

Consultancy Services in Bridges

designing and supervision



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Bridge :Gazela", Belgrade – Serbia

Introduction

Bridge engineering is a key component of Mostprojekt business. The company has been working on the design, construction supervision and maintenance of highway and railway structures. Our expertise includes bridges, tunnels, culverts and retaining walls



Approach structures to Bridge over river Sava in Ostruznica, Belgrade, Serbia

In order to maintain our position at the forefront of bridge engineering we actively encourage participation in research and other industry bodies. We have engineers active in the Serbian Chamber of Engineers and other similar organizations.

Approach

Our approach is to determine an understanding of our clients' needs and aspirations, add value to the team effort and exceed these targets through engagement, partnering and a coordinated approach. We are consultants acting for local, regional, national and international clients with equal skill and enthusiasm.



Bridge over river Sava near Obrenovac - Serbia

We look, listen, interpret, discuss, and then rise to the challenge and deliver.

Look - we observe the client's vision in the context of our practical knowledge of the environment.

Listen - we listen carefully to our client's needs, we ask questions, we challenge and then come to a full understanding of what the client's objectives are.



Bridge over landslide Bracin - Serbia

Interpret - through a combination of experience and ability we interpret information to make fully informed choices.

Discuss - we keep discussion going, so that elegant and sustainable solutions evolve that turn ideas into reality.

Rise to the challenge - we develop a clear understanding of priorities (quality, time, cost, risk) that allows us to apply and manage our resources efficiently and effectively.

Deliver - we always aim to fulfil our client's needs, so that our relationships can be developed further

Our Capabilities

Prestressed and reinforced concrete construction

Steel and steel/concrete composite bridges

Balanced cantilever construction

Progressive launching

Precast segmental construction

Precast and insitu construction

Aluminium and timber construction

Inspection and assessment for all types of bridge

Bridge repair and strengthening

Heritage structure restorations



Junction Mostar and approach structures to bridge Gazela in Belgrade – Serbia

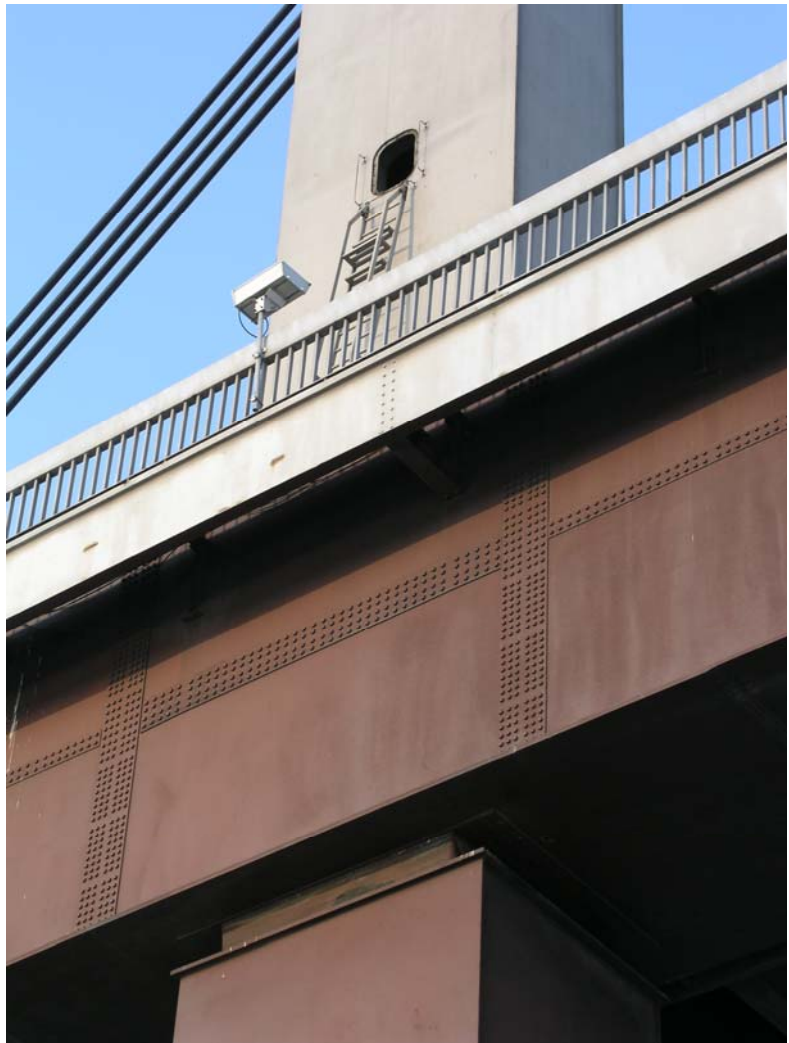
New Build Design

Mostprojekt has extensive experience in design of highway and railway projects. We work with a broad range of clients on a variety of schemes with a strong emphasis on selection of the most appropriate solution to suit the available technology within every country.

The types of structures designed range from reinforced concrete slabs on simple abutments through multi span viaducts to cable stayed structures. The materials have been concrete, structural steel and steel-concrete composite.

Concrete bridge designs have included post-tensioned segmental bridges designed to be erected span-by-span and as balanced cantilevers, insitu post-tensioned structures designed to be cast on falsework, span-by-span and as balanced cantilevers, reinforced concrete, both insitu and precast, prestressed concrete beams, arches and culverts.

Structural steel has been used in box construction, trusses and in beams combined with concrete decks



Highway Structures

Our reputation follows extensive experience in the development of road bridges and interchanges, viaducts and pedestrian bridges, rail bridges, subways and underpasses, both in the country and abroad. Our structures expertise ranges from single to multi-span bridges, from simple construction to the most complex and innovative

Capabilities:

- Reinforced and prestressed concrete
- Steel/concrete composite
- Fully and semi integral construction
- Steel and concrete box girder
- External post-tensioned concrete
- Precast segmental construction
- Cable stayed



Bridge over river Danube near Beaka – Serbia

Footbridges and Cyclebridges

Our teams have developed particular expertise in footbridges and cyclebridges.

We understand the importance of designing structures that suit the surrounding landscape and make as little environmental impact as possible. It is why we liaise with architects at the very early stage of bridge design and thoroughly evaluate different design options.

We work with the Local Authorities, Contractors and private developers and provide them with bespoke solutions for new-build, change of use and bridge replacement.



Footbridge on railway station in Pozega – Serbia

Railway Bridges

Our bridge teams design railway structures from single to multi-span bridges, from simple construction to the most complex and innovative.



„Нови“ железнички мост преко реке Саве - Београд

Construction Supervision

On many projects we have been appointed as the Engineer under the terms of the contract when we have designed a scheme and as a separate appointment. One of the roles that is undertaken in such an appointment is the supervision of construction of the works. In this role we have been responsible for bridges and other highway structures of all magnitudes and materials around the world



Railway bridge over river Sava near Ostruznica – Belgrade

Project Management

We emphasise the importance of communicating with the client at the very early stage of the project. Close co-operation with and ability to listen to the client enables us to deliver projects on time and within budget.

Mostprojekt Bridges project managers have been successfully managing various projects in the UK and abroad. Projects are managed through their lifecycle, from concept generation to construction and maintenance.

Project managers liaise with all the parties involved in the project to ensure that their interests are heard and considered thoroughly. Our project managers understand the importance of community involvement.



Trafic interchange Autokomanda - Belgrade , Serbia

Bridges Management and Maintenance

Our Structural Rehabilitation team has wide-ranging experience in the behavior and life cycle of concrete, steel and masonry structures.

The team carries out bridge inspections, assessments and testing of bridges as part of their lifecycle management. It is fully equipped to undertake all types of inspection, including single and multi-span masonry bridges, all forms of concrete structures, culverts, steelwork, timber footbridges and precast elements such as beams and box culverts.

Our Rehabilitation Team provides advice on all mechanisms of structural distress. Services include:

- Structural Surveys
- Fabric Condition and Durability Surveys
- Assessment of the Cause and Effect of Distress / Defects
- Recommendations for Repair Strategies
- Corrosion Monitoring
- Cathodic Protection
- Specification of Repair Strategies
- Preparation of Contract Documentation
- Site Supervision
- Expert Reports
- Structural Asset Management
- Confined space access



Demolished Bridge over river Sava near Ostruznica



Bridge over river Zapadna Morava – Varvarin , Serbia



Most over river Danube – Beska - Serbia



Bridge over river Zapadna Morava in Ovcar Banja – Serbia



Bridge in Kirovljeva street Belgrade – Serbia

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