



ORGANIZER:
City of Trebinje

01 INFRASTRUCTURE AND INVESTMENTS

26TH AND 27TH MAY 2017, INVESTMENT CONFERENCE
"INVEST IN TREBINJE" / TREBINJE – REPUBLIKA SRPSKA, BIH
www.investintrebinje.com





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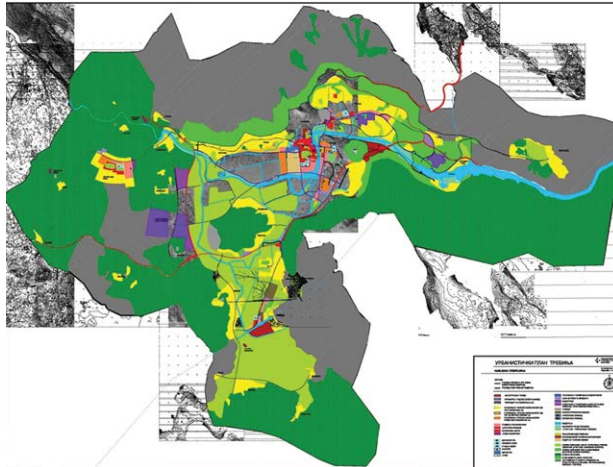


1.1. INFRASTRUCTURE

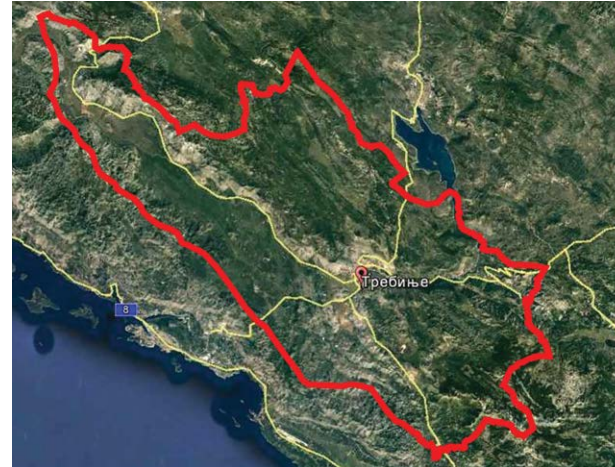
1.1.1. Spatial planning documentation in Trebinje

Trebinje Territory

TREBINJE URBAN PLAN to year 2020.

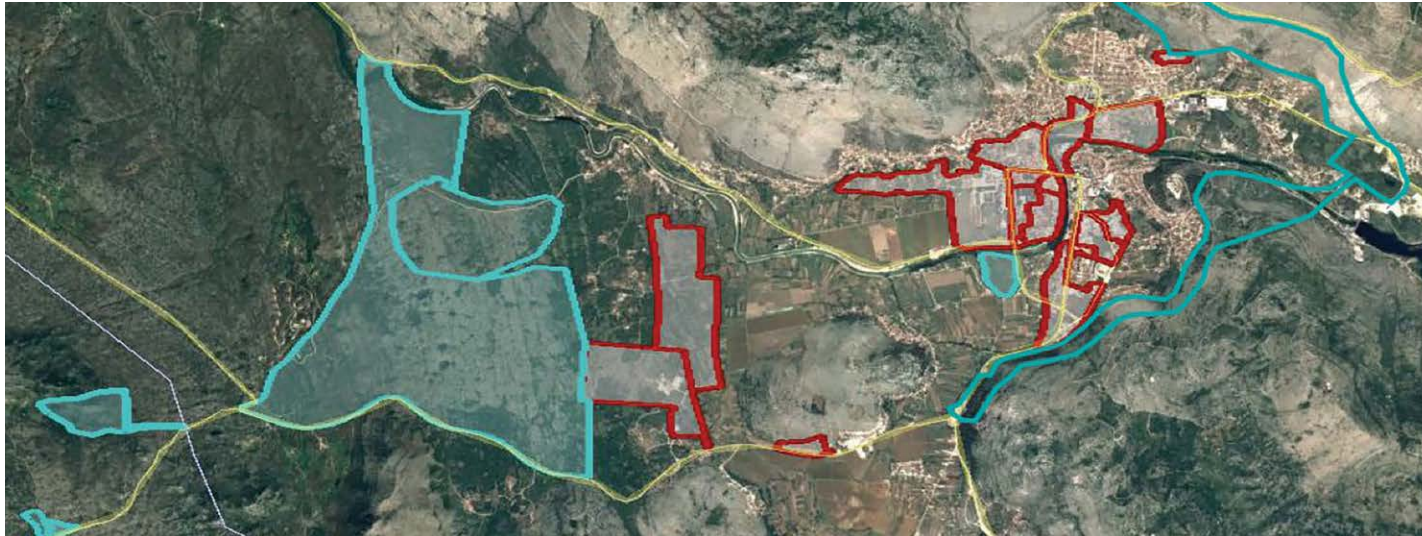


Official Gazette of the City of Trebinje, no. 03, 2016 y.



Official Gazette of the City of Trebinje, no. 01, 2001 y.

Planned expansion zones of the City of Trebinje

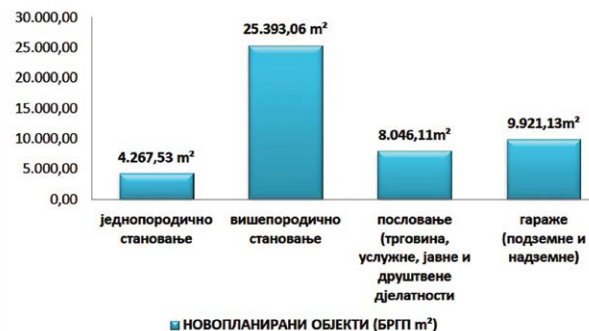


Official Gazette of the City of Trebinje

- » RP “Abazovina – Blace”, 2007
- » RP “Bregovi”, 2007, 2016
- » RP “Bregovi 2”, 2010
- » RP “Centar”, 2007
- » RP “Gradina”, 2007
- » RP “Banjevci Cemetery”, 2008
- » RP “South City Exit”, 2010
- » RP “Mokri dolovi”, 2006
- » RP “Prljača”, 2007
- » RP “Sjeverni logor”, 2007, 2016
- » RP “Stari grad”, 2007
- » RP “Zasad polje”, 2004
- » RP “Istočni logor” 2015
- » Parceling plan “Todorići 3”, 2016
- » RP “Volujac 2 Industrial Zone”, 2007
- » RP “Volujac Business Zone”, 2016
- » Zoning plan “The City of the Sun”, 2016

Residential, residential/commercial and commercial building potential in the City of Trebinje

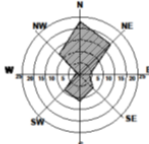
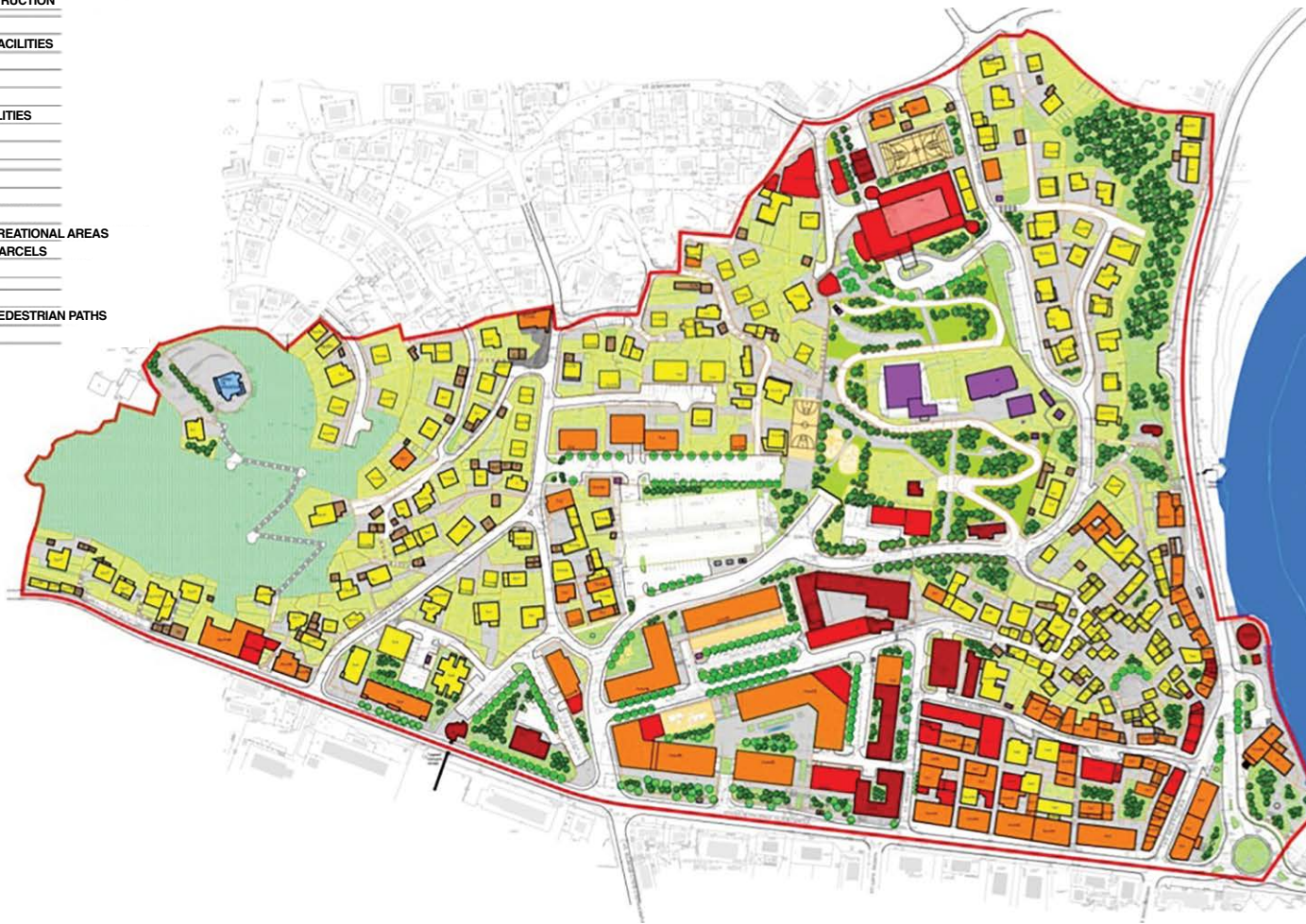
Upper town



- » Strict urban zone of the City of Trebinje
- » Attractive location for building a modern residential and business complex by the main street, the new future pedestrian zone of the city,
- » Large capacities of the parking spaces, in terms of underground and above-ground garages

LEGEND:

-  SCOPE LIMIT
-  PARCEL LIMIT
-  EXISTING FACILITIES
-  PLANNED FACILITIES
-  FACILITIES FOR RECONSTRUCTION
-  RESIDENTIAL FACILITIES
-  BUSINESS-RESIDENTIAL FACILITIES
-  BUSINESS FACILITIES
-  PUBLIC FACILITIES
-  RELIGIOUS FACILITIES
-  INFRASTRUCTURAL FACILITIES
-  AUXILIARY FACILITIES
-  NEWSSTANDS
-  FOREST AREAS
-  PARKS
-  GREEN PUBLIC SPACES
-  PLAYGROUNDS AND RECREATIONAL AREAS
-  GREENERY ON PRIVATE PARCELS
-  PAVING
-  CARRIAGE ROADS
-  CARRIAGE ROADS AND PEDESTRIAN PATHS
-  PLANNED GARAGES



Zasad polje

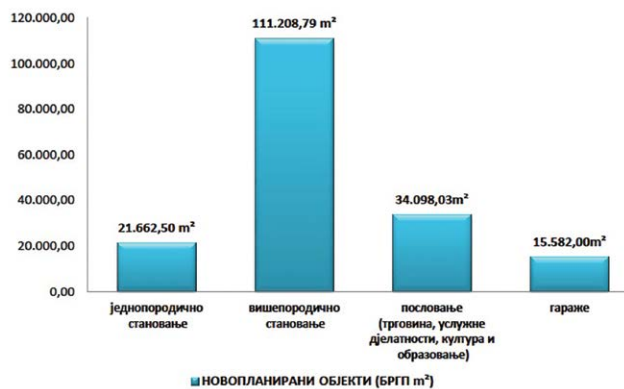


- » Strict urban zone of the City of Trebinje
- » One of the attractive directions of city expansion
- » Large capacities of residential and commercial buildings
- » Zones with sports and recreation content and urban greenery



South city exit

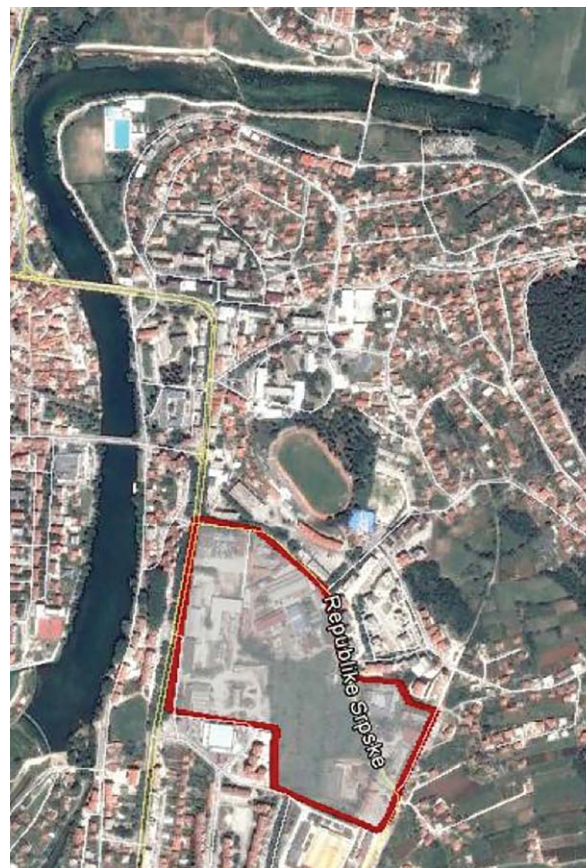
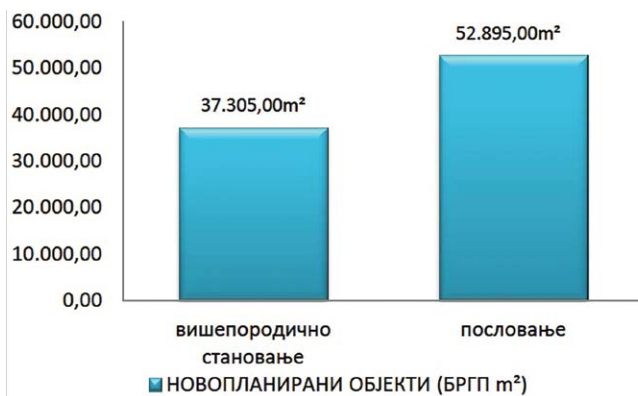
- » Strict urban zone of Trebinje
- » One of the attractive directions of city expansion southward
- » Large capacities of residential and commercial buildings
- » Zones with sports and recreation content, and urban greenery

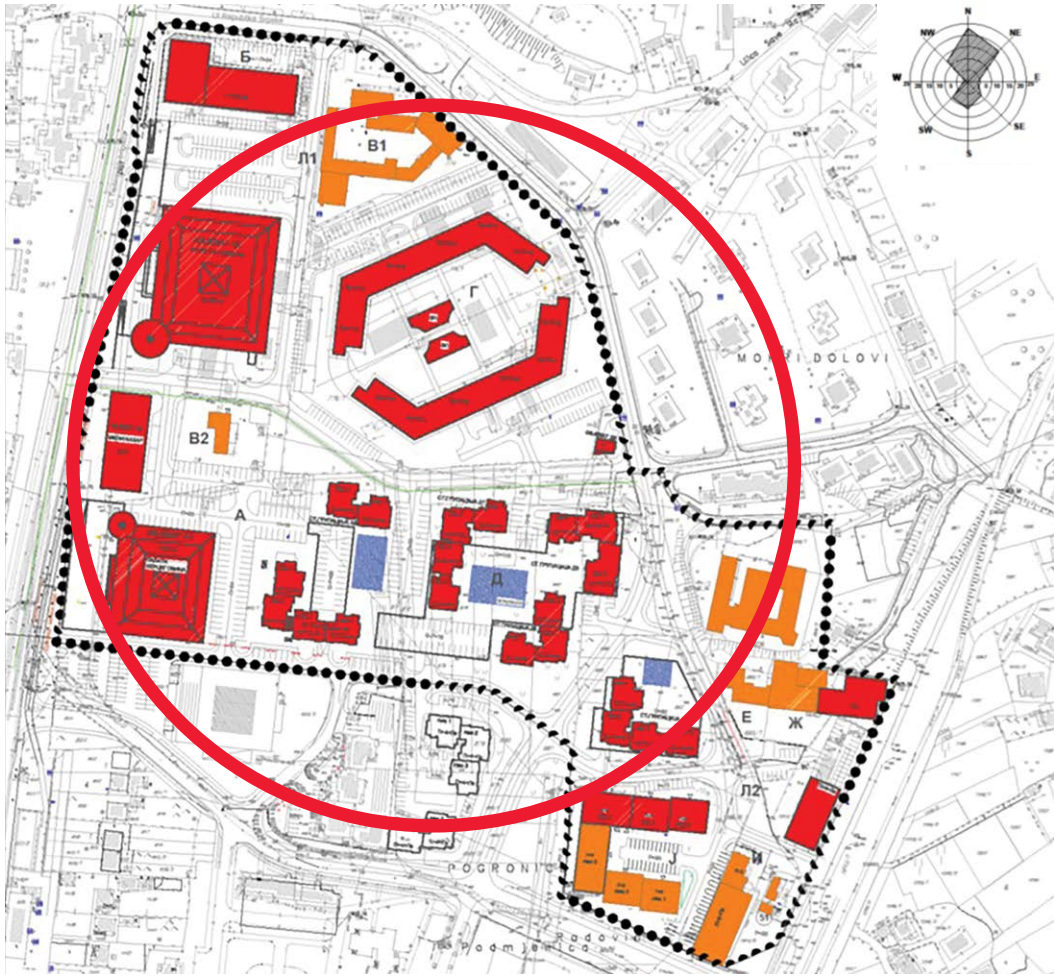




Istočni logor

- » Strict urban zone of Trebinje
- » One of the attractive locations in plan for urban reconstruction
- » Large capacities of residential and commercial buildings
- » Zones with planned hotel facilities

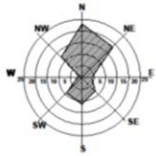




The City of the Sun

- » Wider urban zone of Trebinje
- » One of the attractive locations in plan for city expansion to additional 108.52 hectares
- » A tourist complex is in plan, with accommodation facilities, aqua-park, sports and recreational content, tourist and residential villas, healthcare contents of special purposes and a shopping center



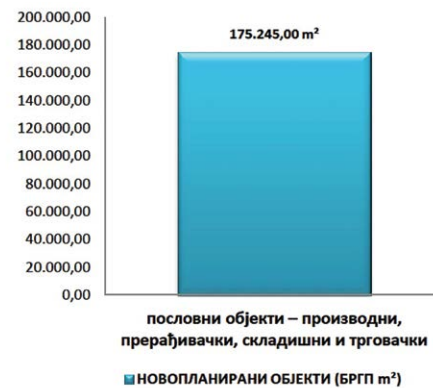


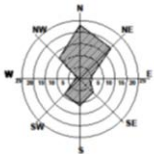
1. AQUA PARK (Sunčana Vrela)
2. INDOOR POOL
3. SPORTS HALL
4. OUTDOOR SPORTS COURTS
5. HOTEL FOR ATHLETES
6. BOROUGH
7. HOTEL
8. HOTEL
9. SHOPPING MALL – Tržnica
10. HEALTHCARE FACILITIES



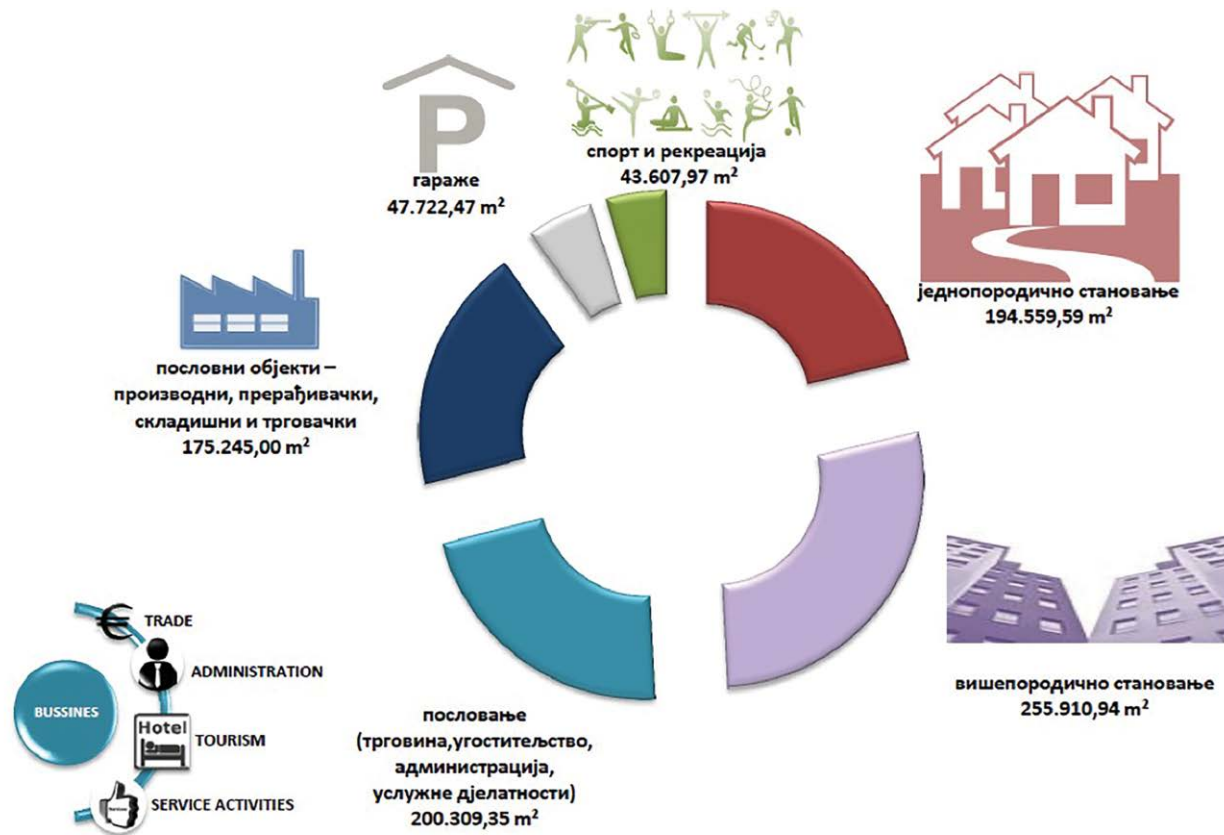
Business zone Volujac

- » Wider urban zone of Trebinje
- » Commercial and industrial zone with a newly-planned west city detour
- » A complex of commercial buildings is in plan, in function of trade, production, processing and goods storage



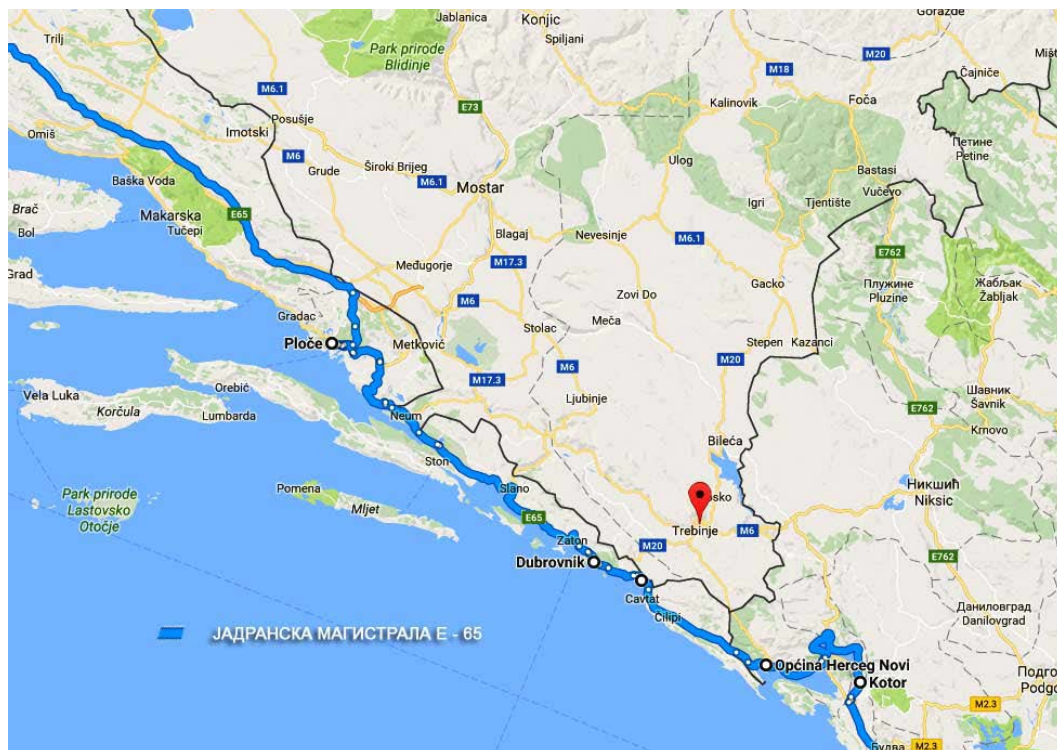


Total potential of construction of residential, residential/commercial and commercial buildings based on the existing executive spatial planning documentation



1.1.2. Transportation Infrastructure

Road transportation



Adriatic Highway E-65

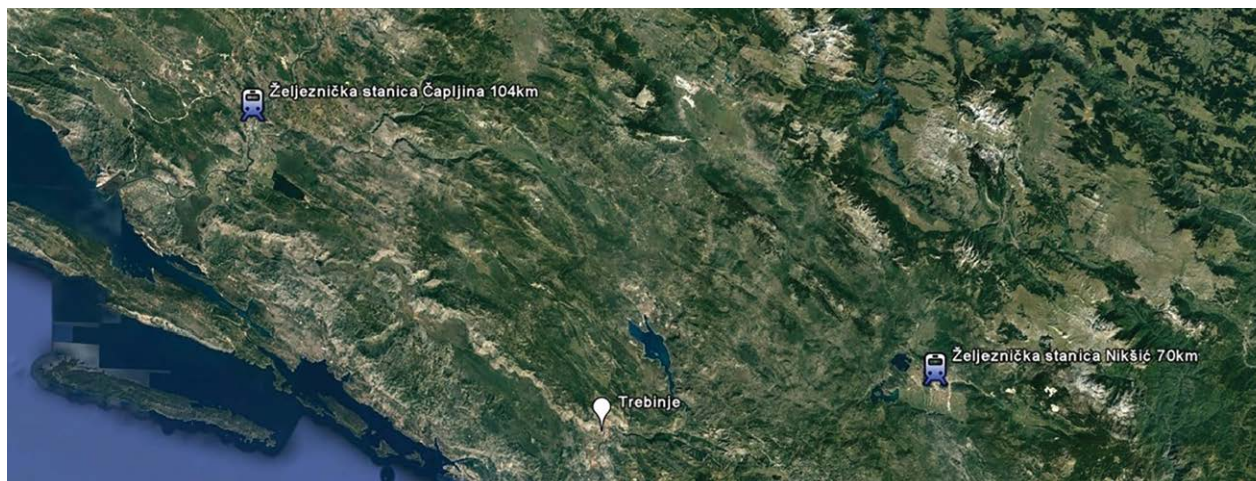
A part of the European A Class road connecting the north and the south of Europe.

Trebinje is connected by the M-6 route with this highway, just 25km away.

Planned route – ADRIATIC-IONIAN HIGHWAY

Connects central Europe with the south of the Balkans. Passes by Trebinje.

Railroads



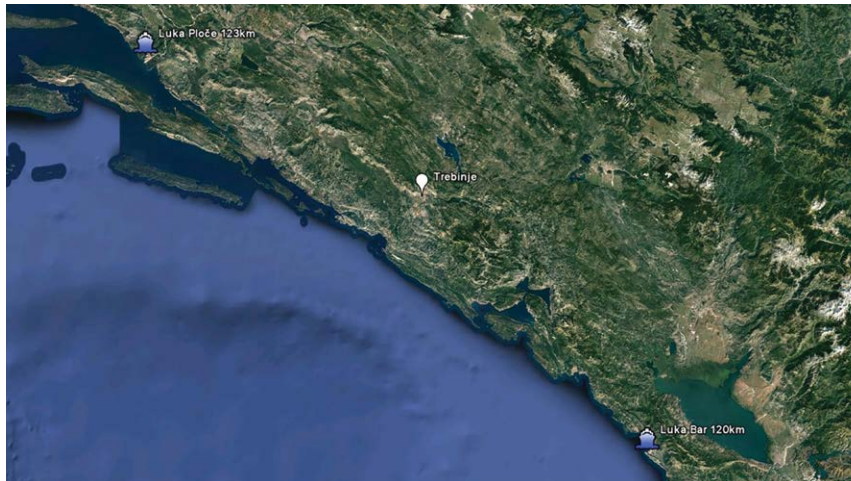
Čapljina Railway station

- » A part of the European C branch, which connects the Ploče port with Budapest, and is a part of the European V Corridor, connecting the Adriatic Sea with Russia.
- » Trebinje is 104km away via the M-6 highway.

Nikšić Railway station

- » A part of the Beograd – Bar railroad, connects the Bar port with central Europe.
- » Trebinje is 70km away via the M-6 highway.

Ports



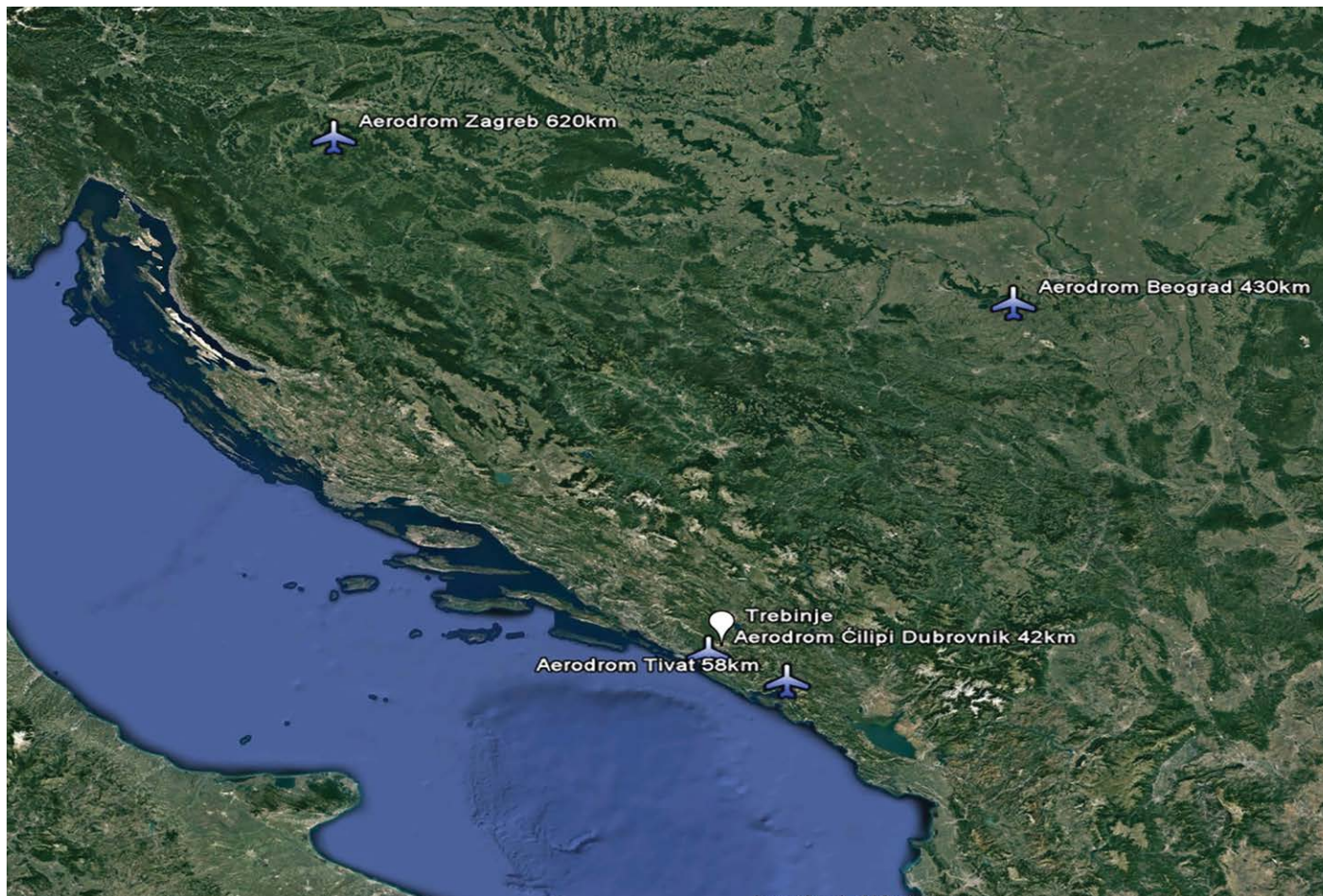
Bar port

- » An international port with 8 terminals, total traffic of 490 ships in 2016.
- » Trebinje is 120km away via the M-6 highway.

Ploče port

- » An international port with 8 terminals, total traffic of 450 ships in 2016.
- » Trebinje is 123km away via the M-20 highway.

Аеродроми



Tivat airport

- » An international airport with a total traffic of 979,432 passengers in 2016.
- » Trebinje is 58km away via the M-6 highway.

Ćilipi airport

- » An international airport with a total traffic of 1,584,471 passengers in 2016.
- » Trebinje is 58km away via the M-20 highway.

Belgrade airport

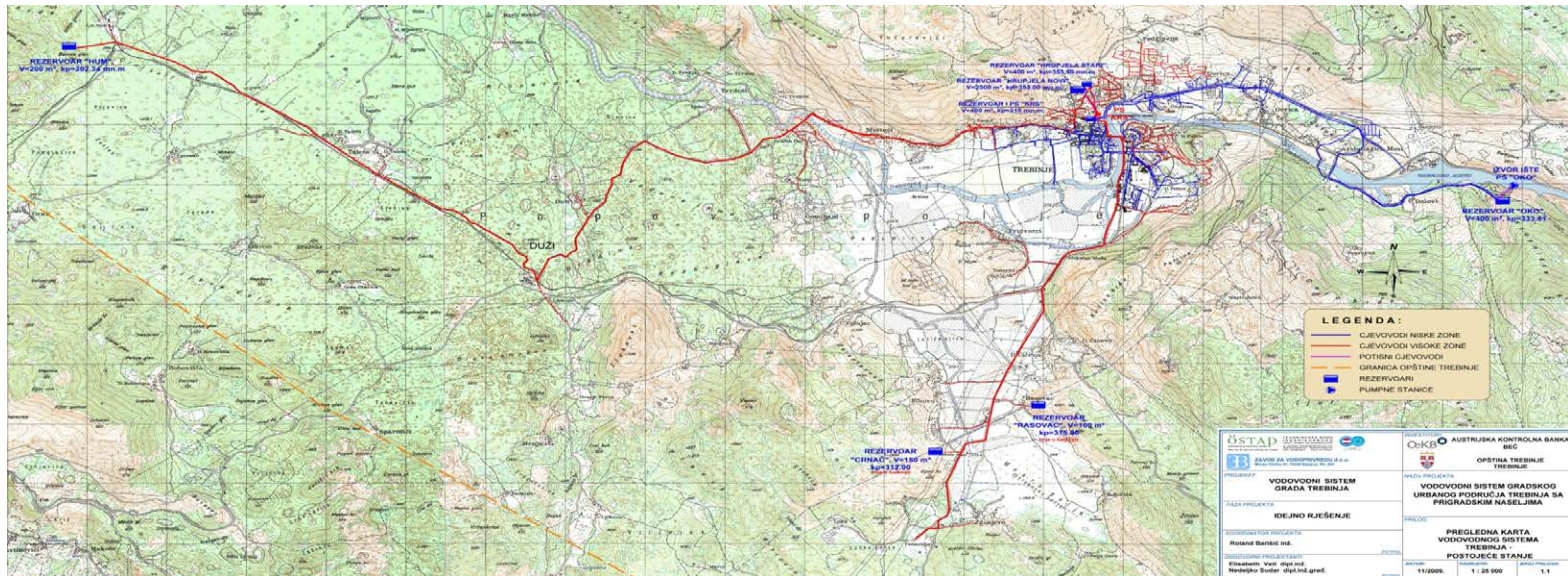
- » An international airport with a total traffic of 4,924,992 passengers in 2016.
- » Trebinje is 430km away via the M-6 highway.

Zagreb airport

- » An international airport with a total traffic of 2,766,087 passengers in 2016.
- » Trebinje is 620km away via the M-6 highway.

1.1.3. Municipal infrastructure

Water supply system



The system was established in 1903

An upgrade of the latter system concept was done in several occasions and in different volume (the biggest most recent one was in 2002, and it consisted of building a reservoir chamber “Hrupjela”).

Its water supply is the Vrelo oko spring (45m of depth).

The City of Trebinje is the major owner of the water supply and sewage network, while the managing and maintenance was given to the “Vodovod” JSC public company, Trebinje.

Covering the whole city territory

The city has dedicated funds from the budget for the construction of the Conceptual solution of the “Water supply system of the municipal urban territory of Trebinje with suburban settlements” in which the architects (Water-management bureau Bijeljina) have analyzed in detail the present state of the system, and its functionality. Flaws in work were recorded, the possibility for expansion was analyzed and the possible means of repairs, reconstruction and upgrade were carefully examined. A larger part of suggested solutions is an integral component of the “Water supply and sewage in the City of Trebinje” project, which has been implemented since 2012.

The projects are divided into 5 components:

COMPONENT 1

The component 1 was wholly implemented in 2014 and 2015. The fund procurement was 50% EIB loan and 50% grant. This component implemented: additional reservoir space procurement, construction of the main distributional pipeline from the “Krš” reservoir to the School center (L=630 m); construction of the main distributional pipeline from the “Hrupjela” reservoir to the Vinogradi settlement (L=846 m) and construction of additional reservoir space of 2000m³ capacity with a lock chamber at the “Krš” location.

- » Component 1 was wholly implemented in 2014 and 2015.
- » Contract value: 899,062 Euro (w/o VAT).
- » Contractor: “Radis” ltd, East Sarajevo.
- » The fund procurement – 50% EIB loan, 50% grant.



COMPONENT 2

Component 2 is underway. It consists of implementation of the following projects:

Formation of a 3rd pressure zone in the Hrupjela, Vinogradi, Podgljivlje settlements, and a 2nd pressure zone in the Podvori settlement. The implementation of this investment is underway. The fund procurement was set as follows: 371,457 Euro from the City's budget for year 2017, and the rest, amounting to 705,284 Euro from an EIB loan.

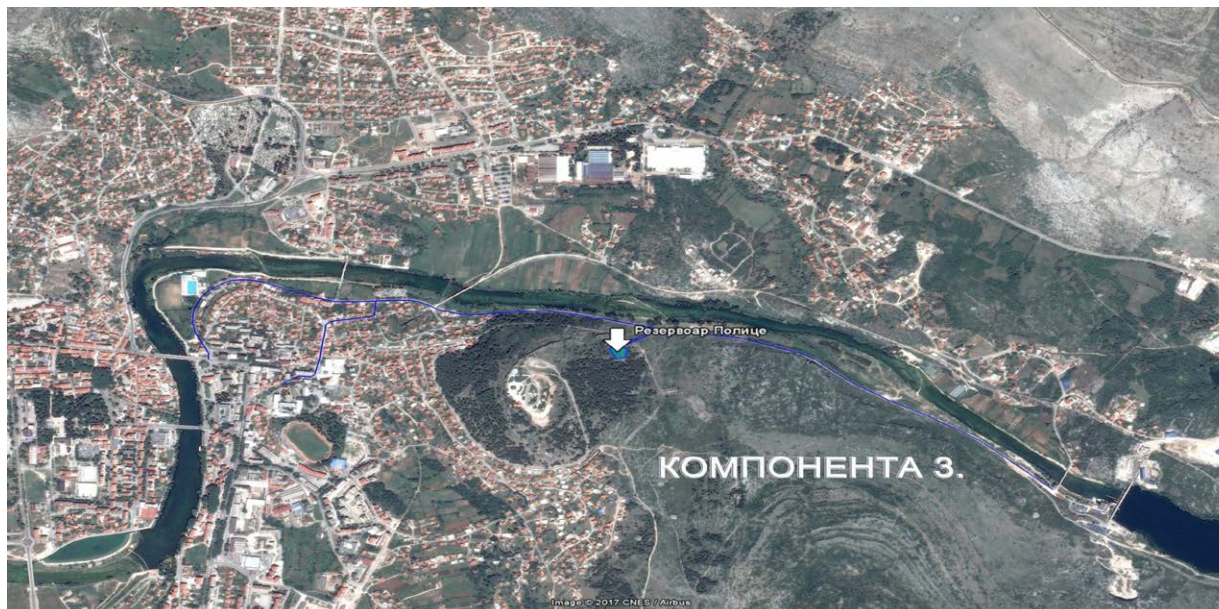
The value of the projects to be implemented in this component is 2,466,472 Euro.



COMPONENT 3

The value of this component is 2,204,841 Euro.

Within the component 3, the plan is to construct a pipeline and a reservoir “Police” for water supply for the settlements on the left bank of Trebišnjica river.



COMPONENT 4

By constructing the component 4, it will be possible to finish the separation of the water supply system into two separate sub-systems (on the left and right Trebišnjica banks).

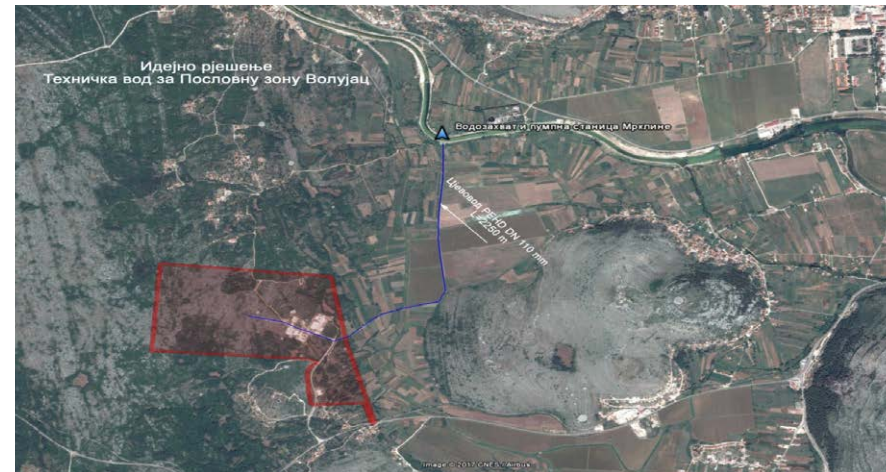
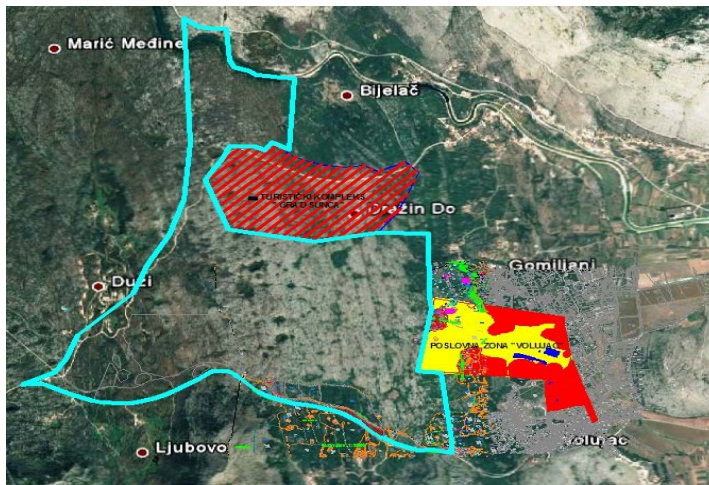


COMPONENT 5

Momentarily, besides aforementioned projects in water supply framework, the city is also working on planning and designing a detour, which route is located in the zone set for constructing the main distributional pipeline of a 2nd pressure zone.

A new distributional pipeline will provide the means of creating the conditions for further development and expansion towards new urban territories. Besides the future detour, a construction of a business zone is in plan, and by building the pipelines, the prerequisites for the formation of a new residential zone will be met.

The estimated value of the investment for constructing a pipeline 200mm in diameter and 3,000m in length is around 238,475 Euro.



The plan of providing the Volujac Business zone with process water from the river.

Pipeline length – 2,250 m.

The conditions for providing business and commercial zones in Trebinje will be provided with this plan.

Sewage network

The Trebinje sewage system is separate

It was designed in the 70s, and constructed between 1976 and 1982.

It's around 330ha large with a spatial displacement between 270 and 400 m.n.m

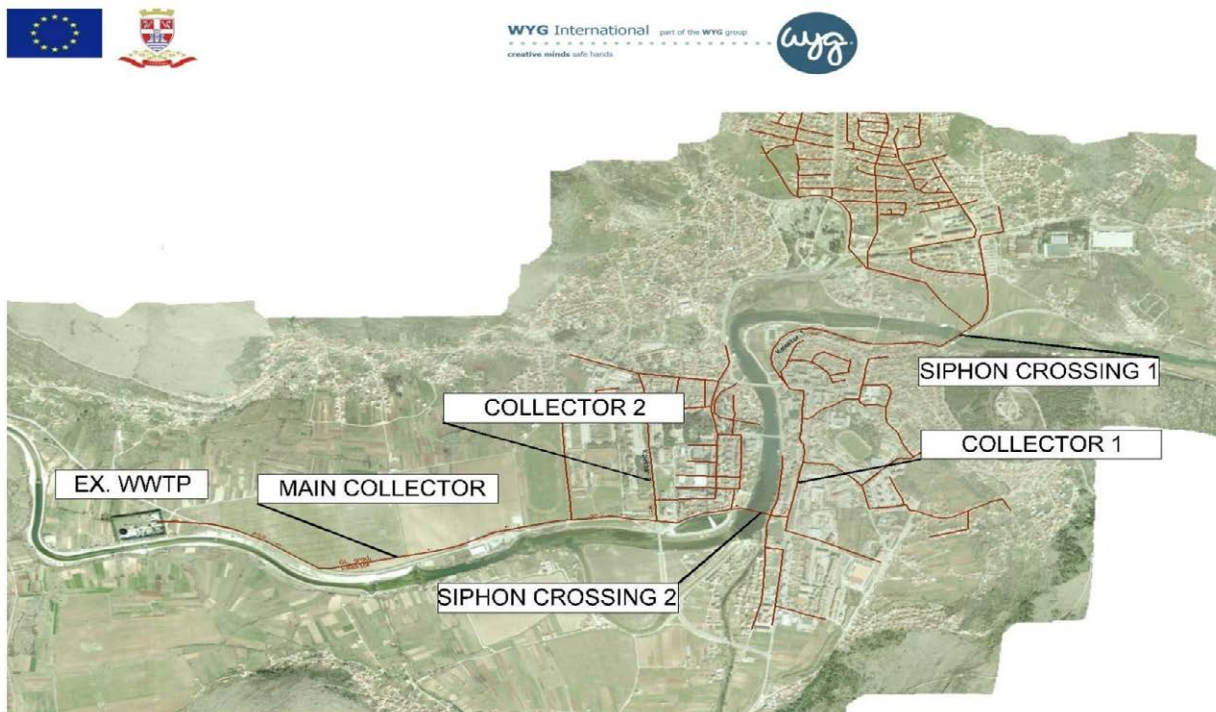


Figure 4-44 – Layout of key components of existing sewage collection and treatment system



WYG International part of the WYG group
creative minds safe hands



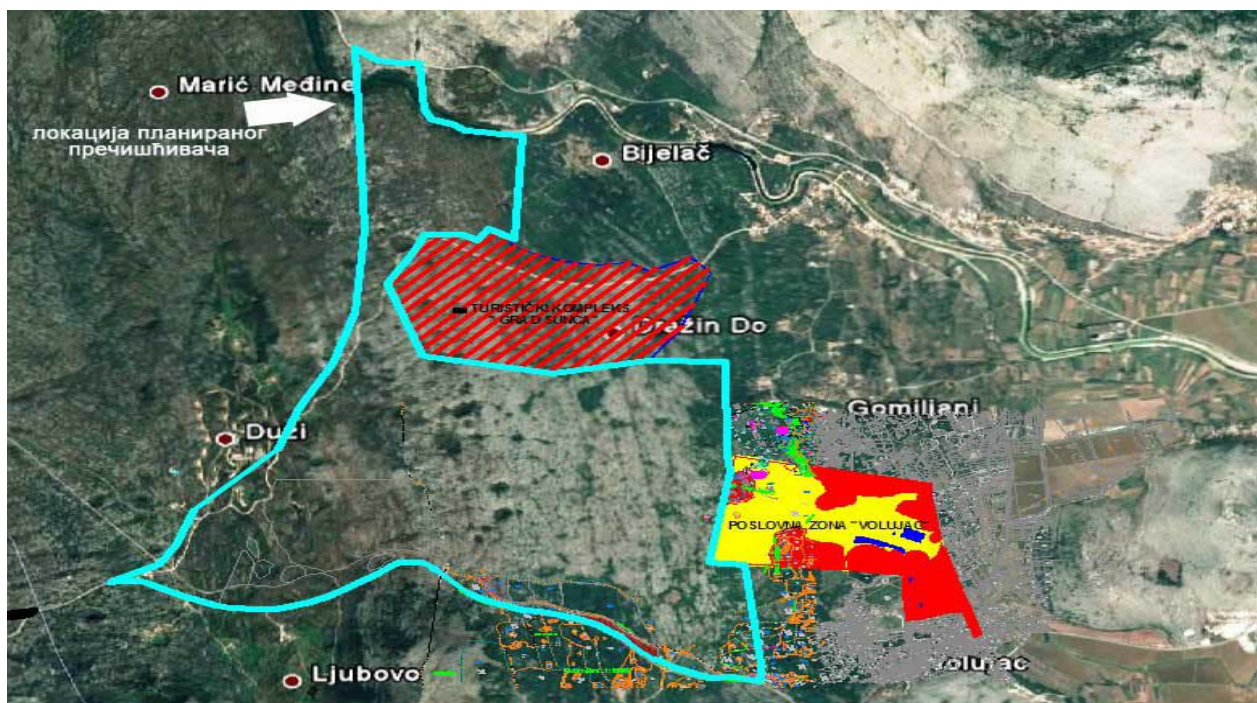
The existing sewage water treatment plant in Trebinje was designed in 1980. Initially, for the capacity of 30,000 ES in phase I.

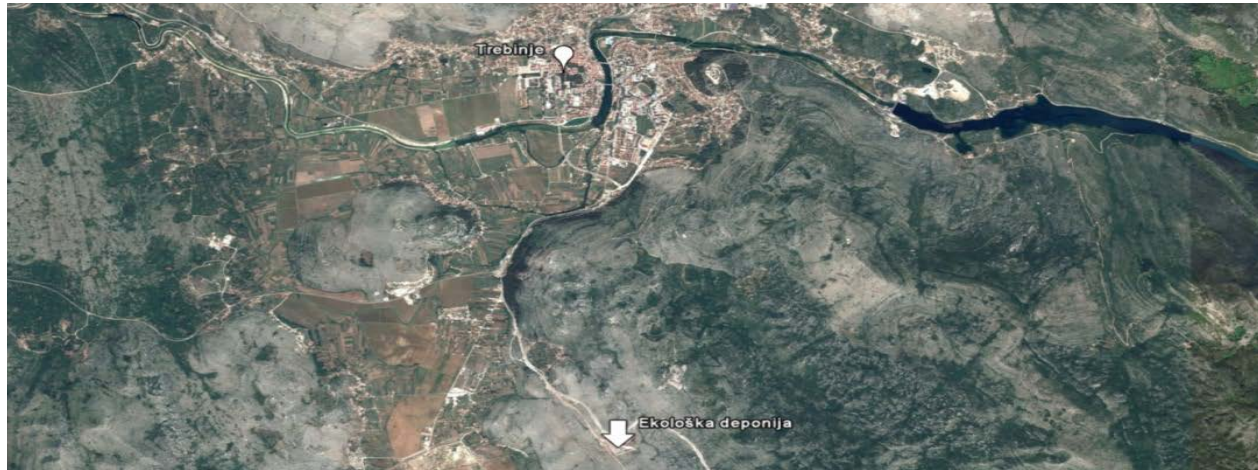
The process of expanding the plant for additional 50,000 ES worth 1,700,000 Euro is underway.



In the five-year-long period of the Trebinje sewage network development, the construction of a new water treatment plant is planned, which would treat sewage water from the land in the planning and executive documents of the Volujac Business zone, the City of the Sun Zoning plan and the New Trebinje Zoning plan.

The planned capacity is 20,000 ES.





City Landfill

- » The landfill was established in July 2008 and is located 7.7km from Trebinje.
- » The current volume of the filled space is cca 101,600m³ or cca 8300m².
- » The total volume of the landfill space in the project volume is cca 808,800 m³.
- » The landfill is set on a total project volume of cca 67,400m².
- » A potential for a REGIONAL landfill with the capacity of 35 years.
- » A potential for constructing a recycling plant.

1.1.4. *Power and telecommunications image of the city*

Telecommunications

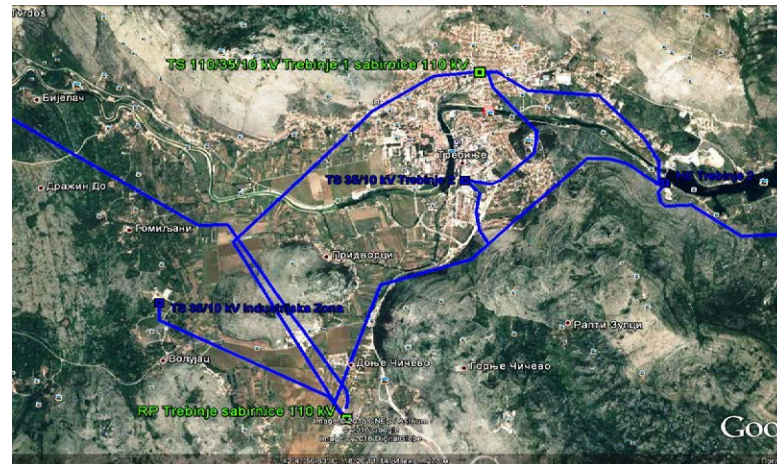
SPOK (Coupling Optical Cables) (Ser. Spojni optički kablovi) were built from the TKC (Telecommunication center) in the Srpska 4 Street (in the City center), towards:

- » 1. Ljubinja
- » 2. Bileća
- » 3. Nikšić (to Klobuk)
- » 4. Herceg Novi (to the border crossing Zubci)
- » 5. Some laid pipes towards Volujac.
- » There's also a number of optical access networks to some companies built within the city, as well as some multi-service devices (MSANs) or base stations (BSs).
- » The user copper loop was reduced to an average length of cca 600m in the whole city, in order to provide the users with the VDSL technology-based services (100 Mbps).
- » Furthermore, a FTTH network is in construction using the GPON technologies, where the users will be provided with unlimited speeds via optics in the future.

The power image of the City

Elektro Trebinje, in the structure of the Elektro Hercegovina JSC Trebinje supplies 13,412 users in the household category and 1,419 in the other consumption category on the territory of Trebinje

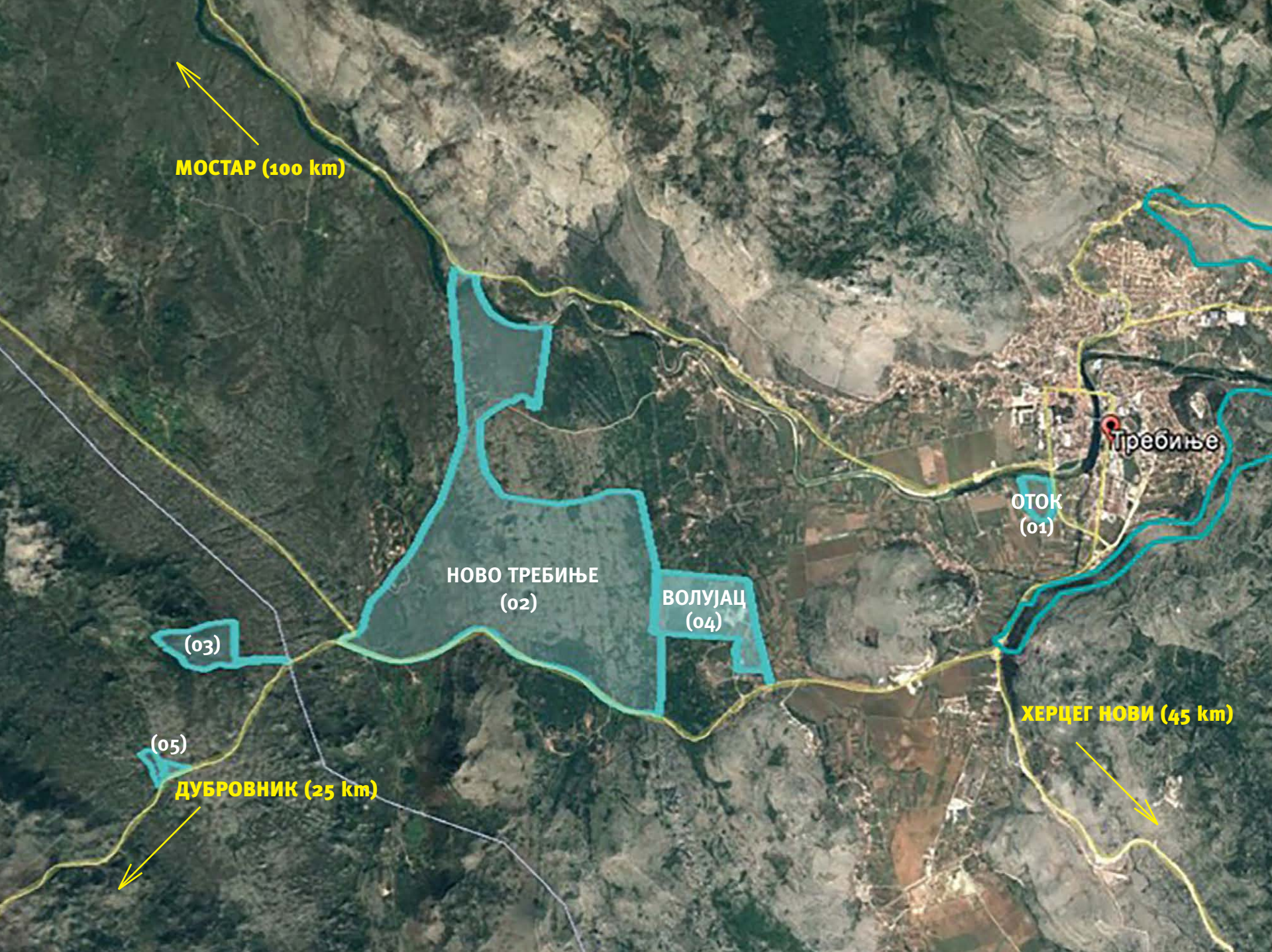
- » Power distribution center 400/220/110/35/10 kV and
- » TC 110/35/10 kV Trebinje 1
- » TC 35/10 kV Trebinje 2
- » TC 35/10kV Industrial zone
- » TC 35/10kV Veličani
- » TC 35/10 kV Grančarevo
- » TC 35/10 kV HET 2







1.2. INVESTMENTS



МОСТАР (100 km)

Требиње

ОТОК (01)

НОВО ТРЕБИЊЕ (02)

ВОЛУЈАЦ (04)

(03)

(05)

ДУБРОВНИК (25 km)

ХЕРЦЕГ НОВИ (45 km)

1.2. Economic zones of the City of Trebinje

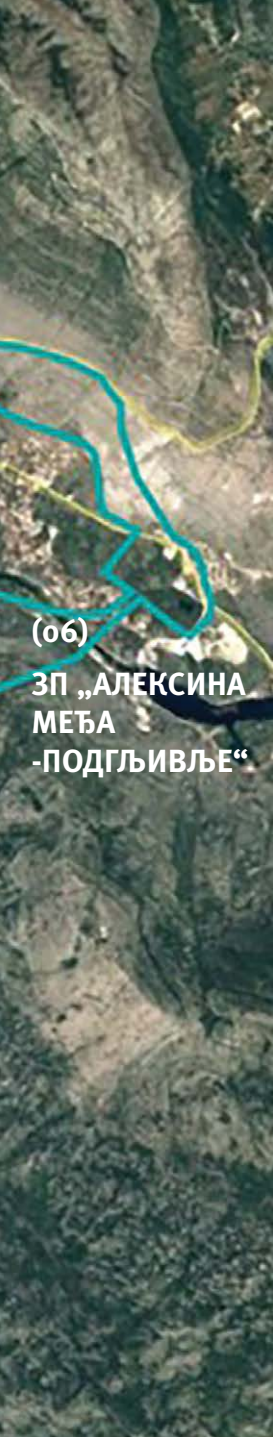
Urban land intended for new investments

Wider urban zone of Trebinje

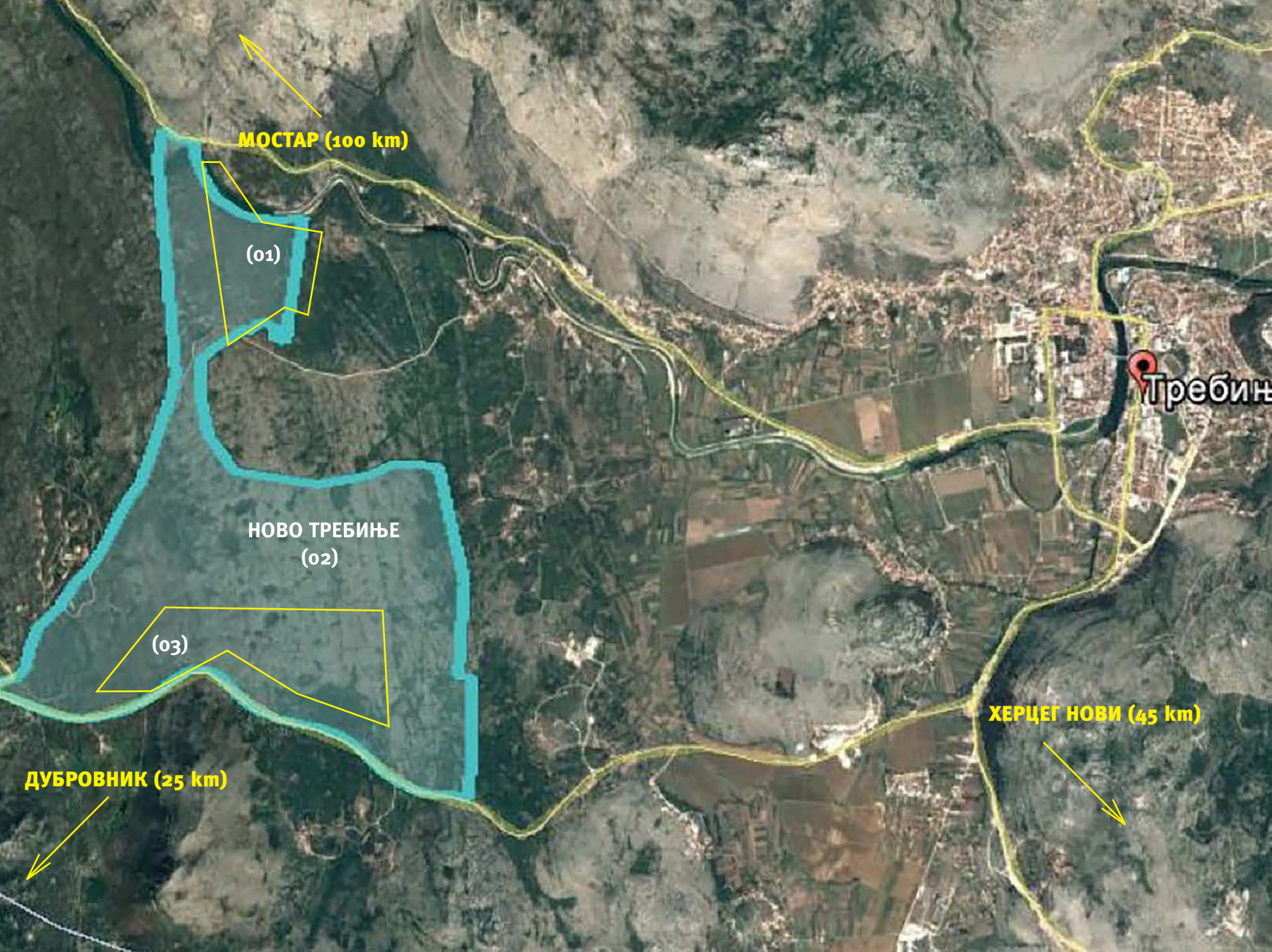
Trebinje offers approximately 887 hectares of land intended for new investments

The construction of the following facilities is planned:

- (01) Residential and business, sports and recreational activities (approximately 16 ha)
- (02) Residential and business, tourist and accompanying facilities (approximately 460 ha):
 - » Casino (tourist facilities, approximately 70 ha)
 - » Golf courses (tourist facilities, approximately 30 ha)
- (03) Businesses (approximately 65 ha)
- (04) Businesses (approximately 85 ha)
- (05) Businesses (approximately 11 ha)
- (06) Zoning plan “Aleksina međa-Podglivlje”



(06)
ЗП „АЛЕКСИНА
МЕЂА
-ПОДГЉИВЉЕ“



МОСТАР (100 km)

(01)

**НОВО ТРЕБИЊЕ
(02)**

(03)

ДУБРОВНИК (25 km)

Требиње

ХЕРЦЕГ НОВИ (45 km)

1.2.1.1. Economic zone “Novo Trebinje”

- » Wider urban zone of Trebinje
- » Excellent traffic connections
- » “Novo Trebinje” has at its disposal approximately 460 ha of land intended for new investments.

The construction of the following facilities is planned:

- (01) Casino (tourist facilities, approximately 70 ha)
- (02) Residential and business, tourist and accompanying facilities (approximately 360 ha)
- (03) Golf courses (tourist facilities, approximately 30 ha)

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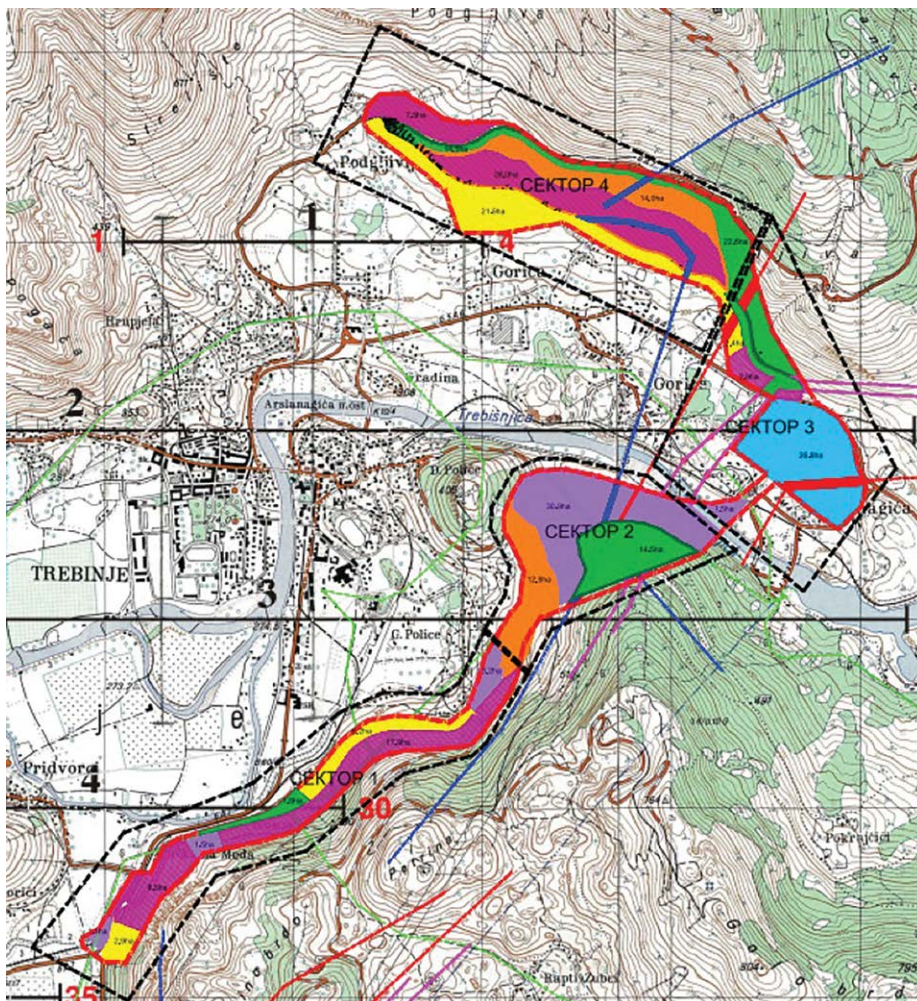
1.2.1.2. Economic zone “Aleksina međa-Podglivlje”

The zoning plan “Aleksina Međa - Podglivlje “, which will systematically regulate the area around the planned eastern bypass, was drafted at the initiative of the City of Trebinje.

The scope of the zoning plan is approximately 250 hectares, of which approximately 200 ha (or 80%) is owned by the City, and approximately 50 hectares (or 20%) is privately owned.

This planning implementing document will define clear urban units and purpose of the area, and it will link the surrounding settlements to the planned bypass.

The zoning plan “Aleksina Međa - Podglivlje” will determine new directions of urban development and expansion of Trebinje, as well as its infrastructure.



The scope of the zoning plan “Aleksina Međa - Podgljivlje”

The scope of the plan and division into sectors

The scope of the zoning plan is divided into a total of four (4) sectors, i.e.:

Sector 1:

Aleksina međa – Brankovića kula

Sector 2:

Brankovića kula – Petrina – Trebišnjica River

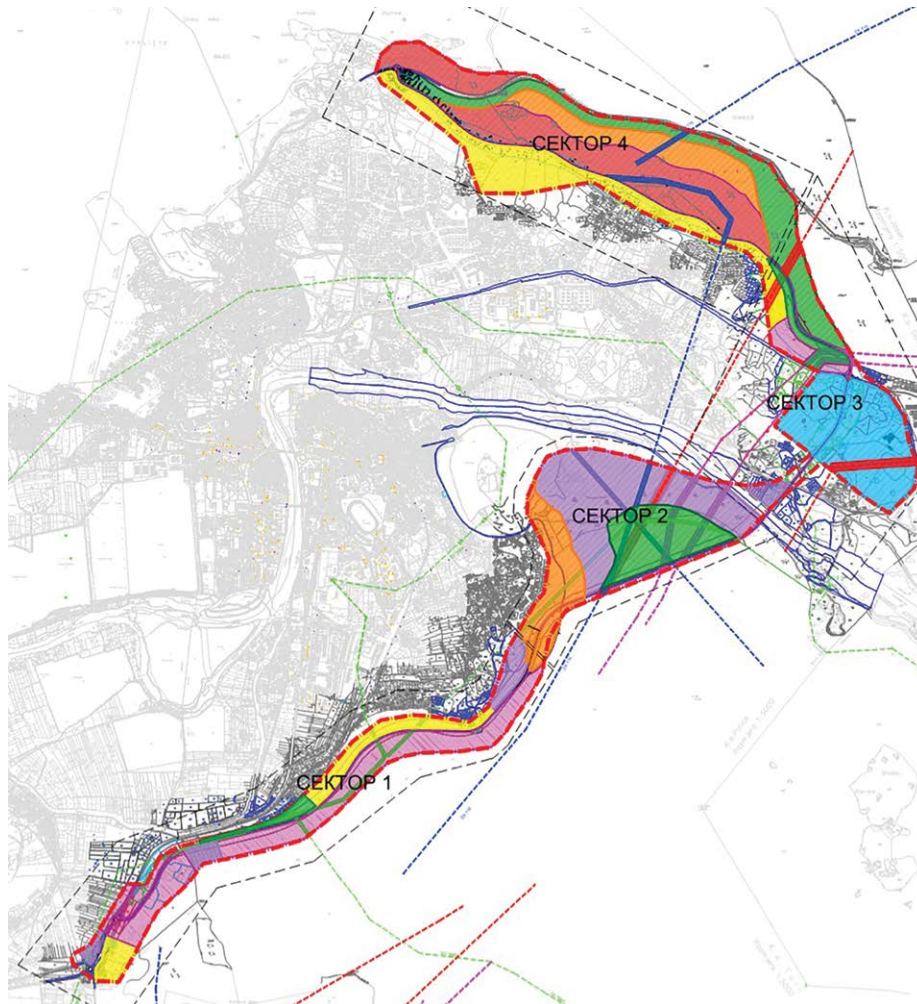
Sector 3:

Trebišnjica River – Gorica







Sector 4:

Gorica – Podgljivlje

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ZONES LEGEND :

-  HOUSING- individually up to 100 inhabitants/ha
-  HOUSING-residential villas up to 100 inhabitants/ha
-  BUSINESS OPERATIONS AND COMMERCIAL ACTIVITIES (trade, administration, small businesses, processing industry)
-  BUSINESS-INDUSTRIAL ZONE (production activities, small businesses, processing industry)
-  TOURISM (accommodation capacities, catering industry, cultural-historical and natural assets)
-  TRANSIT TOURISM CHECKPOINT (gas station, car service, catering facility)

ELECTRIC POWER INFRASTRUCTURE

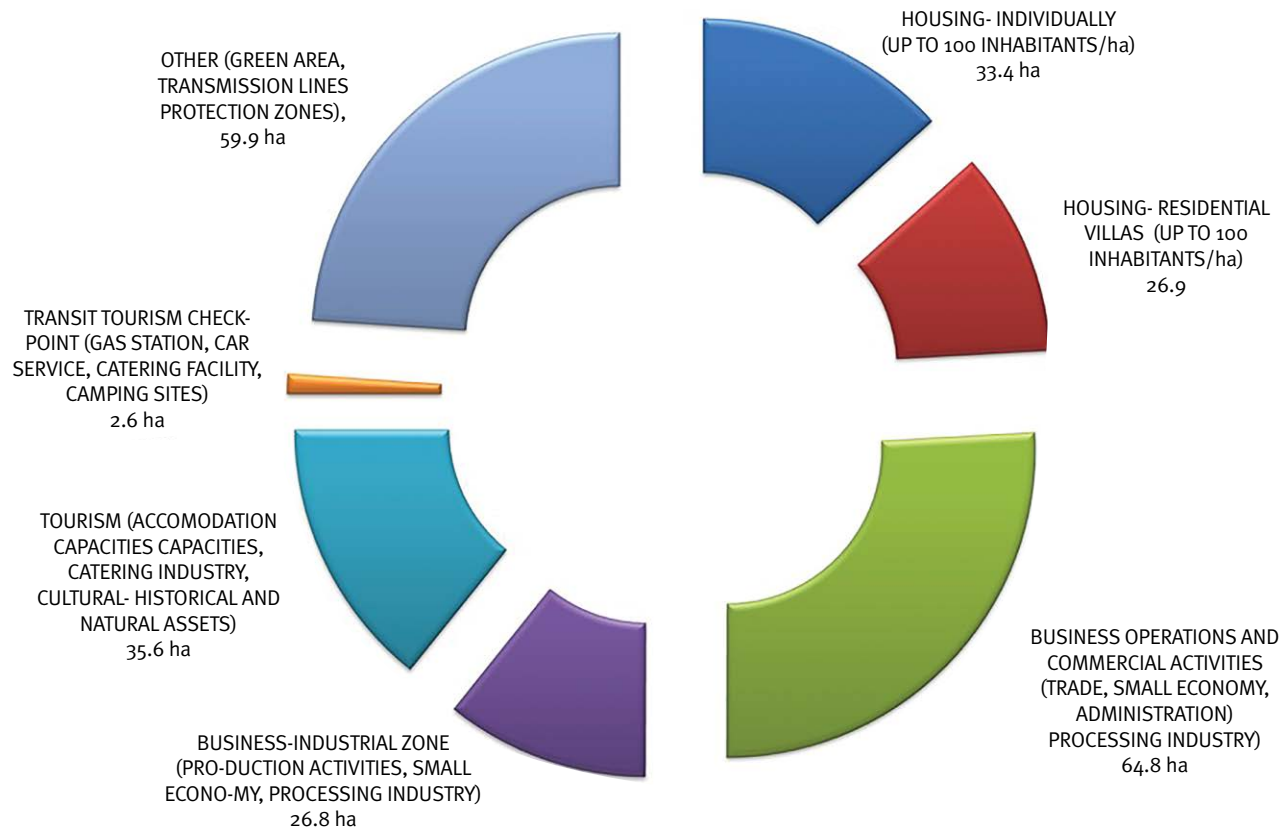
-  LONG DISTANCE TRANSMISSION LINE 35 kV (safety zone 15 m)
-  LONG DISTANCE TRANSMISSION LINE 110 kV (safety zone 20 m)
-  LONG DISTANCE TRANSMISSION LINE 220 kV (safety zone 30 m)
-  LONG DISTANCE TRANSMISSION LINE 400 kV (safety zone 40 m)

Purpose of area

01 INFRASTRUCTURE AND INVESTMENTS

Ordinal number	PURPOSE OF AREA	AREA (ha)	%
1ST	HOUSING- INDIVIDUALLY (UP TO 100 INHABITANTS/ha)	33.4	13.36
2ND	HOUSING- RESIDENTIAL VILLAS (UP TO 100 INHABITANTS/ha)	26.9	10.76
3RD	BUSINESS OPERATIONS AND COMMERCIAL ACTIVITIES (TRADE, SMALL ECONOMY, ADMINISTRATION) PROCESSING INDUSTRY)	64.8	25.92
4TH	BUSINESS-INDUSTRIAL ZONE (PRODUCTION ACTIVITIES, SMALL ECONOMY, PROCESSING INDUSTRY)	26.8	10.72
5TH	TOURISM (ACCOMODATION CAPACITIES CAPACITIES, CATERING INDUSTRY, CULTURAL- HISTORICAL AND NATURAL ASSETS)	35.6	14.24
6TH	TRANSIT TOURISM CHECKPOINT (GAS STATION, CAR SERVICE, CATERING FACILITY, CAMPING SITES)	2.6	1.04
	OTHER (GREEN AREA, TRANSMISSION LINES PROTECTION ZONES)	59.9	23.96
	TOTAL (ha):	250	100

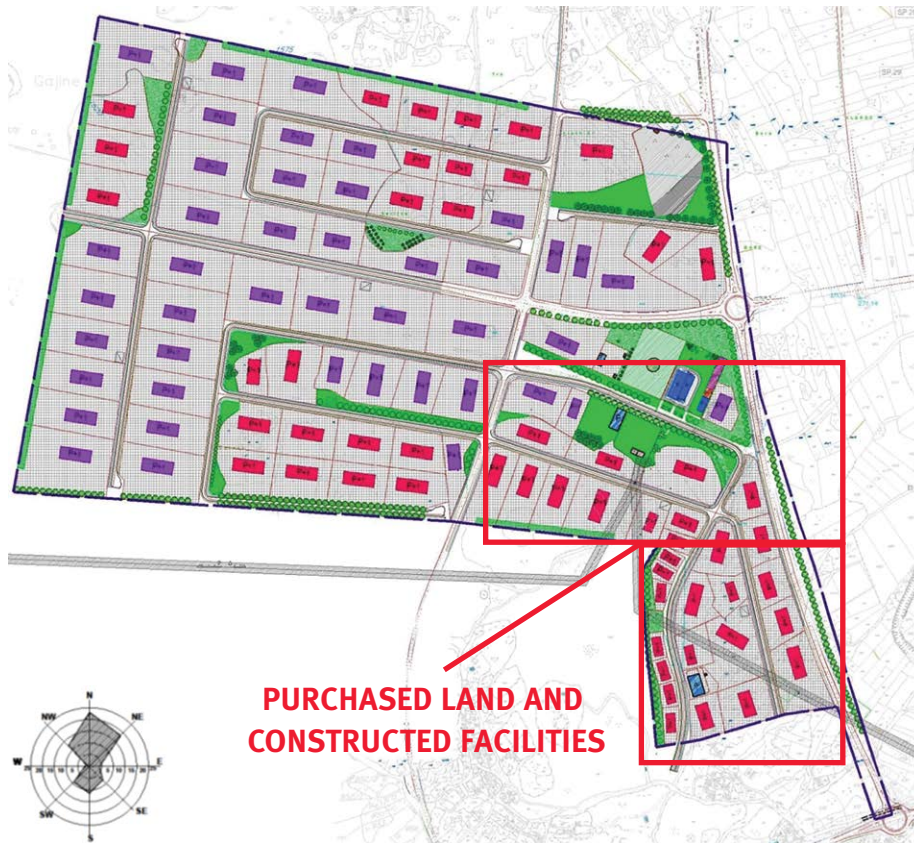
Overview of the used areas



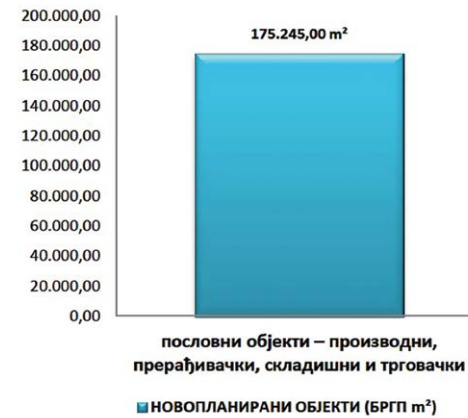
OVERVIEW OF THE USED AREAS - ha

1.2.1.3. Economic and Business zone “Volujac”





**PURCHASED LAND AND
CONSTRUCTED FACILITIES**



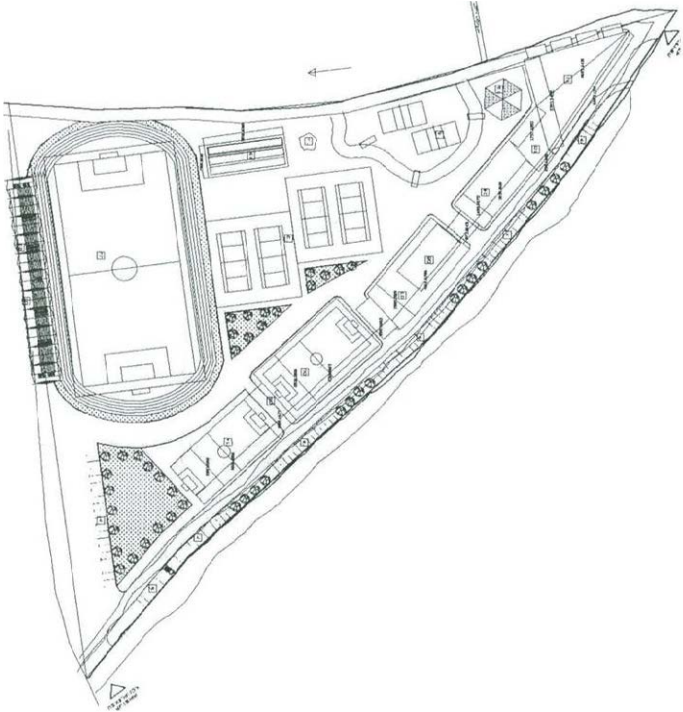
- » Wider urban zone of Trebinje
- » Business—industrial zone along the newly planned western city bypass
- » A complex of business facilities in the service of trade, production, processing and storage of good is planned.

1.2.1.4. Residential, business, and sports and recreational complex “Otok”

INTRODUCTION

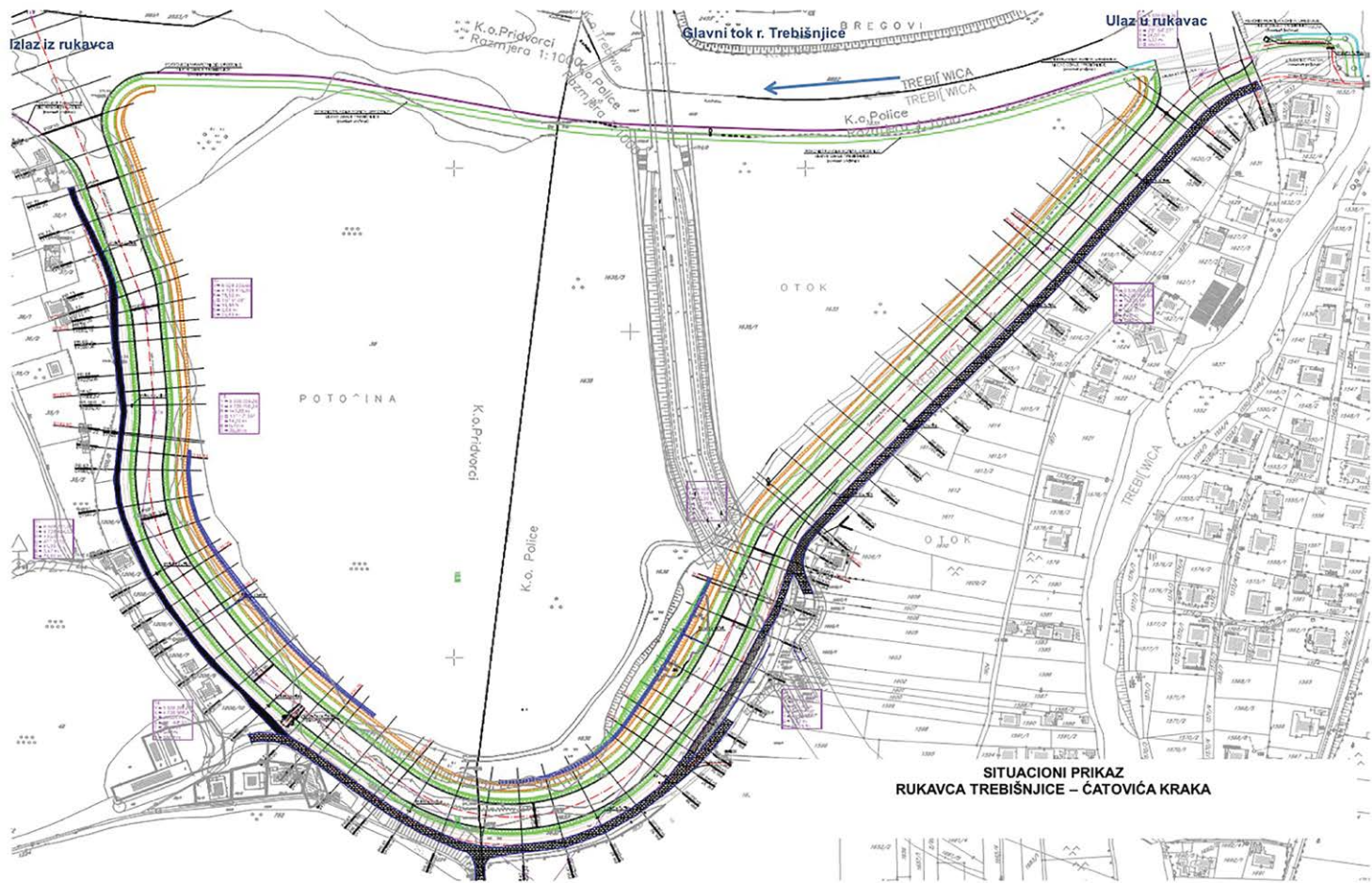
- » The space between the Trebišnjica River and its branch, the so-called Čatovića armlet, the total area of approximately 16 ha, can be urbanized and used for the purposes of the following facilities:
- » Construction of a residential and business complex, on a surface area of approximately 10 ha, and
- » Construction of a sports and recreational complex, on a surface area of approximately 6 ha





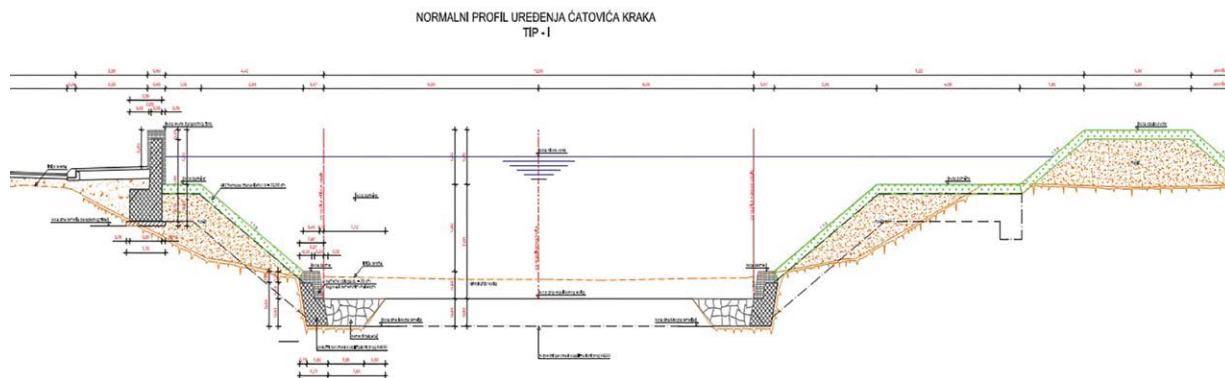
Development of armlet

- » In order to decrease flood risks in Trebinje and expand the City urban zones, the subsidiary company and the investor “Hydro Power Plant on the Trebišnjica River” plans to implement the project of the increase of the Trebišnjica river throughput capacity. Within this project, the regulation of the Trebišnjica river and Pridvorci and Čatović armlet will be performed.
- » The regulation works will enable urbanization of “island“ (between Trebišnjica river and Čatović armlet), where the business-residential and sports-recreational complex “Otok“ is planned to be constructed. Upon the completion of all regulatory works on the Trebišnjica river, “Otok“ will be protected from high-level water of approximate speed of cca 600m³/s.
- » The regulation of Čatović armlet will be in the length of cc 1.25 km;
- » The primary role is to disencumber the Trebišnjica’s main riverbed during the periods of high water levels.



SITUATIONAL DISPLAY OF TREBIŠNJICA RIVER BRANCHES

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- » The normal profile of the regulated riverbed's flow of the Čatović armlet is designed in the same way as the urban regulation profile. Bank slopes are uniformed along the entire regulation length in the ratio of 1:1:50
- » The total value of investment works is cca BAM 3.1 million. The works investor is subsidiary company "Hydro Power Plant on the Trebišnjica River".

Construction in phases

For the implementation of the necessary works for the development of Ćatović armlet and the space along, the construction in phases is planned.

Phase I (in 2017) would include the following works:

- » Construction of the parapet wall with passages in the wall and stairs to Ćatović armlet riverbed
- » Construction of the hiking trail along the parapet wall
- » Construction of all facilities (water intake structure, spillway..)

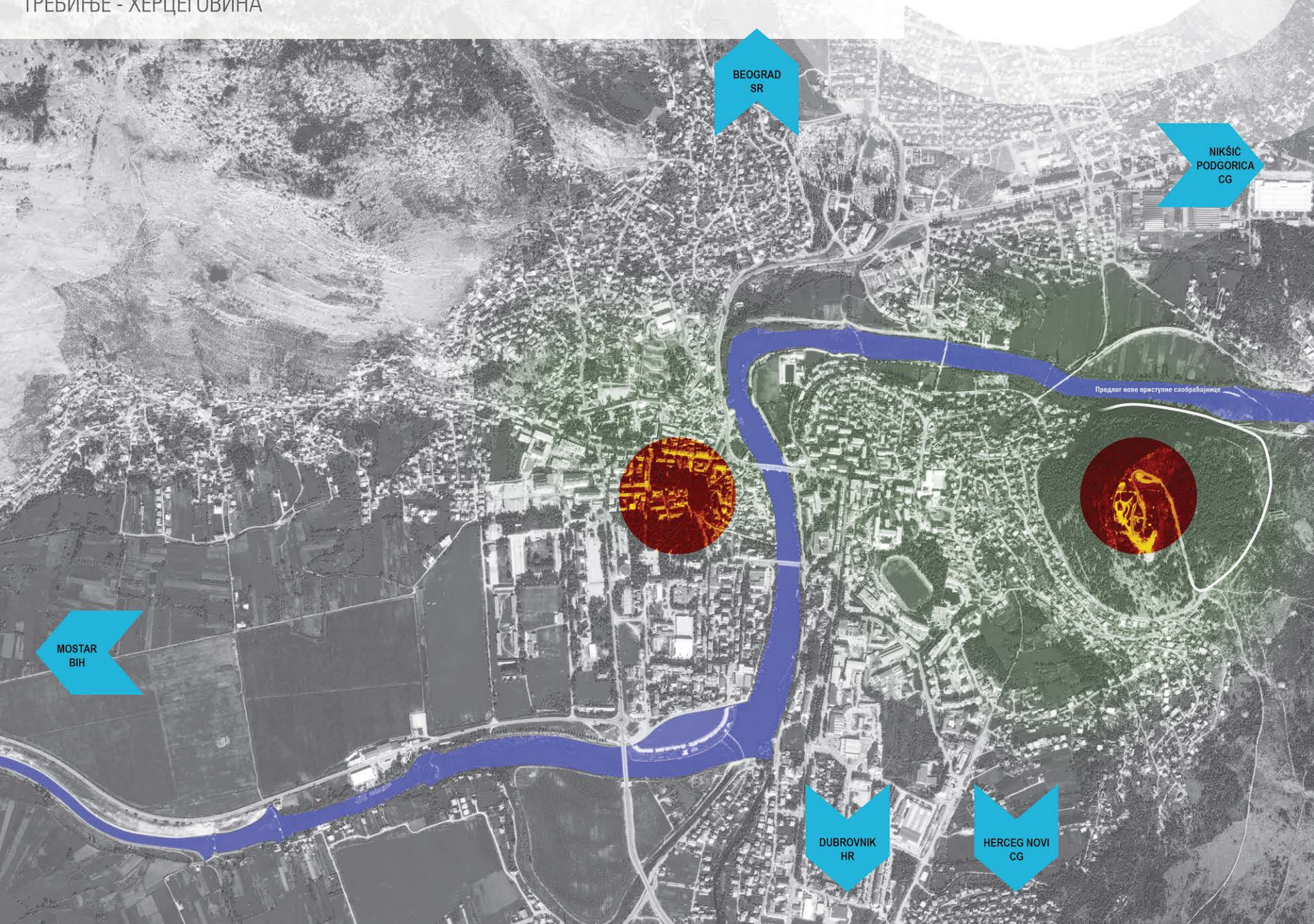
Phase II (in 2018) would include the following works:

- » Construction of the embankment on the right bank
- » Construction of the drainage channel with culverets on the right bank
- » Construction of public lighting along the Ćatović armlet

Phase III (in 2018) would include the following works:

- » Reconstruction of the road along the left bank
- » Construction of a path which would connect the pavement on the bridge and the path along the Ćatović armlet

АРХИТЕКТОНСКО И УРБАНИСТИЧКО УРЕЂЕЊЕ КОМПЛЕКСА ХЕРЦЕГОВАЧКЕ ГРАЧАНИЦЕ
ТРЕБИЊЕ - ХЕРЦЕГОВИНА



BEOGRAD
SR

NIKŠIĆ
PODGORICA
CG

Предлог нове приступне саобраћајнице

MOSTAR
BIH

DUBROVNIK
HR

HERCEG NOVI
CG

1.2.3. *City on Crkvina*

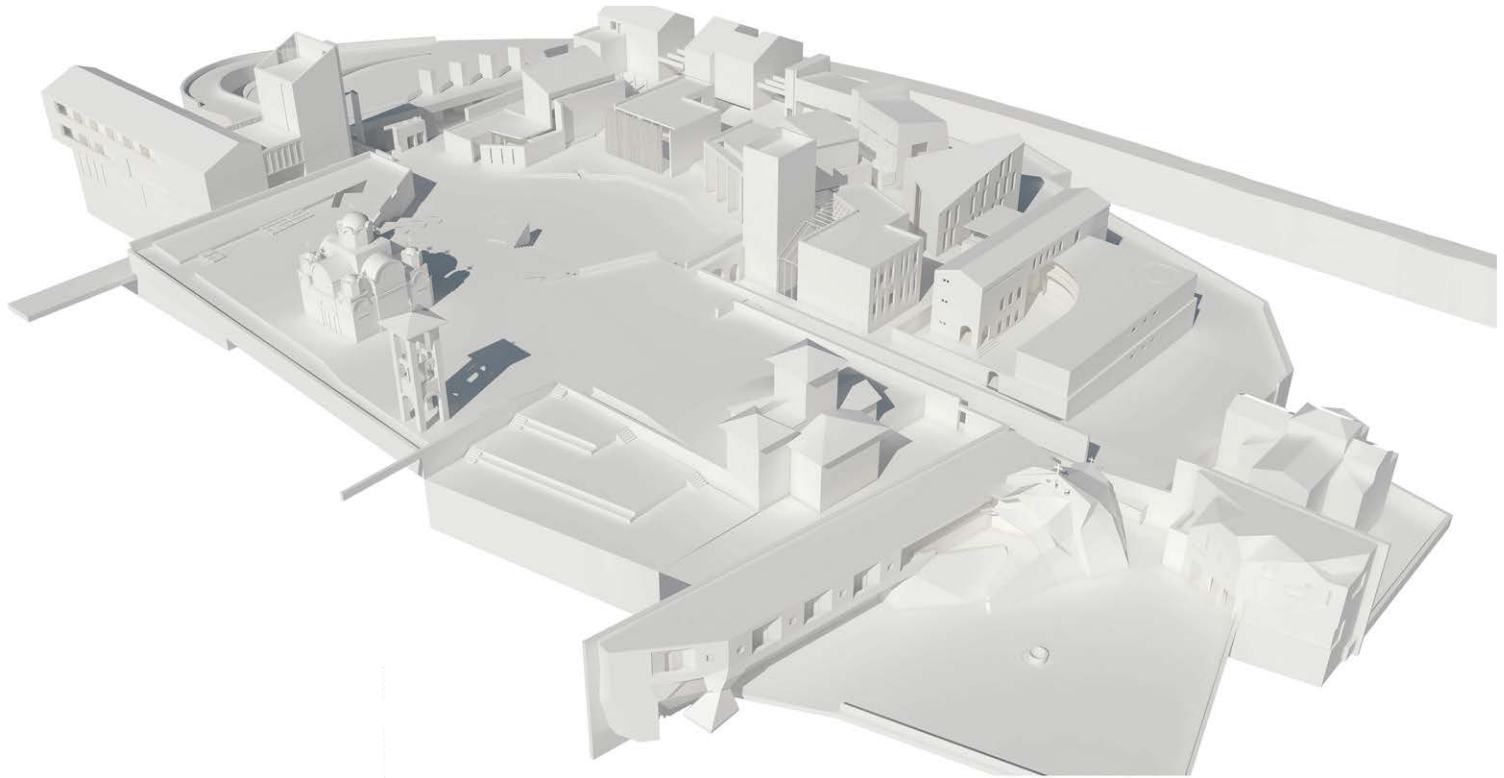
The urban theme is formulated as a relationship with a formative and semantic context of a location. This relationship can be divided into two units – short distance units (immediate context, i.e. the relationship of the of the constructed unit to the existing situation at the location itself), and the long-distance unit (the wider context, i.e. the relationship of the constructed unit to the wider environment – the old urban core of Trebinje, and the natural environment of the surrounding hills and mountains, above all Mount Leotar, as well as the field of Trebinje.)

The architecture of the complex will require dominant contemporary responses to a particular environment. The environment remains the main source of inspiration and guidelines for the design of the complex. The aim is to create architecture which will use a modern language to provide answers to specific local topics.

Stylistic and aesthetic values are derived from pre-set basic conceptual demands of architecture. The aesthetics stems from the local, which, in stylistic terms, can be bound to local architecture, local materials. The local implies both the stylistic elements of local architecture, as well as the local by itself, which is reflected in the location itself, nature and its resources.



01 INFRASTRUCTURE AND INVESTMENTS



Распоред маса



Шема комуникација

- подземни паркинг
- паркинг за аутомобиле
- пешачки прелази
- велосипедски прелази
- колективни саобраћај
- дистрибутивни саобраћај
- пешачке зоне
- зоне амбулантни саобраћај
- приступне стазе школа - вртића



Програмска шема

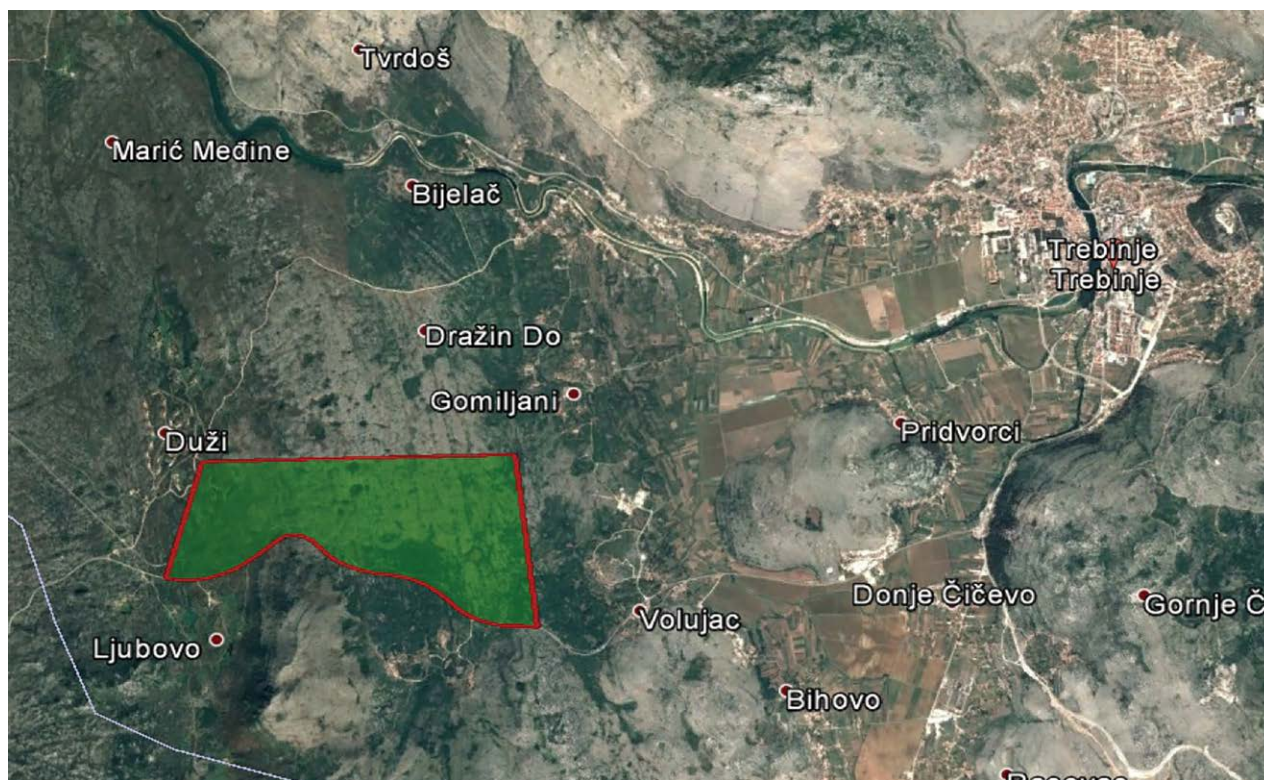
- објекти колективне заједнице
- симетричне колективне
- култура
- услуге - комерцијалне активности
- администрација
- образовне и рекреацијске
- зоне равнине саобраћаја
- приватна зона
- приступна зона



The parterre solution

- » P 1:333
- » The area encompasses: 2.7 hectares
- » The complex is made up of 14 facilities:
- » Culture and education: academy, theater, gallery, museum, kindergarten
- » Administration: town house, administration of the complex
- » Accommodations: hotel, apartment facilities
- » Catering: restaurant, confectionery, winery, wine cellars
- » Trade: stores, shops, markets, souvenir shops
- » Church complex: temple, the parish house, museum, spiritual academy
- » Approximately gross square meters of the complex = 12 000 m²
- » Parking: 20 open parking places, garage with 80 parking places

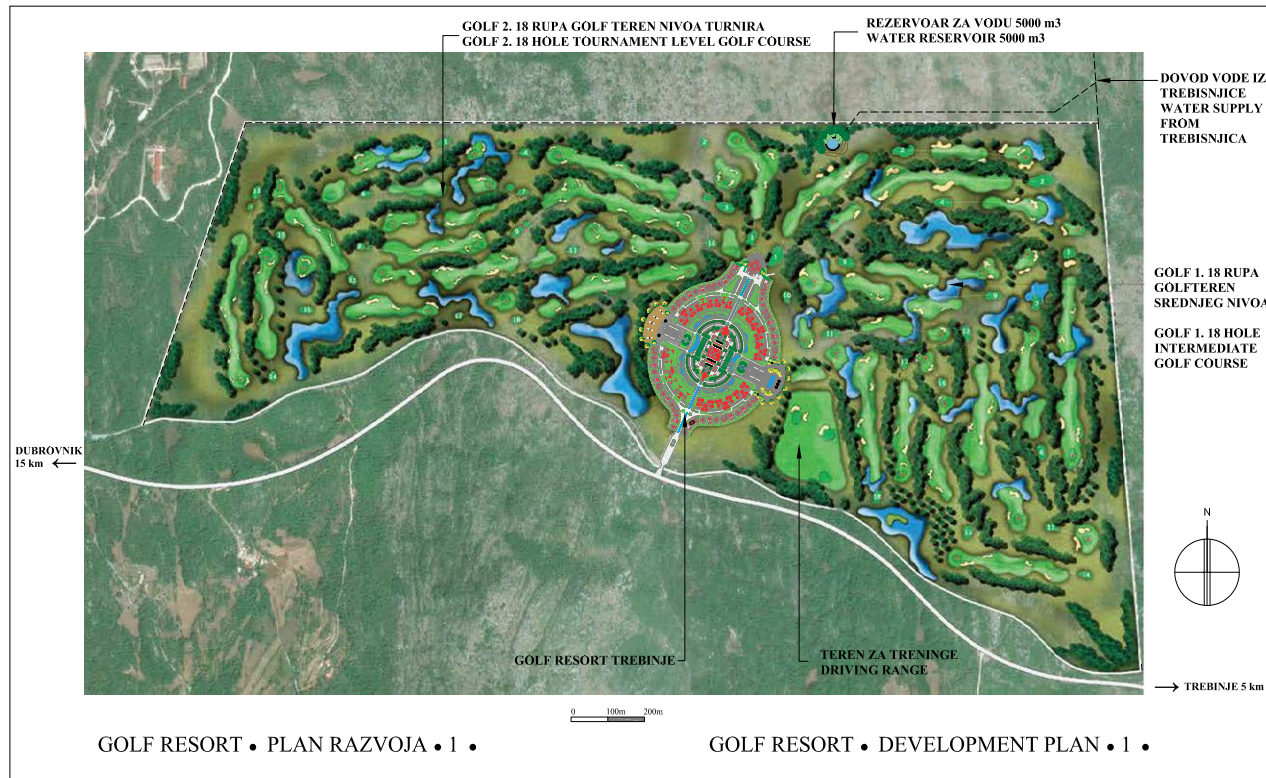




1.2.4. Golf courses

Complex of golf courses with accompanying facilities

- » Wider urban area of Trebinje, an attractive location of a total area of approximately 30 ha, right next to the highway leading to Dubrovnik.
- » Planned construction of an 18-hole tournament level golf course



- » Landscaping in accordance with the world standards, green areas of high and low vegetation, and bodies of water fed from the Trebišnjica River
- » Significant capacities with accompanying tourism facilities in the central part of the complex (an elite apartment resort, catering facilities)

01 INFRASTRUCTURE AND INVESTMENTS

- » Construction of a square with public spaces, a hotel and a clinic is planned in the central part of the complex
- » Construction of a golf club is planned in the periphery of the northern part
- » A complex of tennis courts with a tennis center is planned in the far western part
- » Construction of a swim center is planned near the eastern periphery of the complex
- » Within the central ring, formed by a network of urban vegetation, water surfaces and footpaths, an apartment complex is located. The outer ring zone is planned to be a zone of elite villas construction.



View of the complex from the air (3D visualization)



Западна обилазница

Источна обилазница

Мостар

Билећа

Дубровник

Требиње

Требиње

Подгљивље

Горица

Никшић

Требиње

Дубровник

Требиње

Дубровник

Требиње

Алексина Међа

Херцег Нови

Горње Ћићево

Доње Ћићево

Горња Коцела

806 m

Leotar
1228 m

Grkavica
684 m

Jasen

Kličanj
792 m

644 m

809 m

594 m

Бијоград /
Vijograd

Bihovo

Dolovi

M-6

M-20

M-6

R-426

M-20

M-20

Duži

Мостар

Љубово

Gomiljani

Dražin Do

Mostači

Zasad

Hrupjela

Trebinje

Police

Arslanagića
Most

Pridvorci

Volujac

Kralja Aleksandra

Niškički put

Билећки пут

nići

Mionići

aleža

Дубровник

K

8

M-6

Dolovi

1.2.5. *Eastern and western bypass in Trebinje*

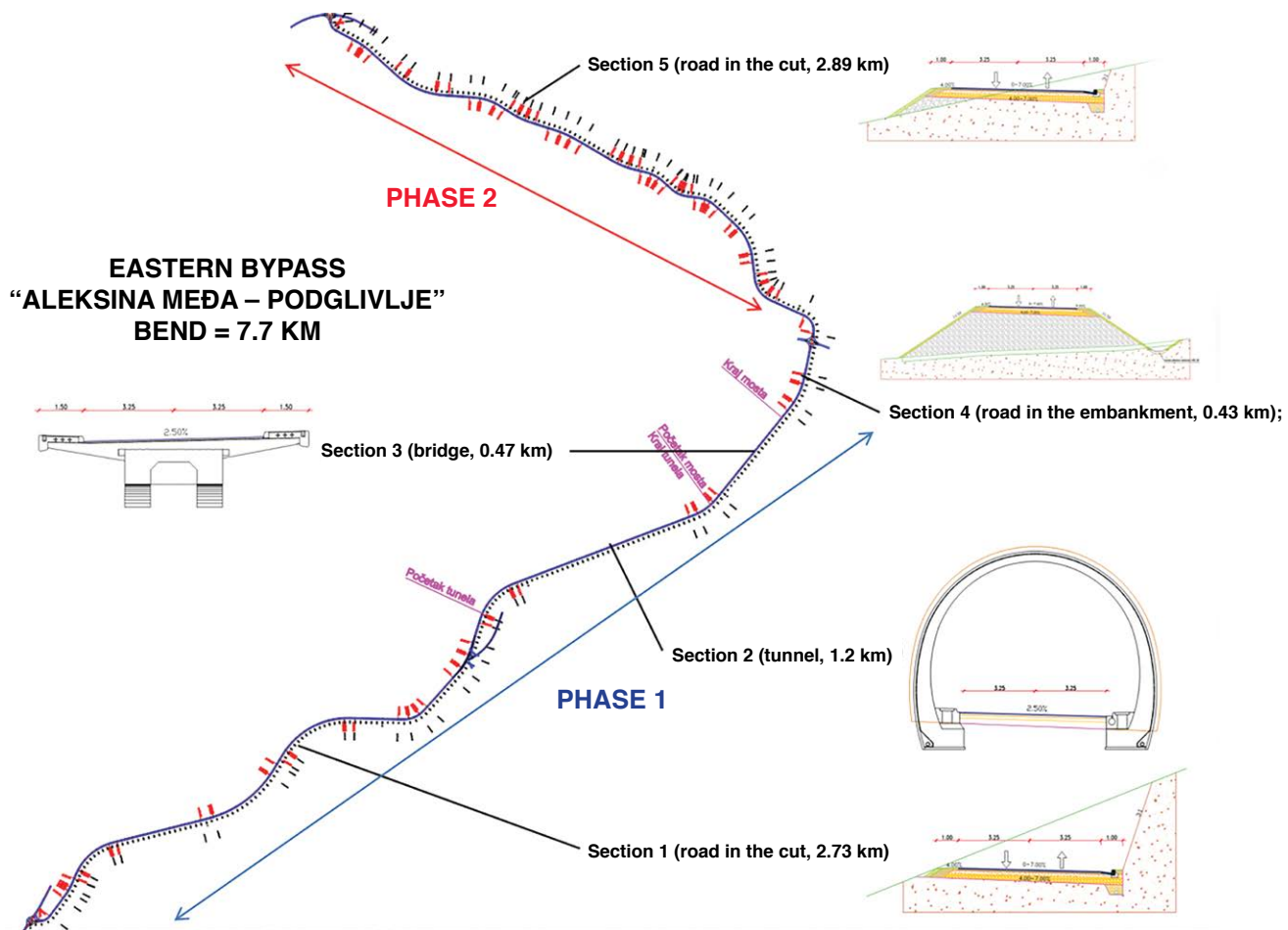
Eastern bypass

The main project “Eastern Bypass”, going from Aleksina Međa to Podglivlje, was drafted at the initiative of the City of Trebinje. The total length of the planned bypass is approximately 7.7 km, consisting of the following five sections:

- » Section 1 (the section in the cut from Aleksina Međa to Brankovića Kula), with the approximate length of 2.73 km.
- » Section 2 (a tunnel section from Brankovića Kula to the Trebišnjica River), with the approximate length of 1.2 km
- » Section 3 (a bridge over the Trebišnjica River), with the approximate length of 0.47 km
- » Section 4 (the section of the embankment from the Trebišnjica River to the road to Nikšić), with the approximate length of 0.43 km
- » Section 5 (the section in the cut from the highway to Nikšić to the highway to Bileća), with the approximate length of 2.89 km

- » The start of the eastern bypass is planned on Aleksina Međa (roundabout no. 1), connecting to the highway Trebinje – Dubrovnik. The bypass then crosses the road Trebinje – Nikšić in the settlement of Gorica (roundabout no. 2), and joins the highway Trebinje – Bileća (roundabout no. 3).
- » Consecutively with resolving property and legal issues, a phase construction of the bypass is planned:
 - Phase I: From Aleksina Međa to the road to Nikšić (Sections 1, 2, 3, and 4, total length of 4,81 km)
 - Phase II: From the road to Nikšić to the highway to Bileća (Section 4, total length of 2,89 km)
- » The largest part of the eastern bypass route which will be built in the first phase of the construction (Phase I) is located on the state-owned land (approximately 95%)
- » The total value of the eastern bypass is estimated to be 30-35 million KM, and it will be financed by:
 - Public company “Putevi Republike Srpske”
 - Public company “Hidroelektrane na Trebišnjici”
 - The City of Trebinje

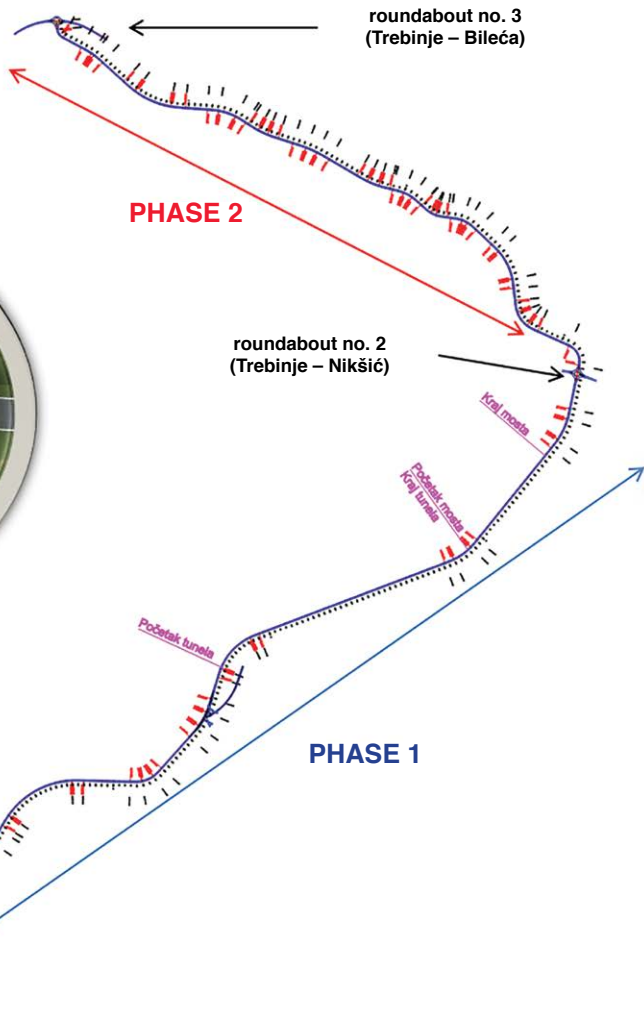
01 INFRASTRUCTURE AND INVESTMENTS



**EASTERN BYPASS
“ALEKSINA MEĐA – PODGLIVLJE”**



roundabout no. 1
(Trebinje – Dubrovnik)



Western bypass

In order to relieve the town of Trebinje of freight traffic, but also to connect the planned economic zones with the existing roads and to the town of Trebinje, the construction of the Western bypass is planned.

The total value of the Western bypass is estimated at 7 million KM, and it will be financed by the Public company “Putevi Republike Srpske” and the City of Trebinje.

The total length of the planned Western bypass is approx. 4.2 km, and it consists of the following two sections:

- » Section 1 (from the highway to Dubrovnik (monastery Duži) to the main road to Mostar (Marić Međine), approx. 4 km long.
- » Section 2 (bridge over the Trebišnjica River), length approx. 0.2 km

With the construction of the Eastern and Western bypass, the City of Trebinje would fully solve the problem of traffic connections between all of its existing and planned urban areas, but it would also relieve the city center of freight traffic.



1.2.6. Airport Zupci

Introduction

Trebinje is the center of East Herzegovina.

The importance of the proximity of the Parish of Dubrovnik (EU) and the coastal areas of Montenegro gives this region special importance.

The construction of the airport would provide a stronger momentum in the tourism-oriented economic sectors.

The construction of the airport would encourage the development of agriculture by offering transport opportunities for export to foreign markets.

Possibilities

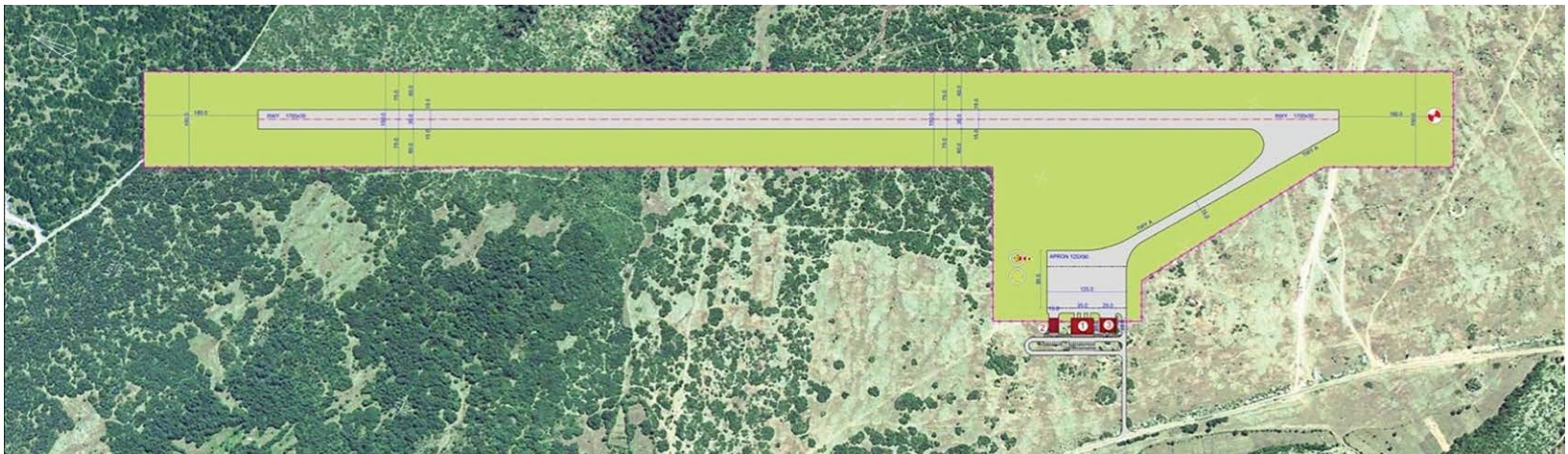
- » Development of tourist charter flights (tourist marketing being the key factor on the market)
- » Signing contracts with low-tariff carriers
- » The interest of neighboring markets for cooperation, above all the region of Dubrovnik, Herceg Novi and Igalo
- » Alternative to the Dubrovnik airport
- » Attracting international cargo-carriers
- » Achievement of free trade zone

Investment cost evaluation (Phase I)

- » It is necessary to build an airport that could be used for all sports aircraft activities, air-taxi transport using airplanes with the capacity of up to 12 passenger seats, for conducting the flights of business aviation, and for conducting transport in the regional air traffic using airplane with the capacity of up to 50 passenger seats (aircrafts with a wingspan of up to 32 m).
- » The airport must be built in accordance with the standards and recommendations for the airport code 2B/C.
- » The estimated value of investment is based on the adjusted value of a 1700x30 m runway, inclined taxiway for the PCC connection with a 125x90 m terminal platform (with two parking positions for the relevant airplanes and five parking positions for the general-purpose airplanes), platforms for storing the equipment of airport services in front of the technical facility and with all the necessary access and internal roads and parking lots.
- » Phase II involves the construction of a 2800 m runway, which enables air traffic for all kinds of passenger and freight aircrafts.

Investment cost evaluation (Phase I)

- » Also, this assessment also covers facilities in the terminal complex, such as: terminal path – passenger, a technical wing with a control tower and a technical building.
- » The following equipment of airport services was not included in the estimated investment: fire trucks and firefighting resources of the fifth category, emergency medical assistance and the supply tank for providing the airport with fuel.



Summary table of investments

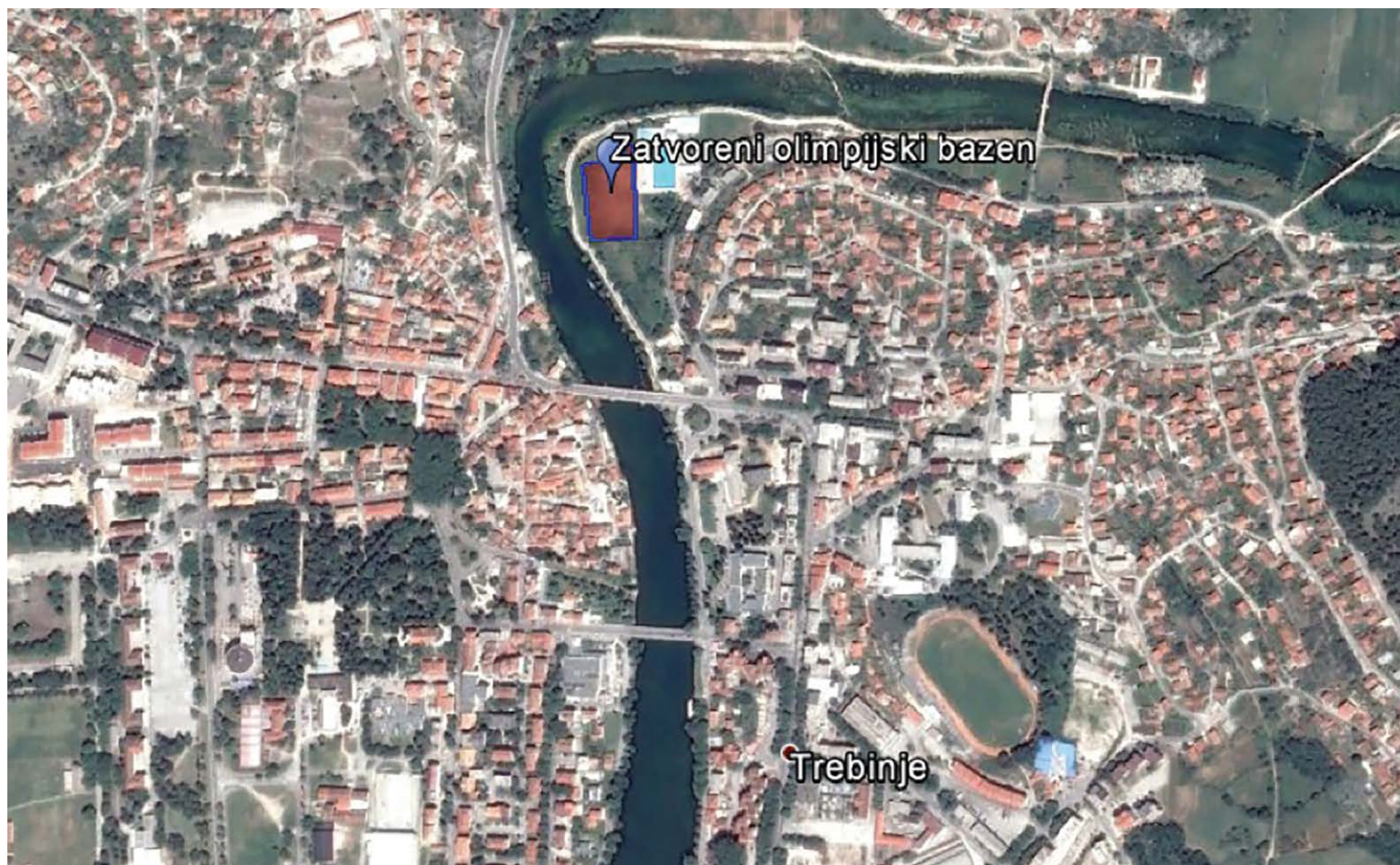
	The price of technical documentation	Price of construction or procurement of equipment	Total investment
Previous works (geodetic surveys and geotechnical investigations)	60 000 €	/	60 000 €
Construction of civil engineering structures (maneuvering areas for aircraft movement and access roads with parking lots)	135 000 €	3 375 000 €	3 510 000 €
Work on the construction of the power supply system, the system of light markings and facilities in the airport terminal complex	70 800 €	3 540 000 €	3 610 800 €
Navigation equipment – VOR / DMI	44 000 €	1 100 000 €	1 144 000 €
Meteorological systems	/	25 000 €	25 000 €
Water supply, sanitation and telecommunications	18 690 €	623 000 €	641 690 €
Construction of the facilities of the complex for reception and dispatch (control tower, terminal, hangar)	91 260 €	2 281 500 €	2 372 760 €
Equipment for the reception and aircraft equipment	/	540 000 €	540 000 €
TOTAL	419 750 €	11 484 500 €	11 904 250 €
INVESTMENT			11 904 250 €



микро локалитет будућег аерордрома Требиње

Summary

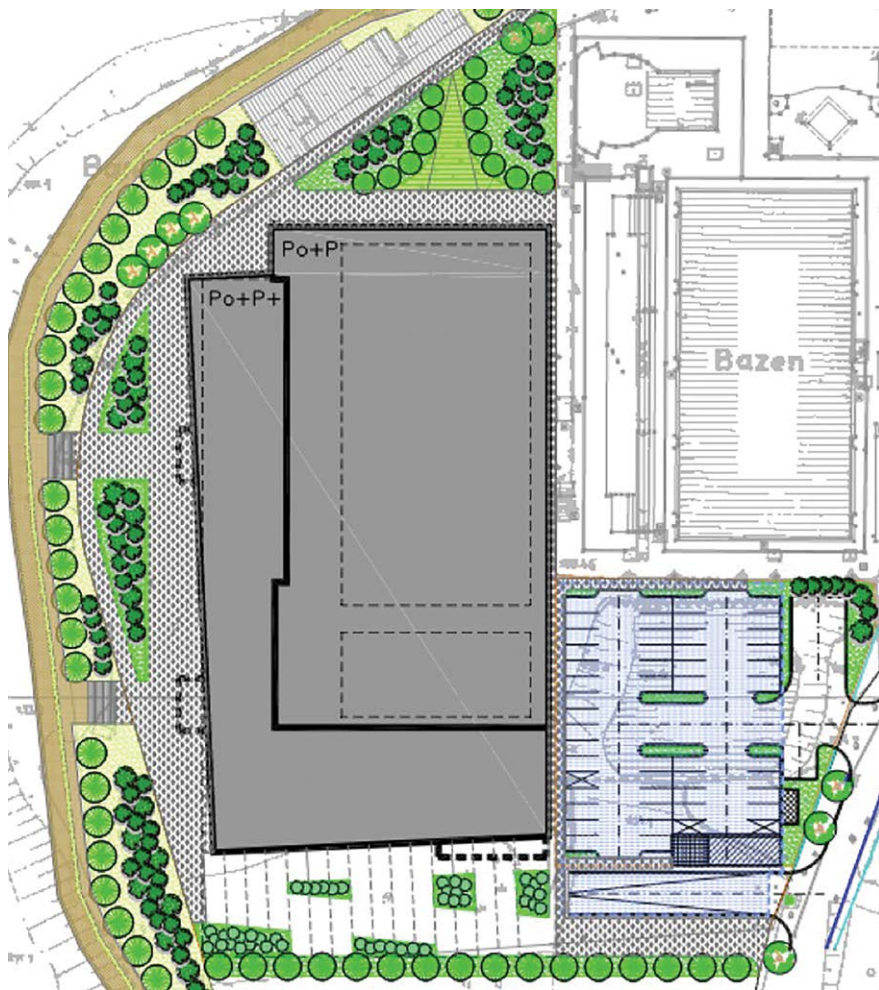
- » Image description: Micro site of the future airport Trebinje
- » Preliminary analysis of the conditions and possibilities for the construction of an airport in Trebinje is based on the historical facts which indicate that in the past the site of Zupci already had an airport.
- » The air transport sector could compensate for the deficiencies in the transport infrastructure and accelerate the pace of utilization of tourism favorable region of Eastern Herzegovina.
- » The attractive geographical location of the future airport is not only a convenience for the development of tourism, but also other for industries such as the transport sector, agriculture, handicraft industry and the like.



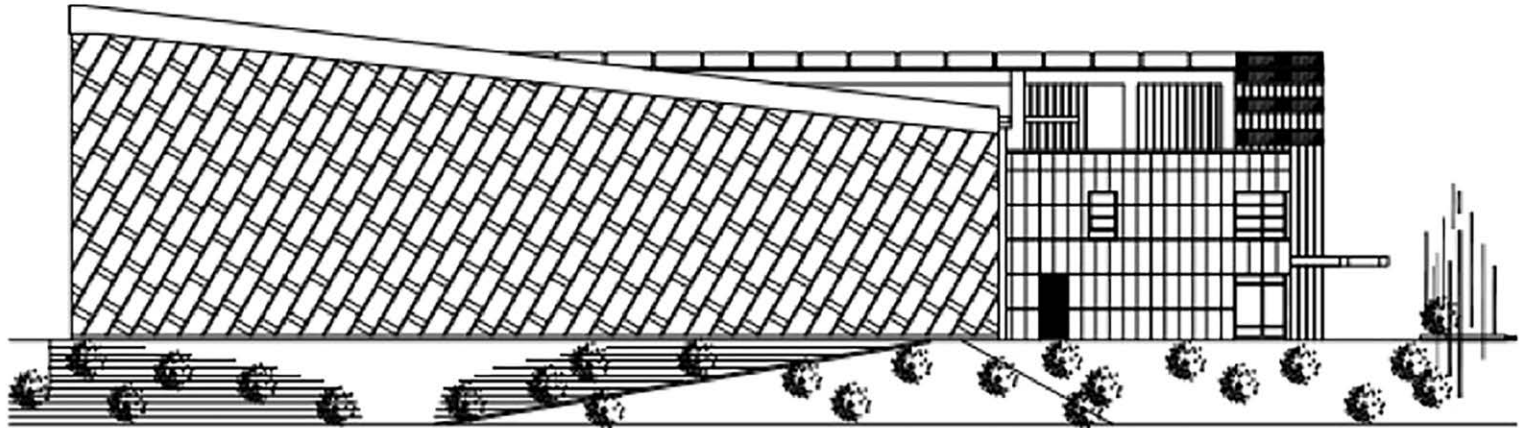
1.2.7. *Indoor Olympic pool in Trebinje*

Introduction

- » At the initiative of “Hidroelektrana na Trebišnjici”, the construction of an indoor Olympic pool started in Trebinje this year.
- » The pool complex is located at the Abazovina site, within the sports-recreational center “Banje”, directly by the existing complex of the open pool.
- » This project is fully in accordance with the existing Urban plan of the City and the Regulation plan Abazovina.
- » The total useful area of the facility is approx. 10 000 m². The indoor swimming pool will contain two pools on the ground floor: a greater, Olympic-sized one, measuring 50x50 m, and with the depth of 2.2 m, and a smaller one (for warming up) measuring 25x10 m and with the depth of 2.2 m, as well as other accompanying facilities (dressing room, gym, wardrobe, rooms for judges / delegates, conference room, restaurant, bathrooms, sauna, indoor / underground garages and outdoor / above-ground parking).
- » The facility will be built to the latest standards, using more traditional to modern materials (stone, glass, steel...) as well as the norms of energy efficiency.
- » The indoor swimming pool will meet all the standards for holding international sports competitions in water sports.

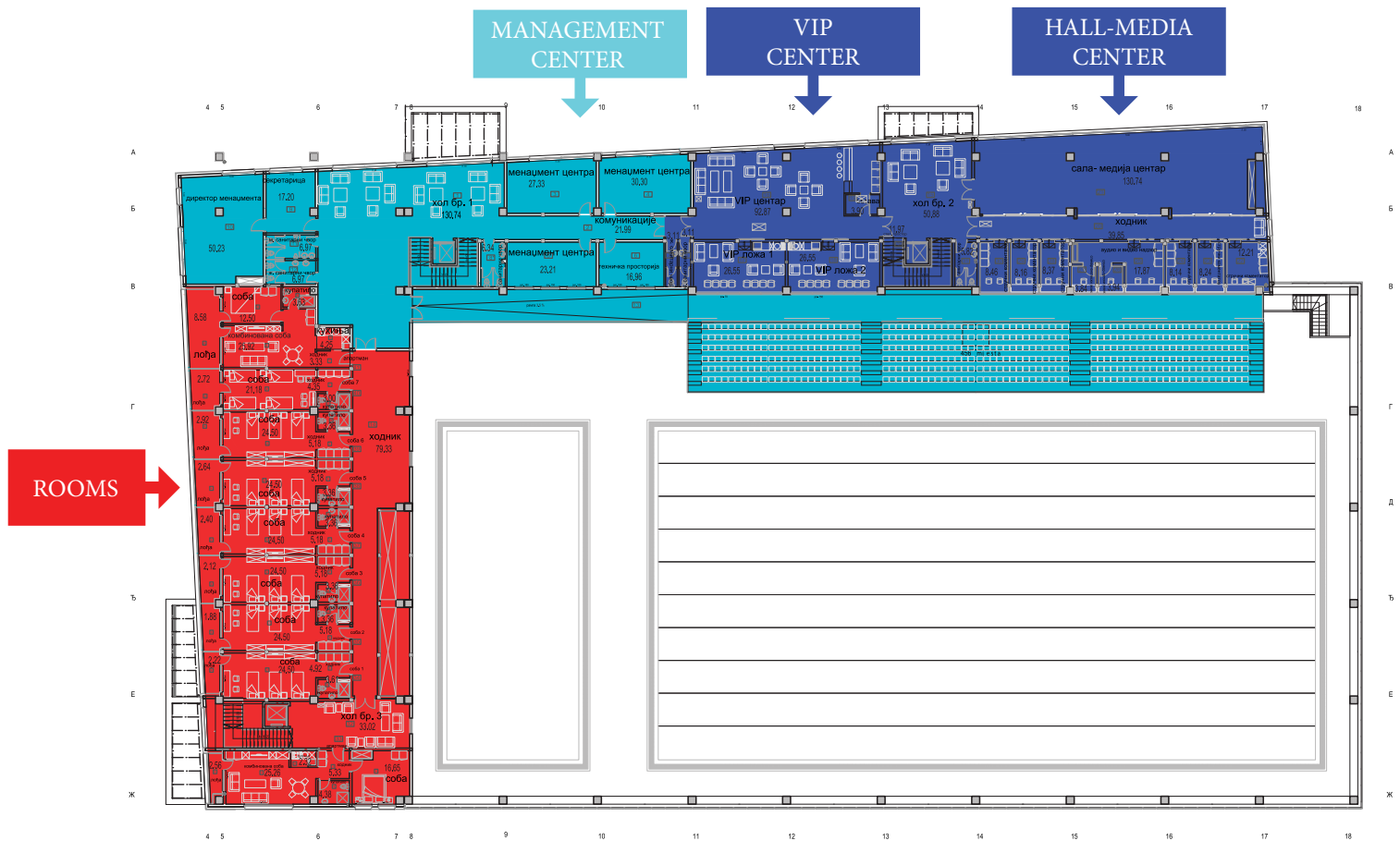


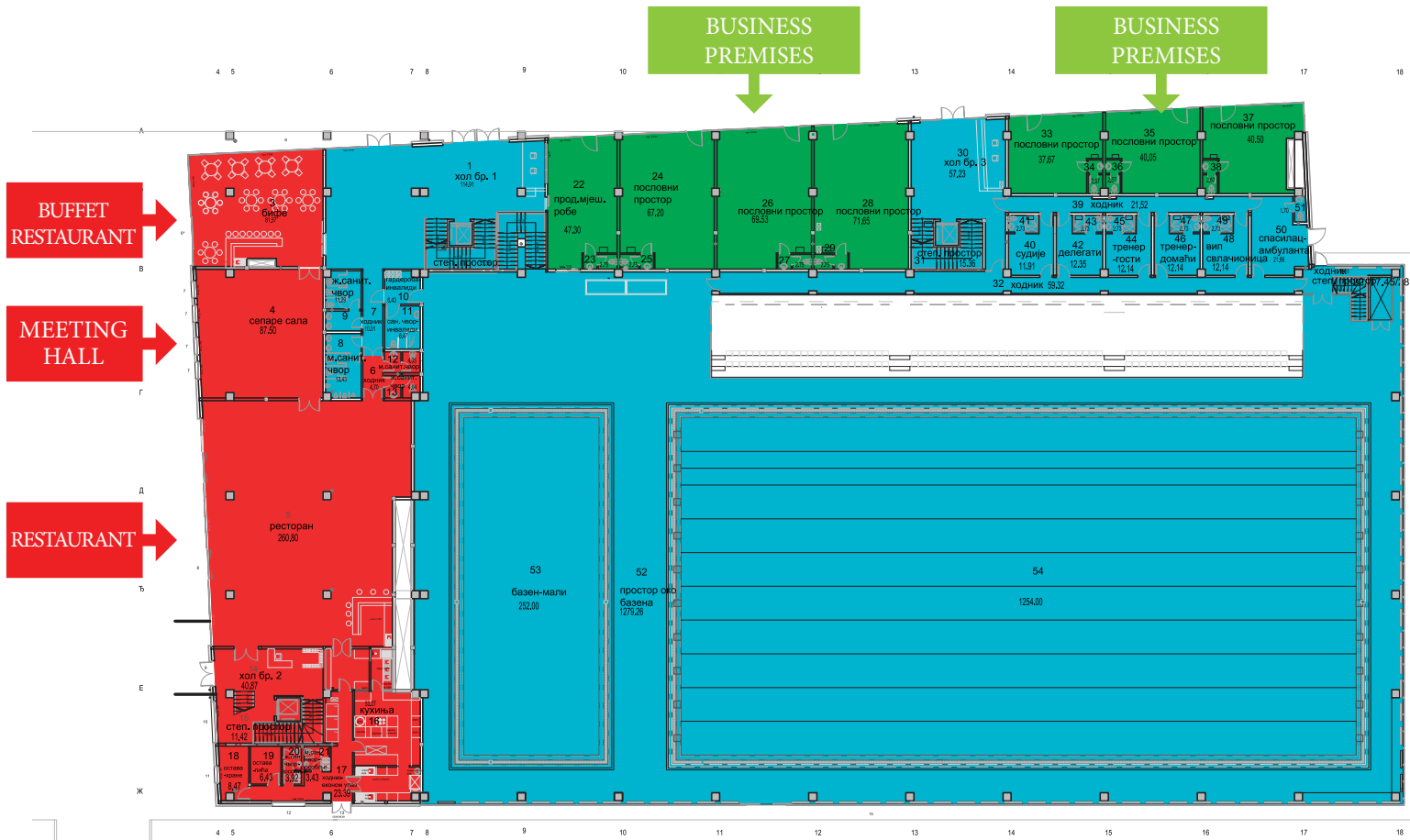
- » The foreseen number of floor of the building are Po+Pr+1, with a building plot of approx. 54.50 m by 107.00 m.
- » The plan has several interconnected sections. Spatially, the units are placed around the pool, and connected vertically (by stairs and elevators) on each floor (basement, ground floor, first floor), and can function independently as needed.
 - Section 1 – hall no. 1 or the main entrance for the general population, spectators;
 - Section 2 – hall no. 2 or entrance for officials, journalists, the press and athletes;
 - Section 3 – hall no. 3 or entrance to the restaurant and apartments.
- » A phase construction of the facility is planned. The total contract value for the construction of the first phase of the facility is approx. 10.2 million, while the procurement and installation of the remaining devices and equipment is planned in subsequent phases.



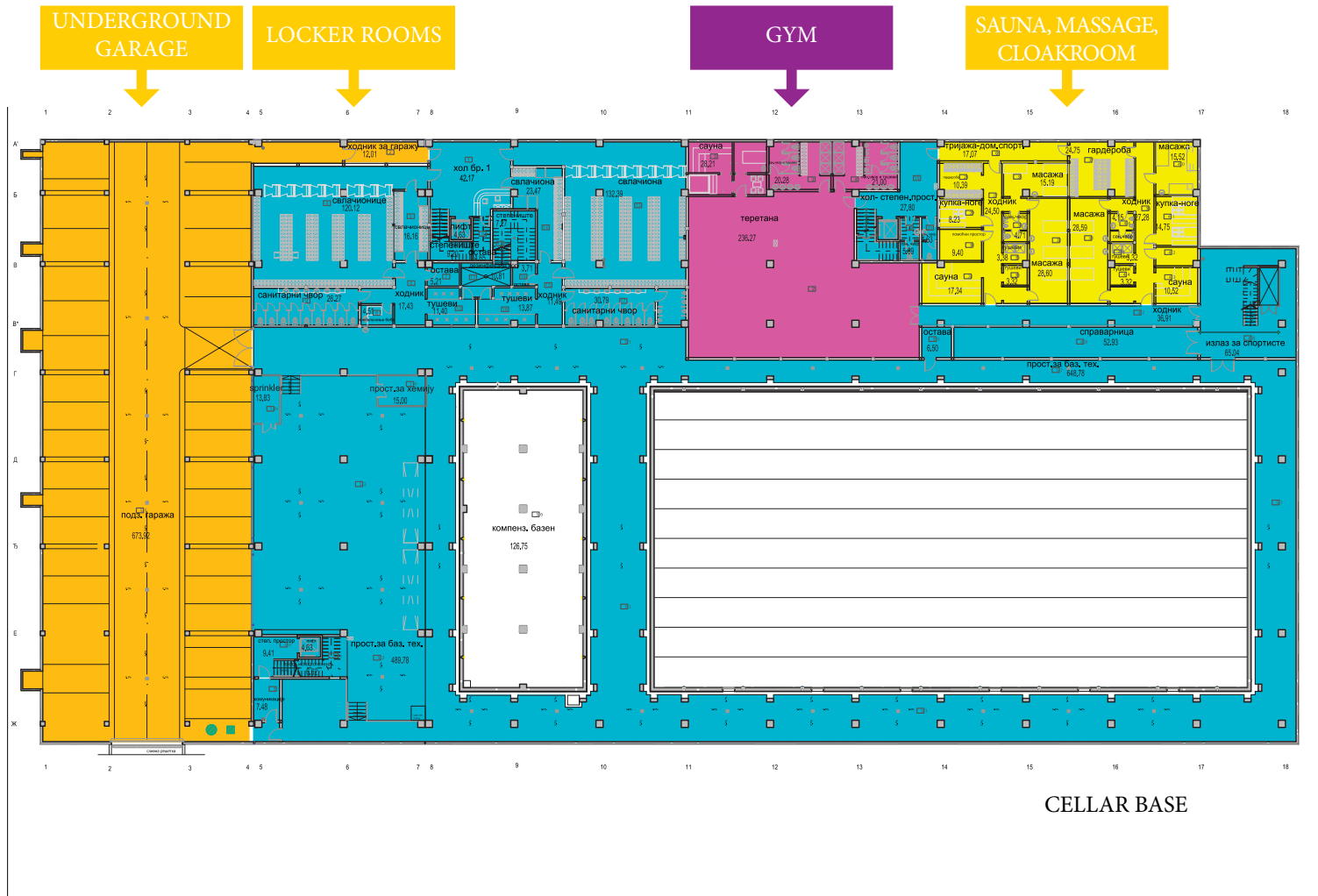
The look of the facade

01 INFRASTRUCTURE AND INVESTMENTS





01 INFRASTRUCTURE AND INVESTMENTS

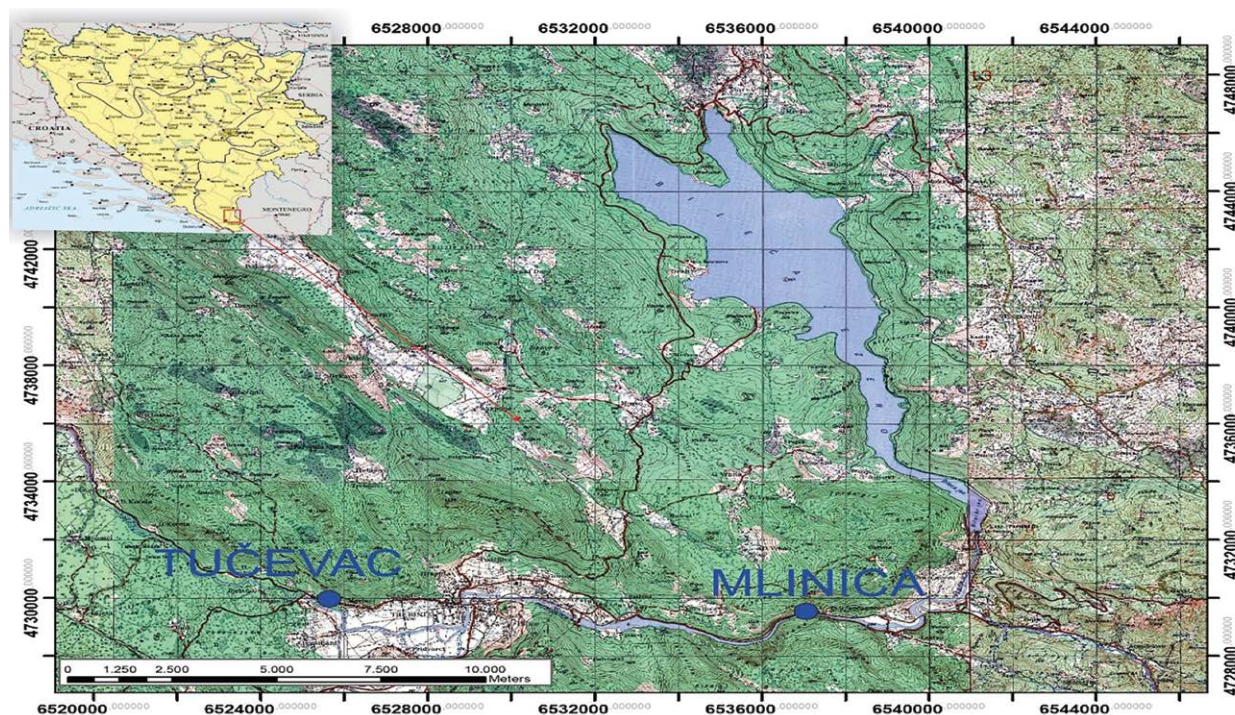


- » The construction of the indoor Olympic swimming pool will fulfill the conditions laid down in the water permit, i.e. allow swimming and recreation on the water sportsmen and citizens throughout the year.
- » The primary objective of this project is to meet the long-awaited aspirations for the necessary capacity to meet the needs of both the population and the ambitious and talented athletes of Trebinje and the entire Eastern Herzegovina.
- » The construction of the indoor swimming pool will enable the development of all water sports, and provide multiple benefits, as for numerous sports clubs, as well as for amateurs in Trebinje, Eastern Herzegovina and the region.
- » Upon completion of this facility, Trebinje will become a regional and development center of swimming and water sports, and will house the following dedicated complexes: indoor and outdoor swimming pool, bathing resort and aqua park in the City of the Sun.
- » Also, the Trebišnjica River, the artificial lakes Trebinjsko and Bilećko, as well as the proximity to the sea add to the potential of the City of Trebinje for the development of water sports (swimming, kayaking, canoeing, fishing, water recreation etc.)
- » Due to the construction of the indoor pool in phases, the investor has the opportunity to further adjust the contents of this facility to their needs, i.e. to develop some new features with which they could further improve the sports, recreational and tourist offer of the City of Trebinje.

1.2.8. *Factories of fresh water*

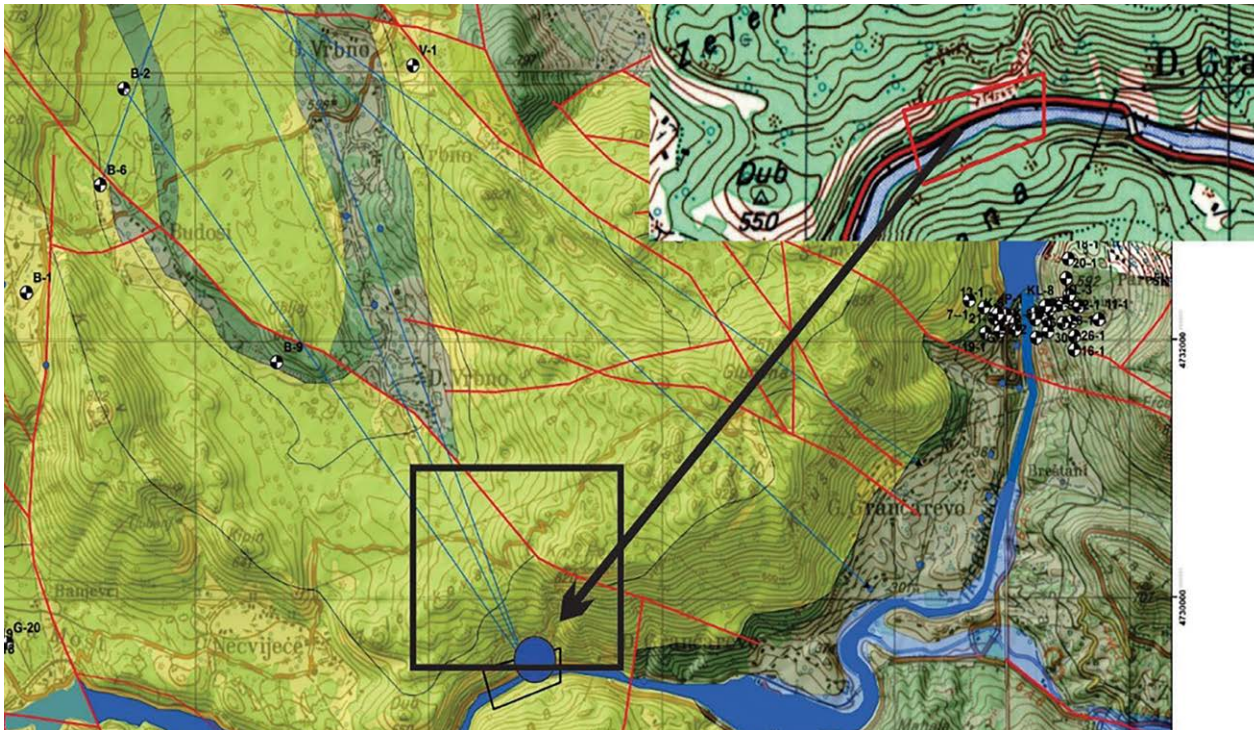
Introduction

- » There are several sources of fresh and technical water in the area of Trebinje, of which the most important are the well spring Mlinica and the karst spring Tučevac.



The well spring Mlinica

The well spring Mlinica, i.e. the hinterland of the spring, as an intact ecological oasis has all the pre-requirements for capping of clean underground water for the purpose of its bottling.



01 INFRASTRUCTURE AND INVESTMENTS



After the construction of Gorica dam, the main source channel of Mlinice spring was sunk, but the outflow can now be monitored in cave Mlinice, in which the water yield was around 5 l/s in periods of extremely low water levels.

Estavelle – karst spring Tučevac

- » The channel of the occasional spring Tučevac at Dražin dol has been investigated through cave-diving, for the length of about 250 m. It is an immersed sub-horizontal channel at a depth of approx. 30 m in relation to the level of entry. The cross-section of the channel is relatively large in size, having a width of about 10 m and height of about 3 to 4 m. The height of the channel is much smaller locally. The final length of the siphon hasn't been determined.
- » A color tracing experiment has demonstrated that there is an underground connection to the Ljubomirsko polje, which is a pre-requisite for the extraction of significant amounts of high quality water (especially during the periods of low water).
- » It is assumed that with the regulation of karst aquifers, the Tučevac spring would receive significant amounts of underground water needed for water supply, as well as technical water for irrigation, swimming pools, water parks and the like.



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Генерални медијски покровитељи:

