



**PROVENTUS**team



# PROVENTUS team

PROVENTUS is an association of designing and engineering companies. We are covering the whole process of construction design and also, where necessary, we cooperate and include executive companies for needed segments.

Members of Proventus Team:

Promico Ltd., BPI Ltd., IPSA Ltd., Arhitektura Ltd., Dia Ltd., Legada Ltd. and SPIT Ltd.

Lately saw majority of our consortium members focusing their efforts mostly on the motorway structures in Slovenia, where we prepared designs and carried out construction supervision.

We have always been actively involved in the design of the existing Slovenian primary road network reconstructions as well as with the design of the extension of the Slovenian railway infrastructure.

In the last years, we have been active also internationally, mostly in Bosnia and Herzegovina, Serbia, Croatia, Albania, Bulgaria, Romania, Italy and Libya, performing designs, design revisions, technical consulting and supervisions of all types of construction projects.

PROVENTUS team has more than 200 employees, among them there are more than 100 engineers who offer designs for road, motorway and railway sections as well as for all types of buildings, sports facilities and waste water treatment plants.

In PROVENTUS team we believe in logical-rational, innovative, and high-quality solutions. Pursuing those principles and the use of modern technology enables optimum execution of the structures and makes them sustainable as well as harmonious and visually appealing.

Seeking new challenges, we have tried our luck at engineering projects which we see as an upgrade and added value of our core services. Based on our previous experience with design & build projects, we are keenly aware that customers prefer to deal with a single provider of services.

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Co-manager:  
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# PROVENTUSteam

Arhitektura d.o.o.



# BPI Ltd.



BPI Llc. (BPI d.o.o.) was established in Maribor, Republic of Slovenia in 1990. The founders were expert engineers who wanted to push the road and infrastructural design to a higher level. The company made a huge leap forward with the introduction of C-Plan road designing software; it was the first engineering company in Slovenia that used CAD software for road design.

In 1998 we made the 100 fastest growing companies of Slovenia list (Gazelle), as highest ranking civil engineering company that makes its revenue solemnly with project design, project management and auditing.

BPI Ltd. was among the first engineering companies in Slovenia to start using the roundabouts as a part of a solution to increase safety and reduce the number of conflict points at intersections. Years later, we are the pioneers in introducing improved 2 lane turbo roundabouts to Slovene public.

The BPI Ltd. currently employs 12 highly skilled civil engineers and administrative personnel, with additional 3 students of civil engineering employed as trainees. We work closely together with other renown engineering companies in Slovenia and abroad to provide best solutions for motorway, road, bridge, environmental and infrastructural design.

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Manager: Milivoj Ročenovič

Employees: 10

# Main References

Some of our larger reference projects:

- Motorway Maribor – Hungarian border section  
Section Lenart – Cogetinci
  - subsection: Lenart – Sp. Senarska
  - subsection: Sp. Senarska – Cogetinci
- Motorway Koper – Lendava, section Beltinci – Pince,
  - subsection: Beltinci – Lendava
  - subsection: Lendava – Pince with expressway connection onto Dolga vas
- Motorway section Pesnica Slivnica
- Regional road R3-705
  - section : Ruše - Puščava
  - subsection: Ruše
- Regional road R2-424
  - section : Boštanj – Sevnica - Planina
  - subsection: Sevnica – Planina
- South and West Maribor main bypass road
- Road Koman-Fierze in Albania
- Electrification and reconstruction of railway Pragersko – Hodoš
- Motorway section Draženci – Gruškovje
- Roundabouts and turbo roundabouts

# Motorway section: Lenart - Cogetinci

Motorway: *Maribor - Hungarian border*  
 Section: *Lenart - Cogetinci*  
 Subsections: *Lenart - Sp. Senarska 7,2 km*  
*Sp. Senarska - Cogetinci 9,5 km*  
 Total length: *16,7 km*  
 Design: *Preliminary, main and executive*  
 Built: *2009*  
 Client: *DARS (Motorway Company in the R. Slovenia)*

- Motorway route, normal cross-section 21,20 m, length 16,7 km
- interchanges Lenart, Senarska, Cerkvenjak
- 45 road deviations in total length of 20,5 km
- noise barriers 740m
- 8 bridges, overall length of 125,00 m
- 6 underpasses, overall length of 183,40 m
- 4 overpasses, overall length of 579,76 m
- 2 wildlife crossing in length of 67,40 m
- 36 road culverts in overall length of 968 m
- 2 retaining constructions in overall length of 224,5 m and max. height of 10,5 m
- 1 cut and cover structure in length of 252,0 m
- 1 tunnel Cenkova in length of 362,0 m

The Maribor - Hungarian border Motorway is a part of the 5th European corridor and It is split into 7 sections : Maribor – Lenart, (7,8km), Lenart – Cogetinci (16,7km), Cogetinci – Vučja vas, Vučja vas – Beltinci , Beltinci – Lendava–Pince (25,3km) – Hungarian border.

The section Lenart – Sp.Senarska - Cogetinci with length of 16,7km includes 3 interchanges, deviation of 45 local roads, tunnel Cenkova (362m), 26 bridging structures, retaining structures in total length 2100m, noise barriers and a lot of regulations of watercourses.



## Motorway section: Beltinci – Pince

Motorway: *Koper - Lendava*  
Section: *Beltinci - Pince*  
Subsections: *Beltinci - Lendava 17,8 km,*  
*Lendava - Pince 7,5 km*  
Section length: *25,3 km*  
Design: *Preliminary, main and*  
*executive*  
Client: *DARS (Motorway Company in*  
*the of Slovenia)*

- Motorway route, normal cross-section  
21,20 m, length 22,3 km
- Expressway 3,0 km
- 4 interchanges with roundabouts
- 2 motorway junctions
- 42 deviations in overall length of 41,5 km
- 9 bridges in overall length of 212,65 m
- 10 overpasses in overall length of 1037,77 m
- 3 wildlife overpasses in overall length of 180,0 m
- 1 overpass for livestock
- 9 underpasses for amphibians in overall length of 270,0 m
- Toll station Banuta with 8 toll gates (lines)

The Maribor - Hungarian border Motorway is a part of the 5th European corridor and It is split into 7 sections : Maribor – Lenart, (7.8km),Lenart – Cogetinci (16.7km), Cogetinci – Vučja vas, Vučja vas – Beltinci , Beltinci – Lendava–Pince (25.3km) – Hungarian border.

The section Beltinci – Lendava - Pince with length of 25.3 km, of which 3.0 km is expressway, includes 4 interchanges, deviation of 42 local roads, 32 bridging structures, retaining structures, noise barriers, barriers for amphibians and regulations of watercourses.



# Motorway section: Slivnica - Pesnica

Motorway Slivnica - Pesnica presents the city of Maribor's eastern bypass. Because of that role, there are several interchanges present on its route, one of the more notable is Pesnica interchange, constructed as a two lane roundabout with a viaduct over it. Due to demanding geological conditions, a lot of various retaining structures are included in this section.

Section: *Slivnica - Pesnica*  
Section length: *17.2 km*  
Design: *Preliminary, main and executive*  
Built: *2010*  
Client: *DARS (Motorway Company in the of Slovenia)*

- 5 interchanges
  - 1 toll station
  - 1 Tunnel (total length 225 m)
- Structures:
- 7 Viaducts (total length 1631 m)
  - 1 Gallery (total length 185 m)
  - 3 Bridges (total length 800 m)
  - 5 Overpasses (total length 250 m)
  - 1 Railway overpass (total length 25 m)
  - 7 Underpasses (total length 205 m)
  - 13 Culverts (total length 242 m)
  - 2 Anchored pile walls (total length 300 m)





# Main Bypass road MARIBOR SW

The western Maribor 4 lanes bypass was designed and built in three stages, with combined length of 5 km and with many interchanges and structures such as overpasses, underpasses, bridges and cut & covers. The construction started in 1994 and lasted till 2009.

Built: *Phase 1 – 1996*  
*Phase 2 – 2005*  
*Phase 3 – 2009*

## Phase 1:

- 1,8 km main bypass road
- 1 roundabout
- bridge Koroški most length 135m
- 1 overpass

## Phase 2

- 1.6 km main bypass road
- reconstructed city streets 1,6 km
- 5 roundabout
- bridge Koroški most length 135m
- 2 interchanges
- underpass Galerija Studenci
- footbridge Iztokova ulica

## Phase 3

- 1,0 km main bypass road
- deviations 0,5 km
- 2 roundabouts
- bridge over Pekarski potok
- 4 underpasses under Lackova c. roundabout



1990 - 2010

Mlinska ulica 32, SI-2000 Maribor / [www.bpi.si](http://www.bpi.si)

# Regional road RUŠE

Regional road Ruše - Puščava also called Mariborska and Falska road is a connecting road. It passes through the centre of Ruše and its suburbs. It was built in 2 phases with total length of 2200 m.

Regional road R3-705

Section: *Ruše - Puščava*

Client: *Municipality of Ruše*

Reg. road: *2,2 km*

Main and executive design for:

- regional road route
- roundabouts
- deviations of categorized roads
- deviations of un-categorized roads
- traffic equipment
- bridges
- overpasses
- underpasses
- retaining walls



# Roundabouts and turbo roundabouts

Roundabouts contribute a great deal to traffic fluidity and safety, but still the biggest problem of a regular two lane roundabouts are numerous conflict points of crossing traffic.

The turbo roundabout provides a spiral flow of traffic, thus requiring users to choose their direction before entering the roundabout. By eliminating many conflicting paths and choices on the roundabout itself, traffic safety is increased, as well as speed, and as a result, capacity.

Roundabout  
Ruška vrata

Turbo roundabout on  
Western Maribor bypass



Roundabout Rogaška

Two lane roundabout on  
Pesnica – Slivnica motorway



# Koman – Fierza Nacional transit road Albania

This road is a part of the Monte Negro – Shkoder – Bushat – Tropoje - Kosove road and is an important artery of the national network, connecting a large region of touristic and economic potential, as well as the northeast regions of Albania with the northern neighbour, Monte Negro. The road is located in a mountainous area, just above the lake Koman. Because of the demanding morphological conditions a lot of bridges, viaducts and retaining structures must be built.

## Preliminary design

From 3 variants, Red corridor was selected with total length of 55 km and estimated construction cost of 263 million €



# PROMICO Ltd.



PROMICO Ltd. company was founded in 1992. The first decade of the 21 century saw the company focusing its efforts mostly on the motorway structures in Slovenia, where we prepared designs and carried out construction supervision.

We have always been actively involved in the structural design of new spanning and retaining structures as well as the reconstruction of existing bridges in the Slovenian primary road network. We have also worked on the extension of the Slovenian railway infrastructure designing new bridging structures. In the last five years, we have been active also internationally, mostly in Bosnia and Herzegovina and Libya, making designs, design revisions, technical consulting and supervisions of engineering structures.

We design and offer revisions, supervisions, technical consulting and engineering for all types of civil engineering structures. We specialize in the design of spanning structures such as bridges, viaducts, overpasses, footbridges, underpasses, galleries, cut&cover structures as well as various geotechnical and retaining structures. In cooperation with our partners, we offer the above mentioned services for the entire projects for road, motorway and railway sections as well as for all types of buildings and sports facilities.

In Promico, we believe in logical-rational, innovative, and high-quality solutions. Pursuing those principles and the use of modern technology enables optimum execution of the structures and makes them sustainable, easy to maintain as well as harmonious and visually appealing.

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# Main References

- Reconstruction of railway junction Pragersko, JV leading partner, 2016
- Reconstruction of railway junction Pragersko, 6 underpasses, 15 bridges, 2016
- Reconstruction of viaduct Ravbarkomanda on MW section Unec-Postojna, 2016
- Structures on MW Jagodje-Lucija; viaduct, 2 overpasses, 2 underpass; 15 retaining structures; 2014-16
- Structures on Libyan primary road network; 4 footbridges, reconstruction of 4 viaducts; 2013
- Structures on MW Zviroviči –Kravice in BIH; 1 viaduct 2012-2013
- Bridges on railway section Pragersko – Ormož; 5 railway bridges, 2 pedestrian underpasses; 2010-11
- City bridges over Ljubljana in Ljubljana; 2 bridges, 2009-2011
- Review of Final designs for 30 structures on Slovenian primary road network 2009-2016
- Review of Final designs for 12 structures on Slovenian railway network 2009-2013
- Underpass on primary road in Kosovo, 2009
- Footbridge on principal road in Smlednik, 2009
- Review of Final designs for 70 bridging structures on corridor Vc MW project in BIH; 2008-2013
- Structures on MW section Pluska – Ponikve; 2 viaducts, 4 overpasses; 4 retaining structures; 2008-2012
- Bridges on MW section Ponikve-Hrastje; 1 viaduct, overpass, 3 underpasses; 2008-2010
- Structures on MW section Lešnica-Kronovo; 2 viaducts, overpass, cut&cover ; 2007-2009
- Retaining structures on MW section Zrkovska – Pesnica; 2 Anchored pile walls; 2007-2009
- Structures on MW section Hrastje-Lešnica; viaduct, cut&cover, overpass, 5 anchored structures; 2006-2008
- Structures on MW section Cogetinci–Vučja vas; viaduct, 2 anchored pile walls; 2005-2007
- Bridges on MW section Korenitka-Pluska; overpass, underpass; 2005
- Bridges on Slovenian primary road network; 8 bridges, 1 overpass; 2004-2013
- Bridges on MW section Bič-Korenitka; overpass, cut&cover, 3 inundation structures; 2004-2005
- Bridges on MW section: Smednik-Krška vas; 4 bridges, overpass, 2 underpass; 2004-2005
- Bridges on MW section Klanec-Srmin; viaduct, footbridge, underpass; 2004

## City bridges

Structure: *Fabiani bridge Ljubljana*  
Design: *Main&Executive*  
Total L/I/A: *150+50m/35m/2,800m<sup>2</sup>*  
Built: *2011*  
Designer: *PROMICO Ltd.*  
*Atelier arhitekti Ltd.*

The Ljubljana inner city ring road was completed with the construction of two level Fabiani bridge. The lower integral superstructure, 50m in length and the span of 35m, is intended for connecting footpaths and bicycle lanes on the river banks of the Ljubljanica River. Vehicle traffic intended upper superstructure has 6 spans with lengths up to 35 m and with overall length of 150 m.



In the final couple of years Ljubjana has received quite a few new bridges on the Ljubljanica River. The old bridge was replaced by the new Maternity bridge, where the specific integral structure was built as shallow arch with span of 50 m in place of the old bridge.

Structure: *Maternity bridge, Lj*  
Design: *Main&Executive*  
Total L/I/A: *70m/50m/1,200m<sup>2</sup>*  
Built: *2010*  
Designer: *PROMICO Ltd.*  
*Atelier arhitekti Ltd.*



# Viaducts

The viaducts Jelše, Ponikve and Dole are located on the Dolenjska MW in Slovenia and the viaduct Pavloviči is located on the south part of the corridor Vc in Bosnia and Herzegovina. All viaducts were built using the incremental launching technique. In viaducts Jelše and Ponikve a modified version of the technique was used due to unfavourable geometric elements of the carriageways. A modified technique has been used where the superstructures were launched on a centreline of substitute radius, which is not identical to the centreline of the MW.

MW Section: *Pluska – Ponikve*  
 Structure: *Viaduct Ponikve*  
 Design: *Main&Executive*  
 Total L//A: *2x310/42m/8,000m<sup>2</sup>*  
 Built: *2011*  
 Designer: *PROMICO Ltd.*

MW Section: *Lešnica-Kronovo*  
 Structure: *Viaduct Jelše*  
 Design: *Main&Executive*  
 Total L//A: *2x340m/40m/9,300m<sup>2</sup>*  
 Built: *2009*  
 Designer: *PROMICO Ltd.*

MW Section: *Zviroviči-Kravice, BIH*  
 Structure: *Viaduct Pavloviči*  
 Design: *Main&Executive*  
 Total L//A: *2x370m/43m/9,600m<sup>2</sup>*  
 Built: *2013-14*  
 Designer: *PROMICO Ltd.*

MW Section: *Ponikve- Hrastje*  
 Structure: *Viaduct Dole*  
 Design: *Main&Executive*  
 Total L//A: *2x305m/32m/8,500m<sup>2</sup>*  
 Built: *2010*  
 Designer: *PROMICO Ltd., IPSA Ltd.*





# Viaducts

The viaducts Trebnje, Mačkovec and Dobovo are located on the Dolenjska motorway. All viaducts with the total lengths ranging from 170 – 255 m and spans between 25 and 32 m are constructed as semi-integral structures.

Unified steel falseworks were fixed underneath 3 spans of the viaducts Mačkovec and Trebnje superstructures and then moved to the following spans in the next building stage. The superstructure of the Dobovo viaduct was executed in a similar way but with span by span movement weekly.

MW Section: *Lešnica-Kronovo*  
Structure: *Viaduct Dobovo*  
Design: *Main&Executive*  
Total L/I/A: *2x255m/29.3m/6,700m<sup>2</sup>*  
Built: *2009*  
Designer: *PROMICO Ltd.*

MW Section: *Hrastje-Lešnica*  
Structure: *Viaduct Mačkovec*  
Design: *Main&Executive*  
Total L/I/A: *2x165/32m/4,700m<sup>2</sup>*  
Built: *2008*  
Designer: *PROMICO Ltd.*

MW Section: *Pluska-Ponikve*  
Structure: *Viaduct Trebnje*  
Design: *Main&Executive*  
Total L/I/A: *180/26m/2,500m<sup>2</sup>*  
Built: *2012*  
Designer: *PROMICO Ltd.*



# Overpasses

The spanning structures over motorways are visually the most conspicuous parts of the road and therefore determine the overall impression a user gets. The pictures show three integral overpasses and a semi-integral footbridge, which are located on the Dolenjska motorway. They are all differently constructed depending on the purpose, morphological-geological conditions and road geometry. The awkward middle supports have been avoided making the structures visually appealing as well as enabling a comfortable underpass.

MW Section: *Korenitka-Pluska*  
 Structure: *Overpass Pluska*  
 Design: *Main&Executive*  
 Total L/A: *72m/50m/630m<sup>2</sup>*  
 Built: *2005*  
 Designer: *PROMICO Ltd.*

MW Section: *Lešnica-Kronovo*  
 Structure: *Overpass Lešnica*  
 Design: *Main&Executive*  
 Total L/A: *47m/44m/425m<sup>2</sup>*  
 Built: *2009*  
 Designer: *PROMICO Ltd.*

MW Section: *Ponikve-Hrastje*  
 Structure: *Overpass Ponikve 2*  
 Design: *Main&Executive*  
 Total L/A: *85m/35m/1,100m<sup>2</sup>*  
 Built: *2010*  
 Designer: *PROMICO Ltd.*

MW Section: *Pluska-Ponikve*  
 Structure: *Footbridge Bukovje*  
 Design: *Main&Executive*  
 Total L/A: *58m/37m/220m<sup>2</sup>*  
 Built: *2010*  
 Designer: *PROMICO Ltd.*



# Cut & Cover

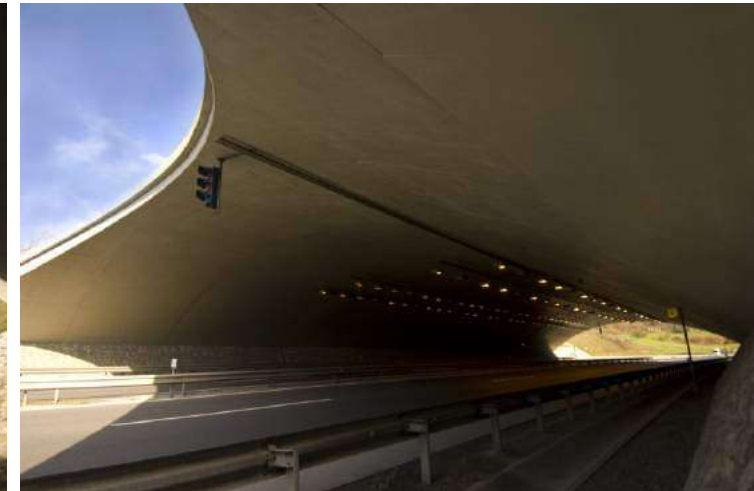
Cut and cover structures are intended for the passing of wild animals. The chosen type of structure, cut & cover is common in the Dolenjska part of Slovenia for green bridges. There are four similar cut & cover structures with single arch spans of approximately 40.0 m and width ranging from 30 to 300 m. The solution is aesthetic and economical, and enables animal-friendly passing over the motorway and creates a pleasant impression on the users.

MW Section: *Lešnica-Kronovo*  
Structure: *Cut&Cover Dobrava*  
Design: *Main&Executive*  
Total L/w/A: *40m/67m/2,100m<sup>2</sup>*  
Built: *2009*  
Designer: *PROMICO Ltd.*

MW Section: *Bič-Korenitka*  
Structure: *Cut&Cover Medvedjek1*  
Design: *Main&Executive*  
Total L/w/A: *40m/100m/3,600m<sup>2</sup>*  
Built: *2005*  
Designer: *PROMICO Ltd.*

MW Section: *Hrastje-Lešnica*  
Structure: *Cut&Cover Doline*  
Design: *Main&Executive*  
Total L/w/A: *40m/58m/1,900m<sup>2</sup>*  
Built: *2008*  
Designer: *PROMICO Ltd.*

MW Section: *Hrastje-Lešnica*  
Structure: *Cut&Cover Karteljevo*  
Design: *Main&Executive*  
Total L/w/A: *40m/273m/10,500m<sup>2</sup>*  
Built: *2008*  
Designer: *PROMICO Ltd.*



# Retaining structures

Various types of retaining structures were used when constructing the Dolenjska MW and deviation of existing parallel principal road on Karteljevski slope hillside area such as anchored frame structures filled with stone covering or grassed, anchored beams and stone revetment of slopes.

Various types of geotechnical structures were used when executed the eastern bypass MW in Maribor with two anchored pile walls OZ-3 and OZ-4 among them.

MW Section: *Hrastje-Lešnica*  
Structure: *Anchored retaining structures*  
Design: *Main&Executive*  
Total A: *14,000m<sup>2</sup>*  
Built: *2008*  
Designer: *PROMICO Ltd.*



MW Section: *Zrkovska c.-Pesnica*  
Structure: *OZ-3, OZ-4*  
Design: *Main&Executive*  
Total Length: *105m (OZ-3), 200m (OZ-4)*  
Built: *2009*  
Designer: *PROMICO Ltd.*



# Footbridges - Libya

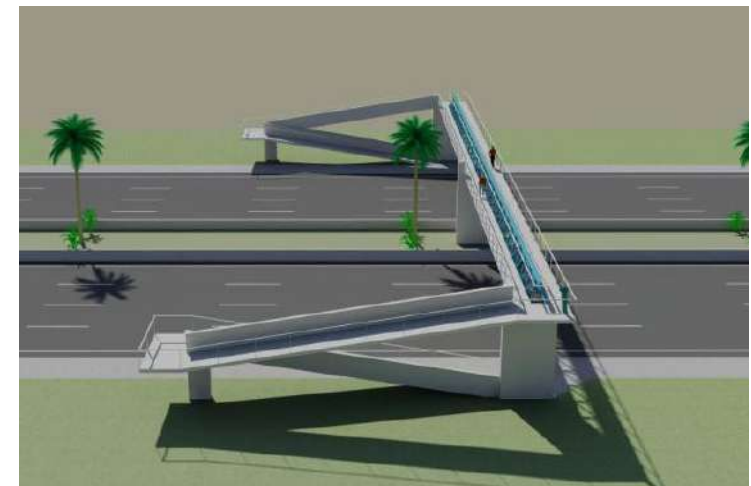
Various types of footbridges are under construction in Tripoli and Benghazi areas in Libya. The 180m long steel superstructure footbridge is curved in a horseshoe form. The other solution of pedestrian overpass “Bat-bridge” is designed as a steel girder bridging two spans up to 20 m long. The next design foresees a steel truss superstructure over two spans of 30 m. The specified solutions of footbridges are eye-catching and harmonious in appearance, of modern design and durable as well as economic throughout their period of use.

Footbridge: *Horseshoe No1*  
 Design: *Main&Executive*  
 Total L//A: *180/27m/550m<sup>2</sup>*  
 Built: *2013-14*  
 Designer: *PROMICO Ltd., Arhitektura Ltd.*

Footbridge: *Horseshoe No2*  
 Design: *Main&Executive*  
 Total L//A: *200/29m/600m<sup>2</sup>*  
 Built: *2013-14*  
 Designer: *PROMICO Ltd. Arhitektura Ltd.*

Footbridge: *BatBridge*  
 Design: *Main&Executive Design*  
 Total L//A: *50/20m/400m<sup>2</sup>*  
 Built: *2013-14*  
 Designer: *PROMICO Ltd., Arhitektura Ltd.*

Footbridge: *Truss*  
 Design: *Main&Executive*  
 Built: *2013-14*  
 Designer: *PROMICO Ltd. Arhitektura Ltd.*



# SPIT Ltd.



gradbeni inženiring d.o.o. Nova Gorica

SPIT Ltd. was founded in 1989. The company has 20 employees, among them there are 13 engineers specialized in civil engineering, architecture, hydraulics, sewage, potable water supply, machinery and waste water treatment technologies.

We offer consulting services, project management, design, design revision, site survey management, client engineering services as well as representation of equipment producers and environmental technologies with supply engineering, installation of equipment and start up with trial operation.

We are focused on different fields of work:

Road and transport systems with design of roads, bridges and viaducts, tunnels and retaining structures. We are also specialized in hydraulic tasks and assessment of extreme flooding waters, hydraulic dimensioning of bridge openings and river stream arrangements and regulations. Beside this we also define rain water drainage systems with necessary pumping stations and sewage systems.

Public and industrial buildings made of different building materials such as reinforced concrete and prestressed concrete, steel and aluminum, stone, bricks, wood and other materials.

Special engineering structures as part of sport facilities or technological projects in the industrial production or environmental protection.

Very important field of work is represented by the design of sewage systems and potable water supply, connected with waste water treatment, using modern technologies such as Membrane Bio Reactors.

In SPIT we believe in providing prompt and high-quality level of services with special attention on coordination of all parties involved in the project. Realizing our tasks while considering the mentioned principles, we are able to ensure the optimal service for our clients.

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Mures county - ROMANIA

# Main References

## **PUBLIC BUILDINGS:**

- Pediatric clinic, Ljubljana
- Shopping centre Mercator, Nova Gorica (European CCS & GZ Slovenia awards)
- Business & residential center EDA in Nova Gorica

## **MANUFACTURING BUILDINGS:**

- Tower of heat exchanger in the Cement factory Salonit, Anhovo

## **ROAD STRUCTURES:**

- MW section Razdrto-Podnanos: viaduct Boršt II., 3 anchored pile walls
- MW Sv.Rok-Maslenica, Croatia; viaduct Božiči
- Solkan road bypass: viaduct, gallery, 5 culverts, retaining walls
- Plateau Rogatec: Bridge over Sotla river
- Steel superstructure of Mesarski bridge in Ljubljana (ZJK Slovenia award)
- Bypass Škofja Loka: 3.7 km of road, tunnel, 8 bridges, regulation of waterstreams

## **TECHNOLOGICAL STRUCTURES AND WASTE WATER TREATMENT PLANTS:**

- Regional center CERO Nova Gorica for waste treatment
- Central Waste Treatment Plant in Ljubljana
- Waste Treatment Plant in the municipality of Balchik in Bulgaria
- Water distribution system (38km) in Brežice

## **STEEL ROOF STRUCTURES:**

- Steel roof structure on Stožice Stadium, Ljubljana
- Steel roof structures on road Border crossing MPP Obrežje

## NEW Pediatric clinic, Ljubljana

Main and executive design of structure with electric and mechanical installations for NEW PEDIATRIC CLINIC in Ljubljana, built and put in use in 2005. With more than 24,000m<sup>2</sup> of functional area it represents one of the most significant health centres in Slovenia

Project: *Designs for PEDIATRIC CLINIC Ljubljana*  
Area: *24,000 m<sup>2</sup>*  
Built: *2005*  
Designer: *SPIT Ltd., Proing Ltd.*  
Contractor: *SCT Plc*  
Investor: *Republic of Slovenia, Ministry for Health*



## Mercator center Nova Gorica

MERCATOR CENTER Nova Gorica – design and execution of steel structure for TKB Block as a part of the new shopping center. The total amount of structural steel is 330 tons; investor was Mercator d.d. Ljubljana; the center was built in 2001. In 2003 it was awarded as one of the best steel structures in Europe erected between 2001 and 2003 by ECCS.

Project: *Design of steel structure for TKB Block of Shopping center Mercator Nova Gorica*  
Steel structure: *330 tons*  
Built: *2001*  
Designer: *SPIT Ltd.*  
Contractor: *SPIT Ltd., Masel Ltd.*  
Investor: *Mercator Plc*





# Stožice Stadium Ljubljana

The Stožice Football Stadium in Ljubljana has the capacity for 17,000 spectators. It was executed in the period from December 2009 to June 2010.

Project: *Main & Executive designs for steel roof structure of Stožice Stadium in Ljubljana*

Total weight of steel: *14,000 t*

Built: *2010*

Designer: *Sadar+Vuga Ltd., SPIT Ltd.*

Contractor: *Gradis skupina G Plc*

Investor: *Municipality of Ljubljana*



## Tower of heat exchanger Cement factory Salonit

Main and executive design of the steel structure for the Tower of heat exchanger in the cement factory Salonit, Anhovo, built in 2009. With its height of 109,1 m, it is the highest building in Slovenia; The height of steel part is 102,30 m.

Project: *Designs Tower of heat exchanger in the cement factory Salonit, Anhovo*

Total height: *109,1 m*

Built: *2009*

Designer: *SPIT Ltd.*

Contractor: *TRIMO Plc, Montavar Ltd.*

Investor: *SALONIT Pcl*



## Roof structure on road border crossing Obrežje

Main and executive design of four steel roof structures on road border crossing MPP Obrežje.

Project: *Designs for steel roof structure on border crossin in Obrežje*

Total weight of steel: *600 t*

Total area: *8,000m<sup>2</sup>*

Built: *2004*

Designer: *SPIT Ltd.*

Contractor: *Meteorit Ltd.*

Investor: *R. Slovenia Ministry for public management*



## Structures on MW Razdrto - Podnanos

Motorway Razdrto – Podnanos is regarded as the most difficult road section in Slovenia. Within this project there were elaborated main and executive designs for viaduct Borst II, 12 anchored retaining walls made of piles and wells, 2 cut and covers, 1 bridge and 4 underpasses.

MW Section: *Razdrto - Podnanos*

Design

projects: 1 viaduct,  
bridge, 4 underpasses,  
2 cut&covers, 12 anchored  
retaining walls

Built: 2008

Designer: SPIT d.d.

Contractor: SCT Plc, Primorje Plc

Investor: R. Slovenia, DARS Ltd.



## Structures on Solkan road bypass

Main and executive design for structures on the Solkan road bypass. The project included the following structures: 1 viaduct, 5 underpasses, 1 gallery, 650 m of retaining walls and sewage pipe system. It was built up in 2001. The investor was Direction for statal roads in Slovenia.

Section: *Solkan road bypass*

Design

projects: 1 viaduct, 5  
underpasses, 1 gallery, 650m  
of retaining walls

Sewage pipe system

Built: 2001

Designer: SPIT Ltd.

Contractor: Primorje Plc.

Investor: R. Slovenia, DRSC



## Waste Treatment Plant, Ljubljana

Project: *Main & Executive designs for Central Waste Treatment Plant in LJ*

Capacity: *350,000 PE*

Built: *2004*

Designer: *SPIT Ltd.*

Contractor: *JV Aqua engienering Plc & SCT Plc & ANDRITZ Plc Investor: Municipality of LJ*

The Central Waste Water Treatment Plant in Ljubljana is composed of a building which includes two prestressed cylindrical tanks of about 7,500m<sup>3</sup> each, two prestressed cylindrical settlement tanks of about 3,500m<sup>3</sup> each and aeration basin with dimensions 100x80x7m.



## Waste Treatment Plant Balcik, Bulgaria

Project: *Designs for Central Waste Treatment Plant, Balchik, Bulgaria*

Capacity: *30,000 PE*

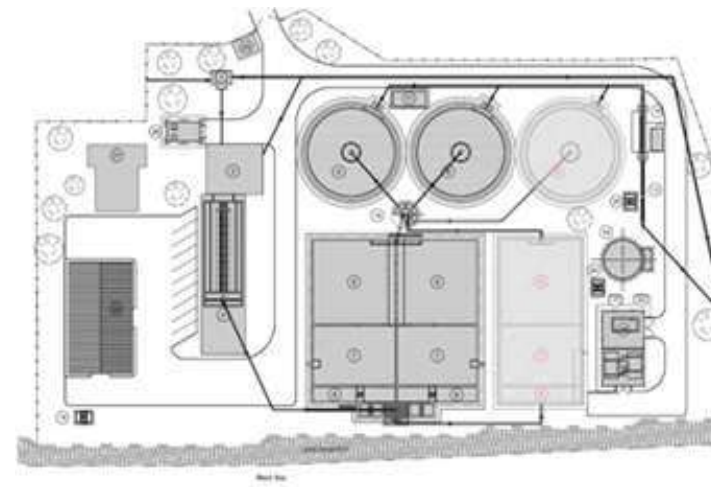
Built: *2007*

Designer: *SPIT Ltd.*

Contractor: *Primorje Plc, Hidroinženiring Ltd.*

Investor: *Bulgarian Ministry for Environment*

Main and executive design for waste water treatment plant in the municipality of Balchik in Bulgaria, close to Varna. The capacity of plant is 30,000 PE; plant was built in 2007.



# IPSA INSTITUT Ltd.



The primary focus of IPSA TRAN is transport infrastructure designing as well as transport planning and safety.

Over the past 55 years, IPSA TRAN has been involved in implementing numerous transport infrastructure projects in Bosnia and Herzegovina as well as in Croatia, Slovenia, Serbia, Macedonia, Montenegro, Kosovo, Libya, Italy and Germany.

Our transport infrastructure specialists have participated in the implementation of technical documents for:

- over 5000 km of roads, high-speed roads and
- over 3000 km of railway lines for passenger and freight transport;
- over 3000 km of road and railway bridges;
- 12 intermodal transport centres;
- airports and 3 landing grounds;
- supporting and ancillary facilities.

Transport infrastructure projects include all project levels and stages. Hence, IPSA Institute's work teams are interdisciplinary (surveyors, geomechanic engineers, civil engineers, structural engineers, hydraulic engineers, specialist in traffic signals and signs, spatial planning and supporting and ancillary facilities).

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Employees: 130

Daughter companys:

- IPSA PODGORICA d.o.o., Montenegro
- IPSA ZAGREB d.o.o., Croatia
- CETEOR d.o.o., Bosnia and Herzegovina

Branch office in: Abu Dhabi, UAE

# Main References

## ROADS:

- Main Design of Corridor Vc Motorway, Section Tarčin - Konjic L=11,1km
- Main Design of Motorway Lašva-Donji Vakuf, Section: Interchange Lašva–Interchange Nević polje L=23,7km
- Main Design of Corridor Vc Motorway LOT 3, Section Johovac - Doboju jug L=16km
- Main Design of Corridor Vc Motorway, Section Svilaj - Vukosavlje L=17km
- Main Design of Corridor Vc Motorway Zenica - Sarajevo - Mostar, Section Vlakovo - Lepenica L=9,3km

## RAILWAYS:

- Main Design for Overhaul Railway Rehabilitation M.Kolo - Mojkovac, Station Mojkovac and Mijatovo Kolo L = 8,16 km, as well as Trebaljevo - Kolašin and Station Kolašin L = 9,5 km
- Main Design for Overhaul Railway Rehabilitation Šamac - Doboju, km 21+800 - 84+100, L = 62,3 km
- Rehabilitation of the railway and substructure for section Samac – Doboju
- Main Design for Overhaul railway rehabilitation Konjic – Čapljina – State Border
- Main Design for Overhaul railway rehabilitation S.Kostajnica – Jošavka
- Main Design of overhaul of Railway Doboju-Bos.Novi (Novi Grad) section:Čelinac –Vrbanja

## BRIDGES AND STRUCTURES:

- Main design of viaduct Počitelj on Motorway section Počitelj-Zvirovići
- Main Design for Structures along the Corridor Vc Motorway, Section Svilaj –Vukosavlje (LOT 1) - Bridges M1 - M5; Overpasses NP1 - NP4
- Main Design for Structures along the Corridor Vc Motorway, Section Johovac-Doboju jug(LOT 3) - “Underpass Rudanka, Bridges Rudanka, Kraševo, Lukavička rijeka, Bosna, Usora 1,2,3, Viaduct Putnikovo brdo, and Overpass Prisade”
- Main Design of Viaducts “Zukići 1, Zukići 2. Podhrastovi, Pirići, Vrbljani 1, Vrbljani 2, Kanjina 1, Kanjina 2, Galjevo 1, Galjevo 2 and Donje Selo at Corridor Vc Motorway, section Tarčin - Konjic

# DIA Ltd.



**DIA D.O.O.**  
**LJUBLJANA**

The company DIA d.o.o. Ljubljana was founded in 1990 and since then it has been occupied with continuous work in the field of architecture, design and planning. The majority of our creative work represent social welfare facilities (schools, healthcare facilities, homes for retirement), residential and commercial buildings and banks.

The company consists of the owners, architects Gorazd and Andrej Ravnikar with coworkers architects Mojca Sterle, Janez Bizjak and Mojca Polh. Other fields (such as mechanical and electrical installations) are outsourced.

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Web: [www.dia.si](http://www.dia.si)

Manager: Gorazd Ravnikar  
Employees: 5

# Main References

- Nursing Home of Trebnje (3,600 m2), completion of construction 1999
- Tourist complex in Strunjan (1,400m2), realization 1998
- Establishment of NLB Bank in Kočevje , realized 1998
- Establishment of NLB Bank in Ljubljana, realized 1998
- Residential housing in Zapuže near Bled realized 2000
- Establishment of NLB Bank in Litija realized, 2000
- Establishment of Commercebank in Sarajevo (BiH), realized 2001
- Headoffice for Kvarner Bank in Rijeka (CRO) (2,200m2), realization in 2002
- Kindergarten in Zadvor in Ljubljana (1,600 m2), realized in 2003
- Elementary school in Ljubljana Sostro (7,200m2), realized 2005
- Elementary school Kašelj near Ljubljana (3,200m2), realized 2008
- Education center NLB Ljubljana (1,200m2), realized, 2003
- Nursing Home Trebnje-extension, construction 2003
- Residential and educational Home in Trebnje (900 m2), realized 2008
- Elementary school and Kindergarten in Dragomelj (4,200m2), realized 2006
- Extension of the clinical center in Ljubljana (18,000 m2), Slovenia, project under construction
- Establishment of NLB Bank in Ivančna Gorica, the realization 2007
- Establishment of the Continental Bank in Belgrade (SRB), realization 2007
- Commercial building IMOS Litostroj (17,000 m2), project in 2009
- R. Jakopič elementary school in Ljubljana, reconstruction and extension, project in 2009
- The sun house in Trebnje, realized 2009
- Extension to the medical faculty in Ljubljana (3,300 m2), realization 2011
- The tobacco Museum in Ljubljana, carried out in 2011
- Commercial and Residential Complex “Tobačna city” in Ljubljana, 1. phase of project 2012
- Commercial Housing in Litostroj, Ljubljana (107,000 m2), design phase 2012



## Office building IMOS

Project: *Main design*  
Office areas: *19,000m<sup>2</sup>*  
Parking areas: *3,900m<sup>2</sup>*  
Designer: *DIA Ltd.*  
Investor: *IMOS Plc*

The building B is planned as rectangular box with two RC cores, which connect individual floors with staircases and lifts.



With its transformation, the area of Tobačna enables the extension of Ljubljana's city center. It offers important development possibilities to Ljubljana, as a modern European capital.

The blocks that will cater to a mostly residential program will stand on a two-story platform, and there will be rooftop green space intended for the residents.

## TOBAČNA CITY

Project: *Main design for phase 1.1 of the project*  
Building areas: *37,000m<sup>2</sup>*  
Parking areas: *43,000m<sup>2</sup>*  
Designer: *DIA Ltd.*  
Investor: *IMOS-G Plc*



## Kindergarten Zadvor

Project: *Main & Executive designs for extension and reconstruction*

Built: *2003*

Surface: *1,600m<sup>2</sup>*

Designer: *DIA Ltd.*

Investor: *Društvo Sožitje, Municipality of Ljubljana*

The reconstruction of the existing kindergarten premises, the enlargement of pavilion and a new west wing were carried out.



## Primary school Kašelj

Project: *Main & Executive designs for extension and reconstruction*

Built: *2008*

Surface: *3,200m<sup>2</sup>*

Designer: *DIA Ltd.*

Investor: *Primary school Polje*

The construction of the new part of the primary school Kašelj was undertaken because of the growing need for more modern educational facilities. In the northern part of the annexe the library and specialized classrooms are located, while the southern part holds the standard classrooms and teacher cabinets.



# Primary school and kindergarten Dragomelj

The Dragomelj school and kindergarten are built on an exposed and sensitive location by the nearby road. The building complexes are relatively low and covered with green roofs which reach the ground at the lower side. In this way we have managed to retain grassy areas and a direct connection to the environment. Roof slopes enable children to do various outdoor recreational activities.

Project: *Main & Executive designs*  
Built: *2006*  
Surface: *3,300m<sup>2</sup> primary school  
660m<sup>2</sup> kindergarten*  
Designer: *DIA Ltd.*  
Investor: *Municipality of Ljubljana,  
Municipality of Domžale*



## The Sun house

Project: *Main & Executive designs*  
Built: *2009*  
Surface: *1,900m<sup>2</sup>*  
Designer: *DIA Ltd.*  
Investor: *Society Sožitje,  
Municipality of Trebnje*

The building is intended for the society for social help. It is planned rationally with a clear separation of purpose ranging from public to group and private. The ground floor houses the education and training centre which is open for all users. The upper floor is intended for communal use of all tenants.



## Nursing home Trebnje

Project: *Main & Executive designs*  
Built: *1998, 2002, 2008 (3  
phases)*  
Surface: *3,600m<sup>2</sup>*  
Designer: *DIA Ltd.*  
Investor: *Municipality of Trebnje*

The spaces intended for elderly citizens have approximately the same number of sunlit common places and therapy areas and are, above all, functional. The designs of facades are rational and modest.



## Extension of Medical Faculty

Project: *Main & Executive designs*  
Built: *2011*  
Surface: *3,300 m<sup>2</sup>.*  
Designer: *DIA Ltd.*  
Investor: *Municipality of Ljubljana*

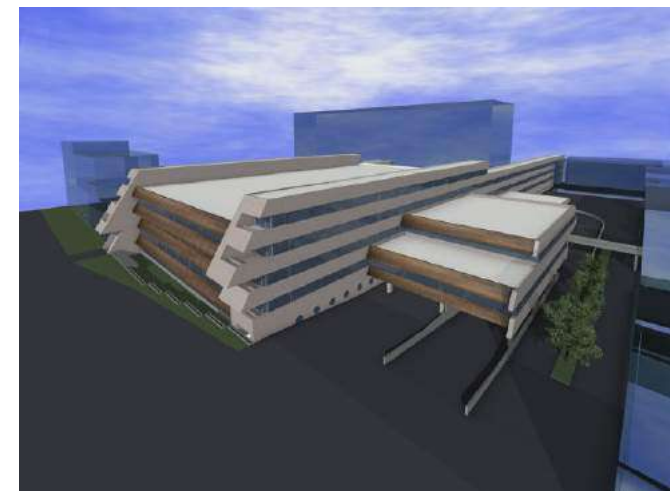
The container architecture represents one of the alternative models of fast and affordable modular building with an emphasis on individuality and environmental friendliness. The prefabricated three floor annexe is made up of 21 ISO containers. The model has been chosen for the Faculty of Medicine in Ljubljana.



## Extension of Medical Clinic Ljubljana

Project: *Main & Executive designs*  
Construction in progress  
Surface: *18,000 m<sup>2</sup>.*  
Designer: *DIA Ltd.*  
Investor: *Municipality of Ljubljana*

The extension of medical clinic in Ljubljana will feature more than 18,000 m<sup>2</sup> of new areas, with the latest health-care equipment, which will significantly increase the quality of provided services. The clinic will also get a helipad which will be mounted on top of the extension.



# LEGADA Ltd.



We create original, technologically perfected, superiorly designed, user and environment-friendly integrated solutions for all types of buildings. We are focused on reducing energy consumption, increasing comfort and amenities in residential, commercial and industrial buildings.

The company is aware of the importance of intellectual capital in people. We offer the knowledge wrapped in integrated solutions in the field of building automation.

The company is distinguished by a highly skilled, multidisciplinary and young team.

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Manager: Davorin Vuga

Employees: 5

# Main References

## SYMBOL LEGEND



Heating, cooling and ventilation



Lighting



Energy saving



Pool



Access



Audio



Video surveillance

- RESIDENTIAL BUILDINGS: Residence Park Lucija; Čatež; Dolenjska; Private Villa, Novo mesto
- HOTELS & SPAS: Life Class, Portorož; Hotel Boka
- SHOPPING CENTRES: C&A Velenje, Murska Sobota; Lama-Dakin, Koper; Takko, Koper
- SPORT HALLS: Bonifika Koper
- NURSING HOMES: Nursing home Mengeš; Lucija
- OFFICE BUILDINGS: Insurance house Tilia, Novo mesto; Norma 1, Novo mesto; Plan invest, Koper
- AIRPORTS: Pleso Zagreb
- CASINOS: Casino Budva
- MANUFACTURING BUILDINGS: Lama, Dekani
- WASTE WATER PLANTS: Waste water plant Trebnje; Jesenice; Brestanica; Čatež; Fructal Duplica; Tepanje

## HOTEL & SPA

Life Class, Portorož



## SPORT HALL

Bonifika, Koper





**OFFICE BUILDING**  
Insurance house Tilia, NM



**SHOPPING CENTRE**  
C&A, Velenje



# ARHITEKTURA Ltd.

Arhitektura Ltd. is a family company, where the experience and ideas of two generations converge in a common cultural motive: making good architecture. The architecture which is the result of a wider spatial, historical, technological and social context.

PETER GABRIJELČIČ was born in Maribor in 1947. He graduated in 1973 from the Faculty of Architecture in Ljubljana. As dean of the Faculty of Ljubljana and full professor of urban planning and architecture, he has won many awards such as the Borba Award, Prešern Foundation Award, Belgrade Salon of Architecture Award, Architecture Event of the Year Award in Belgrade, European Architectural Award in London, Trend award, the Golden Pencil and the Platinum Pencil awards of the Slovenian Chamber for Architecture and Space. He has co-authored numerous projects for international competitions.

BOŠTJAN GABRIJELČIČ was born in 1982 in Ljubljana; he graduated from the Faculty of Architecture in Ljubljana in 2007. He was a foreign exchange student in Vaduz, Lichtenstein 2005 and worked in Podrecca atelier in Vienna 2006. His major architectural projects include: Urban Parasite 2006, co-author of Magic Box 2009, co-author of Private House Suha 2012. He has exhibited at: Prague architecture week (2012); Ljubljana Gallery DESSA – exhibition 11 × 1 (2012); Zavod BIG – Houses of the World Exhibition (2012).

Awards: 2012 the Golden Pencil award of the Chamber of Architects for private house Suha (with Peter Gabrijelčič), shortlisted for Trimo architecture award 2008 for Urban Parasite, selection ECOLA award.

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Web: [www.arhitektura-doo.si](http://www.arhitektura-doo.si)

Manager: Prof. Peter Gabrijelčič  
Employees: 3

# Main References

- Ada Bridge in Belgrade
- Puh's bridge
- Podpeč bridge
- Footbridge over Sava river at Bled
- Footbridge Ribja brv in Ljubljana
- The house behind the wall
- Suha private house
- Zois house studios
- Magic box
- Urban parasite
- Primary school, Lavrica
- Kindergarten, Ljubljana
- Sport Center, Velenje
- Shopping center Harvey Norman, Maribor
- Shopping center OBI, Ptuj

## Ada bridge in Belgrade

Project: *Conceptual design*  
H-pylon: *210m*  
Total length: *950m*  
Max. span: *376m*  
Total width: *45m*  
Area: *42,000 m<sup>2</sup>*  
Built: *2012*  
Designers: *Ponting, Arhitektura Ltd.*  
Contractor: *PORR, SCT, DSD*  
Investor: *Municipality of Belgrade*

Spanning the Sava river at the tip of Ada Ciganlija, the new structure is a single-pylon cable stayed bridge. With its 210m high pylon and 950m length of superstructure as well as with main 376m long span, the bridge is a significant landmark in the City of Belgrade. The bridge deck is 45m wide, with 6 traffic lanes, two light railway rails and two pedestrian and cycling paths. This is the largest bridge surface in the world suspended by a single pylon.



## Puh's bridge in Ptuj

Project: *Main & Executive design*  
Total length/  
max span: *440m/100m*  
Total width: *19m*  
Area: *8,300m<sup>2</sup>*  
Built: *2007*  
Designers: *Ponting, Arhitektura Ltd.*  
Contractor: *SCT Plc, PORR AG Wien*  
Investor: *R. Slovenia, DARS Plc*

In the architecture of a town, bridges are structures of the highest symbolic value, and comparable to a cathedral, opera house or museum. Such is also the innovatively constructed and designed 450-metre long 'Puh's Bridge' set low over the river and spanning in a wide curve the shores of the largest Slovene lake on the Drava River at Ptuj. It is a cable-stayed bridge, built as an extra dosed bridge.



## Bridge over Sava river at Bled

Project: *Main & Executive design*  
Total length: 45m  
Total width: 3-6m  
Area: 230m<sup>2</sup>  
Built: 2007  
Investor: *R Slovenia, DRSC*  
Designers: *Arhitektura Ltd.*  
Contractor: *GP Tržič Lcd.*  
Investor: *R.Slovenia, DRSC*

The footbridge built over the Sava canyon at Bled is intended for hikers to stop for a moment, experience new views, take in the gorgeous nature, breathe with the water, glance at the reflection of the moving stars at night and listen to the river murmuring.



## Footbridge “Ribja brv” in Ljubljana

Project: *Conceptual design, Main & Executive design*  
Total L/I: 31/ 25m  
Total width: 3,7m  
Area: 115m<sup>2</sup>  
Construction in progress  
Investor: *Municipality of Ljubljana*  
Designers: *Ponting, Arhitektura Ltd.*  
1st Award on competition, 2011

The pictures shows “Ribja brv” footbridge over the Ljubljanica river in the historic centre of Ljubljana which was chosen as the most suitable for replacing the existing worn out footbridge. The footbridge has single span of 25 m bridging deep river-bed of the Ljubljanica river. The superstructure is made of a thin steel cassette girder and has fences made of glass, giving it a sleek and transparent appearance.



## The house behind the wall

Project: *Conceptual design, Main & Executive design*  
Structure: *Residential house*  
Location: *Lavrica, Ljubljana*  
Built: *2007*  
Designers: *Arhitektura Ltd.*

The house sits on a narrow parcel of land among typically Slovene suburban structures. On one side, there is a chaotic settlement; on the other, we find the marshy plain of the Barje park. The new longitudinal house is conceived as a wall - a fence forming a secure atrium in the midst of the existing built settlement. The house is turned outside in offering its residents' intimacy.



## Suha private house

Project: *Conceptual design, Main & Executive design*  
Structure: *Residential house*  
Location: *Suha, Škofja Loka*  
Built: *2012*  
Designers: *Arhitektura Ltd., Navor Ltd.*

The presented detached house is located in the village of Suha, in the suburbs of a famous medieval town, Škofja Loka. The building has been built as a replacement structure on the site of a former farm building.



GOLDEN PENCIL Award, Slovenian Chamber of Architects, Slovenia 2012

# Zois House studios

Ljubljana, the capital of Slovenia, boasts a picturesque historic centre which is home to the grand Zois Palace, situated on the riverbank of the Ljubljanica river. In the palace, Arhitektura Studio designed a small modern hotel with eight studio apartments and in this way rejuvenated and gave new purpose to the 18th century palace.

Project: *Conceptual design, Main & Executive design*  
Structure: *Hotel, Apartment Multi Unit Housing*  
Location: *Ljubljana*  
Built: *2012*  
Designers: *Arhitektura Ltd.*



# Harvey Norman, Maribor

Structure: *Shopping center Harvey Norman*

Location: *Maribor*

Total area: *8,600 m<sup>2</sup>*

Built: *2012*

Designers: *Arhitektura Ltd.*



# Shopping center OBI, Ptuj

Structure: *Shopping center OBI*

Location: *Ptuj*

Total area: *21,000 m<sup>2</sup>*

Built: *2010*

Designers: *Arhitektura Ltd.*

Investitor: *HYPO Leasing Ltd.*

