future development of the Iron Gates Gorge and Đerdap National Park must be exclusively sustainable

GOLUBAC FORTRESS





3. THE GOLUBAC MICRO-REGION Dr. Branislav Antonić, teaching assistant

The location of student investigations and design was Golubac Micro-region. Golubac is a town and municipality in the Braničevo District, in Eastern Serbia. It is located on the right side of the Danube River. Considering its location in the Iron Gates Region, Golubac Municipality makes its western third, towards Pannonian Plain to further west.



Fig. 1: Golubac Fortress in July 2017 (source: B. Antonić)

Golubac is mainly known by Golubac Fortress, one of the most important medieval fortresses in the country and a major tourist attraction in the Danube Region in Serbia (Fig. 1). It is located 4 km east from Golubac Town. The fortress is founded in 13th century on a strategically important position at the western entrance of the Iron Gates Gorge. In the following centuries, many realms battled for and possessed the fortress: Byzantines, Hungarians, Bulgarians Serbs, and Turks-Ottomans. The last ones, Ottoman Empire were rulers during several centuries, making it one of their strongholds against Habsburg Empire across the Danube as a border (Đidić, 2008). During this period, the fortress got its shape; it consists of an inner and outer fortification, built in irregular form due to its position of a rock above the river. In total, the fortress has nine massive towers, with socalled "Hat Tower" at the top of the rock as the most impressive one (Cunjak & Jordović, 2002). In early 19th century, Golubac Fortress lost its military function and started to fade. It was officially protected after the World War II, as a cultural monument of exceptional importance. Nevertheless, its reconstruction and revitalisation has been carried only since 2010.

The significance of Golubac Fortress would not be noticed without knowing its position. It is a "guardian" on the western entrance of the Iron Gates. It demarcates the scenic gorge with mountainous hinterland on east from the docile landscape of southeastern Pannonia on west. The first narrow part of gorge, east of the fortress, is known as Golubac Canyon (Stanković, 2002). The Danube is very narrow in the canyon, just 200 m wide. Further east, there is Liubcova Valley, where Dobra Village is located. This eastern part of the municipality is part of the Derdap National Park, which imposes protection under the gorge space, considering its all values: geology, geomorphology, hydrology, and biodiversity. Locations with the most valuable natural heritage are under a strict protection regime (Maran Stevanović, 2017). Such example is Bosman-Sokolac Natural Reservation at the eastern border of Golubac Municipality.

The dichotomy between the gorge and lowland also defines Golubac Municipality; its eastern half with only two villages (Dobra and Brnjica) belongs to the gorge and all other settlements (22 of them) are located in western, lowland half. Golubac Town and Fortress are positioned at this, natural border between two regions.



This division is visible in all aspects of local economy and life. Agriculture is the main economic activity in western half, while eastern half is more attached to livestock breeding and limited forestry. The only other source of local income is a tourism, which is mainly developed in five Danubian settlements of the municipality: Golubac Town, Vinci, Usije, Brnjica and Dobra villages 2011). Nevertheless, (ARHIPLAN. local economic prospects are still weak - Golubac Municipality is officially enlisted among the critically underdeveloped municipalities, where the level of development is under 50% of national average (SORS, n.d.).

Table 1: Comparison of the main population data for Golubac and upper levels, according the last three national censuses (source: SORS, 2014)

Nat. census	Census	Census	Census	Difference
NUTS/LAU*	1991	2002	2011	2011/1991
Golubac Town	1,995	1,896	1,653	-17.1%
(LAU 2)				
Golubac Municipal- ity	12,513	9,913	8,331	-33.4%
(LAU 1)				
Braničevo District	253,992	200,806	183,625	-27.7%
(NUTS 3)				
Southern and East- ern Serbia	1,940,252	1,753,004	1,563,916	-19.4%
(NUTS 2)				
Republic of Serbia	7,822,795	7,498,001	7,186,862	-8.1%
* NUTS - Nomen- clature of Territorial Units for Statistics				
* LAU - Local admin- istrative unit				

Economic difficulties have been profoundly reflected in demographic sphere at local

Golubac is also connected with the other demographic and social problems, such as: rampant ageing at the first place, but also under-average education attainment, high level of unemployment. When demographic data are transferred in space, the other issue emerges. The average size of a settlement in Golubac Municipality is just 347 inhabitants per settlement (Census 2011). Then, the overall density is very challenging - just 22.6 inhabitant/km2 (Census 2011), which is the lowest among all Danubian municipalities in Serbia. Similarly, with less than 2,000 inhabitants, Golubac Town is among the smallest municipal seats in Serbia. Therefore, it is very complicated to plan any kind of the future communal service and infrastructure with these limiting demographic figures and trends (ARHIPLAN, 2011).

Socio-economic difficulties at municipal and regional level have mirrored in the physical state of Golubac Town. The town has a unique position at the widest part of the Danube in its entire flow – the river is more 6 km wide in the front of Golubac. The other advantage of the town is that this is the only settlement in the Iron Gates Gorge with preserved historic core and several valuable buildings from the 19th century under state protection (Fig. 2)

The other settlements are rather new ones, built in the 1970s, after the flooding of old settlements by the lake of Iron Gates Dam Hydro Plant 1. Although some important parts of the town has been refurbished in the last decade, such as the main square (Fig. 2) and quay with a cycling-pedestrian path, many parts and buildings are in pretty neglected state. Then, the town itself is not under protection regime, which limits the possibilities to preserve the characteristic ambient of historic core by its many segments.

level. The lagging of both Golubac Town and Municipality is evident if they are compared with upper levels. This can be explained through the Table 1:

The rapid demographic population loss in

The main driving force of local development is currently tourism. Aside of Golubac Fortress, a key attraction for local level is Tumane Monastery, situated 9 km south of the town Hence, cultural tourism is the most promising type of tourism for Golubac. Interestingly, the most of tourist capacities are located in Golubac Town and suburbia (Usije and Vinci in its western part), despite the main attractions are in vicinity. The small-format tourist entities (quest-houses, lodging houses, restaurants, cafes) are present across the urban zone and they contribute greatly to the vibrancy of Golubac during summer season. In contrast to them, the largest accommodation in the town, "Golubački Grad" Hotel from 1980s, is in bad state. Retail sector is also alive, especially in small pedestrian zone around the main square and the town park.



Fig. 2: The main town square is the centre of the historic core of Golubac Town (source: B. Antonić)

Nevertheless, many things in Golubac tourism still wait for revision and new development.

bigger supermarket, the town museum/ gallery), as well as to supplementary offer in culture, retail and transportation. Despite these challenges, tourist sector has proven to be agile last years. The key stimulus was certainly the reconstruction and revitalisation of Golubac Fortress. The reconstruction is also important, because it included visitor centre with large parking lot and a pier for cruisers on the Danube (ALBO, 2009). More than 80 thousand tourists visited Golubac Fortress in 2018. Furthermore, the offer of tourist accommodation has been doubled in the last three years. New capital projects are in preparation or in progress. This is the case with the town marina, the renewal of the town beach in Vinci weakened zone, and the extension of the town quay to the fortress. These tendencies wake up hope that there is a better future for Golubac.

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Djukić, A., Djokić, V. & Antonić B. (2018). Chapter 6: Territorial Planning as a Creative Tool for the Upgrading of Cultural Tourism. In: T. Ohnmacht, J. Priskin & J. Stettler (Eds.), Contemporary Challenges of Climate Change, Sustainable Tourism Consumption, and Destination Competitiveness (pp. 101-122). Howard House, UK: Emerald Group Publishing. DOI: 10.1108/S1871-317320180000015011.

Lečić, N., Mitković, P. & Manić, B. (2017). Tourist Valorisation of Medieval Fortresses along the Danube River: From the Serbian Perspective. Facta Universitatis ACE, 15(3), 465-475. DOI: 10.2298/FUACE170205036L.

Just to mention that strategic framework is still traditionally oriented, without innovative approaches (Djukić, Djokić & Antonić, 2017). Many problems are related to the general lack of big-format capacities (high-quality hotel,

Maran Stevanović, A. (2017). Activities on the Establishment of Djerdap Geopark (Serbia) and Candidature of the Area to the UNESCO Global Geopark Network. Bulletin of the Natural History Museum, 10, 7-28. DOI: 10.5937/bnhmb1710007M.



Stanković, S. (2002). The Djerdap National Park – The Polyfunctional Centre of the Danube Basin. Geographica Pannonica, 6, 38-44.

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Statistical Office of the Republic of Serbia - SORS (2014). Comparative Review of Population number: 1948, 1953, 1961, 1971, 1981, 1991, 2002 & 2011. Belgrade: SORS.



4. PLANNING AND STRATEGIC PERSPECTIVE Dr. Branislav Antonić, teaching assistant

Serbian territorial planning system is based on an operative Law on Planning and Construction of the Republic of Serbia. The law recognises two types of territorial plans: spatial plans and urban plans. The later ones consider settlements and their parts, while the former ones are related to abovesettlement level - regions and municipalities. The planning system generally follows the territorial development that respects the horizontal and vertical coordination of plans (PS. 2009-2019, Art. 3).

The organisation of plans by their vertical coordination (PS, 2009-2019, Art. 11):

Spatial plans:

- 1) Spatial Plan of the Republic of Serbia;
- 2) Regional Spatial Plan;
- 3) Spatial Plan of the unit of local administration:
- 4) Spatial Plan of the region of special use. Urban plans:
 - 1) General Urban Plan;
 - 2) General Regulation Plan;
 - 3) Detailed Regulation Plan.
- Additional urban and technical documents, which follow spatial and urban plans, are (PS, 2009-2019, Art. 13):
 - 1) Urban design project;
 - 2) Design project of re-allotment and allotment;
 - 3) Design project of correction of borders of adjoining lots.
- All enlisted documents include both textual and graphical content.

Apart of the planning documents, in recent years, ministries and local self-governments (cities and municipalities) strategic numerous documents have adopted strategies. However, the legislative framework regarding strategies is still in progress, so their mutual coordination, as well as coordination between planning and strategic documents is still a challenging issue in Serbia.



Fig. 1: The title page of the Spatial Plan of the Republic of Serbia 2010-2014-2020 (source: RAPP)

Planning and strategic perspective for the Iron Gates Region and Golubac Town (Table 1)

For the purpose of this report, two types of territorial plans are especially important, because their coverage do not reflect official administrative borders between settlements and municipalities; there are shaped with special purposes, to enable the special regime of organisation, use and prospection of a certain territory (PS, 2015). This is the spatial plan of the region of special use at spatial/regional level and detailed urban plan at urban/settlement level. These plans

Any new document in Serbian planning system should be created to be harmonised with the Spatial Plan of Republic of Serbia. Currently, the operative plan is for the period 2010-2020 (Fig. 1).



are thereby optional and their purpose is to better coordinate the development of the territories that are divided between different administrative units and with different ownership rights. Typical examples are spatial plans for Đerdap/Iron Gates National Park or for Danube Corridor in Serbia, as well as the detailed regulation plan for Golubac Fortress.

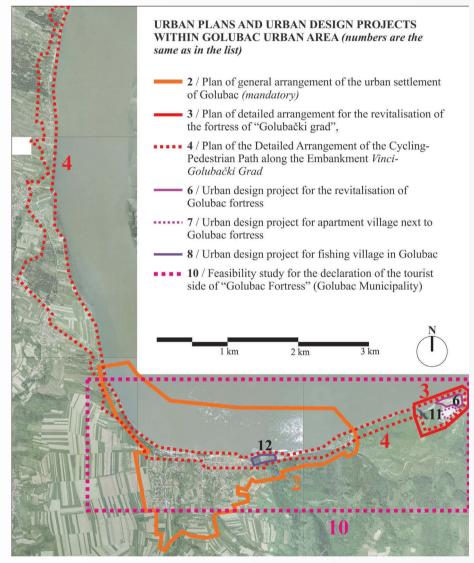


Fig. 2: The coverage by urban plans and urban design projects in the area of Golubac Town (source: Djukić, Djokić & Antonić, 2018)

The other plans are generally prescribed by law and their creation and enactment are obligatory. In the case of strategic documents, the most important ones are those that refer to tourism development. Such example is the Master plan of "Donje Podunavlje" Tourist Destination (Donje Podunavlje = Lower Danube).In the case of Golubac Municipality, the most of planning and strategic documents covers the area of Golubac Town and Golubac Fortress (Fig. 2):

References:

Djukić, A., Djokić, V. & Antonić B. (2018). Chapter 6: Territorial Planning as a Creative Tool for the Upgrading of Cultural Tourism. In: T. Ohnmacht, J. Priskin & J. Stettler (Eds.), Contemporary Challenges of Climate Change, Sustainable Tourism Consumption, and Destination Competitiveness (pp. 101-122). Howard House, UK: Emerald Group Publishing. DOI: 10.1108/S1871-317320180000015011.

Parliament of Serbia – PS (2011-2019). Law on Planning and Construction. Belgrade: National Gazette of the Republic of Serbia No 72/09, 81/09, 64/10, 24/11, 121/12, 42/13, 50/13, 98/13, 132/14, 145/14, 83/18 & 31/19.

Parliament of Serbia – PS (2011-2019). Rule Book on the Content, Method and Procedure of the Creation of the Documents of Spatial and Urban Planning. Belgrade: National Gazette of the Republic of Serbia No 64/15.

Annex 1

Table 1: The list of planning, urban design and strategic documents relevant for the Iron Gates Region and Golubac Town



Official / Serbian name	English name / translation	Year of	Relevance (order by importance)
		enactment	
NATIONAL LEVEL - SPATIAL PLANS			
Закон о просторном плану Републике Србије од 2010. до 2020. године	Law on the Spatial Plan for the Republic of Serbia 2010- 2020	2010	General territorial development, tourism, heritage, culture
Просторни план Републике Србије од 2010. до 2020. године	Spatial Plan for the Republic of Serbia 2010-2020	2010	General territorial development, tourism, heritage, culture
Просторни план подручја посебне намене међународног пловног пута E80 – Дунав (Паневропски коридор VII)	Spatial plan of special-purpose area of E-80 international waterway - the Danube (Pan-European corridor VIII)	2010	Danube region
NATIONAL LEVEL - STRATEGIES			
Стратегија просторног развоја Републике Србије 2009-2013- 2020	Strategy on spatial development of the Republic of Serbia 2009-2013-2020	2009	General territorial development
Стратегија развоја водног саобраћаја Републике Србије од 2015. до 2025. године	Strategy on development of water transport of the Repub- lic of Serbia 2015-2025	2015	Internal waters and ports
Стратегија развоја туризма Републике Србије за период 2016. — 2025.	Strategy of tourism development of the Republic of Serbia 2016-2025	2016	Tourism
Стратегија Европске Уније за Дунавски регион (на српском)	Strategy of European Union for Danube region (in Serbian)	2010	Danube region
REGIONAL LEVEL - PLANS AND STRATEGIES (Iron Gate/Đe	rdap Region, Braničevo District, Podunavlje District)		
Мастер план туристичке дестинације "Доње Подунавље"	Master plan of "Donje Podunavlje" tourist destination (Don- je Podunavlje = Lower Danube)	2007	Local-self-government unit of Gol- ubac
Регионални просторни план за подручје Подунавског и Браничевског управног округа	Regional spatial plan for area of Podunavlje and Braničevo Districts	2015	Local-self-government units of Golubac
Регионална развојна стратегија Браничева и Подунавља 2016-	Regional development strategy	2016	Local-self-government units of
2020.	Braničevo-Podunavlje 2016 - 2020		Golubac
Просторни план подручја посебне намене Националног парка "Ђердап"	Spatial plan of special-purpose area of "Đerdap" National plan (Đerdap = Iron Gate)	2009	Local-self-government unit of Gol- ubac
План управљања Националним парком "Ђердап"	Management plan for "Đerdap" National plan (Đerdap = Iron Gate)	2017	Local-self-government unit of Gol- ubac
LOCAL LEVEL - GOLUBAC MUNICIPALITY - PLANS AND DE	SIGN PROJECTS		
Просторни план општине Голубац	Spatial plan of Golubac Municipality	2011	General territorial development
План генералне регулације	Plan of general regulation of urban settlement of Colubac	2011	Urban development of Colubac
градског насеља Голубац План детаљне регулације за ревитализацију тврђаве "Голубачки град"	Plan of detailed regulation for revitalization of the fortress "Golubački grad"	2010	Colubac fortress
План детаљне регулације приобаља Дунава, од туристичког насеља Винци до тврђаве "Голубачки град"	Plan of detailed regulation of the Danube riverside, from Vinci tourist village to the fortress "Colubački grad"	2011	Danube riverside in Golubac ur- ban area
План детаљне регулације комплекса манастира Тумане и споменика природе "Бигрена акумулација"	Plan of detailed regulation of complex of Tumane monas- tery and "Bigrena akumulacija" natural monument	2011	Tumane monastery and "Bigrena akumulacija" natural monument
Урбанистички пројекат ревитализације Голубачке тврђаве	Urban design project for revitalisation of Golubac Fortress	-	Golubac Fortress
Урбанистички пројекат апартманског насеља код тврђаве "Голубачки град"	Urban design project of apartment village next to Golubac fortress	2009	Tourism
Урбанистички пројекат рибарског насеља у Голупцу	Urban design project of fishing village in Golubac	2013	Tourism
LOCAL LEVEL - GOLUBAC MUNICIPALITY - STRATEGIES	·		·
Стратегија локалног економског развоја општине Голубац	Strategy of local economic development of Golubac mu- nicipality	2010-14	General development
Стратегија одрживог развоја општине Голубац за период од 2015. до 2020. године	Strategy of sustainable development of Golubac municipal- ity for the period 2015-2020	2015	General development
Маркетинг План - Унапређење туристичке понуде општине Голубац	Marketing plan - Upgrading of tourist offer of Golubac mu- nicipality	2009	Tourism
Студија оправданости за проглашење туристичког простора "Тврђава Голубачки град" (Општина Голубац)	Feasibility study for declaration of tourist side "Golubac Fortress" (Golubac Municipality)		Tourism

5. EXPLORING GOLUBAC Prof. Dr. Eva Vaništa Lazarević

The process of student investigations and design in Golubac Micro-region in studio generally followed the explained curriculum of the course "Methodology of Urban Planning and Design". In line with this, studio work and supplementary theoretical lectures passed through several phases during the summer semester 2016/2017.

The introduction of Golubac Micro-region was the first phase. Students got to know the region and collect the data from on-site research (Fig. 1) and the data available from provided plans and strategies and general literature and internet.



Fig. 1: Discussions between students and local experts at the second national workshop in Golubac (source: B. Antonić)

Thematic research is carried parallel with the introductory part. All students were organised in 2-3 member groups. Ten student groups investigated specific topics that bridge spatial development, culture and tourism: historic development, cadastre and ownership, geodata based on photography, natural and built heritage, spatial and urban patterns, functions and activities, mapping of visitor tours, networks and infrastructure, and Golubac in news, forums and blogs. The second-phase research was developed on two well-established theories: (1) the theory of the city image, developed by Kevin Lynch, and (2) space-syntax theory, based on the analysis of spatial configurations. Student conducted independent on-site research based on both theories, which both were customised to the purposes of the course.

The last phase in the first part was SWOT analysis, as an assessment of the current state of Golubac Micro-region. All groups made the SWOT analyses on their thematic topics, which were eventually merged in a final, comprehensive SWOT analysis. Upon this phase, the first colloquium was completed and orally presented in the first decade of April.

The phases that belong to design process were included in the second colloquium. From the early beginnings, all students were focused on the central core f Golubac Town. Group work was preserved till the end of the studio work.

The two phases, a concept and programme, were mainly interconnected. The concept was a link between the current assessment/ SWOT analysis and new proposals for Golubac. The fundamental elements, settled by the concept, were then elaborated through programme, which actually detailed all possible functions, activities and facilities in urban space.

Then, these basic design postulates were used and additionally checked through design scenarios. Each member of a group created one scenario with a unique logo, motto or catchword, proposed actions and their graphical presentation in the space of central Golubac. After that, all groups chose their most appropriate scenario.

The last phase was the concrete design of



a small open space in central Golubac as one of key actions proposed by the chosen scenario. This phase was done as a typical urban design project, including drawings and spatial models.

The described student studio work was "disrupted" by four student workshops. Two of them were national workshops, conducted in Golubac, and the other ones were regional, conducted abroad and in international atmosphere, with students from the other DANUrB universities from Vienna, Budapest, Bucharest, Bratislava, Krems/Donau, and Novi Sad.

The first national DANUrB workshop was in Golubac on March 2, 2017. Teaching staff and students had discussions with local experts from spatial development, heritage, cross-border cooperation, and tourism. They also have fieldwork in Golubac Town, measuring spatial syntax and surveying the issues important for the city image theory.

The second national DANUrB workshop was happened in May 29, 2017 and it was in form of the second colloquium. Students orally presented their design proposals to local experts, who gave them remarks and comments how to further improve them for the final design solutions (Fig. 1). Aside of this major event, students and teaching staff visited Golubac Fortress in reconstruction as a short cultural tour.

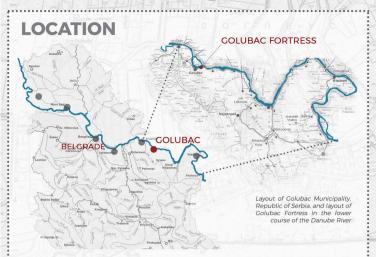
Apart of the national workshops, the best students from Belgrade participates in two international DANUrB workshops in Wachau, Austria (March 2017) and Esztergom-Šturovo, Hungary-Slovakia (June 2017). They shared their research and ideas about Golubac to the other students from the above mentioned faculties from Danubian countries, making partnership and synergy about solutions for the Danube towns and regions (Fig. 2). Both studio work and four organised workshops showed students how to finalise their studio projects during July 2017.



Fig. 2: Students from Belgrade in the front of their posters at international DANUrB workshop in Esztergom (source: B. Antonić)

EXPLORING GOLUBAC STUDENT PROJECTS





Colubac Municipality belongs to the south-east part

Collbac Municipality belongs to the south-east part of Central Serbia, to Braničevo District. It is 1308 km or 2 hours' drive from Belgrade. It is situated on the right bank of the Danube river, in its lower course though Serbia, at the place where the river is widest in its entire course (it reaches a width of 6,500 m). It belongs to LOWER PODUNAVLE (LOWER DANUE RECION) tourist destination area (Veliko Gradište, Colubac, Majdanpek, Negotin, Kladovo), which strives to consolidate its offering. The Fortress itself is located on the 4th km from the town, at the very entrance to the Iron Gates.

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ESTABLISHMENT OF THE SETTLEMENT

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The earliest material evidence in the area of Golubac Municipality belongs to the Middle Stone Age - the Mesolithic period (between 7000 and 6000 BC).

Multilayer site Padina, at the easternmost point of Golubac territory bears its roots from the period after the Ice Age, time of changes in the nature and the way of life of human communities.

In this area, in the Late Bronze Age, Dubovac - Žuto Brdo culture was formed.

The Early Iron Age was marked by the Triballi and then by the Celts, by mixing of which the Scordisci tribe was formed.

The remains of the Celtic Fortress from the 1st and 2nd century BC were found at the site of what later was to become Roman Fortress called Cuppae (above the present day Golubac).

After the Scordisci, this area, rich in minerals, was taken over by the Romans, who consolidated their power in the area and Romanised the population.

On the right bank of the Danube, they formed limes, an integral delimiting system (a series of small and large forts, watchtowers, partition walls, crafts centres nected by the road they constructed also through the Iron Gates)



In the 9th century, the **Bulgarian state** grows stronger and spreads administratively to the area of the present day East Serbia and the Danube region

In the 11th, and even more so in the 12th and 13th centuries, this area represents a highly unstable border territory packed with troops, over which cru-saders pass, the conflicts of interests arise between Byzantium, Hungary, Bulgaria, and, by late 13th century, Serbia

ESTABLISHMENT OF THE FORT

The tactical position of the fortification strongly affected its future life, characterized by con-stant wars and conflicts between the Hungarians and Turks, Serbs and Turks, and Serbs and Hungarians.

The completely reliable historical data on the establishment of fortifications are not available.

According to a group of experts, the Romans erected fortifications on the town site, on both sides of the Danube - Vicus Cuppae, in which emperor Diocletian resided in 299

Golubac Fortress, the remnants of which we see today, was most probably erected by the Serbs, in late 13th or early 14th century, as a strategic border fortification.

However, it is first mentioned in documents in 1335, as a stronghold with a Hungarian garri son



There are two legends describing its origins:

The first legend is about the erection of the town itself which, according to it, lasted 80 years, and the workers carried the stones from a nearby quarry in their bare hands to the construction site.

The second legend is about a Byzantine empress Helena, who, imprisoned in the tallest tower, used to feed pigeons - after which the town was named.

CONTEMPORAR LOCAL CONTEXT

TOURISM POTENTIAL

The following sights are located up to 50km from the Fortress: - Iron Gates gorge - Đerdap Lake 2 - Derdap Lake 3 - Lepenski Vir 4 - Silver Lake 5 - Traian's Plaque from the early 2nd century is located at a distance of 90 km.

RECONSTRUCTION PROJECT

Restoration of the Fortress - 10 towers and the palace:Construction of a new ring road and a new tunnel outside the Fortress, in order to close the existing road which runs through the Fortress. Construction of a visitor centre for re-



The objectives of the Master Plan for the "Lower Danube Region" also include a consolidated tourist offering of the Lower Danube Region creation of "Golubac Fortress" tourism brand.



HISTORICAL DEVELOPEMENT AND CONTEMPORARY LOCAL CONTEXT

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GOLUBAC FORTIFIED TOWN

ID card of the cultural monument: Country: Serbia Municipality: Golubac Town: Golubac Type: Cultural monument Degree of protection: Cultural property

of exceptional importance

Regional Institute for Protection of Cultural Monuments in Smederevo Seat: Smederevo

Type: Fortified town

Competent institution

Owner: Republic of Serbia

DEVELOPMENT OF THE FORTIFICATION

STAGE 1

Erected in the late 13th and early 14th century as a border fort, constructed by the Serbs. The important strategic position - on a high, inaccessible rock, it secured control over the Danube to its proprietors

The history of the Fortress/town is characterized by constant wars and conflicts between Hungarians. Turks and Serbs. - The first stage of construction of the town, the beginning of which, according to the historians dates back to the 15th century, was probably initiated by King Dragutin. - The rection of the upper Fortres: was completed before 1335, when the northern territories of the Serbian state, including Golubac, were seized by Hungary



STAGE 2

In the years to come, the town was alternately Serbian and Hungarian. - From 1355, it was probably under Hungarian rule. - It was ruled by Prince Lazar when the Battle of Kosovo took place, but after the defeat of the Serbian army.

In was fueld by initial favoration of the barrier of Rosolo (top piece, but after the defeat of the benain army, it comes under rule of Bayezid 1.
 In 1391-1392, the Hungarian army conquers the town.
 In 1402, following the Battle of Ankara, Despot Stefan Lazarević was bestowed Golubac from Hungarian King Sigismund.
 In 1427, after the death of Despot Stefan Lazarević, Golubac fell under the Turkish rule.

During the rule of Despot Stefan, the second stage of construction of the town was also completed.

- During the rule of Despot Stefan, the second stage of construction of the town was also completed, namely the lower Fortress and the palace. - The years after the death of Despot Stefan Lazarević were marked by the conflicts between the Hungarians and the Turks in Golubac surroundings. - King Sigismund built a new town on the other side of the Danube - Lazolovar, or the city of Saint Ladis-Iaus. - The Hungarians attacked the Fortress from all directions and from the water. The cannons were firing at the town from Lazolovar and severely damaged it. The Turkish army occupying the town seeks aid, which is provided by the Beylerbey of Rumelia, commanding a huge number of Turkish troops. - The large Turkish army filed the Hungarians with panic and they flee away even before the battle starts. Sigismund concludes a truce with the Turks who, irrespective of that, take advantage of the situation and attack the Hungarians. garians



STAGE 3

After the Hungarian defeat, Golubac fell under rule of the Turks and was under their control until 1444, ng Golubac as well under th

when Serbian Despotate was restored by the Peace of Szegel, comprising Golubac as well under the rule of Durad Branković. In 1456, after the death of Durad Branković, it was seized by the Turks. - In 1481, the Hungarians man-aged to conquer it, only to abandon it soon after. - Since then, until 1867, Golubac is almost continuous ly under the Turkish rule.

From 1688 to 1690, it was shortly ruled by the Austrians.

- The Fortress was under the rule of Serbian rebels during Koča's frontier and the First Serbian Uprising. Gradually, to the South West of the fort, a suburb evolved, which was inhabited by mid 19th century.



STAGE 4

In 1867, after it was handed over to Prince Mihailo, Golubac was abandoned.

 In 1907, after it was frained over to Finite Miniato, solublac was adapted over the process adapted over the process of the proc Danube, the river level nearby Golubac rose, flooding the lowest parts of the town



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- ception of tourists
- Construction of river dikes and a wharf:
- · Construction of an amphitheatre at the site of the present day quarry







Refurbishment of the Fortress itself includes recon struction of 10 towers, ramparts and walls, renova-tion of wooden elements and roofs, palace, conver-sion of the existing tunnel, as well as construction of an amphitheatre with a seating capacity of 250, a belvedere, and a footpath and a bike path.

The reconstruction will facilitate the towers and other facilities to fulfil their function of representing other facilities to fulfil their function of representing the cultural and historical heritage. The project in-cludes relocation of the existing road running through the Fortress, and construction of a new tunnel outside the Fortress and a new ring road. In this manner, traffic will be relocated from the For-terer area.

The project also envisages construction of a visitor centre in the immediate vicinity to the Fortress, which also includes bungalows for overnight accom-modation. Renovation of the old quarry is planned, and its transformation into an amphitheatre with a seating capacity of 3,000, while the old stone crush-er will become an artist's pavilion. It has also been planned to construct a wharf for

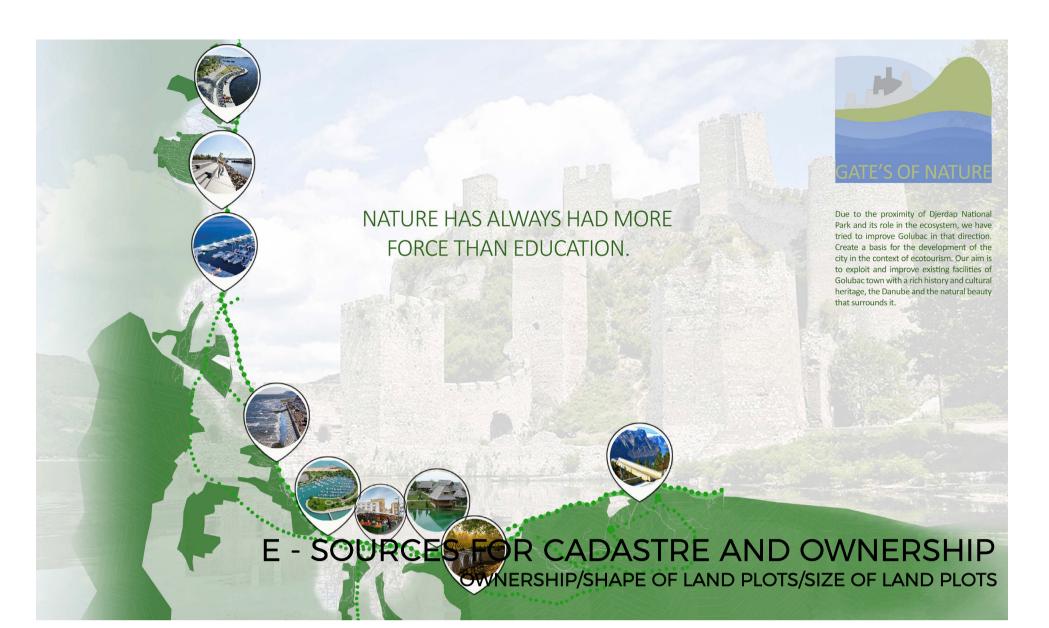
tourist boats in extension of the embankment, by the visitor centre.

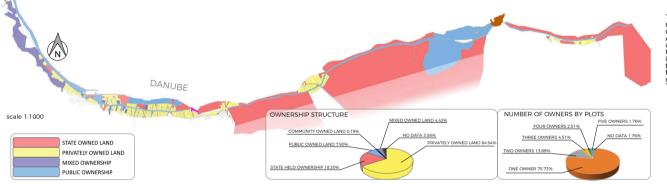


Author:	Milica Ristović, Milica Đurđević, Stefan Hadži Arsenović
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Academic year:	2016/2017



Milica Ristović, Milica Djurdjević, Stefan Hadži Arsenović

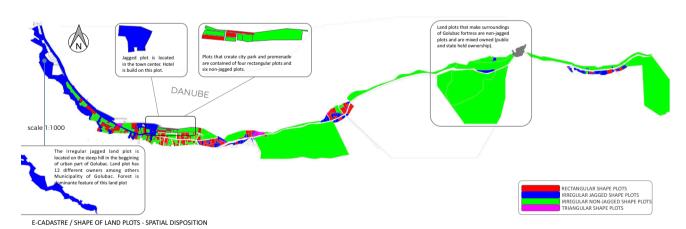




AREA AND OWNERSHIP

AREA AND OWNERSHIP The private plots are predominant in the town centre. They are crossed by roads that are manifested as public property. The peripheral parts of Golubac are specific for mixed ownership, where several types of owners are overlapped (Derdap Hydroelectric Power Plant, Agricultural Cooperatives, Golubac Kunicipality, Srbjašume Public Company). Large plot areas towards the Golubac Fortress are owned by the state of Serbia and Srbjašume Public Company owns the right to land. An exception is the area around the Golubac Fortress, which is surrounded by publicly owned land plots. The land plots that are located in the riverside of the town centre are medium-sized land plots (from 500 to 3000 m2). A new land emerged due to the riverside embankments and land expansion on the account of the river. Its area capacity can be used for building purposes, built is located in a zone of the National Park of Berdap. Therefore it is necessary to further consider the land purpose.



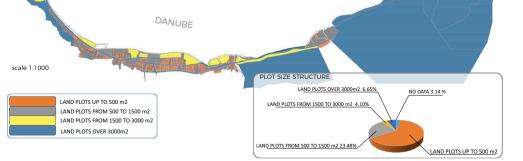


SHAPE OF LAND PLOTS

Most of the plots in the town centre are of regular rectangular shape with residential buildings without any associated recreational facilities. Several triangular plots that exist are a result of land subdivision and two plots are located in the town centre, while the others are located in the riverside area at the exit from the town. Irregular non-jagged land plots are large agricultural lands that are situated in the hinteriand of Golubac. The irregular jagged land plots have been created by dividing large agricultural land in small parts. The jagged land located on the sloped terrain at the entrance to the urban centre of Golubac from Belgrade direction. The land plot is divided between 12 different owners including the state and the municipality. The forest predominantly covers the land plot. The lagged land plots in the centre of Golubac on the Danube bank. A hotelis located at the land plot. The land plots that have the wrap and plots. The land plot is divided between 12 different owners including the state and the municipality. The forest predominantly covers the land plot. The land plots that have the town park and quay on the Danube bank. A hotelis located at the land plots. The land plots that make a wide area of Golubac are irregularly shaped (non-jagged) and have mixed ownership (public and state)

SIZE OF LAND PLOTS

The current plots meet the basic needs of the population of Golubac. The land plots of up to 500 m2 dominate the town centre, which are suitable for residential construction. Bigger investments in the form of hotels and business incubators are impossible because of the lack of adequate area of land plots in the town centre. The peripheral parts do not restrict the area capacity for construction, but the morphology of the terrain significantly increases the financial costs of construction.



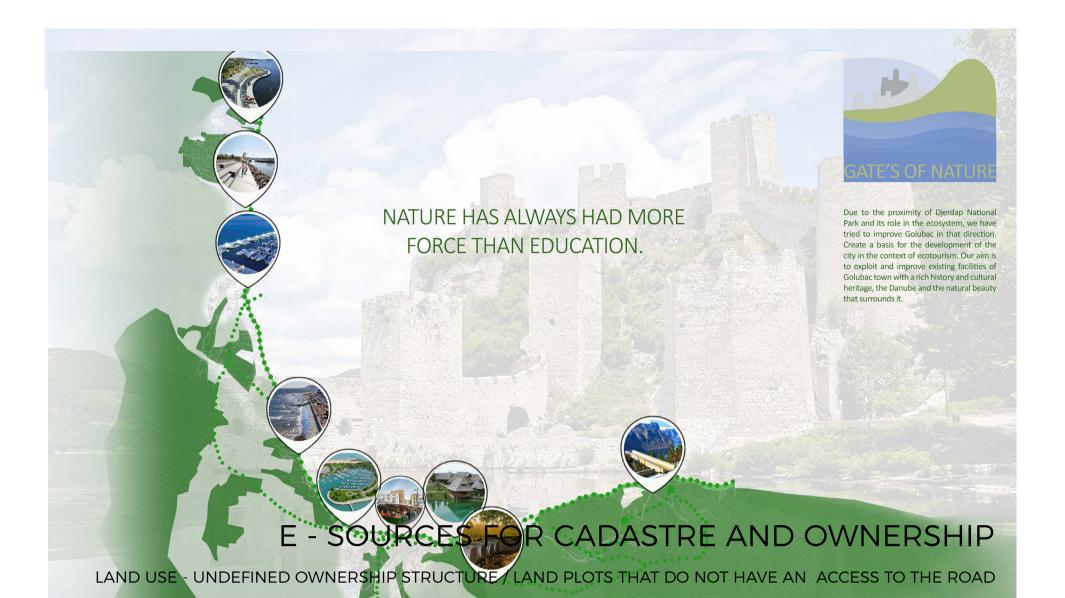
E-CADASTRE / SIZE OF LAND PLOTS - SPATIAL DISPOSITION

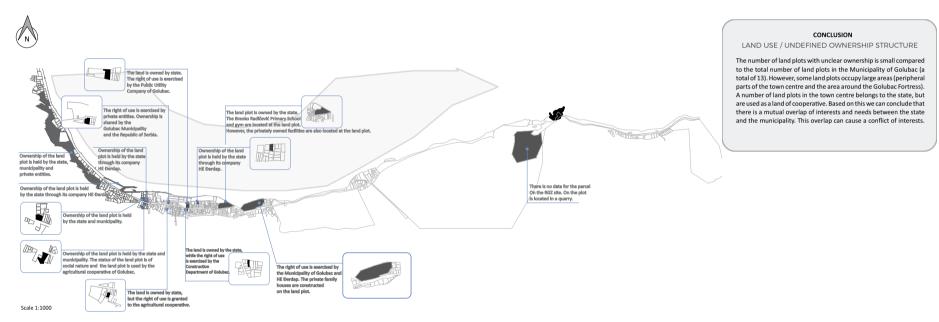


Author:	Mladen Kostadinović 22011/16; Mandić Nevena 22019/16; Mićanović Srđan 22011/16
Supervisor:	Aleksandra Đukić; Ivica Nikolić; Branislav Antonić; Tamara Radić
Academic year:	2016/2017

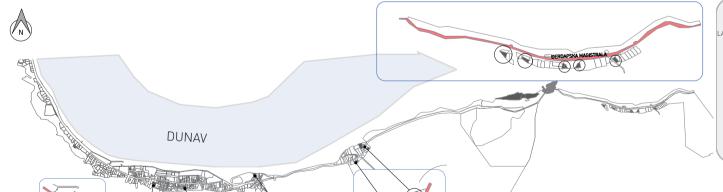


Mladen Kostadinović, Srđan Mićanović, Nevena Mandić





E- CADASTRE / LAND USE - UNDEFINED OWNERSHIP STRUCTURE - SPATIAL DISPOSITION



CONCLUSION

AND PLOTS THAT DO NOT HAVE AN ACCESS TO THE ROAD

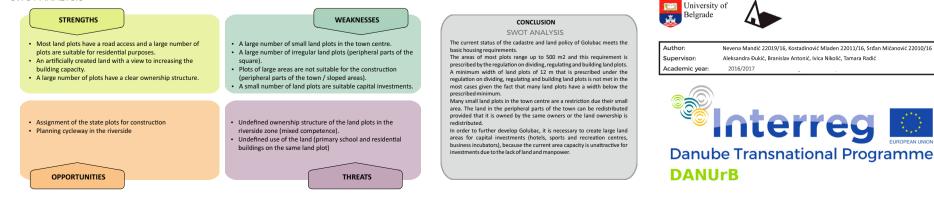
A small number of land plots do not have an access to the road. The land plots that have no access to the road are built from the preexisting land plots and their areas do not exceed 400 m2. The facilities that are constructed on these land plots are a problem. According to the building rules, the land plots that do not have a road access cannot be building plots. In these cases, it often happens that the public land and often privately owned land are usurped due to the access.

Even though there are 6 land plots that do not have a road access, only three land plots have facilities, while others are used agricultural lands. The redistribution of land is possible for the purpose of its enlarging.

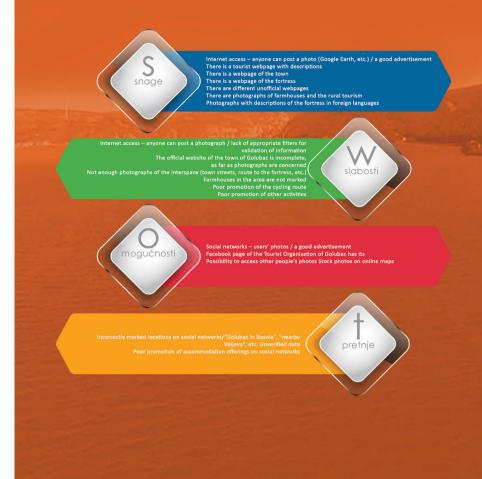


E- CADASTRE / LAND PLOTS THAT DO NOT HAVE AN ACCESS TO THE ROAD - SPATIAL DISPOSITION

SWOT ANALYSIS



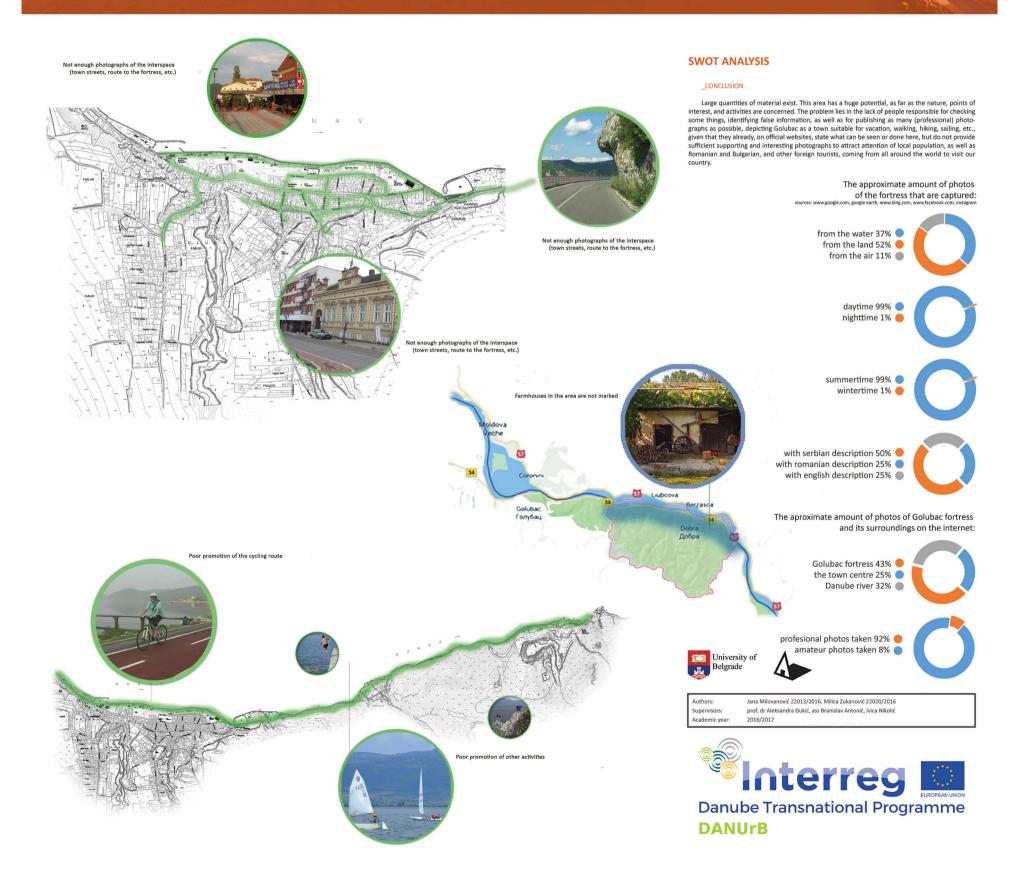
Mladen Kostadinović, Srđan Mićanović, Nevena Mandić



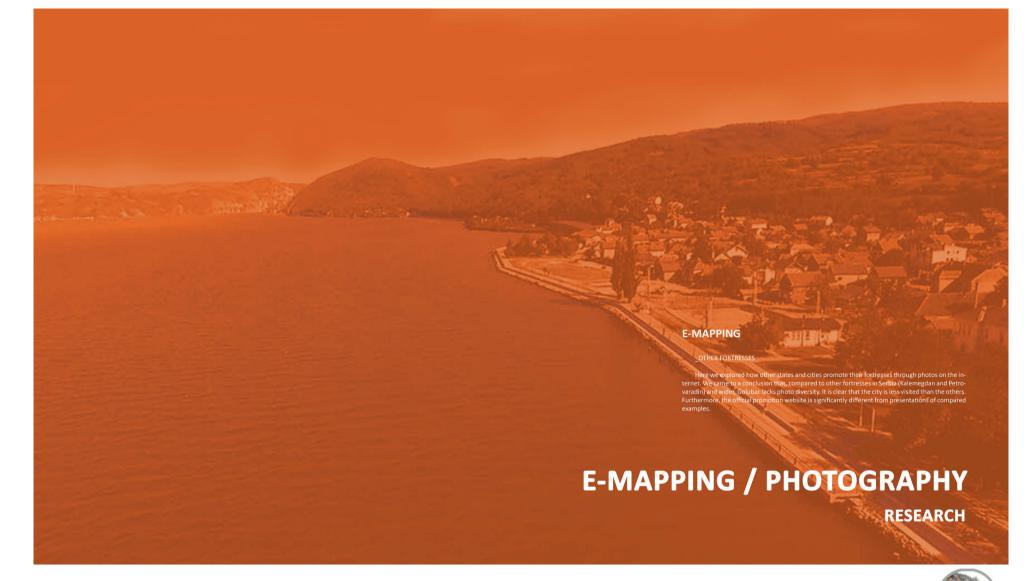
E-MAPPING / PHOTOGRAPHY

di i i c

RESEARCH



Jana Milovanović, Milica Zukanović





Jana Milovanović, Milica Zukanović

BUILDING HERITAGE THROUGH THE REGULATORY FRAMEWORK

2.1. Sustainable Development Strategy 2015-2020 of Municipality Golubac

TOURISM

In the municipality of Golubac there are a number of positive tourism potentials

1. Fortress "Golubac fortress": - Since 1948 under the protection of the Institute for Protection of Cultural Monuments, in 1979 declared a cultural monument of great importance; Located on the territory of the Djerdap National Park; Due to the extremely favorable geographical position, throughout the centuries has been a target for many conquerors and scene

or many connics; is ongoing revitalization of the fortress, which is financed from pre-accession fund IPA 2011; is ongoing revitalization of the fortress, tunnel construction and relocation of the highway, the construction of the visitor center, construction of necessary infrastructure, necessary archaeological research, construction of embankment

2. Medieval monastery "Tumane": - Located only 9km from Golubac; - Built in 14th century; - Bilt in the Serbian-Byzantine style; - Surrounding the monastery repre-Birgena accumulation. ts the landscape of outstanding natural beauty and uniqueness of this natural mo

 A Archeological sites:
 Umka-Kuzmin hill - fort;
 Vinci; = Brnjica - fort, necropolis;
 Uvalcia - fort, Golubac;
 Mala Orlowa - necropolis; Golubac;
 Bosmanskar ender - fort, Dobra;
 Gospodin vir - settlement, fort, church, Dobra; - Turkish stream – fort; - Čezava – fort

SLOR ACTION PLAN OF GOLUBAC MUNICIPALITY 2015-2020

Specific objective 3.1. Developed municipal and transport infrastructure and improvement of urban planning The construction of the harbor and landscaping the complex of the fortress "Golubac fortress" (with equipping facilities):
 INDICATOR: Built harbor in the complex "Golubac fortress" and equipped complex "Golubac fortress";

2. Rehabilitation of the old quarry and reconstruction of the crusher: - INDICATOR: rehabilitated quarry, built arena, rebuilt crusher and obtained exhibit space.

CONCLUSION

The municipality uses a variety of resources such as:

Historical monuments (Golubac fortress, Tumane monastery), which are also a prerequisite for the development of infrastructure; The rich history and diverse cultural heritage; Completion of reconstruction of the Golubac fortress (new facilities)

for further development of the municipality, especially tourism

2.2. The cultural richness of the region of Southern and Eastern

CULTURAL ROUTES

1. What are the cultural routes?

A must be the constant of the second s

unique destination

unique destination; bring much more profit than individual cultural destination; brand the certain regions; the main advantage of this type of tourism is imaginative, creative use of cultural heritage; - along the routes are organized various events related to the theme of the route: festivals, conferences, exhibitions, poetry evenings, concerts, theater performances, fairs, workshops, etc.; - al lure for attracting large numbers of visitors.

2. How to make a cultural route?

- nuw to make a cultural route? - all successful routes are created around one theme, which makes a recognizable brand and easy positioning route on the tourist market; - The institute for the Study of Cultural Development mapped out the potential cultural routes in the region of Southeastern Serbia, singled interesting topics that can connect other regions of Serbia as well other European countries; - in the region of Southern and Eastern Serbia have so far developed three cultural routes: Roads of Roman Emperors, Fortresses on the Danube and Wine Routes.

CONCLUSION

- themed gathering of material heritage to a unique tourist offer becomes interesting enough to attract more visitors; - underline the uniqueness and authenticity of the remote destination, local knowledge and traditional skills; - one of the best solutions for the sustainability of cultural heritage, cultural and economic development of the entire region; - local culture and inheritance may be the main resources in the development of entire region; - bring much more profit than individual cultural destination; - provide cooperation and networking at the international, regional and local level, as well as interagency and intersectoral - consentidity.



2.3. The project of revitalization of Golubac

fortress

TOURIST POTENTIAL OF GOLUBAC FORTRESS AREA - Danube River – among the world's most popular rivers for cruising; - Iron Gate; - Lepenski vir; - Dierdap accumulation; - The widest part of the Danube; - Near Silver Lake.



3. The construction of the visitor center for tourists:

The project includes the construction of the visitor center near the fortress, also will be constructed harbour for tourist boats.



2.4. Feasibility study to proclaim tourist area Fortress "Golubac fortress"

 One of the most important and best-positioned fortification in this part of Europe;
 Dominant and extremely favorable geographical position on the Danube, which is at the same time a powerful boundary, but also the river and connecting Dominant and extremely favorable geographical productive serves and the index, caused the index, caused the index are a continuity of settlement from prehistoric to the present time;
 I is entrance to the Mational Park Diperdap as well as entrance to the gonge of rich natural and cultural characteristics;
 Situated at the Danube traffic corridor and on the M-25.1 highway;
 Talks about the history of this area and the importance that the Danube River and fortress inland had in the middle Ages;
 There can be seen instrant communication, organization of residence in some of the high towers, as well as more luxurious interiors of the palace;
 There can be seen internal communication, organization of Golubac Fortness, it is believed that the town was built in the second half of the 13th and early 14th the second half of the 13th and early 14th the second half of the 13th and early 14th the second half of the 13th and early 14th the second half of the 13th and the second half of the 13th and early 14th the second half of the 13th and t

century by Serbs; Fortress is (an-shaped built and consists of three parts: the front, the rear and the upper part (with the citadel); It consists of 10 towers and 2 large vehicular entrances; In front of the town is the front wall (I) which forms the outer part of the trench, which was probably full of water because it is connected with the Danube, which was probably filled it.

- Spatial cultural, historical and natural unit Golubac Fortress is unique and indivisible functional unit of natural (nature reserve Golubac fortress) and man-made resources (medieval fortress and archaeological sites next to the fortress), having the value of importance for tourism, the area that due to its characteristics, values and priority tourism purposes requires a special regime of organization, development, use and protection, where the reconstruction the fortress is priority project of national interest, and that meets the statutory requirements and criteria for obtaining the status of a tourist area. n of



REVITALIZATION OF THE "GOLUBAC FORTRESS"

The project must propose different methods of technical protection of certain parts of the fortifications, from conservation to a complete restoration;
 The purpose of reconstruction is to bring the fortress as a whole and all the parts of the fortifications into a state of construction safety and enable for the safe visitors

Restoration of the fortress - 10 domes and the palace; Construction of a new road bypass and a new tunnel next to the fortress; The construction of the visitor center for tourists; Construction of embankments and harbor.



1. Restoration of the fortress – 10 domes and the palace

restoration of wooden elements and roofs, palace, the conversion of existing tunnels, as well as the construction of the amplitheater with 250 seats, the viewpoint and walking and cycling paths; After the reconstruction, towers and other facilities will see to seat the viewpoint.

cultural and historical heritage



v road byp

After World War I, in 1926, tunnel was constructed and road through the fortress which

destroyed the main gate: Therefore the fortness is endangered and became inaccessible to tourists; The project involves the relocation of the existing road that runs through the fortness, the construction of a new tunnel next to the fortness and the new bypass road, this will move traffe from the area of the fortness.

safe visitors sightseeing and getting around; - Conservation involves the consolidation and protection of the existing state of the tower and parts of the rampart in order to prolong their duration; - Partial reconstruction implies conservation works providing, based on existing data, reconstruction of the protrusions on the towers and ramparts, embedding beams and floors in places where they originally existed, reconstruction of stairs and arampart paths, with the modern secure fences; - The reconstruction involves the conservation and full restoration, but above the towers would be constructed roofs, floors inside the tower and stairs with fences, as well as fences on store stairs leading to the tower and the ramparts; - In order to restore and present Golubac fortress it is necessary to foresee the relocation of the highway: - The first stage of the revitalization would be construction of the bypass road, parking space, a large quarry rehabilitation, rehabilitation of the area around the crusher and construction of the visitor center; - Use second states is the greenerity. crusher and construction of the visitor center; The second stage is the reconstruction of the facilities and fortification walls and works on the research and conservation of the archaeological park, the construction of a pier for boats, riverbank landscape, building apartment complex with a central facility; The Spatial Plan for National Park Digrada provides the following facilities: museum, harbor, archaeological park, an information point, visits to the National Park, catering facility, parking: Naster Plan of lowirst destinations Lower Danube within the investment project "Thematic cultural and historical center Golubac Fortners" foresees: swimming, fishing, saling, entertainment, 80 beds, restaurant, café-bar with terrace, shops and souvenirs, harbour, panoramic sightseeing roads, waiking and biking trails, amplitheater, visitor center of the National Park and the tourist information center.

the National Park and the tourist information center. According to the proposal in the preliminary deging as a result of the reconstruction in renewed facilities would be implemented different programs: - In the restored palace is envisaged to locate the museum and room for conservators and curators; - The Tower 5 is alimed for gallery space for temporary exhibitions and workshops; - Amphitheater-shaped auditorium is set on the slope of the fortress front entrance; - In the guardhouse 1 is located room for souvenirs and guides; - Cafes are placed in the "Cafeteria", which is built in the Tower 1, and in the areas of Underwall 1-4, while in the areas below the Underwall plate are planned - Vallet and droues.

Lattes are present in the generation of the second second

Outside the fort, the area of Undertown is planned parking and oposite parking a harbor for boats and berths for small boats;
In front of parking toward the fortress is situated facility of the visitor center, with a toilet block for visitors, tourist information points, a hall for exhibitions and presentations and office, and in another wing is the restaruant with a large terrace overlooking the water;
Between the two wings is the amphitheater for the presentation of the first information about the monument and from there lead two paths to the fortress - one by water, the other between a rest area and archaeological park;
The only building that will not be removed is the crusher, which will be adapted for painting studios with housing.

CONCLUSION

Existing resources in this area is necessary to preserve, improve and bring to the purposes of future development of tourism. "Golubac Fortress", as settled thematic cultural and historical complex provides conditions for a harmonized system of research, protection, conservation and tourism offer of the medieval fort "Golubac fortress" and its attraction and contributes to urban planning and development perspective of Golubac Municipality and Djerdap region, ensuring quality of life of its population.

3.1. Strategy of the Danube development

The variety of natural and cultural heritage along the Danube is enormous;
 There are many castles, ruins, medieval fortresses and varied nature making the landscape of the Danube flow rich;
 Many cities along the Danube reflects the turbulent historical past;
 Rich cultural heritage stands as evidence of many occupants who inhabit the region over the centuries;
 More than ten landmarks along the Danube is on the list of UNESCO World Heritage.

GETTING TO KNOW THE COUNTRIES AND CULTURES

The strategy encourages hiking tourism along the Danube, which has allowed several benefits between partner count The strategy encourages hiking tourism along the Danube, whice and organizations: networking of existing facilities along the Danube; Danube Hiking intertnet portal; Cross-border offer; Online map routes; International Danube Hiking Conference; Intercational Danube Hiking Conference; Che cooperation of national, regional and local representatives; Cross-Border Cooperation.

DEVIN CASTLE

 Castle was built at strategic position – on the top of the cliff and above the mouth of Morava and Danube; Location for centuries served people – Celts, Romans, Goths; Today, the remains of the fort give visitors a breathtaking view of the Danube





Project value: 6.6 million euro
 Source of financing: Fund IPA 2011
 Project for revitalization of Golubac fortress is part of a larger project "Socio development of the Danube region in Serbia, Component 5: Infrastructure".



THE IMPORTANCE OF THE PROJECT

Tourism:
 Creating tourist brend – Golubac fortress and promotion of tourism space of castle "Golubac fortress";

2. Economic: - SME Development; - Production of food, wine, souvenirs Employment of local population

Cultural and historical:
 Cultural events – exhibitions, concerts, theatre plays, art colonies;
 Preservation of cultural and historical heritage.

PROJECT IMPLEMENTATION









a Kovačević, Antonio Mareš dr. Aleksandra Đukić, Ivica Nikolić, Branislav Antonić i Tamara Radić



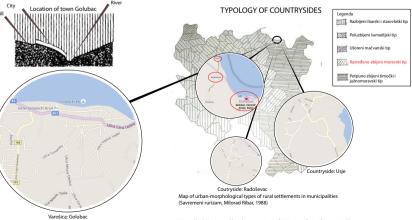
Sara Kovačević, Antonio Mareš

INTRODUCTORY RESEARCH - BUILDING PATTERN



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Usie and Radoševac are diluted-compact type of Moravian village. Characterized by the fact that there is one main street around which are spontaneously formed the streets of lower rank. Usig and Radolesca are located near Golubac and belong to the municipality of Golubac, their exposure is east and are positioned along the Danube Gorge.





Author: Sara Kovačević, Antonio Mareš Supervisor: dr. Aleksandra Đukić, Ivica Nikolić, Branislav Antonić i Tamara Radić Academic year: 2016/17



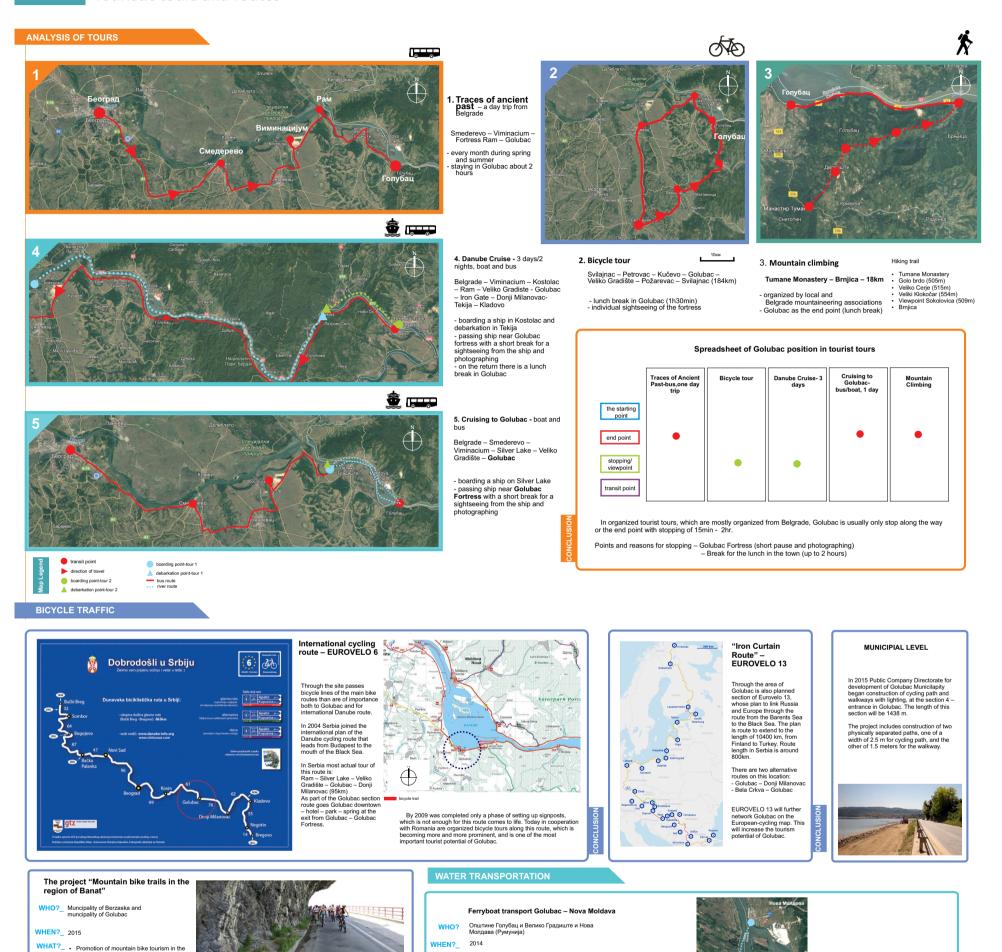
Sara Kovačević, Antonio Mareš

METODOLOGY OF URBAN DESIGN

GOLUBAC: CITY OF EXTREMES

Thematic reseraches

Thematic research: **Touristic tours and routes**



WHAT?____ Promotion of mountain bike tourism in an Danube Gorge Improving cooperation among people living along the Danube river border between Serbia and Romania Within the project was held sports and recreational event "Mountain bike marathon" (30km)





The project is financing under IPA CBC Program of cross-border cooperation Romania-Serbia. The project value is 2,352,674 euro; the budget of Golubac is 247,071. In 1993 border-crossing Usije was open.

Muncipality of Golubac

WHAT?

- reconstruction of embankments and access roads,
 equipping facilities of customs and border police in Usije
 construction of appropriate pontoon for safe ferry access

Muncipality of Veliko Gradiste

widening and paving of the road Veliko Gradiste – Vinci to adapt freight traffic

Nova Moldova

border crossing landscape and purchase of ferry





A major weakness of Golubac Municipality is unused river potential for to sports, river traffic, river crossings.



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Academic year: 2016/2017



Monika Jovanovski, Boško Žakula, Srđan Radovanović

METODOLOGY OF URBAN DESIGN

GOLUBAC: CITY OF EXTREMES

Thematic reseraches

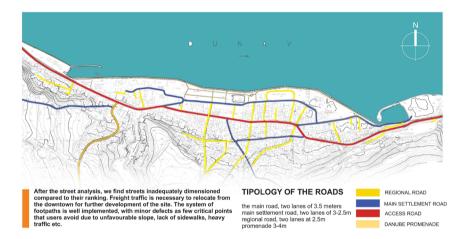
PEDESTRIAN TRAFFIC



PEDESTRIAN MOVEMENT

The system of pedestrian paths is positively realized, with minor defects as few critical points that users avoid due to unfavourable slope, lack of sidewalks, heavy traffic etc.

-width of street profile is small for road rank - terrain slope is an obstacle for pedestrians -the main road is an obstacle and a danger to pedestrians - pedestrian paths are well-maintained

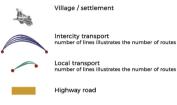




Terrain in the city of Colubac is considered steep and unappealing to pedestrian traffic. This map serves as an argument to spatial analysis by Kevin Linch and shows the advantages the city needs to use. Plateau by the river is a great place for developing tourist facilities.

TERRAIN SLOPE MAP

MAP OF THE PASSANGER TRAFFIC DISTRIBUTION



Weaknesses of locations come from the national level of administration, including inconsistency, in the implementation of plans, incomplete approach to development strategies, lack of funds etc. In addition to systemic deficiencies of planning and realization, the weakness of enforcement is the morphology of the terrain as well. Unsultable terrain that requires significantly more investment is a major obstacle, especially for the economic status of Braničevo district.

SWOT ANALYSIS



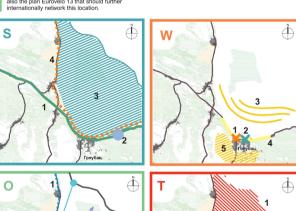
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CONCLUSION

Golubac position with its international potential as well as cultural and historical heritage are the main advantages of this location. The Danube bicycle route and river routes ensures the circulation of exople and goods that need to be used largely both on the narrow and wider territory of location.

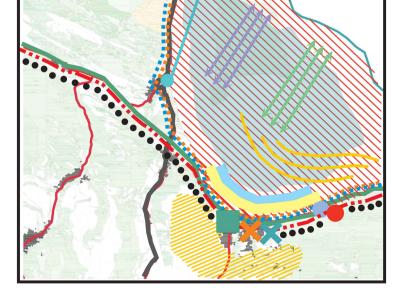
Possibilities for better use the potential of Golubac were stopped by infrastructure and that is primary field of interventions where should operate. Waterway transport is limited with the features of the existing marina; system of bike trail is incomplete as well as additional services such as bike services and storeroom. Opportunity for development of the site is also the plan Eurovelo 13 that should further internationally network this location.

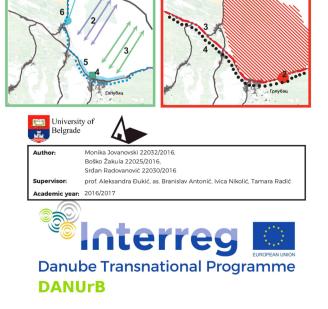
Threats of the location reflect in high freight traffic, which creates a negative impact on the entire territory, both to infrastructure and to users. In addition to the human factor, natural characteristics of the Danube complicate development and seasonally threaten coastal region.



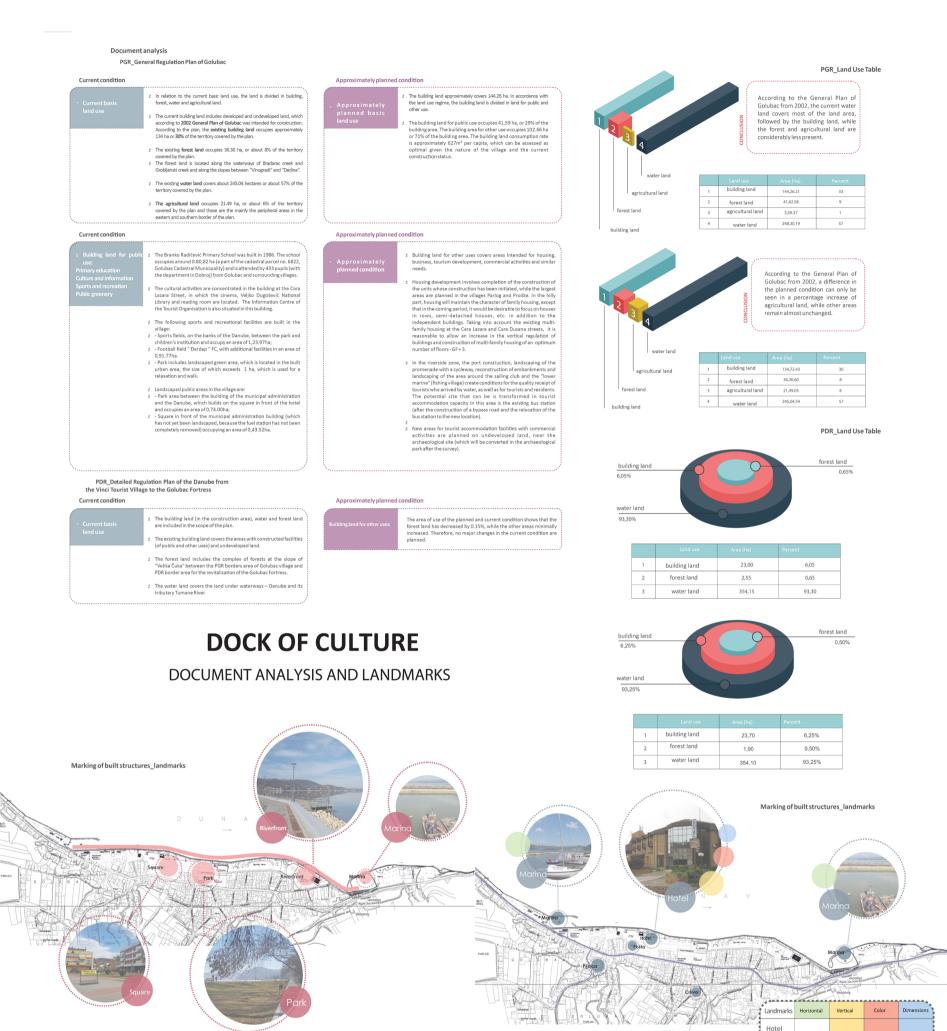
The map shows the coverage of long-distance (blue) and local (green) passenger traffic.

By reading the maps we came to know that there are surrounding villages which are not included in the network of passenger traffic and that there is a potential resurgence of Colubac. Another thing that is noticeable is the neglect of the other highway road, normal to the Danube. Lack of good connections with central Serbia is an economic problem, which is characterized by smaller tourist offer, exchange of goods etc. The third drawback is the neglect of Colubac fortress as long-dis-tance and as a local bus station.

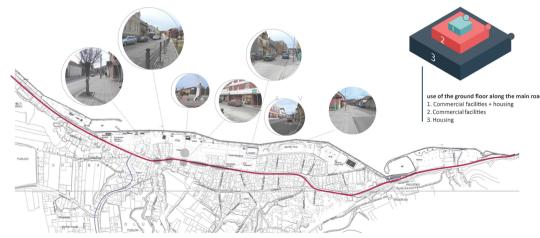




Monika Jovanovski, Boško Žakula, Srđan Radovanović



Marking of the ground floor along the main road





Church



White -

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Academic year:	Prolećni semestar 2016/2017, Master Integralni Urbanizam, 1. godina



Vanja Vujanović, Ivana Savić, Mila Stojanović



6. SURVEYING THE IMAGE OF GOLUBAC

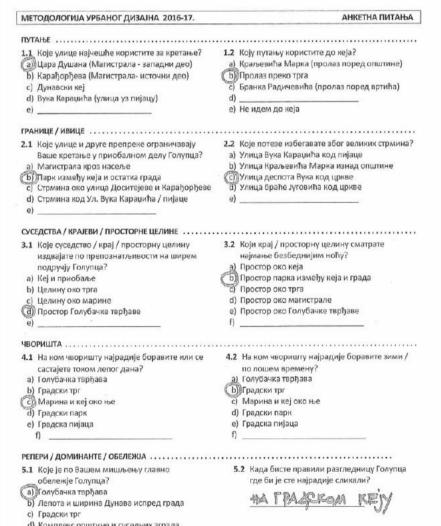
Marija Cvetković, teaching assistant

and PhD candidate

In accordance with a plenty of information and instructions to conduct a survey by a questionnaire, theoretical focus to form a survey and a questionnaire was done by customisation of the principles of City image theory. It is created by Kevin Lynch, famous American urban planner, and published in the book "The Image of the City" in 1960. Accoarding to Kevin Lynch there is a public image of any given city which is the overlap of many individual images. Such group images are necessary if an individual is to operate successfully within his environment. This analysis limits itself to the effects of physical, perceptible objects. There are other influences on imageability, such as the social meaning of an area, its function, its history, or even its name. The theory describes that a city image in the eyes of an observer is formed by five physical forms as its elements (Lynch, 1960):

- 1. Paths are the channels along which the observer customarily, occasionally, or potentially moves. They may be streets, walkways, transit lines, canals, railroads. For many people, these are the predominant elements in their image.
- 2. Edges are the linear elements not used or considered as paths to the observer. They are boundaries between two phases, linear breaks in continuity: shores, railroad cuts, edges of development, walls.
- 3. Districts are the medium-to-large sections of the city, conceived of as having twodimensional extent, which the observer mentally enters 'inside of', and which are

- 4. Nodes are points, the strategic spots in a city into which an observer can enter, and which are the intensive foci to and from which he is travelling. They may be primarily junctions, places of a break in transportation, a crossing or convergence of paths, moments of shift from one structure to another, or even simple concentrations.
- 5. Landmarks are another type of point reference, but in this casethe observer does not enter within them, they are external. They are usually a rather simply defined physical object: building, sign, store, or mountain.



recognizable as having some common, identifying character. Always identifiable from the inside, they are also used for exterior reference if visible from the outside.

Fig. 1: The hardcopy sample of fullfilled questionnaire.



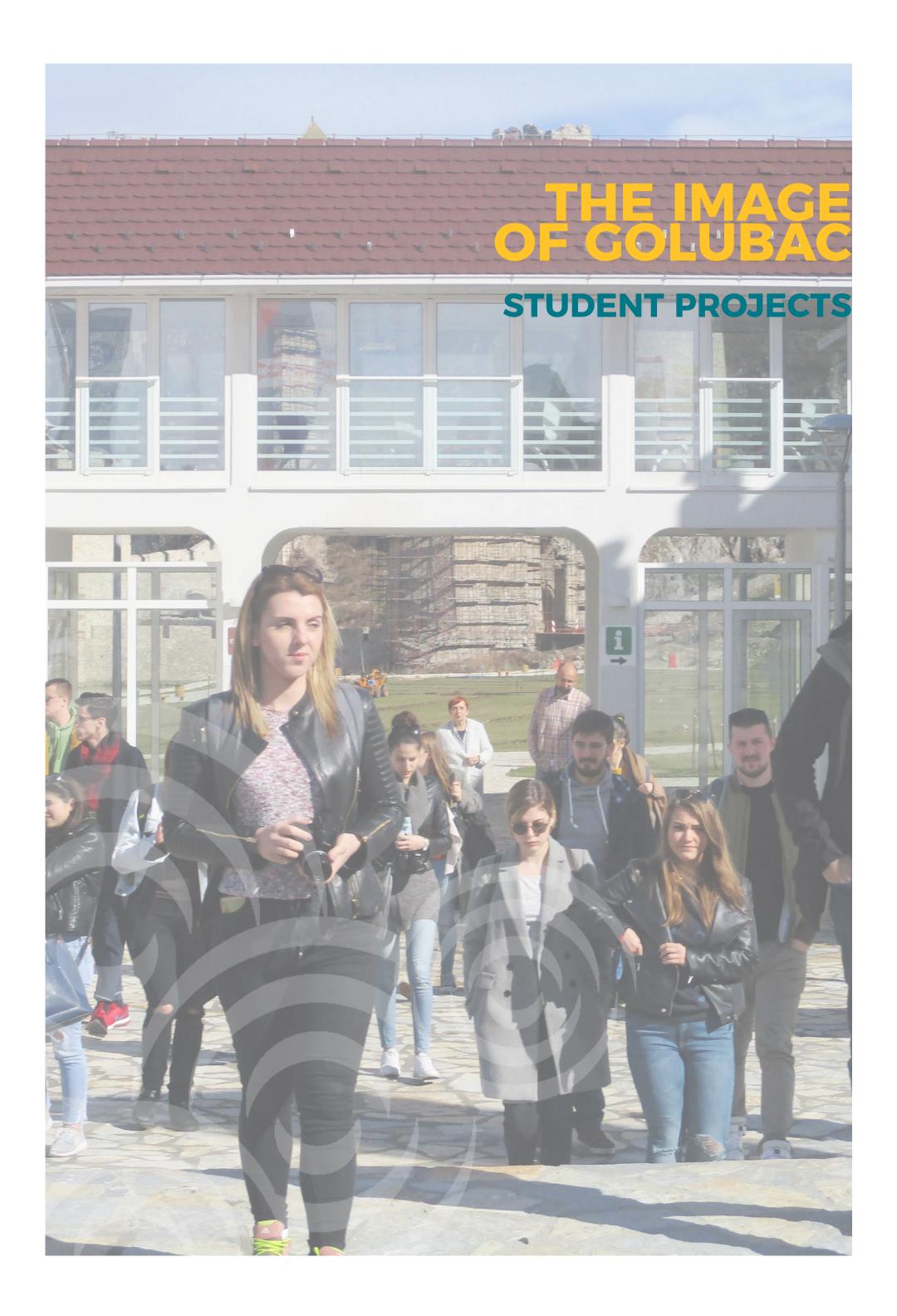
Landmarks distinguish in this group, because they are the only elements to be external and utterly symbolic; the other ones are more spatial elements for an observer. Furthermore, according to K. Lynch (1981), the concentration of landmarks in urban space is greatly important for dynamic city image – maximal distance between landmarks should be 200-300 metres.

SURVEY WITH QUESTIONNAIRE: A survey is a well known and very common method in social sciences as well as in the scientific disciplines where social sciences are applied as theoretical foundations. Urban planning and design are among them. The survey in Golubac was planned by staff with a simplified and shorter questionnaire, where every element of city image theory was a base for two questions. A special aspiration was made to make the questionnaire understandable and receptive for the wide range of respondents. The targeted threshold was 10% of permanent town population (or >150 respondents). Almost all questions are thereby shaped as semi-closed, where several concrete choices, well-known physical elements in Golubac, are given and the last one was left as a blank for additional and unexpected choice. Respondents could choose just one choice. The last question was different, because it was settled as a specific "synthesis" of the previous ones. Hence, there were no given choices in the question and a respondent could give one answer on his/her own.

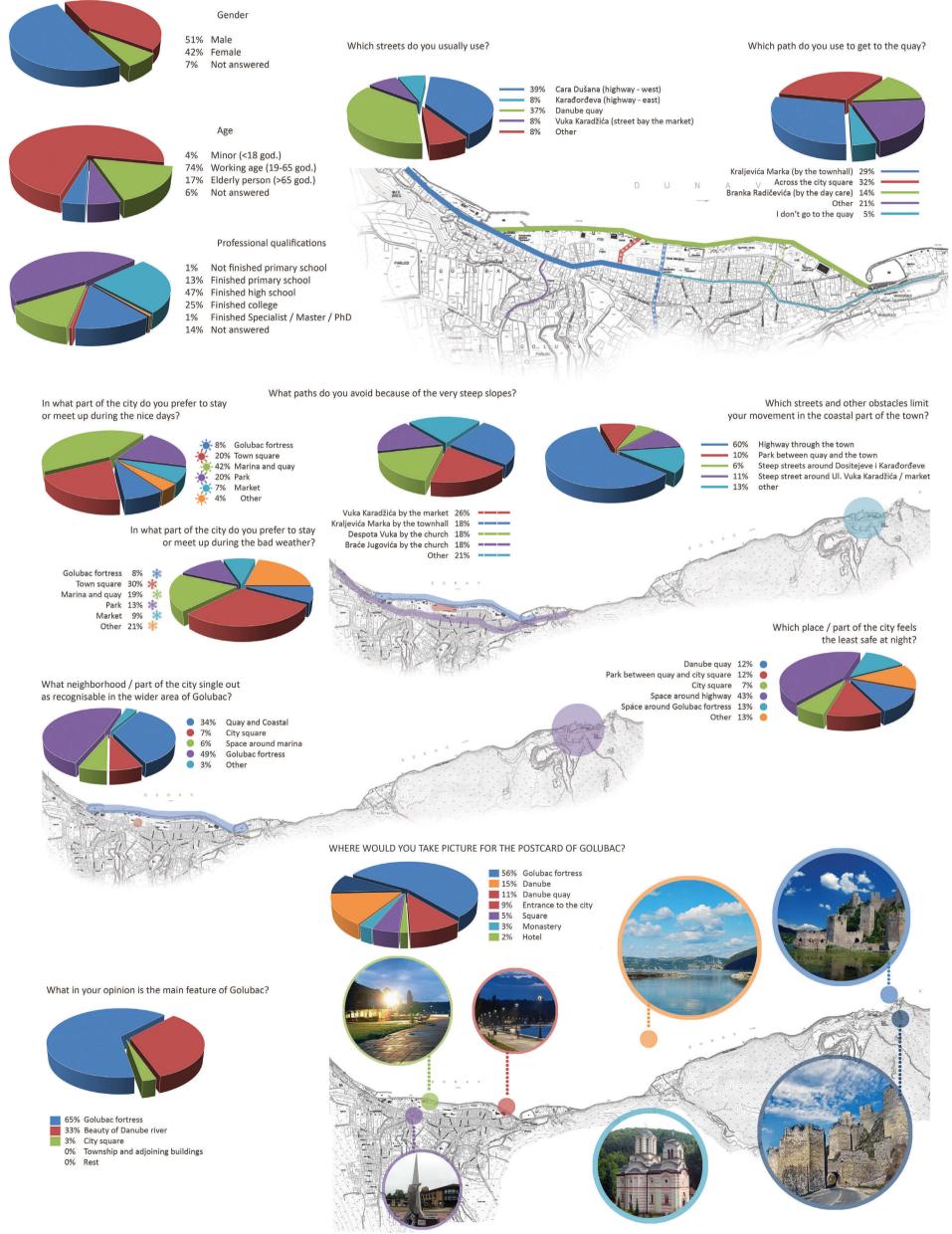


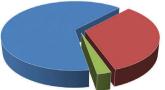
Fig. 2: The survey with questionnaire in Golubac (source: B. Antonić).











Jana Milovanović, Milica Zukanović

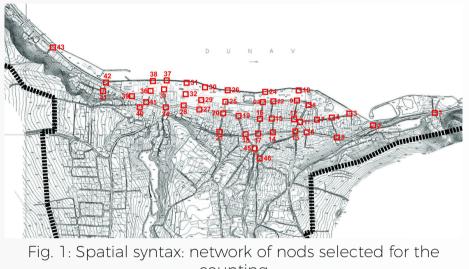
7. FORMING THE SPACE SYNTAX OF GOLUBAC Jelena Marić, teaching assistant and PhD stu-

dent

In order to plan and design cities first we need In order to plan and design cities first we need to understand them. Different techniques are used to achive a better and more comprehensive understanding of a city, its patterns, movement and development. One of the new, but rather effective technique is the space syntax. Built on mathematical algorithms and geospatial computer technology, space syntax provides for analysis of spatial configurations. As a very significant tool it has presented an improvement used in different fields, such as: architecture, urban design, planning, transportation and interior design (Al Sayed et al, 2013). The idea was firstly introduced by Bill Hillier, a professor at The Bartlett School of Architecture, University College London (UCL 20 years ago. Together with Julienne Hanson he wrote a book called "The Social Logic of Space" (1981) (Jacoby,2006).

Spatial syntax is an analysis of spatial configurations measured during one or more selected characteristic periods. In space syntax, the spaces are understood as voids such as streets, squares, rooms and fields, between walls, fences and other things that restrain pedestrian movement or the visual field. In the case of urban research, it consists of the following steps (Hillier, 1999): 1) selected urban area as a network broken into nods; 2) the analysis is based on the choices of users' movement throughout the area: 3) choices of the users are represented in schematic maps (Hiller, Stonor, 2010). However, space syntax cannot measure the character of a city or a building; it also lacks the 3D perception (Ratti, 2004). While this method is a useful tool for detecting different kind of spatial changes and characteristics, the interpretation of the results from this analysis

must be done in accordance with the social aspects considering human behavior in open spaces (van Nes, 2014).



counting

Regarding the case of Golubac, a space syntax method was conducted in March 2, 2017. by the programme staff and 21 students. First, the urban fabric of Golubac centre was divided into 44 nodes in total representing street intersections. The date for the research was intentionally chosen because it was the only market day in Golubac in a week, thus enabling high concentration of people in the centre and the biggest pressure on urban fabric. The counting of pedestrians, cyclists, cars and long/heavy road vehicles was conducted in two 60-minutes periods. After successful measurement were taken, all of the gathered data was processed using statistic tests in MC Excel programme and an online platform for data collected in situ. The next step required from students to set-up the numbers for all investigated issues and form the thematic maps.

During the research different limitations were observed such as: 1) the offer and variety of "leisure and free time" related activities are usually problematic in small towns such as Golubac; 2) the day of investigations was in March, i.e. out of summer holyday and tourist



season and 3) important locations, such as Golubac fortress, were excluded because they do not belong to the city centre. Analysing the gathered data results showed some places are significantly more used by people (pedestrians, cyclist, drivers, and passengers) than others. The most frequent street in Golubac is that which concurs with the state road No IB34 along the Danube, which connects Lower Danube region in Serbia with rest of the country. One of the least occupied place is the area along the Danube quay due to limited access for vehicles. Western half of Golubac centre is much more used than eastern part, even though this part is closer to Golubac fortress. The other subjects are more present - car and pedestrians are almost the same by numbers in many cases. However, there was a huge gap between pedestrians and other subjects. Cyclists and all types of vehicles tended to use the state road, which is also the widest street in the town. At contrary, pedestrian movement make much more complex and dispersed network. In the main street and, especially, in its part around the main square with the highest concentration of central facilities, the number of pedestrians and other observed subject is usually equal.



These results were useful and significant for the overall study of the Golubac city area and provided some qualitative data that can be used in different development strategies and urban regeneration projects.

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Fig. 2: Spatial syntax: the volunteer (right) counts pedestrians, cyclists and vehicles in the middle of related crossroad.

THE SPACE SYNTAX OF GOLUBAC

STUDENT PROJECTS

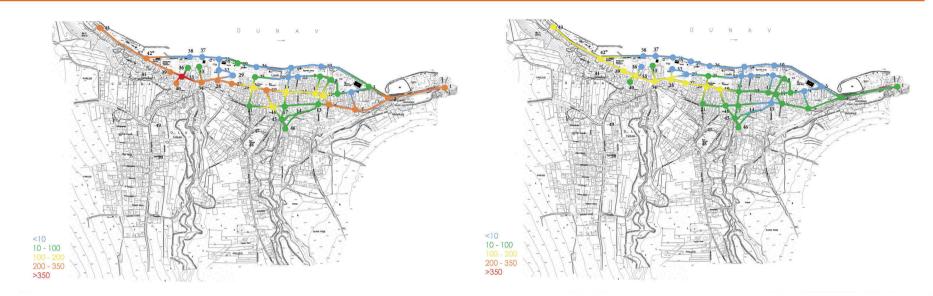


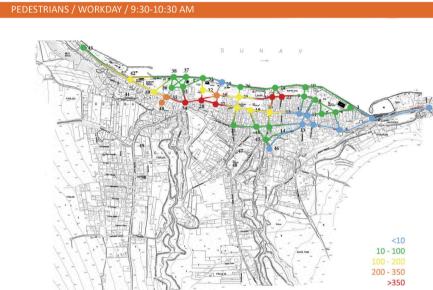
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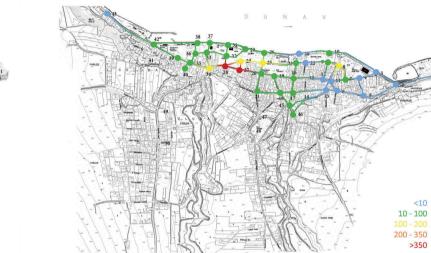
CARS / WORKDAY / 9:30-10:30 AM

CARS / WORKDAY / 2:00-3:00 PM





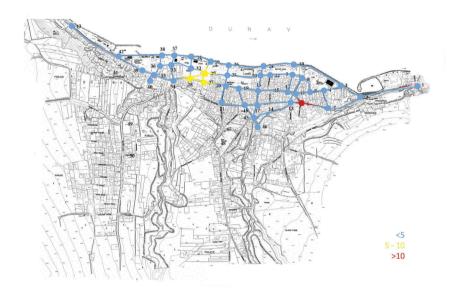
BICYCLES / WORKDAY / 9:30-10:30 AM



B U N A V

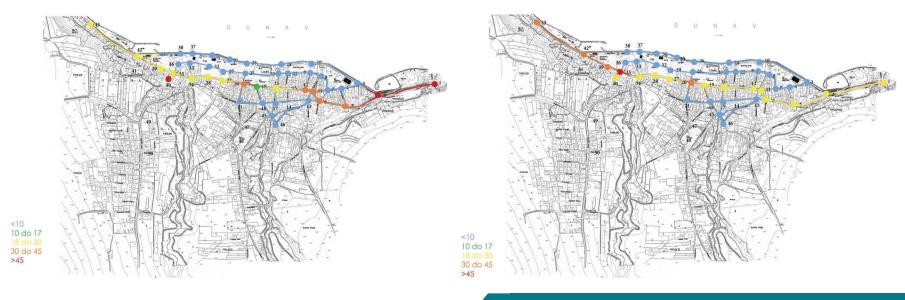
BICYCLES / WORKDAY / 2:00-3:00 PM

PEDESTRIANS / WORKDAY / 2:00-3:00 PM



CARGO VEHICLES / WORKDAY / 9:30-10:30 AM

CARGO VEHICLES / WORKDAY / 2:00-3:00 PM



Jana Milovanović, Milica Zukanović

8. SUMMING IN SWOT ANALYSIS Dr. Branislav Antonić, teaching assistant

The assessment of current state of Golubac Town and its vicinity was given in the form of SWOT analysis. The SWOT analysis is a wellknown method derived from economics science, but it has become prominent in urban studies and planning (Mu, Xiaoguang & Ming, 2007). It is a strategic planning technique. It is based on the determination of four types of features that influence on the planning and, eventually, competiveness of a certain entity (Dess, 2018):

- Strengths: advantageous features of the entity;
- Weaknesses: disadvantageous features of the entity;
- Opportunities: features in the environment of the entity that it could exploit to its advantage; and
- Threats: features in the environment of the entity that present a disadvantage for it.

In the case of student research in Golubac Micro-region, two steps of SWOT analysis were conducted. In the first step all student groups formed their own SWOT analyses, derived from their thematic research. The implemented approach enabled the mutual differentiation between SWOT analyses and an aspect-based assessment. However, this approach made these SWOT analyses rather sector-oriented. This was an obstacle for the next step, to start the design process through the settling of the design concept. Therefore, the second step was the joint formation of a final, comprehensive SWOT analysis from all thematic analyses. The explained twostep SWOT analysis fulfilled all elements of for SWOT analysis in urban studies. A special task in this process was how to adequately map all included features in one drawing. The features from environment (opportunities and threats) were particularly challenging to spatially determine due to their 'external' character.



Fig. 1: Discussion between students and local experts in Golubac about the most significant challenges in local urban developments. This discussion was important for forming SWOT analysis (source: B. Antonić).

References:

Dess, G. (2018). Strategic Management. New York, NY: McGraw-Hill.

Mu, Y., Xiaoguang, Z. & Ming, Y. (2007). SWOT Analysis in Urban Strategic Planning: Application and Innovation. City Planning Review. Retrieved from http://en.cnki.com.cn/ Article_en/CJFDTOTAL-CSGH200704011.htm.

the proper assessment of the current state of Golubac.

Both steps were further spatially elaborated through mapping, which was customised



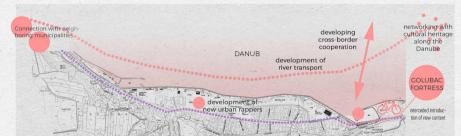
OVERALL SWOT ANALYSIS GOLUBAC

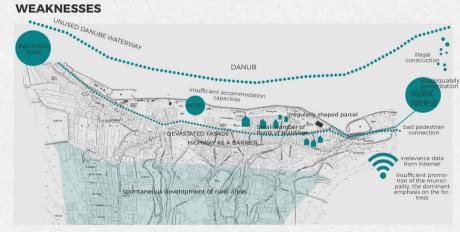
TOPICS:	STRENCTHS	WEAKNESSES	OPPORTUNITIES	THREATS	ASPECTS OF INFLUENCE
CULTURAL AND NATURAL HERI- TAGE	 Golubac Fortress as a cultural property of an exceptional importance the vicinity of Berdap national park 	 inactive and inadequate presentation of the cul- tural and historical heritage in the Golubac munici- pality insufficient cooperation and networking of munic- ipalities in the Braničevo District the Fortness is situated outside the settlement and has poor connections with the Golubac municipality 	 introduction of this content during revitalisation of the Col- ubac Fortress connecting the Fortress with the old core areas of the mu- nicipality by bike paths a possibility of inclusion into international projects related to revitalisation of cultural heritage alongside the Danube promotion of natural richness the Danube and the Iron Gates 	 preservation areas limit possible interventions vanishing of the old crafts 	 development of tourism local economic development development of creative in- dustry urban regeneration and reha-
MAPPING OF PHOTOGRAPHS	 internet access - anyone may publish a photograph existence of a tourism website with descriptions existence of the town's website existence of a dedicated Fortress website existence of various unofficial websites existence of motif photographs of farmhouses and rural tourism photographs with descriptions about the Fortress in foreign languages 	 internet access - anyone may publish a photograph/ there is no adequate filter to check the validity of information the official website of the town of Colubac is in- complete, as far as photographs are concerned not enough photographs of the interspace (town streets, route to the Fortress) not enough photographs of the hospitality facili- ties 	 social networks - users' photographs / good promotion existence of the facebook page of the town of Colubac lots of tourists use Instagram there is a possibility to access other people's photographs existence of stocks of geotagged photographs on online maps 	 incorrectly marked locations on social networks - e.g. "Colubac in Bosnia", "Colubac nearby Valjevo" untrustworthy data 	- development of tourism - place branding
PURPOSE OF LAND AREAS	 recognisable town landmarks variety of content along the trunk road cultivated riverbank cultivated green areas existence of commercial service facilities in the core area of the town 	 punctual layout of administration facilities the trunk road separates the residential part of the municipality from the core area of the town vicinity of the industrial zone with its sports com- plex and the arable land unexploited potentials of plots, few floors in the residential area 	 potential for restoration of the urban landmarks determination and erection of new urban landmarks open fields for investments in commercial and recreational facilities 	 competitiveness of the adjacent municipalities lack of planning documents unprepared investment location terrain configurationa 	 - improved urban physical structure - sustainable distribution of space and content - mixed-purpose development - improved readability - improved investment climate
SIGHTSEEING TOURS AND SECTIONS	 existence of the trunk road existence of Golubac Fortress, as an important historical site and tourist attraction an immediate vicinity of the Danube, as the most important Europe's waterway - the Pan-European Corridor 7 the EuroVelo 6 international cycling route passes through the site 	 non-existence of administration at the local bus station non-existence of an adequate database of sight- seeing tours unexploited waterway potential of the Danube along the Golubac municipality morphology of the terrain as an obstacle for fur- ther construction and development of the town of 	 tracing and activation of the EuroVelo 13 international cycling route strengthening cross-border relations with Romania strengthening tourism collaboration with Romania possibility of construction of a marina with a pontoon dock for larger yachts 	 position of the Danube as a threat to development of the immediate vicinity of the riverbank due to large differences in water level, as well as the seasonal erosion by ice continuous devastation of the Fortress due to vicinity of the trunk road unfavourable influence of freight traffic to the condition of the trunk road 	 local economic development development of tourism improved attractiveness introduction of compatible content development of alternative types of traffic
NEETWORKS, INTERCONNEC- TIONS, AND THE INFRASTRUC- TURE	 well-developed street network /interconnections with the trunk road 	- undeveloped passenger and freight water trans- port on the Danube - the Pan-European Corridor 7	 networking possibilities with surrounding municipalities possibilities of developing passenger and freight water transport on the Danube - the Pan-European Corridor 7 cross-border cooperation 	 morphology of the terrain the trunk road as a barrier for the development of connections between the core area of the munici- pality and the hinterland / lack of planning in the development of utility infra- structure 	- improved mobility - improved investment climate - development of tourism - local economic development
e – cadastre	 most of the plots have access to communications a significant number of plots are suitable for residential construction (up to 500 m2) artificially created construction land for the purpose of increasing construction capacity a significant number of plots are the property of a single owner (which facilitates property-rights 	 a significant number of fragmented plots in the core area of the town a significant number of plots of irregular shape (perimeter segments around the square) plots of larger areas are not suitable for construction (peripheral parts of the town/highly sloped terrain) few plots suitable for capital investments 	 relinquished state-owned plots for construction of cycling routes (through a concession) in the river- bank area 	 undefined ownership structure over the plots be- longing to the riverbank strip (mixed jurisdictions / Public Water Management Enterprise / state / Derdap Hydroelectric Power Station) undefined use of land ('Branko Radičević' Com- pulsory School and a residential building on the same plot) 	- improved e-Government system - improved land management - improved investment climate
PATTERN MAPPING IN CONSTRUCTION	issues) - an urbanised town centre layout - preserved architectural heritage in the core area of the town - the existence of hospitality facilities of an adequate capacity for reception of guests (five-storey, i.e. CF+ 4 buildings) - a wide variety of architectural heritage - the existence of a sports hall provides for sports	 number of floors does not exceed two storey buildings (GF-1) - the reason for an insufficient urbanisation of the town protection of cultural heritage does not cover the entire ar- chitectural heritage, instead it is limited to the Golubac For- tress. Turnan monastery, and certain buildings in the town centre the rural part of the town has been built without proper planning tectural heritage of Golubac town centre and the landscape of Golubac Fortress 	 promotion of architectural heritage through the tourism offerings of the town of Colubac preservation and improvement of the architectural heritage by all the actors attraction of investments into the Colubac munici- pality through promotion of its tourism potentials 	 inadequate reconstruction and revitalisation of the architectural heritage morphological characteristics of the terrain pre- vent further expansion of the core area of the town illegally constructed buildings in the national park areas illegally constructed buildings in the rural part of the town, corrupted identity and architectural style 	 local identity creation improvement of ambient values a clear vision of spatial devel- opment an improved readability
TOURISM AND HOSPITALITY	 the identity of the Golubac Fortress situated at a stretch where the Danube is at its widest point - the vicinity of the Iron Gates the existing events / "Danube Fair", sailing regatta/ - construction of a wharf well-developed offer of extreme sports 	 small capacities of hospitality and tourism offerings poor rating of the facilities lack of web presentations insufficiently developed tourism offer location unappealing to investors 	 connecting with other towns and municipalities nearby the Danube, and inclusion into the network of tourism offerings along the Danube connecting with municipalities in the region, by creating an ethno-tourism network of Eastern Serbia possibilities for organisation of international events collaboration with Romania. extension of the offer- ing to the other bank on the opposite side of the widest stretch of the Danube 	 state's indifference to invest in the development of tourism in Colubac and the surrounding municipali- ties insufficient number of tourists insufficient numbers of qualified professionals in tourism organisations legal regulations which impede the development of hospitality and tourism offerings 	- local economic development - revitalisation of cultural and historical heritage - urban regeneration

STRENGTHS:

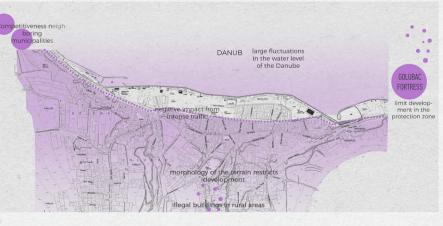


OPPORTUNITIES

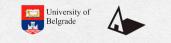












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Supervisor:	prof. dr Aleksandra Đukić, as. Ivica Nikolić, Branislav Antonić, Tamara Radić
Academic year:	2016/2017



Milica Milica Ristović, Milica Djurdjević, Stefan Hadži Arsenović

9. SETTING NEW DESIGN CONCEPTS & SCENARIOS

Dr. Branislav Antonić, teaching assistant

The design process was narrowed to the central core of Golubac Town with the long Danube Riverfront as a polygon. This historically valuable and functionally and physically diverse urban space allowed the variety of ideas and approaches in student projects.

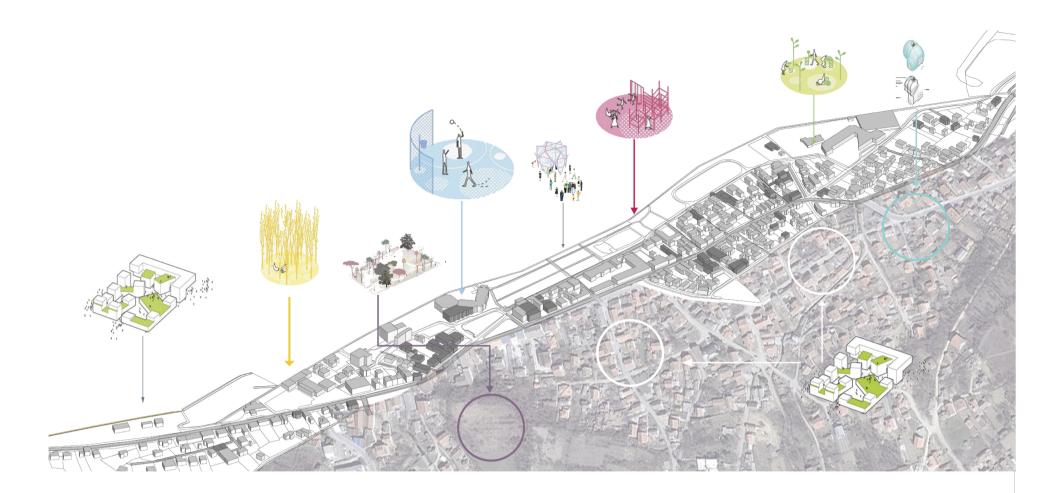
The first phase in student design process had two steps: a design concept and design programme. The first one was the concept. It refers to the set a vision and to further develop it through aims and their basic spatial presentation - a matrix-look proposal of new links, networks, nodes, and neighbourhoods, without losing genius loci. The vision is scrutinised in a catchword of the proposed design project. Students were innovative and space-sensitive in this task; some of their visions pointed Golubac as the "treasure of the Danube", "Dock of culture", "City of Extremes" or "Smart". Their widely specified visions enabled extensive sets of aims that targeted the economic, ecologic, and social sustainability of Golubac.

The second phase was programming, where it was expected from students to develop a comprehensive programme of proposed all urban functions, activities and facilities as their spatial representations that are applicable for central Golubac. The programme did not mean to simply enlist them, but to make a reasonable network or patchwork that would work in urban space. The most of students recommended a mix-use development with the special respect to culture, retail, tourism, leisure, and housing in their programmes. Similarlytotheconcept,thedesignprogramme also included the mapping; students finished this phase by presenting their programmes as networks in the urban space of central Golubac.



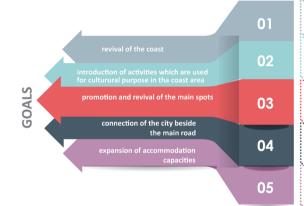
NEW DESIGN CONCEPTS & SCENARIOS STUDENT PROJECTS





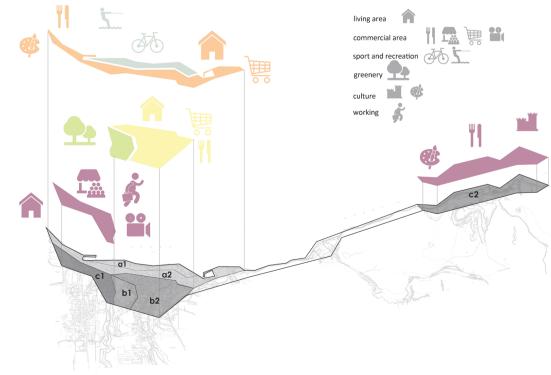
DOCK OF CULTURE

VALUES, PROBLEMS, GOALS, MEASURES AND SPATIAL ZONING





Connection of the city inside and beside the main road



Measure 1. Improving availability and various forms of access Measure 2. Unique shaping design and upgrade of the public space Measure 3. Upgrade of the urban design for better safety of the users

Measure 1. Creation of a cultural style that upgrades the attractiveness of the space and attracts more visitors Measure 2. Change of the use of existing buildings and potential locations in the central zone of the town Measure 3. Connection of the different locations with the educational and cultural institutions with the goal of achieving synergy effects

Measure 1. Identification of the cultural heritage (material and non - material) Measure 2. Rehabilitation of the buildings with cultural - historical importance Measure 3. Improvement of the locational potentials in the surroundings of the cultu Measure 4. Expansion of the cultural offerings according with the needs

..... Measure 1. Improving availability

Measure 2. Improving the quality of different services Measure 3. Introduction of new different contents

Measure 3. Diversification of the services

Measure 1. Upgrade of the existing service capacities Measure 2. Support of the development of new service buildings on potential locations



Expansion of accommodation capacities and introduction to the new content

VALUES

- 1. Diversity of cultural historical heritage
- Versity of cultural Instortean lentrage _ Golubac fortress as important part of the cultural historical heritage _ Vicus Cupae (in the place of nowadays town of Golubac, not started archeological excavations but remains dated from the Roman period) _ Zaviša Crni (monument of the Polish knight, located in foothill of the Golubac fortress) _ Medieval monastery Tuman (12km south of Golubac, foundation of Miloš Obilić)

MEASURES 2. Danube

- _ Marinas as docks in the river corridor _ Bycicle route EUROVELO 6 _ Danube through the municipality represents part of the corridor 7, river route Rhine -Main Danube Black Sea

3. Rich agricultural land

- _ 41% of teritory of the municipality is under agricultural land __ Foothill gives good conditions for pomiculture and viticulture __ Developmet of the organical production, specially in the field of herbs, beekeeping and goatkeeping
- 4. Diversity of natural inheritance

_ National park Derdap _ Cayon of Brnjička river (12 km east side of Golubac – mountain paths) _ Black Hill (the highest mountain hill in municipality Golubac, 7 km south side of Golubac)

PROBLEMS

1. . Insufficinet connection of the contents inside of the town _ Main road passing through the central area of the tow _ Lack of cultural buildings and cultural content _ Devastation of public spaces

- 2. Insufficient accommodation offerings
- _ Lack of accommodation capacities _ Lack of restaurants, cafe's, fast foods, etc..
- 3. Disrepair and insufficient usage of the main spots
- Unrecognised main spots 4. Lack of safety in the places

Insufficient quality of the urban design which directly affects the lack of safety in the places

PROGRAM

DESCRIPTION OF THE AREAS

- Area A _a1_subzone a1 is part of the A area, situated by the river, used for walking , with different a_subcore at is part of the A area, student of the river, used for waiking, with thirtering contentents for a better use of the area [a2_subzone a2 is a part of the A area, which is used for buildings with mixed purpose, for extra contents of culture and education and commercial purpose
- Area B

Vanja Vujanović, Ivana Savić, Mila Stojanović

__b1_subzone b1 is part of the B area that is used as a living area, as well as commercial area, with the purpose of activation of the area beside the main road __b2_subzone b2 is part of the B area that is used for the greenery, and represents the passage between the commercial and living area

Area C

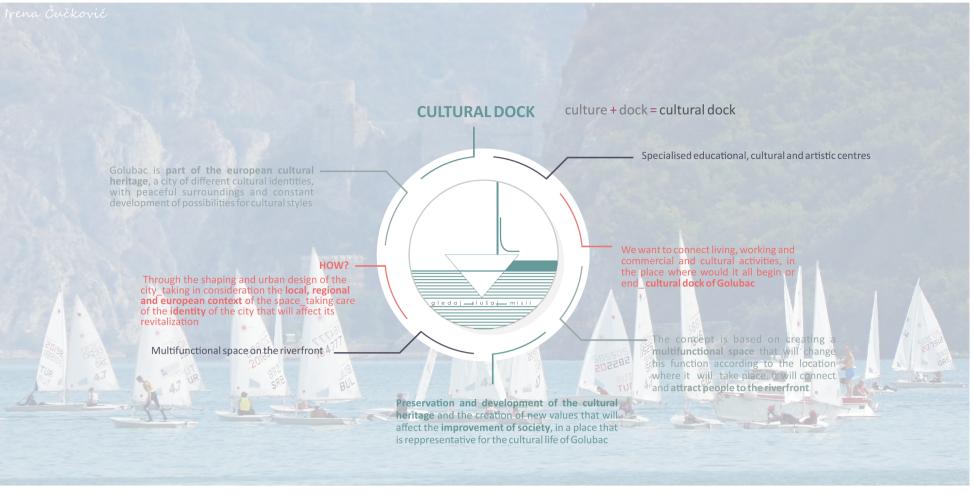
_c1_subzone c1 is part of the C area that is used for commercial and working purposes _c2_subzone c2 is part of the C area where the Golubac fortress is situated, with mixed use, since it connects historical heritage and other commercial purposes



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Supervisor:	prof.dr Aleksandra Đukuć, ass. Ivica Nikolić, saradnici Branislav Antonić, Tamara Radi
Academic ye	r: Prolećni semestar 2016/2017, Master Integralni Urbanizam, 1. godina

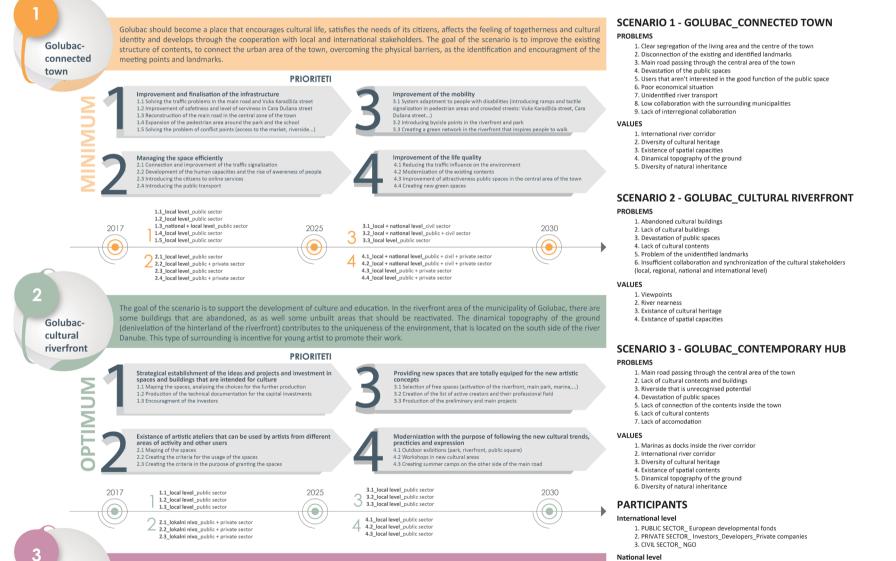


DANUrB



DOCK OF CULTURE

VISION AND SCENARIO



Golubaccontemporary

The town has to focus on its potentials and values. The challange of the old towns is to adapt to the needs of the contemporary way of living Scenario points the participation of the town in investing in its citizens, that makes it liveable. This needs to be taken in consideration on different levels (from the local to the international).

1. PUBLIC SECTOR_ Ministry of Finance_Ministry of Culture_Public of 2. POLIC SECION_MINISTY of ministry of ministry of culture_rails
Strbja vode_Srbija Sume_JP Putevi Srbije
2. PRIVATE SECTOR_Investors_Developers_Private companies
3. CIVIL SECTOR_ NGO

National level



Vanja Vujanović, Ivana Savić, Mila Stojanović



GOLUBAC: CITY OF EXTREMES CONCEPT/VISION/GOALS/PROGRAM

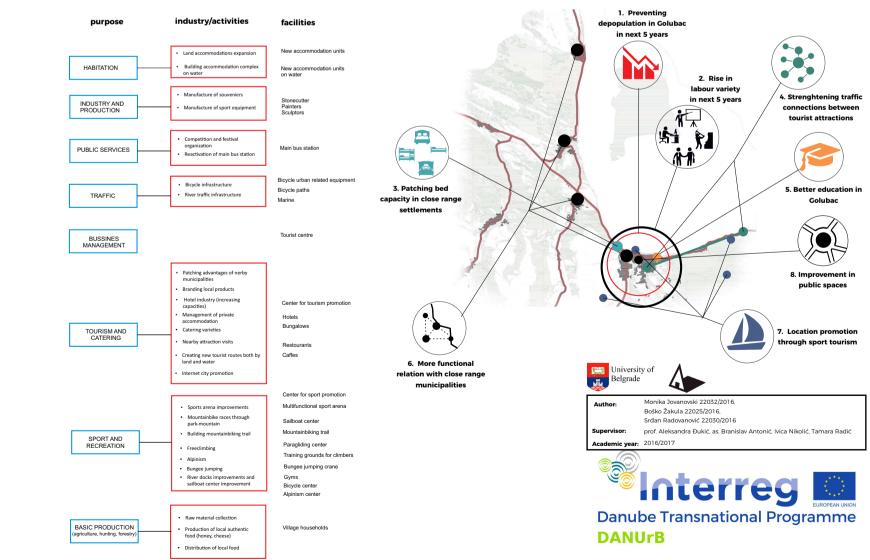


CITY OF EXTREMES CONCEPT

Position of the Colubac city and its rough terrain lead us into thoughts about using it as advantage for creation of the new city identity - the city of extrems. Possibilities of development in the field of extreme sports, habitation and gastronomy makes the brighter future image for Colubac. With constant changes in life dynamics and a lack of spare time, demand for extreme activities that provoke adrenalin rush gain on demands among human population.

Following the rise of extreme activities in town we also expect extreme rise in mainly tourist visits. This is esspecially expected during diverse manifestations that we are planing to develop in Colubac. Rise of visits would lead to urgent rise in bed capacity which is exactly what city needs to start devenoping in a positive manner rappidly. Cultural and historical legacy of Colubac has very strong identity which could be used as a strenght in promotion of the city by synchronising such identity with activities that take place in the area.

The PROGRAM



MAP OF GOALS

Monika Jovanovski, Boško Žakula, Srđan Radovanović



SCENARIO 1 - Monocentric scenario

MEASURES

M01 Hotel adaptation and expansion in the city centre M02 Park renovation and lighting system set up M03 Building of High school near kindergarten M04 Building of culcture and sport manifestation centre M05 Building of skate and parkour park at location near stadium M06 Building of floating apartments on water

PUBLIC SECTOR PRIVATE SECTOR

CIVILIAN SECTOR



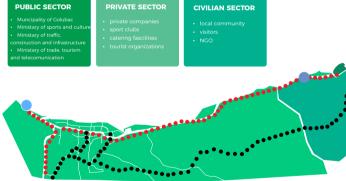




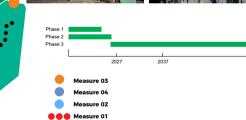
SCENARIO 2 - Polycentric scenario

MEASURES

M01 Renovation of existing transport infrastructure to tourism attractions M02 Construction of housing units on the water off the western marine M03 Building a climbing center and training grounds near quarry M04 Building a restaurant on the cliff near Golubac fortress M05 Building a mountinbiking trail in the woods and in the city







•••• Measure 05

SCENARIO 3 - Linear scenario

MEASURES

M01 Urban planing of river coastline in marine area M02 Adaptation of existing marine with dock M03 Opening a sailing center inside marine M04 B ng a pool complex near marine



DEVELOPMENT SCENARIOS

SCENARIO OF MONOCENTRIC DEVELOPMENT /,,HOT SPOT"

Phase 1 /2027

Phase 1/2027 Development of Colubac in the nearest city of main square has a goal to focus activites in one main spot and rapidly improve its development. Hotel adaptation and expansion allows higher number of visitors due to improve accomodation capacity. Lighting system has been placed in the park to lead people to use new pedestrian routes during night. Building the centre for sports and cultural manifestation opens up new possibilities for Golubac activities through the whole year.

Phase 2 /2037

Phase 2/2037 Investments of foreign embassys in Golubac are helping park improvements to follow active trends. Due to clearly formed of the core of the city new urban contents are appearing. New work places bring in younger people toilve and form families in here. Extreme sports organizations through town are creating the new identity of Golubac and pulls up creation of new urban courts as skate and pa rkour parl

Phase 3 /2067

Phase 3/2067 City centre of Colubac is following current trends in every way and the space identity becomes recognizable even on the international level. Due to large number of organized competitions, with a goal of giving the different variety of accomodation capacities, floating accomodation units were built near the marine. Central zone of Colubac became one of the most recognized manifestation symbols on the national scale. Local population with highschool qualifications stay living and werking inside Golubac in large-percentage.

SCENARIO OF POLYCENTRIC DEVELOPMENT

Natural division of Golubac which brings challenges of rough terrain, after polycentric content and infrastructure management, today is seen as attractive entity tich with challenges. Expected in a minastructure management, today is seen as a stractive emity (cr) with challenges, Expected rise in number of visitors druming the next ten years has a stracted investments for building of floating accomodation on Donau. Also periferal settlements are investing in modernization of private accomodation for rent according to prognosis about organizing international events in Golubac.

Phase 2- 2037

There are extreme paths for mountain biking opened deep in the land part of Colubac and lead . Users through forests and steep streets of town. For these paths there is public transport organized and new road infrastructure. In close range of mountain biking paths new free climbing club has been opened and is already free climbing on nearby steep cliffs from medium to advanced level of difficulty. Following trends of thrill and excitement throughout location, new ambition activities are appearing. Among these is the new restaurant on the cliff that has been opened near fortress of Colubac and even famous international 24 kitchen chanel is promoting it.

Phase 3- 2067

 Decades behind existing accomodation capacities are constantly occupied with the increasing number of people interested in owning and renting their private accomodation. Certain number of י activities that were experimentaly organized on teritory of Golubac, has integrated and became tradition, such as catching giant cat fish from pool filed with murky water, sleeping over in imitation for medival dangeons close to fortress and pionines with more view energy water, are pain over infimitation of medival dangeons close to fortress and pionilar. While cliv became interesting for exploration and very evenly deveoped which enables stay in accomodation on different relations from centre of the town without losing attraction.

SCENARIO OF LINEAR DEVELOPMENT OF GOLUBAC

Development of river bank of Golubac allows organization of new events which attract interest groups for which this town hasn't provided much in the past (17-40 years of age). Opening of solbat contre allows organization of more adequate competition in saling which attracts others events during its duration like concerts and exhibition of nautical equipment. Newly built marine is capable of accepting bigger tourist boats and there is rise in number of tourists that come via Donau. Swimming pool complex near hotel attracts swimming sports in national scale and becomes popular place for teams and individuals preparing themselves for competitions Sequentialy, there is diver's club for advanced training, extreme paths for running and a continuous linear contents that are being attracted by development of this part of the town (restaurants, shops interaction of the second seco the town

Phase 2 -2037

With identity of the town and terrain characteristics, extreme sports are concentrating even m in this town. River banks of Golubac became symbol of extreme competitions. After 10 years of Additional saliboat festival it has become ordinary for international broadcasters to report from Golubac. During festival days, extreme number of visits is being reported. Hotel capacities have become insufficient, which provoked expansion of hotel complexes and also rise in number of , private accomodation rents. Location attracts large foreign intvestors.

hase 3 -2067

2067

Golubac becomes well urbanized town with high quality infrastructure, highly developed rive nks with park hotel

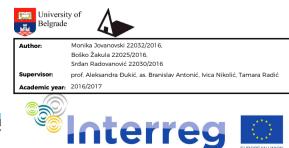
M05 Building an extreme trim trail and linear trampolines along the river bank M06 Setting up a crane for bungee jumping

PUBLIC SECTOR	PRIVATE SECTOR	CIVILIAN SECTOR
Muncipality of Colubac Ministary of sports and culture Ministary of traffic, construction and infrastructure Ministary of trade, tourism and telecomunication	 private companies sport clubs catering fascilities tourist organizations 	 local community visitors NCO





a "must visit" place. It is especially recognizable as place for extreme sport fans because it has wide variety in this field. International competitions are circulatory returning to Golubac, ma attraction of town on high level



Danube Transnational Programme DANUrB

Monika Jovanovski, Boško Žakula, Srđan Radovanović

s ustainable m odern a rtistic r eliable t own

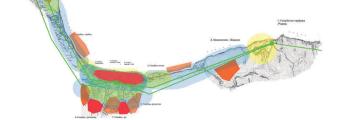


GOLUBAC - SUSTAINABLE, MODERN, ARTISTIC AND RELIABLE ARTISTIC & RELIABLE

		2018	2023 2028 2033 2038 I <	SCENARIO GOALS
	It foundation it foundations the second se			_CREATIVE CITY GOALS better promotion of existing content - to use what has already been organized in the tourist offer in the best possible way, better promotion of the fortress over the Internet, road signs, maps
1	14. Barance m2 opening of the m3 opening or the m3 opening	ting Vinci back to life		better promotion of the sailing the introduction of new cultural content - to use the potential that Golubac offers for tourism, tourists, foreign as well as domestic submit bids that are affordable and organized, so there would be free advertising - word of mouth introduction of cultural routes museum opening amphitheater opening new events- outdoor plays and concerts inform visitors with local traditions, bring farms back to life
		lighting be camps int ess centers litural tours RE	OCAL LEVEL - MUNICIPALITY etter promotion of existing contents ntroduction of new cultural contents EGIONAL LEVEL ntroduction of new cultural contents	organizing art colonies - the nature, the Danube, legacy, potentials that can be used for organiz- ing poetry and art colonies that are looking for peaceful and quiet places, instead of a typical accom- modation in hotels, offering accommodation in camps and in that way stand out from other products contructions of the camps and bungalows getting ships for accommodation
1	1 forders and 1 ford	PR co th int	TATE LEVEL RIVATE INVESTORS onstruction of accommodation capacities - in cooperation with ne municipality ntroduction of new cultural contents IGO	_RELIABLE CITY GOALS safe environment - the idea is to provide a safe environment for residents and tourists, in which they will be able to feel comfortable and pleasant relocating the highway out of the center restoring infrastructure improve the lighting along the highway, around the fortress restoring old buildings
				healthy environment - except the security, residents also need healthy environment in which they will be able to enjoy in nature without harmful gases get rid of the motor vehicle through the center get focused on pedestrian, bicycle traffic introduce water forms of public transport development of alternative energy sources - aero, hydro, solar
	A handha malana ing ang ang ang ang ang ang ang ang ang a	2018	2023 2028 2033 2038	job creation - how to attract people to come to live in Golubac, if the creative city worth as an in- vestment, the next step forward in the development would be the creation of an environment that people come to live and work in, not just as tourists opening of the business center (IT) in nature opening of the small and medium-sized enterprises improvement of existing firms in cooperation with the municipality
	m3 improve the lighting along the highway	around the fortress	· · · · I · · · · I · · · · I · · · · I · · · · I	alternative forms of accommodation - because of the lack of the hotels as accommodation for tourists, focus has to be on the provision of alternative forms of accommodation for tourists that would provide a sense of connecting with nature opening of the business, children's camps and for tourists orginizing art colonies in nature contructon of the camps and bungalows in nature as accommodation for tourists getting ships for accommodation out of the center
	It and the second secon	strian, bicycle traffic s of public transport s - aero, hydro, solar center (IT) in nature um-sized enterprises		

m1 opening business camps, for children and visitors m2 organizing art colonies in nature m3 construction of the camps and bungalows in nature for tourist accommodation m4 getting ships for accommodation on the river out of the center

restoring infrastructure lighting camps business centers cultural tours



LOCAL LEVEL - MUNICIPALITY restoring infrastructure lighting improvement improvement of the old buildings relocation of the highway orginizing art colonies improvement of the existing fimrs job creation

REGIONAL LEVEL the introduction of alternative forms of public transport - water forms STATE LEVEL development of alternative energy sources

PRIVATE INVESTORS job creation contruction of the new accommodations- in cooperation with the municipality orginizing art colonies opening of the business and childrens' camps

NGO

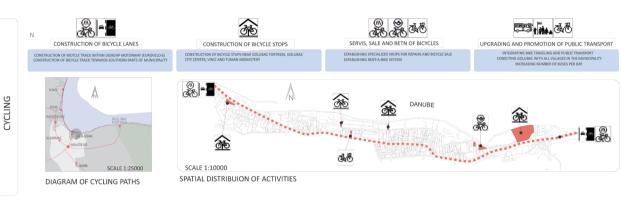


Authors:	Jana Milovanović 22013/2016, Milica Zukanović 22020/2016
Supervisors:	prof. dr Aleksandra Đukić, ass Branislav Antonić, Ivica Nikolić
Academic year:	2016/2017



Jana Milovanović, Milica Zukanović





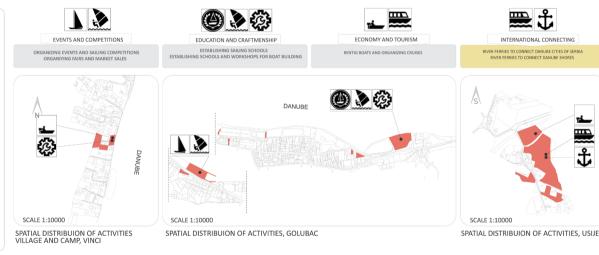
CYCLING

 Construction of the bicycle lines is the first phase that is being implemented (0-5 years) and it's implem the Municipality Golubac and the state of Serbia. Linking Eurovelo6 track with southern part of municipalit create would be further incentives for the local population and to unism the municipality itself.

2. The construction of the parking spaces for bicycles is the first phase of which is being implemented (0-5 years) and implemented by the Municipality Golubac. The possibility of realization of this action is reflected in the large number of undeveloped plots, both in the center of the city and in large enough plots around the main square and the city park

3. Service, sale and bike rental is the first phase of which is being implemented (0-5 years) and it's implemented by the Municipality Golubac and private entrepreneurs in the framework of a public-private partnership. The possibility of, as well as for the space for parking facilities, is reflected in the transfer of a space which are abandoned and trough private-public partnership can regulate and can be used by the bicycle clubs and private companies.

4. Upgrading the network of public transport is the first phase of which is being implemented (0-5 years) and it's implemented by the Municipality Golubac in co-operation with the private bus operator through public-private partnership



A

NAUTICAL TOURISM

 Implemented within the first phase of the plan and the stakeholders of the implementation are Municipality of Golubac and private companies through a public-private partnership. Through the action, the number of tourists could rise and economy in general. The locations for such events are all around Golubac. Some of them are areas of both marina, as well as the space at the city park next to sport fields.

2. The action is implemented in the first phase of the (0-5 years) with option of growing in later stages of development. The holders of the implementation are Municipality of Golubac in co-operation with the state of Serbia and private companies. The school would be located on the main road towards Golubac fortress on undeveloped public plot.

3. The space should incorporate workshops for repairing and constructing boats. These workshops could employ a certain number of the local population. It's implemeted within the first phase of the plan and the stakeholders that could be interested in implemetation are Municipality of Golubac, Sports clubs and private companies through a public-private partnership

4. The action is closely connected with the implementation of the new marina in the eastern part of the city. Such actions, sould contribute to the development of the trade and tourism as well as increasing number of wivisitors. Implementation is in the framework of the first and the second phase of the plan and the stakeholders of the implementation are Municipality of Golubac, state of Serbia and the International Organization for crossborder coreserved.

HIKING AND SIGHTSEEING

1. This action is implemeted within the first phase of the plan and the stakeholders of the implemetation are Municipality of Golubac and private companies through a public-private partnership. Golubac is situated on border of National Park Djerday, and construction of facilities are not possible at the the hills around Golubac. Its necessary to regulate the already existing track which are used by mountaineers. In addition, it is necessary to create conditions which are prescribed by the law Of National parks for rest areas. (tents, tables, trash disposal...)

2.This action is immplemented within the first phase of the plan and the stakeholders of the realization are Municipality of Golubac and private companies through a public-private partnership. The inclusion of the Cyclingbiling out of Golubac in action, and using of their knowledge. The inclusion of the Cyclingbiling out of Golubac in action, and using of their knowledge. The inclusion of the Cyclingthing out of Golubac in action, and using of their knowledge.



INFRASTRUCTUR

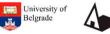
NAUTICAL TOURISM

SIGHTSEEING



XX

niking club of Golubac in action, and using of their knowledge. The inclusion of the other mountaineer associations from nearby towns.

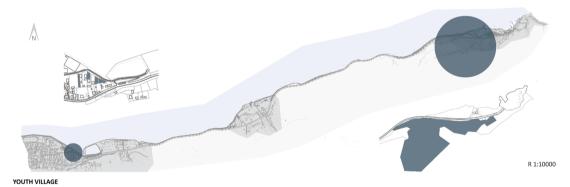


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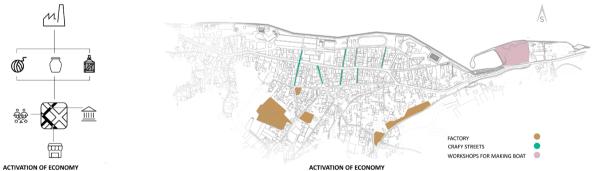


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OVERVIEW FREE PLANTS AVAILABLE FOR BUILDING THE YOUTH VILLAGE



SCHEMATIC REPRESENTATION OF THE MANNER OF FUNCTIONING FACTORIES AND HANDICRAFT STREET

A

OVERVIEW SUITABLE PLACE FOR FORMING FACTORY, CRAFT STREETS AND WORKSHOPS FOR MAKING BOAT

TOURISM THROUGH TRADITION

The aim is to activate the production in Golubac, where the main items are produced in the factories and home workshops. In order to produce closer to the camp participants and other interested parties workshops are planed where the products are made on the traditional way, the way it was done by our ancestors.

YOUTH VILLAGE

Forming Youth's villages / camps. For starters, the camp will be located on two sites. One camp will be formed near the Golubac fortress. Due to the specific location and protection measures that are defined in the vicinity of the fort, camp will be made of natural materials in accordance with the prescribed rules. Camps are connected with the city center by bus lines and cycling path on the main road. Second camp's location is planned within the city center, near the school.

ACTIVATION OF ECONOMY

It's planned to open a factory or home workshop for the production of ceramics, textiles and crafts, whose products are intended for local and regional market. Continued development and improvement of production is planned for product placement and on the international market in the next 5-10 years. Opening the workshop is planned as part of the family house or within facilities that are currently not in operation. To turn the visitors of the camp and other stakeholders in the process of production is planned to open a workshop where they will be with the help of trained workers maintain courses for making objects in the traditional way.

CRAFT STREETS

To activate as many city space, includes building is forming a "craft street". Within the craft street, there would be workshops where the participants of the camp as well as other interested parties had the opportunity to participate in the production process. The workshops are intended for the generation of decorative ceramic items and handicrafts. In addition to pottery, there will be a workshop where they will be intrigued to learn how to use traditional objects for weaving as well as how to make a product at their discretion. In addition to workshops within the craft streets being and sales facilities where they sold products have resulted in workshops and factories.

SPORT ACTIVITIES

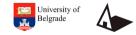
The aim is to involve young people in sports activities. It is therefore necessary to achieve favorable conditions for the construction of sports fields and landscaping already existing. In this way it will be possible and the organization of sports competitions within Golubac. It is necessary to:

It is necessary to: - Construction of bicycle paths and networking with Eurovelo 6 trail. Connecting youth camps with trails enable active participation of young people in cycling. - Regulation of the existing hiking trails and the erection of temporary rest areas that will create the conditions for active hiking in the hills around the Golubac. Organizing courses hiking and navigating in the countryside will bring users the camping hiking as one of the Interesting aspects of recreation. In addition to these sporting activities, introduction course for gliding would allow visiters

to camp after the training participate in existing events and competitions in sailing.



SPORT ACTIVITIES OVERVIEW OF RELATIONS WITH YOUTH VILLAGES CYCLING AND HIKING TRAILS



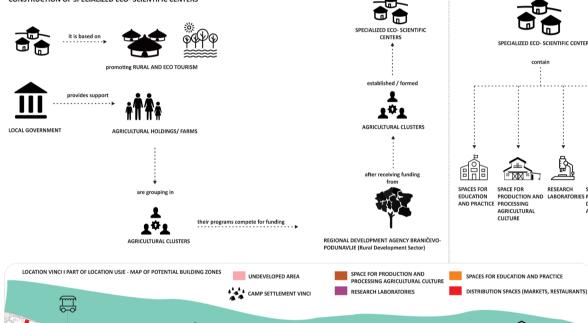
Aut	thor:	Mladen Kostadinović 22011/16; Srđan Mićanović 22010/16; Nevena Mandić 22019/16
Su	pervisor:	Aleksandra Đukić
Aca	ademic year:	2016/2017



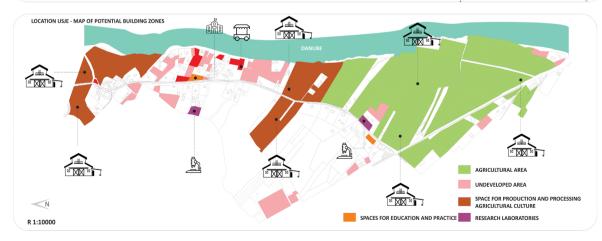
Mladen Kostadinović, Srđan Mićanović, Nevena Mandić



CONSTRUCTION OF SPECIALIZED ECO- SCIENTIFIC CENTERS







MEASURES FOR DEVELOPMENT AND PROMOTION OF RURAL AND ECO TOURISM

- Agricultural Association at the local and regional level, will be opening restaurants based on local food (fish restaurants, organic food, animal products).
- Listing of all locations of villages, rural tourist households (which are already engaged or may be engaged in tourism in the country, categorized and uncategorized their potential advantages and disadvantages).
- Participation and promotion of rural tourism in the region unified at all similar fairs or exhibitions, with special emphasis on pre-defined priority markets.
- Approaching the information to all potential future rural tourist households of procedures, legal decisions, agencies dealing with categorization, presentation, ways of tourism in the country.

Encouraging eco scientific centers of the local economy would have more financial incentives from whose financial income to form settlements around the camp and in the Golubac, and would be based on tradition and local culture.

SPACE FOR

AND SALE

Camping village to host tourists during the various thematic festival, there would be the possibility of free food if local tourists to adequately promote Golubac on social networks. This would be the only one of the measures that need to be coordinated and complementary to other content on the local level.

Basic infrastructure (roads, water, sewer) is in a satisfactory condition. Modernization is needed, which design the new methods of irrigation area, in order to accelerate the production of agricultural crops. Within the camp village Vinci, tourists can use local agricultural products, provided that during the stay in the location, they need to make p h t o g ra p h y of the location and post on social networks. Under existing households that are already engaged in agriculture to build additional facilities that would enable further development of the household. Spaces for education and training, areas for processing agricultural crops and research laboratories would be located in the rear of the village, in the context of existing households. In the coastal area, we would be content with the primary function of the distribution and marketing of local agricultural products. Location Vinci is significant because it is currently used as a camping resort and attracts tourists, so tourists are in direct contact with nature, and this way of presentation of local products can further contribute to increasing the number of tourists. Distribution and marketing take place in the second phase (5-year and 10 years). In the first phase, formed areas that would be enable the production of local crops. Holders of development would be Golubac Municipality in cooperation Regional Development Agency Branicevo - Podunavlje.

Location Usje has a serious potential for the construction objects of a large volume (factory, plant). Large areas are available, suitable for building, well-connected infrastructure. This location can be a serious investment potential, with the possibility of certain tax incentives for investors who are interested to invest long term while working to promote local products. New construction can start immediately in the first phase (0-5 years), given that all the prerequisites for further development. The holder of this kind of project can be a Regional Development Agency Braničevo-Danube in cooperation with the Municipality of Golubac. The supervisor should be the state authorities, JP Srbijavode, as potential sites located on the banks of the Danube



In the municipality of Golubac there is potential for the distribution and marketing of local agricultural products. If the revived Danube routes, and works to promote the festival during the summer months, tourists stay longer in the new camping village Golubacki city, would allow local producers to sell their products to foreign and domestic tourists. In this way, tourists directly convey their experiences to local manufacturers to further improve the offer. Tourists would be provided free food, if they would on social networks promote Golubac and promete local products, for example with photography. They need to sent photography to their friends.

and needed their overall analysis. Along the coastal area it is possible to realize the commercial potential (hotels, restaurants), it is necessary to connect the recreation zone Vinci hiking and cycling routes with Golubac, to the contact zone of the Danube revived.



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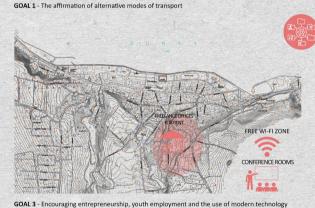
CITY THAT LIVES ON THE DANUBE AND FROM IT CITY OF LIVE STREETS

EXCITING CITY OF HOSPITALITY

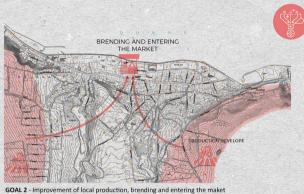
MEETING OF TRADITION AND INOVATION CITY

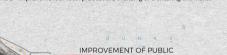
GOLUBAC - TREASURY OF THE DANUBE VISION AND GOALS











State of





CREATING A VISION - GOLUBAC

Vision for the development of Municipality of Colunac is based on defined goals for im-provement of quality of life and encourage of sustainable development of local communi-ty. Coals are definef according to basic problems and oportunities which are identificat-ed in the area of municipality and they tend to develope Colubac with approach based on unique local identity and great natural and cultural wealth.

Golubac - identity card

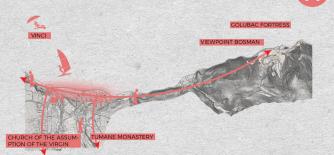
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PROBLEMS	AND OPORTUNIT	ES:	
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depopulation		fortress	1-11
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	structure		
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भगभगतिः भगभग	historical		Nr
forest	stratification	long coastline position on the	Dierdap National Park
resources	Strutification	position on the	
PROBLEMS			OPPORTUNITIES
depopulation			position on the Danube Golubac fortress
aging populatio			agricultural areas
undeveloped loo			historical stratification
lack of central fu			forest resources
poor educationa	irstructure		Djerdap national park
		ri	ich multicultural heritage

Colubac is the city that lives on the Danube and from it forming of unique ambience of riverside, offering many facilities which provide different scales and ways of the expirience of the Danube. Beside the taming city coast, Colubac offers the expirience of the Danube in its whole freedom, along the Iron Gates gorge, which is the biggest demonstration of its forces along the entire course course.

course. _Golubac is the city of live streets with many facilities in the public place which encourage the development od social life of local community and whose citzens gladly spend most of their free time outdoors, strengthening the community spirit. Golubac is the city of trade with the market as a place for meeting, trade and exchange of experiences, which is significent part of genius loci. _Golubac is an exciting city of hospitality which is an unavoidable destination for nature lovers, thrill seekers, nautical enthusiasts, and devotees of cultural and historical contents, permeated with many historical, and mithological leyers. It provides the possibility of direct experience of life in the local community, in the modern time and through historical development, with many eigent throughout whom the local natural cultural bitstorical and agetronomic



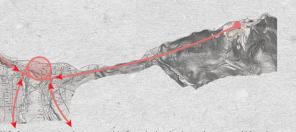
GOAL 5 - Increasing the number of facilities and activities on the Danube and the expansion of the tourist offer development of nautical tourism, as well as access to the town from the international waterway corridors Ь.



GOAL 7 - Diversification of the tourist offer through the creation of a variety of tours inspired by local heritage and natural resources with the unique offer of events which present the identity of the city



GOAL 6 - Increasing accommodation capacities, diversification of offer and the creation of the concept of overall service



DIVERSIFICATION OF OFFER

GOAL 8 - Better connections between municipality and cultural and natural resources which are lo-cated in its immediate environment and their involvement in the life of the city

In the local community, in the modern time and through historical development, with many events throughout whom the local natural, cultural, historical and gastronomic wealth is presented. As a city of adventure, Colubac provides invaluable experience of staying in untouched nature through a number of activities for all ages. <u>Colubac is the city where tradition and inovation meet eachother</u> which has developed local manufacturing culture, based on traditional activities with a favorable climate for contemporary activities of young freelancers and start up companies. It successfully integrates lokal entrepreneurship and modern economic trends, creating conducive investment environment.



Autho Superv Acade



re	Milica Ristović, Milica Đurđević, Stefan Hadži Arsenović
visor:	prof. dr Aleksandra Đukić, as. Ivica Nikolić, Branislav Antonić, Tamara Radio
mic year:	2016/2017



Milica Ristović, Milica Djurdjević, Stefan Hadži Arsenović

CITY OF LIVE STREETS CITY THAT LIVES ON THE DANUBE AND FROM IT

EXCITING CITY OF HOSPITALITY

MEETING OF TRADITION AND INOVATION CITY

PROGRAM

SCENARIOS



Part of the program which includes, not only start up companies and freelancers, but also driving the local economy, especially incitement development of small and medium-sized enterprises. It is based on the existing local production, development of markets for local products and incitement self-employment in the field of production itself and the branding of the city.

Let's **meet** Golubac

Part of the program which includes introducing visitors to the city, tourism development and introducing citizens themselves to the resources that are in their immediate environment, making them interested in issue of protection and presentation of heritage. The development of turism itself is based on the formation of the concept of active holiday and different types od networking the city with sites as Colubac fortress, National park of Djerdap, Tumane monastery, Lepenski vir etc., and these sites with eachother.

Let's **taste** Golubac

Part of the program which is based on encouraging the local production and brending of local products such as honey, cheese, herbs, fish and venison, spreading on the wider market, but also producing for the specific turistic offer in within municipality area (hotel, local restaurants and shops)

I SPATIAL DISTRIBUTION OF PROGRAM

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USE

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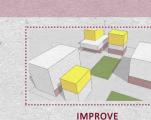
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USE

Scenarios are conceived as a phases, the first one (use) can be the base for second (improve), bat (tis not necessery. They can also be used sep-aratly in different filds (start up, meet, tatste), so the flexibility is achived in several directions. But also, parts of program are connected so the de-velope of one will outomaticly drive another two parts.

I USES, ACTIVITIES AND FACILITIES DEFINED BY PROGRAM



USE

HOUSING

INDUSTY AND PRODUCTI

TRAFFIC

BUSINESS

TOURISM AND CATERING

SPORTS AND RECREATION

PRIMARY SECTOR

ï

JVE	n and a second	AXIMIZE
	ACTIVITY	FACILITIES
	- Building of new housing capacities	- mix use objests - multi-family res - single-family re
	Creative industries	- Art incubators - Coworking spa
ION	- Production in fild of soft industries	 Final processin Equipement fo Production of a equipment and
-		

Developing conections between the city itself an ites in its immediate environment

otion of navigation, extreme sports and tion of untouched nature, close to the city

Developing local agricultural production, forming cooperatives, and brending products

Expansion snd diversification of accommodation capacities

Selfenployment Creative industries

paces essing of products nt for quarry n of agricultural t and suplements ing the sevices which will help and advice icers and young people in variety of filds Service for help in aplications for international and domestic funds ncreasing the use of modern technologie Forming and conecting GIS data bas improvement of the existing road netw building of new transport infrastructure Start up companies in field of brending of local prodactrs Start up companies in the field of traditional manufactural production Start up companies in IT Start up companies in field of touris

Nautic centre

Cooperatives Common treatment plant

Information offices and maps in the city center

orming the camp oncept of hosting - acomodation in ocal households

LEGEND

te shop for le

LEGEND:

LEGEND:

Area planned for transformation

tasting and sale of products

restaurants local cuisin with local products

"co working" offices

construction of a new

onstruction of a nautic center

GIS database Center of informal of VIFI free wifi transport infrastru

actively used buildings households whit room t

specialized shops for the sal Center for tasting local products

Himproving machinery

organic production

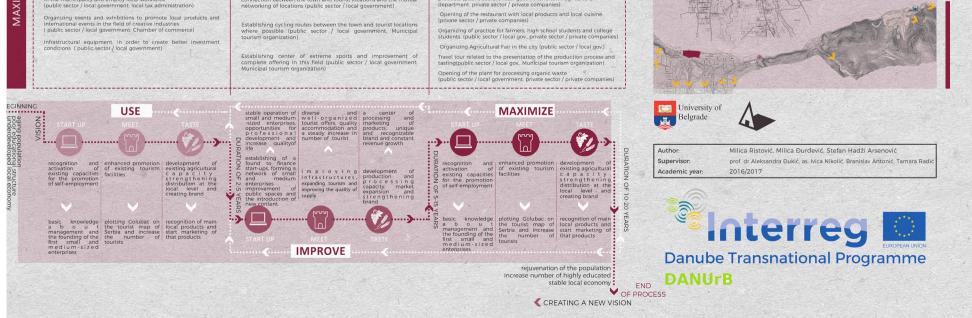
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dential building idential building

GOLUBAC - TREASURY OF THE DANUBE

PROGRAM AND SCENARIOS

I SPATIAL DISTRIBUTION OF SCENARIOS Let's taste Golubac Let's start up Golubac Let's meet Golubac SCENARIO 1: USE hment of the service center (customer center) for assistance ing to the financial funds (responsibility / responsible for the public sector / local government) of existing agricultural production through of machinery / cheese, honey, vines, cereals/ / responsible for the activity: public sector / local own agricultural department) ment of existing events promotion, through the placing is in the wider area and improvement of promotion on the social networks and traditional media (responsibility / ble for the activity, public sector / local government, Municipal ing presentations in the field of IT sector, crea inagement, based on local products and tous a participation of guest lecturers, in order to end in self-employment Initiating of organic farming and production of medicinal herbs (public sector / local government, town agricultural department, Locating in the town center signboard which shows connection between the town and its surroundings - natural and historical sites read network how to get thereil with driving time a brief overview of the character of the site, connection with the historical devolupment of the town and life in this area informations about contents on the site and along the road gubits sector, focal government, Municipal coursen organization) Branding of agricultural products and the authorized producers (public sector / local government, town agricultural department ng development potentials of the municipality, almed at of domestic universities from different disciplines and ng student practice in Golubac sector / local government. Regional development agency vije-Branicevo): education sector / universities-faculties) Establishing non-formal education center within existing capacities of the town /town library, building of the municipality and the cinema/ - computing, foreign languages, specialized courses for farmers (public sector / local government, town agricultura Creating websites and presentation of offers (public sector / local government, town agricultural department) ction of free wi-fi zone along the quay (riverside promenade the city sqare (public sector / local government) mprovement of traffic and tourism signage public sector / local government, Municipal tourism organ stribution of products in local stores and establishing spe re only products from Colubac (public sector / local gover wn agricultural department, Municipal tourism organizati on of fees for sales stands, newsstands, tobacco shops, tion desks along the quay (riverside promenade) and at the re (public sector / local government) ting tourist tours related to the legend, with visit to the site and resation with residents that for visitors can talk about the mythe 8.110 they have heard from their ancestors public sector / Municipal tourism organization Placement of products in the tourist offer /hotel and existing restaurants/(public sector/local government, Municipal tourism org) of public property and classification acc nce for subsidized issuing to young entrepret No. Placement of products at the local market (public sector / local government) 1-1 SCENARIO 2: IMPROVE Improvement of existing road network, in order to increase accessibility of the site (public sector / local government) Branding of agricultural products and total design for the market (public sector / local government, town agricultural department) Establishing GIS (geographic information system) databases of existing companies and free (available) locations in the municipality. in order to support in the profiling and locating small and medium-sized enterprises (public sector / local government) Establishing an agricultural center with common cold sto warehouse, processing space, presentation and education (public sector / local government, town agricultural depar ent and afirmation of waterway transport to the site e riverbank and creating unique cruise tour with hd historical heritage (public sector / Municipal n, Ministry of transport - waterway transport) Establishing Center for non-formal education in the elementary school and town library (public sector / local government, town elementary school, town library) blishing the center for suppliers and transport raw mater ducts (public sector / local government, town agricultural artment, private sector / private companies) Renewal of the Colubac town Hotel, in order to expand services and mprove integration in the surrounding (public sector / local government: private sector / private companies) of existing premises in public building conferences, presentations and meeter of issuing) (public sector / local govern - cultural center, town library, town element Forming cooperatives of farmers and a unique offer in the market ing new type of hospitality industry - accommodat es, with complete service and involvement in local con ic sector / Municipal tourism organization) ng Municipaly developm ctor / local government) stablishing of a permanent center for informal education within th pricultural center with young professionals for the development of roduction and branding (public sector / local government, town gricultural department) empetitions in the field of "start-up" ideas, with awards bute to the realization of that idea (financial assistance ation, professional support, e nment: private sector / local on and equipping a space for car camping (public sector / ment. Municipal tourism organization) rnet sales of local products (public sector / local Organizing In rnational lectures, meetings and ' local government, Regional de or / Chamber of commerce) Opening a series of specialized markets with local products / herbs, cheese, honey, venison, wine and fish /(public sector / local government, town agricultural department, private sector / private Creating thematic tourist tours related to the prehistoric, ancient and medieval heritage (responsibility / responsible for the activity: public sector / Municipal tourism organization) Establishing Center for design and distribution of local products the national and international market, in existing public buildings public sector / local government) m ng tourist tour "Colubac and its surroundings from prehistorical the present day": visit sites by the time of their creation, starting epenski vir as the oldest site rector (Municipal roungers preparation) ent of public space in free wi-fi zones thr and introduction of new attractive cor (public sector / local government, town agricultural depa private sector / private companies) SCENARIO 3: MAXIMIZE Construction of a new hotel on the location of the existing, with modeling which would fully connect the town with the river and make the contunity of riverbank ([public sector / local government, private sector / private companies) Product Branding and complete design for the market public sector / local government, private sector / private comp ransformation of residential zone between Cara Dusana Zanatska Street, Danube riverside promenade and the town nto the mixed zone (public sector / local government) Establishing of an agricultural center with common cold storage. warehouse, space for processing and space for presentation and education (public sector / local gov. town agricultural department.) ng "co-working" zone (with "co-work e town center, with attractive natural e ctor / local government) Establishing center for wholesale and export (public sector / loca ov., town agricultural department, private sector / private compar Construction of nautical center at the marina (public sector / loc government, Municipal tourism organization) ers for turist tours for "co-working" zone customers : sector / local government: Municipal tourism organ Developing the center for management and services branding and product placement on the market (public sector / local government Extension offers of specialty shops and organizing tasting of local products (public sector / local government, town agricultural department, private sector / private companies) Reduction of taxes and fees for IT companies which start up bus in the municipality and employ local workforce (public sector / local government: local tax administration) Expansion of infrastructure networks, in order to the bette connection between the town and tourist locations and the mutua networking of locations (public sector / local government) ning of the restaurant with local produ



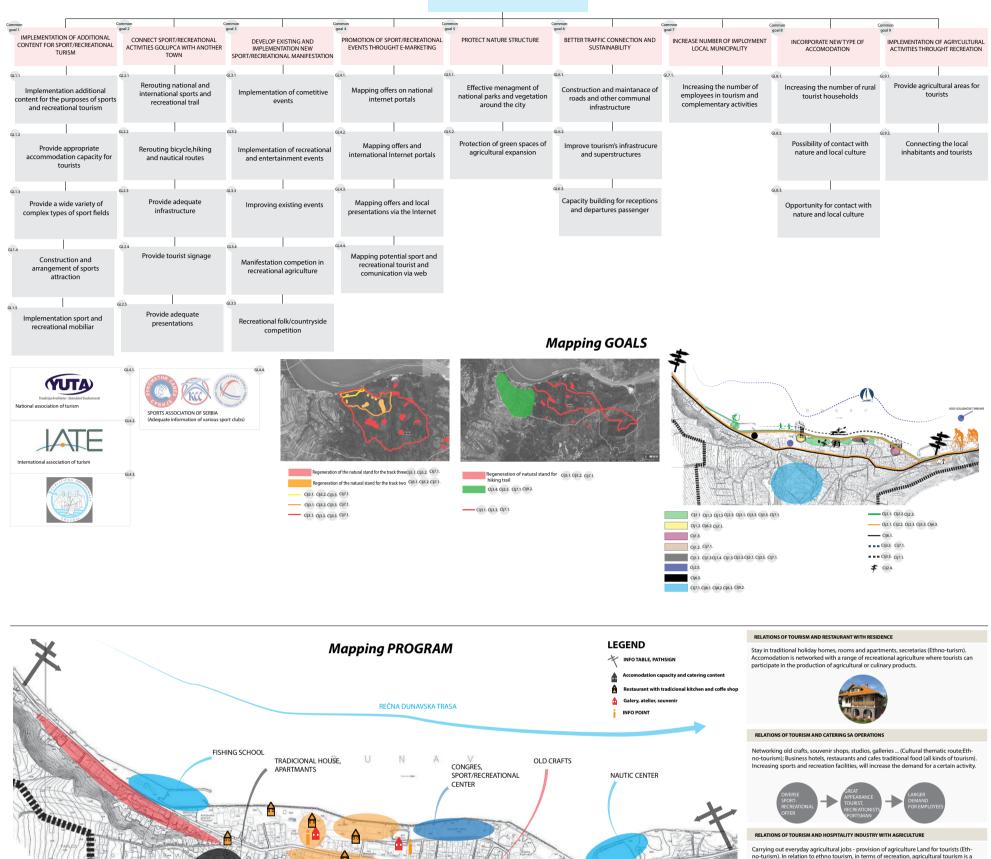
Milica Ristović, Milica Djurdjević, Stefan Hadži Ársenović

CONCEPT AND PROGRAM

GOLUBAC IN MOTION (throught development of

Main goal

recreation turism)



RELAT Carrying out everyday agricultural jobs - provision of agriculture Land for tourists (Eth-no-turism). In relation to ethno tourism, in terms of recreation, agricultural tourism is a new aspect recreation where home-made and guest participate in everyday agricultural



RELATIONS OF TOURISM AND ACCO ATION WITH SAFETY

Developed network of traffic paths and adequate tourist signaling – connectivity Golubac at national and international level (All types of tourism and catering). Traffic connections are crucial for the development of tourism, if the traffic is improved, the flow of users through the routes will be greater, as well as the very variation of the arrival of tourists to Golubac.



PURPOSE	SUBPURPOSE	WORKS AND ACTIVITIES	CONTENT
	CULTURAL-THEME ROUTES	Festivals; fun; gastronomy; creative workshops and seminars; cultural events; tours	Cultural and historical heritage; studios; galleries; hotels; restaurants With traditional cuisine; bars; Adequate infrastructure (roads, benches, selling places); Tourist signaling (info table, road signs,marks); adequate presentation (info counters, guide services, locality maps);
	NAUTICAL TOURISM	sailing; kayak rides; river cruise; tour around the place; sport fishing; cultural and sporting events; entertairment	all facilities of nautical infrastructure (marine, gasoline stations, numerous moorings and piers at the site of interest): nautical center; soiling camp; soiling school; soiling team for the preparation of representatives and organization of competitions; weighing and storage hangars for sailboat; fishing school; boarding school; accommodation capacities and hospi- tality
TURISM AND CATERING	ETHNO-TOURISM	walking; jogging; cycling; sports activities (volleyball, football, fifnes); sightseeing nearby destinations and cultural and historical attraction; workshops; doing everyday agricultural activities	cultural and natural heritage; traditional products; national creativity; pld crafts; souvenir shops; restaurants and other catering facilities for traditional flood preparation; traditional holiday houses, rooms, apartments, camps; bowery; appropriate infrastructure (road network, the post office)
	ECO-TOURISM	sightseeing of the local wildlife and wildlife; visit national parks; getting to know local culture areas; educating the passengers about significance	naturally preserved spaces; following cultural objects from the past and present; Infrastructure developed in accordance with the environment; simple accommodation facilities; decorated walk track with markings; tourist signaling
	TOURISM MANIFESTATIONS	visit manifestations of cultural, artistic, entertaining, and sporting of similar character and content; festi- vals local communities;	hotels; congress and sports-recreation centers; camps; adequate infrastructure (roads, runways, selling places); tourist signaling (info table, road igns, marks)

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Dealing with various sports activities in nature, biking and cycling through natural areas (ethno-turism, eco-tourism), sightseeing of the local plant and animal life areas (eco-tour-ism). Vegetation is a crucial factor for human health, especially when it comes to recreation and sports tourism, where we make our own initiative more effort and where we can not be risk factors such as viruses, bacteria, dust, etc.





Author: Sara Kovačević, Antonio Mareš Supervisor: dr. Aleksandra Đukić, Ivica Nikolić, Branislav Antonić i Tamara Radić Academic year: 2016/17



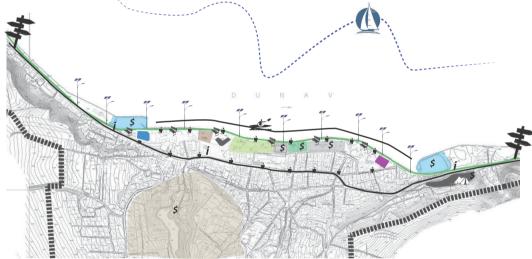
Sara Kovačević, Antonio Mareš

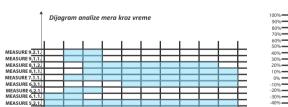


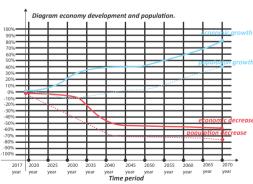
scenario: GOLUBAC U POKRETU - GOLUBAC IN MOTION

GOALS	MEASURES / PRIORITIES	IMPLEMENTATION STAGE (YEAR)	HOLDERS / ACTERS	ASPECTS	LEVELS / SCALE	MAPPING	DESIGN STAGES FOR LOGO
GI1.1. Implementation additional content for the GI1.1. purposes of sports and recreational tourism	MEASURE 1.1.2. Concrete arrangement of football pitches in the form of multi-purpose sprts surfaces with a soft material (a recycled rubber)	2020-2030year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL		DESIGN STAGEST ON E000
	MEASURE 1.2.1. Provide accommodation possibilities for athletes networking deals in sprts and recreational tourism	2020-2025year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL	~	\frown
GI1.2. Provide appropriate accommodation	MEASURE 1.2.2. Provide space and supporting camping (Internet, furniture, outbuilding, toilet)	2025-2050year	PUBLIC	ECONOMECOLOSOC.	LOCAL		(1,)
capacity for tourists	MEASURE 1.2.3. Arrangement landscape architectural space for caravans and camping tents	2040-2050year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL	.4 <u>7</u> 1.	
	MEASURE 1.2.4. Locating the new storage capacity for sports and recreational tourism	2050-2070year	PUBLIC	ECONOMECOLOSOC.	LOCAL		ANALYSE OF TEXT FORM, IDENTITY
	MEASURE 1.3.1. Networking of existing school sports hall in sports and recreatonal tourism	2020-2025year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL		
GI1.3.	MEASURE 1.3.2 Implemetation of the multifunctional outdoor terrains for team sprts (Basketball, Volleyball, Handball, Futsal, Football)	2025-2040year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL		Dynamic form (geometric human silhouette) The capital letter of crucial words
Provide a wide variety of complex types of sport fields	MEASURE 1.3.3. Provide multifunctional outdoor green ground for team sports	2030-2050year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL		Color blue (nature identity of the Danube gorge)
aport needs	MEASURE 1.3.4. Provide area with obstacles for practicing psycho-psysical and motor skills	2035-2055year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL		
	MEASURE 1.3.5. Provide area with entertainment sports facilities	2025-2070year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL		
	MEASURE 1.4.1. Equipping entertainment sports and recreation area with adequate content (table tennis, table tafootball,)	2025-2070year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL	均能	\bigcirc
Gl1.4. Construction and arrangement of sports attraction	MEASURE 1.4.2. Space design and implementation content with obstacles for practicing psycho-physical and motor skills	2030-2050year	PUBLIC	ECONOMECOLOSOC.	LOCAL	1001.1	(2.) (3.)
+	MEASURE 1.4.3. Design green fields in a multifunctional sports and recreational green areas	2030-2050year	PUBLIC	ECONOMECOLOSOC.	LOCAL		ANALYSE OF COMPLEX DESIGN ANALYSE OF SPACE IDENTITY
	MEASURE 1.5.1. Equipping the park, multifunctional fields adequate furniture in accordance with their concept	2020-2040year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL	均均	ANALYSE OF COMPLEX DESIGN ANALYSE OF SPACE IDENTITY
GI1.5. Implementation sport and	MEASURE 1.5.2. Positioning and design bench group seating along bicycle track (aspect of design: communication, intimacy, vistas)	2025-2050year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL	*	
recreational mobiliar	MEASURE 1.5.3. Implementation smart and modern sustainable mobiliars (lighting with solar panels, dynamo lighting,)	2050-2070year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL-INTERNATIONAL	*	
	MEASURE 1.5.4. Positioning and design separated eco-multifuncional garbage	2035-2060year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL-INTERNATIONAL		
Rerouting national and international	MEASURE 2.1.1. Rerouting cycling routes in city and networking with the existing route EuroVelo 6	2030-2045year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL-INTERNATIONAL	~	Symbolize the movement and dynamic
GI2.1. sports and recreational trail	MEASURE 2.1.2. Rerouting walking trail and networking with existing international walk trail route	2025-2035year	PUBLIC	ECONOMECOLOSOC.	LOCAL-INTERNATIONAL	~	FIRST LETTER OF FIRST LETTER OF UNDER THE MOVEMENT AND QUARTIC WORD GOLUBAC "G" DYNAMIC WORD "P" the wave, and blue in a circular symbolizes one
	MEASURE 2.2.1. Rerouting network cruise on the Danube	2020-2030year	PUBLIC	ECONOMECOLOSOC.	REGIONAL-NACIONAL	~~~	of the water molecules.
	MEASURE 2.2.2. Indetification of existing routes and networking Golubac of the existing Danube sailing inland waterway network.	2020-2030year	PUBLIC	ECONOMECOLOSOC.	REGIONAL-NACIONAL	~	
	MEASURE 2.2.3. The routhing paths for a tour of the national park with handouts for resting tourists	2020-2050year	PUBLIC	ECONOMECOLOSOC.	LOCAL-REGIONAL		
GI2.2. Rerouting bicycle, hiking and nautical	MEASURE 2.2.4. The routhing paths for running and fast walking through the natural features for athletes with possible designed obstacles and without, length up to 2km	2020-2030year	PUBLIC	ECONOMECOLOSOC.	LOCAL		
routes	MEASURE 2.2.5. The routing paths for running and fast walking through the natural features for athletes with possible designed obstacles and without, the length from 2km to 10km.	2025-2050year	PUBLIC	ECONOMECOLOSOC.	LOCAL		
	MEASURE 2.2.6. The routing paths for running and fast walking through the natural features for athletes with possible designed obstacles and without, the length more then 10km.	2050-2070year	PUBLIC	ECONOMECOLOSOC.	LOCAL-REGIONAL		
	MEASURE 2.2.7. The routing kayak route between two docks in parallerel with Golubac downtown	2020-2030year	PUBLIC	ECONOMECOLOSOC.	LOCAL	-	
	MEASURE 2.3.1. Designing and arranging dock for kayaking, sailing.	2025-2070year	PUBLIC - PRIVATE	ECONOMECOLOSOC.	LOCAL		
GI2.3. Provide adequate infrastructure	MEASURE 2.3.2. The formation of pedestrian routes with potentiated views of the landscape features of the area	2025-2070year	PUBLIC	ECONOMECOLOSOC.	LOCAL-REGIONAL		
	MEASURE 2.4.1. Marking cycling routes with signs and maps	2020-2025year	PUBLIC	ECONOMIC-SOCIAL	LOCAL	\$	
GI2.4. Provide tourist signage	MEASURE 2.4.2. Marking pedestrian routes with signs and maps	2025-2030year	PUBLIC	ECONOMIC-SOCIAL	LOCAL	\$	
	MEASURE 2.4.3. Marking nautical routes with signs and maps	2025-2030year	PUBLIC	ECONOMIC-SOCIAL	LOCAL	\$	
GI2.5. Provide adequate presentations	MEASURE 2.5.1. Securing and positioning info point at Golubac castle and the city center	2025-2040year	PUBLIC	ECONOMIC-SOCIAL	LOCAL	i	NETHAN WORK CLARY
X	MEASURE 3.1.1. Running through the mountainous route, the coastal part (track 100m), running with obstacle	2020-2030year	PRIVATE	ECONOMIC-SOCIAL	LOCAL		
GI3.1. Implementation of cometitive events	MEASURE 3.1.2. Race mountain biking	2030-2035year	PRIVATE	ECONOMIC-SOCIAL	LOCAL	~	
GI3.2. Implementation of recreational and entertainment events	MEASURE 3.2.1. Entertainment facilities in the area and competition through entertainment (table tennis, billiards, darts, chess, marbles,)	2025-2070year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL		SPORTS ASSOCIATION OF SERBIA
GI3.3. Improving existing events	MEASURE 3.3.1 International Canoe Regatta and competition, state championship in sailing, walking eco tours, a fishing contest	2025-2035year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOKAL-REGIONAL	~~~~	(Adequate information of various sport clubs)
GI3.4. Manifestation competion in recreational agriculture	MEASURE 3.4.1. Traditionally, mowing lawns, collecting fruit brandy, picking fruit for processing, planting, transpanting plants, pruning	2030-2035year	PRIVATE	ECONOMIC-SOCIAL	LOCAL		
GI3.5. Recreational folk/countryside competition	MEASURE 3.5.1. Throwing stones, cutting logs, oxen steering, steering pajvana hawser	2030-2035year	PRIVATE	ECONOMIC-SOCIAL	LOCAL		
GI4.1. Mapping offers on national internet portals	MEASURE 4.1.1. Mapping offers the national organizations agency for tourism	2020-2030year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	NACIONAL	YUTA	
GI4.2. Mapping offers and international Internet	MEASURE 4.2.1. Mapping offers the international organizations agency for tourism	2020-2040year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	INTERNACIONAL	IATE	
GI4.3. Mapping offers and local presentations via	MEASURE 4.3.1. Mapping offers at the official presentation of the website with a infographic map and supporting dynamic content	2020-2025year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL		Tradicija invaliteta - Standard budućnosti National association of turism
Gl4.4. Mapping potential sport and recreational tourist and comunication via web	MEASURE 4.4.1. Mapping of potential clubs, school sports. Mapping and netwoking offer information to customers	2020-2025year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	NACIONAL	080	HUNDER BASSACTOR OF WITHIN
GI5.1. Effective menagment of national parks and vegetation around the city	MEASURE 5.1.1. Regeneration of damaged surfaces areas with local vegetation	2020-2070year	PRIVATE	ECONOMECOLOSOC.	LOCAL-REGIONAL		
GI5.2. Protection of green spaces of agricultural expansion	MEASURE 5.2.1. Protection of natural vegetation around the city, in order to preserve the natural landscape of the city	2020-2070year	PRIVATE	ECONOMECOLOSOC.	LOCAL-REGIONAL		
GI6.1. Construction and maintanace of roads and other communal infrastructure	MEASURE 6.1.1. Patching potholes, edit green corridor along the travel route	2020-2030year	PRIVATE	ECONOMIC-SOCIAL	LOCAL-REGIONAL	~	
GI6.2. Improve tourism's infrastructure and superstructures	MEASURE 6.2.1. Arranging pavements, accompanying content transport infrastructure, parking	2025-2035year	PRIVATE	ECONOMIC-SOCIAL	LOCAL	~	
GI6.3. Capacity building for receptions and departures passenger	MEASURE 6.3.1. Arranging the bus station for the reception and departure of a larger number of vehicles	2040-2070year	PRIVATE	ECONOMIC-SOCIAL	LOCAL		International association of turism
GI7.1. Increasing the number of employees in tourism and complementary activities	MEASURE 7.1.1. Employment in maintaining bicycle, pedestrian paths, sports equipment, communal infrastructure, experts from various professions	2025-2070year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL	\$	
GI8.1. Increasing the number of rural tourist	MEASURE 8.1.1. Expansion of the urban development Golubac in the form of traditional construction eastern Serbia.	2030-2070year	PUBLIC	ECONOMECOLOSOC.	LOCAL		ATTEND OF THE OWNER
GI8.2. Possibility of contact with nature and local culture	MEASURE 8.1.2. Design garden area within the parcel of traditional house	2030-2060year	PRIVATE	ECONOMECOLOSOC.	LOCAL		
GI9.1. Provide agricultural areas for tourists	MEASURE 9.1.1. Networking local households involved in agriculture in the recreational tourist offer	2025-2035year	PUBLIC - PRIVATE	ECONOMIC-SOCIAL	LOCAL		
	5 MEASURE 9.2.1. Promotion of recreational agriculture to tourists who are interested in ethno-recreational turism	2025-2035year	PRIVATE	ECONOMIC-SOCIAL	LOCAL-INTERNATIONAL	TUTA LATE	
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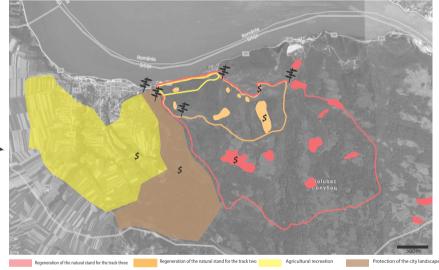
Mapping priorities / measure







Mapping measure on wider range area





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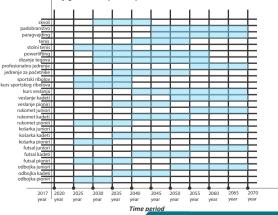


An end of the second of the se

nistrations. Scenario for the future GOLUBAC U POKRETU

GOLUBAC UPOKRETU In the initial stages of development, there will be conomic growth because it begins a new Jorn of calaboration, cooperation and offers the attained lawine. The population will decline in the first 35-40 years, when the development of this scenario to achieve optimum and economic constant nuisance. From 2509 years there will be a mutual growth, because it will expand the demmal for loads as a result of the introduction of new measures and Improve sports and recreational tourism of other activities that are in between.

Dijagram analize ponuda sportova kroz vreme



HIKING TRACK

Regeneration of natural stand for hiking trail



Author: Antonio Mareš Supervisor: dr. Aleksandra Đukić, Ivica Nikolić, Branislav Antonić i Tamara Radić Academic year: 2016/17



Antonio Mareš

10. DESIGNING NEW SOLUTIONS FOR GOLUBAC Dr. Branislav Antonić, teaching assistant

The last phase during studio work in Golubac was a concrete design for a small open public space in central Golubac as one of key actions proposed by the chosen scenario. Moreover, the design did not limited students to give up from architecture and building design; many of them integrated these elements in their final solutions for urban space in central Golubac. Interestingly, some of them also included the Danube River as a polygon for their solutions. Therefore, this phase was done as an urban design project with architectural segments, with presentation in both 2D drawings and spatial modelling.



Fig. 1: The presentation of draft student projects in Golubac in May 2017 (source: A. Djukic).

The ideas and character of student design projects indirectly emphasise the potential of Golubac Town. Some students opted for balanced mix-use design without clear preference to any function or activity; the other ones were strictly attached to new places for culture, socialisation, innovative housing on water, or new tourist and accommodation capacities.



Fig. 2: The presentation of draft student projects in Golubac in May 2017.

This mixture is also preserved in the locations of their design projects in central Golubac. Some of students chose to further develop or enlarge the main town square as a focal point in the town; the other ones tried to form new spaces for gathering at the edge of the centre of Golubac; the last ones got into the river and created water structures in the front of the town centre. However, for all of them could be concluded that the Danube was their inspiration and constant for their design projects in Golubac regardless they directly touched the river in their projects, indirectly included the view on it or symbolically involved the Danube as a motive in their designing process.





NEW SOLUTIONS FOR GOLUBAC

STUDENT PROJECTS









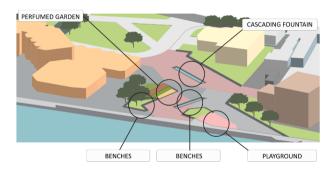


CITY SQUARE - MASTER PLAN

CITY SQUARE MASTER PLAN

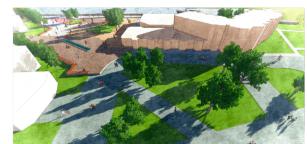
The new space market is designed to Old market connects directly to the Danube quay and space at existing residential buildings. Fontana which is directed diagonal movement towards the area of the Danube quay. There are no obstacles that could disturb Visual direct views towards the coast of the Danube itself. Visually opening to the area of the old market perceive you to see the old core of the Municipality of Golubac, hotel Golubački grad and Retail Poste Serbia and make this space unique physical and functional.

PERSPECTIVE













VISUALIZATION

VISUALIZATION

VISUALIZATION





VISUALIZATION



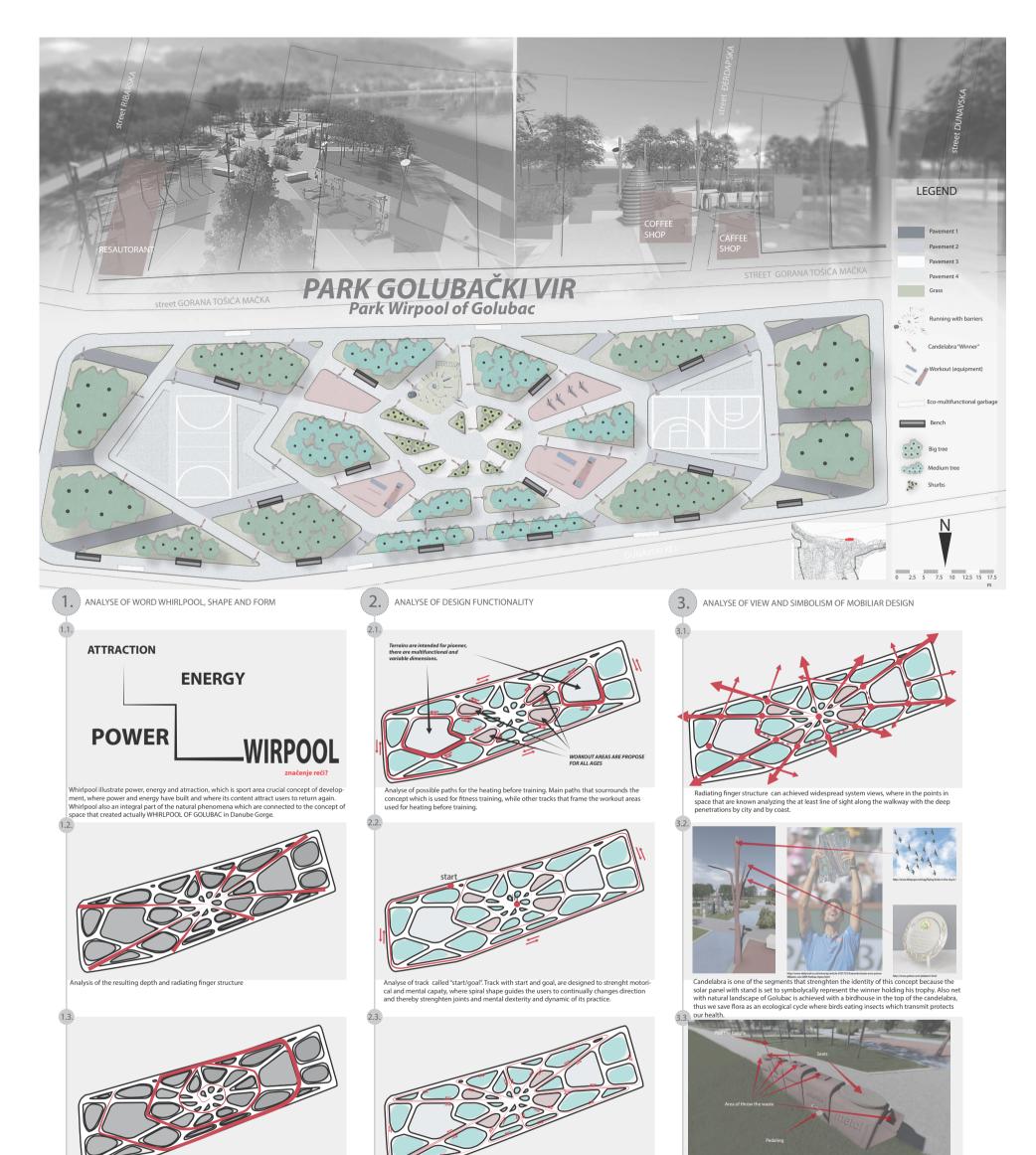
VISUALIZATION



Author:	Nevena Mandić; Mladen Kostadinović; Srđan Mićanović
Supervisor:	Aleksandra Đukić; Ivica Nikolić; Branislav Antonić; Tamara Radić
Academic year:	2016/2017

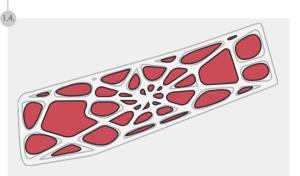


Nevena Mandić, Mladen Kostadinović, Srđan Mićanović,





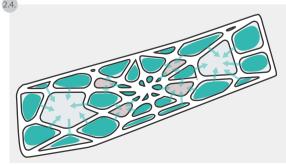
Analysis to obtain a spiral shape and depth (symbolism of whirlpool)



Analysis to obtain amorph shape and depth (symbolism of water moleculs)



Analyse tracks variable lenght. Tracks of variable lenght offer different degrees of fitness training, and both will offer the possibility of seperating athletes on various tracks in relation to their conditions.



Analyse of vegetation. Its important that implemented vegetation are heterogeneus (local deversified) vegetation framed workout areas, because its emits negative ions that impact by: Clean pollution, like dust, viruses, bacteria. Improve people brathing who have respiratory problems (allergy, bronchiti, hay fever). Strenghten the immune system and positively affect on human glands and cell in the body. Increase the level serotina (happines hormone), which prevent depression. Reduce tiredness, improving mental ability of organism.

Eco-multifuncional garbage is also one of details that strenghtens identity of space. The shape represents ship sailing throught Golubac Gorge. Recreational concept is achieves by users who metal and plastic trash animate with recycling, which they have to do a certain function to pressing waste.

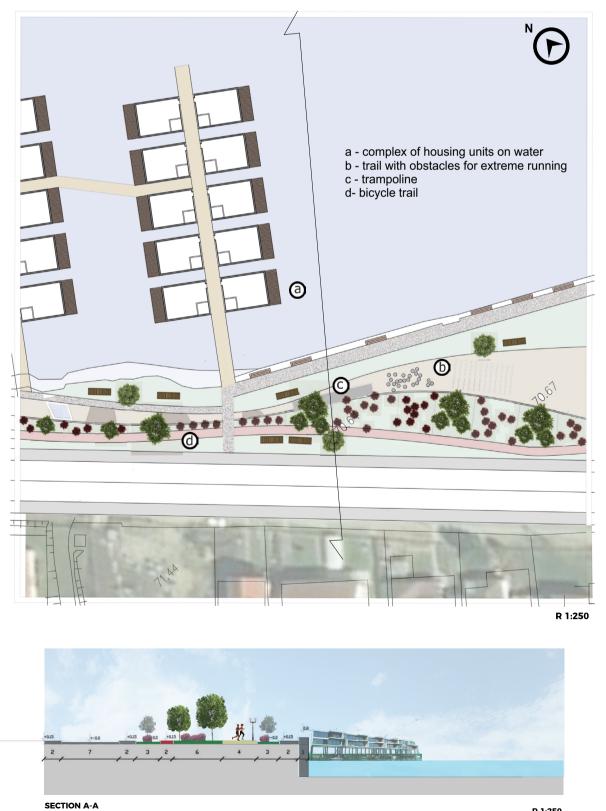


Author: Sara Kovačević, Antonio Mareš Supervisor: dr. Aleksandra Đukić, Ivica Nikolić, Branislav Antonić i Tamara Radić Academic year: 2016/17



Sara Kovačević, Antonio Mareš





MICRO LEVEL SCENARIO



R 1:250

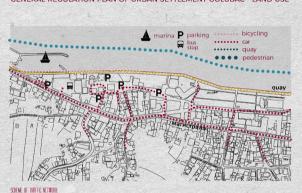




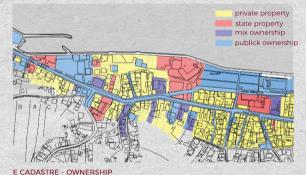


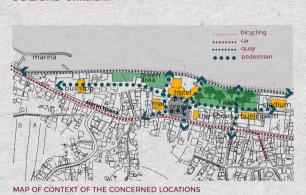
GOLUBAC - TREASURY OF THE DANUBE FORMING A NETWORK OF PUBLIC SPACES - PLANNING NEW CITY SQUARE













CREATING A PUBLIC SQUARE

STEP 1 ANALYSIS PLANNING DOCUMENTATION: General Regulation Plan urban of settlement Colubac: - the general regulation did not clearly defined center zone with mixed purpose and lack of clear formation of a network of public spaces - there are not enough diversified uses of land and buildings in costal zone and in the central zone. It central zone is not compact but it is fragmented and does not form a clearly defined environmental entities - the identity of the space is too montonous and subordinated to the existing situation, the plan does not foresee significant changes in order to improve the quality of urban space. quality of urban space

Detailed regulation plan from the Danube coastal tourist village Vinci to the fortress "Golubac city": - plan of the entire area along the Danube is viewed as a unique offshore whole so there are not defined as different ambience and functional subunit

STEP 2. ANALYSIS OF CADASTRE - insufficient updating of cadastre leads to the confusion and complicates the property rights and complicates the process of buying, selling and construction on the property - on all parcels, in the monitored zone, ther are buildings and the most of them the property the processing of COV.

are are privately owned, more then 60% - great potential for development is a zone between the coast, the bus station, the highway and the park, which is a unique subgroup within the coastal belt, but now mostly used as a parking space

STEP 3 ANALYSIS OF TRAFFIC NETWORK

5 STEP 3_ANALYSIS OF TRAFFIC NETWORK: By analysis of the transport infrastructure and the movement of the user's on the location, we conclude: - the highway represents a significant barrier separating the residential zone on one side and the market zone on theg other - lack of cross-linking coastal areas and residential areas over the highway - the space between mail. hotel, quay and the bus station is predominantly de-signed for the movement of cars. although the path from the bus station to the building of the municipality is of great importance for pedestrians

STEP 4_ANALYSIS OF CONTEXT: From the analysis of the context in which there is room for future square, we

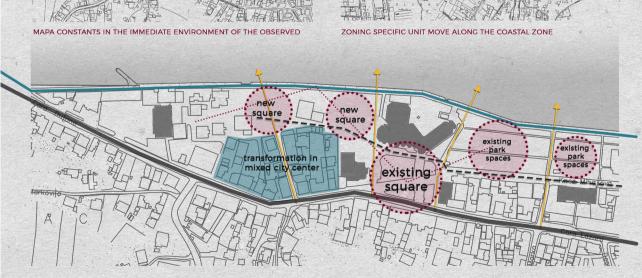
From the analysis of the context in which there is room for future square, we conclude. - clearly stands out flight path from the bus station to municipalities and public spaces that are grouping around the extensions along this direction - lateral connections passing around important structures that represent at-tractors in space - existing public spaces are the park zone, green zone on the other side of the hotel and the existing square - important buildings that characterize this area are: bus station, hotel, post office, the municipality and the library - This space represents the relationship between residential zone on the other side of the highway and the coast, but at the same time it represents the core of the central zone and potentially the most significant public space

After previously performed analysis we form the map of constants - key ele-ments for the formation of the space square, such as facilities for public use, with the hotel / library, bus station, municipalities and mail / park, Danube quay and highway

STEP 6_DEFINING POSITION OF THE LOCATION IN THE COASTAL ZONE: In order to make a good and used publick space on this location it was necessary to analyze the whole municipalitie and especially the area of the coast so we can see what is the main role of the new square.

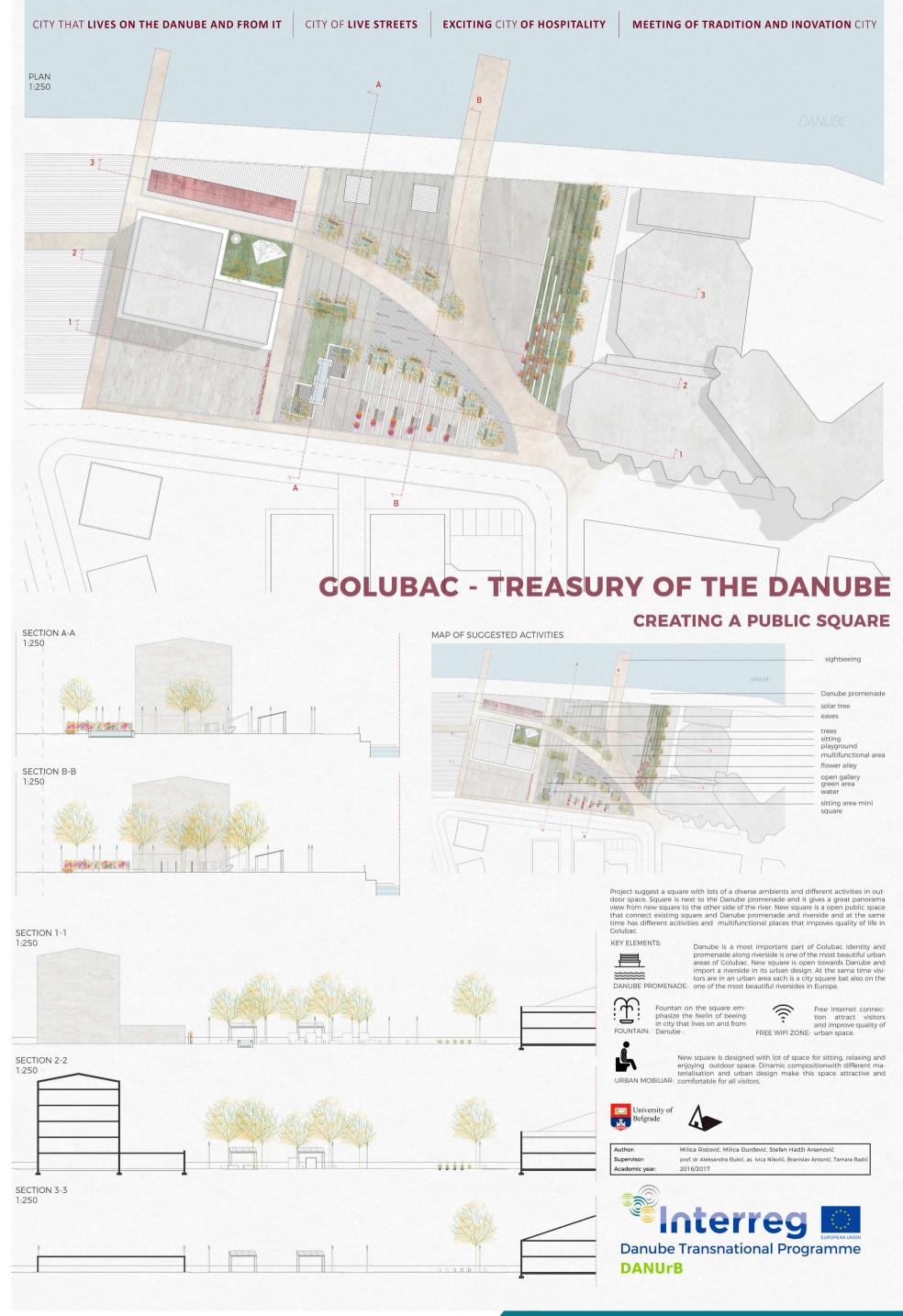
Scheme identification of functional sub-continent:

transformation





Milica Ristović, Milica Djurdjević, Stefan Hadži Arsenović



Milica Ristović, Milica Djurdjević, Stefan Hadži Arsenović



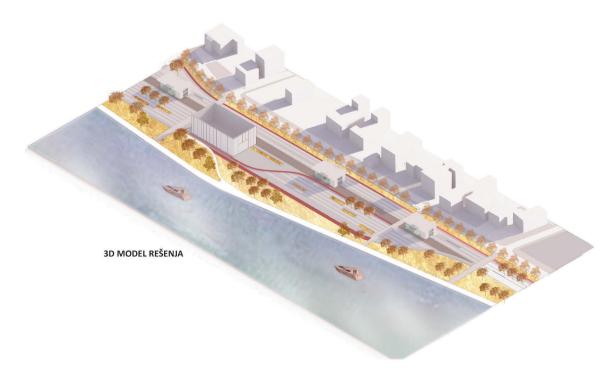


DOCK OF CULTURE

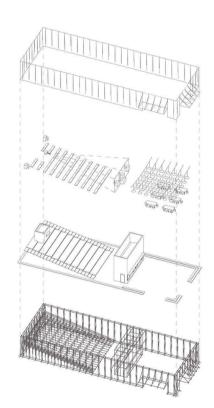
GROUND FLOOR OF THE RIVERFRONT, R = 1:500

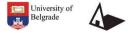


VIEW, R = 1:500



AXONOMERTY OF MULTIFUNCTIONAL PAVILION

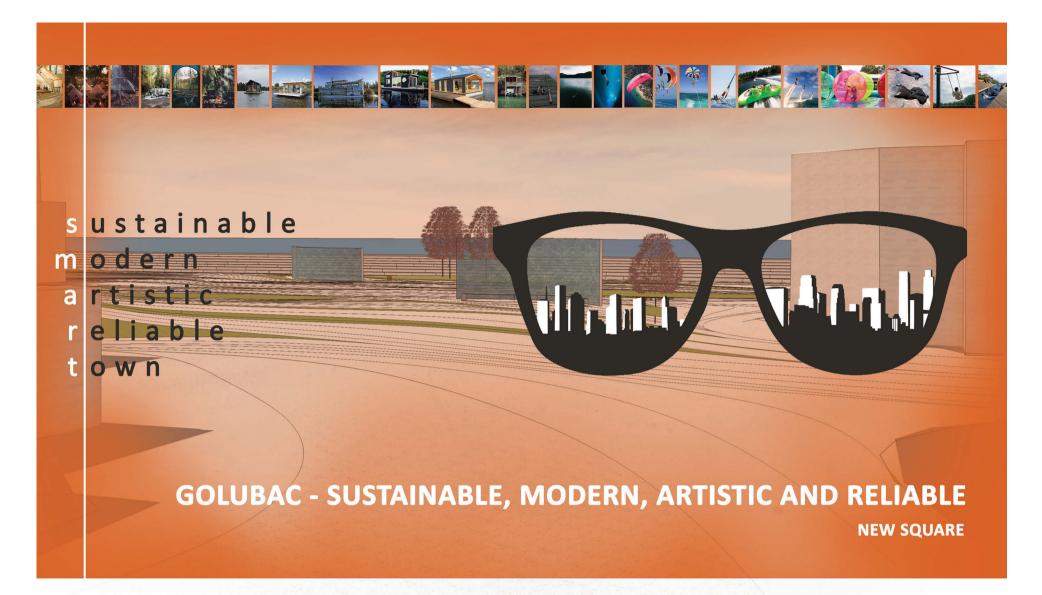


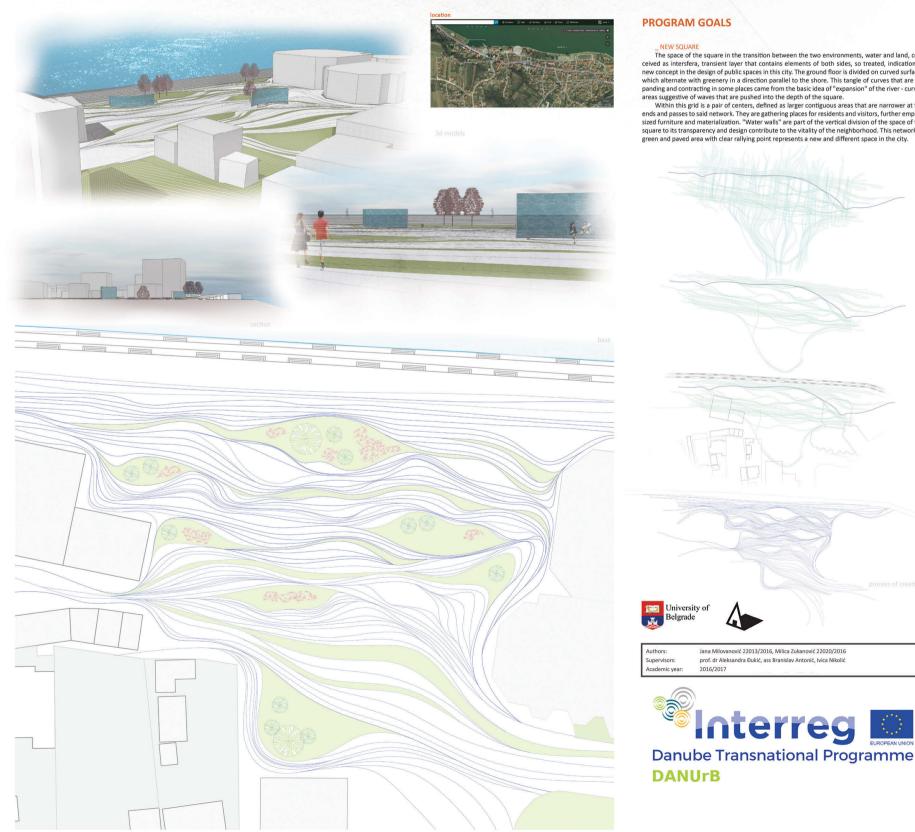


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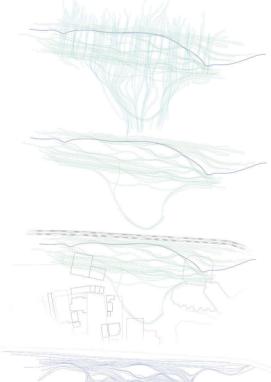




PROGRAM GOALS

NEW SQUARE

___NEW SQUARE The space of the square in the transition between the two environments, water and land, con-ceived as intersfera, transient layer that contains elements of both sides, so treated, indication of new concept in the design of public spaces in this city. The ground floor is divided on curved surfaces which alternate with greenery in a direction parallel to the shore. This tangle of curves that are ex-panding and contracting in some places came from the basic idea of "expansion" of the river - curved areas suggestive of waves that are pushed into the depth of the square. Within this grid is a pair of centers, defined as larger contiguous areas that are narrower at the ends and passes to said network. They are gathering places for residents and visitors, further empha-sized furniture and materialization. "Water walls" are part of the vertical division of the space of the square to its transparency and design contribute to the vitality of the neighborhood. This network of green and paved area with clear raliying point represents a new and different space in the city.





Jana Milovanović, Milica Zukanović

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