



IRD ENGINEERING s.r.l.

CORPORATE PROFILE

December 2021

Quick Facts About Us

Our Origins

IRD Engineering was set up in 2000 aiming at the provision of engineering services during the reconstruction efforts after the conflicts that had taken place in the Western Balkans.

The accumulated expertise was very soon demanded in other regions and the company expanded its presence into Northeast Europe, the Caucasus, and Central Asia.

Since its origins, IRD Engineering has participated in hundreds of assignments worldwide, with a total construction value of more than €35 billion.



Our Staff

IRD Engineering is composed by a committed multidisciplinary team of more than 300 civil engineers, project managers, electrical and mechanical engineers, architects, urban and transport planners, design-and-build experts, economists and financial specialists, and legal and procurement experts. Our people is our main asset.



Our Business

IRD Engineering is a leading Italian engineering consultancy offering comprehensive solutions worldwide for a wide variety of infrastructure schemes. Totally independent from any construction or industrial group, we provide planning, design, supervision, and technical assistance services, covering all phases during a project implementation.



Our Clients

IRD Engineering has an extensive track record in the provision of consulting and engineering services for public and multilateral institutions, and also for private organizations. To name a few, we currently have important assignments under implementation for the EU, the EBRD, the EIB, the ADB, NATO, the WB, the UN and the AfDB.

Who We Are

IRD Engineering is a multinational consulting and engineering services firm that supports solving challenging infrastructure and development tasks to a wide variety of clients.

We provide tailored services to meet the precise requirements of each project, including:

- Procurement support
- Project management
- Master planning
- Feasibility studies
- Topographical, Geotechnical and Hydrological surveys
- Civil, Structural, Mechanical and Electrical Engineering Services
- Architectural Services
- Blast Design and Seismic Analysis
- Environmental / Sustainability Assessments
- Cost Estimation / Quantity Surveying
- Technical Peer Review
- Site Supervision

IRD Engineering is nowadays ranked among the Top 225 International Design Firms compiled by ENR - Engineering News Record



Rankings and Co-operation with IFIs

IRD Engineering has an extensive track record in the provision of consulting and engineering services in projects financed by the most important International Financial Institutions: the EU, the EBRD, the EIB, the ADB, NATO, the WB, the UN and the AfDB.

IRD Engineering leads the ranking of Italian service providers working in projects funded by the Asian Development Bank, with an overall \$30.3 million in inked contracts in the last 5 years. This is quite remarkable considering that since the year 1966, only 310 contracts worth \$235.19 million had been awarded to consulting and engineering companies established in Italy.

In 2021 IRD Engineering was ranked 130th in terms of revenues outside the domestic market in the “ENR Top 225 International Design Firms” list elaborated by Engineering News Record. This is the result of all our activities in 25 countries in Eastern and Central Europe, Caucasus, Central Asia, and Africa, and a solid proof of the technical distinction delivered by our employees.



ASIAN DEVELOPMENT BANK



European Investment Bank



ASIAN INFRASTRUCTURE
INVESTMENT BANK



Eurasian
Development Bank



European Bank
for Reconstruction and Development



MILLENNIUM
CHALLENGE CORPORATION
UNITED STATES OF AMERICA



NATO Support and
Procurement Agency
(NSPA)



البنك الإسلامي للتنمية
Islamic Development Bank



What We Do

Roads and Highways Infrastructure



Railway Infrastructure



Security and Defense Infrastructure



Architecture and Building Management



Environmental Engineering



Institutional Strengthening and Capacity Building



Where We Operate



300 +
Employees and
Associated Consultants

75 +
Assignments under
Implementation

18
Branches and
Subsidiaries

25 +
Countries of
Operation

Head Office

- IRD Engineering (Italy)

Subsidiary Companies

- IRD Serbia
- IRD Moldova
- IRD Georgia
- IRD Bosnia and Herzegovina
- IRD Russian Federation

Branches

- IRD Branch in Montenegro
- IRD Branch in Albania
- IRD Branch in Macedonia
- IRD Branch in Georgia
- IRD Branch in Armenia
- IRD Branch in Azerbaijan
- IRD Branch in Ukraine
- IRD Branch in the Russian Federation
- IRD Branch in Kazakhstan
- IRD Branch in Uzbekistan
- IRD Branch in Afghanistan
- IRD Branch in Libya

Project Offices

- 15 additional offices in Europe, Asia, and Africa



Certifications and Memberships

IRD Engineering is certified to **ISO 9001:2015 QMS** (Quality Management System), to **ISO 14001:2015 EMS** (Environmental Quality Management), to **ISO 18001:2007 OHSAS** (Occupational Health and Safety Assessment Series), and to **ISO 37001:2016** (Anti Bribery Management System).

IRD Engineering is a corporate **member of O.I.C.E.** (the Italian Association of Engineering, Architectural, and Technical-Economic Consultancy Organizations), the Italian representative of **EFCA** (the European Federation of Engineering Consultancy Associations), **affiliate of FIDIC** (International Federation of Consulting Engineers), being **fully accredited to perform FIDIC Supervision Services**.

Quality assurance is an integral part of IRD's project implementation and management procedures. Random quality audits are carried out every year to a group of projects being implemented by IRD Engineering and its network of branches and subsidiaries. These allow us implementing corrective measures and extracting conclusions for a continuous improvement in our project management systems.

Our Values



Proximity, commitment, innovation, honesty, technical excellence...

There are key focus areas for IRD Engineering. We are constantly evolving: in our discerning, our approach, our technologies, and in our systems.



REPRESENTATIVE PROJECTS

Ulaanbaatar Darkhan Road Expansion Project – FIDIC Engineering Supervision

Mongolia

Project Description

The Government of Mongolia had received a loan from EBRD to finance the **expansion of the existing 204.5 km road from the capital city Ulan Bator to the city of Darkhan**. This is one of the country's busiest roads, located on the corridor China – Mongolia – Russia. Currently, the 2 lane road is in a dire state, with at least nine sections characterized by frequent car accidents.

IRD's Role

Supervision services in accordance with **FIDIC Conditions of Contract** (Red Book), the existing tender documentation, as well as with the relevant local legislation on construction.

Value of Services: Cca. €4.5 Million

Total Investment: Cca. €130 Million



Site Supervision for Upgrading to Four Lanes of the Ganja – Gazakh – Georgian Border Road

Azerbaijan



Project Description

The proposed upgrade to four lanes is financed by an EBRD loan and includes the construction of a new 2-lane carriageway by parallel widening adjacent to the existing road, as well as the construction of a new 4-lane road in new alignments for bypassing villages and towns.

The length of the road is 130 kms.

IRD's Role:

Site supervision according to FIDIC Conditions of Contract for Engineering Services Designed by the Employer MDB Harmonized Edition.

Value of Services: Cca. €8 Million

Project Description

Žeželj Bridge is a **tied-arch bridge** on Danube river in Novi Sad, Serbia. The bridge was originally built in 1961, only to be demolished during the 1999 bombing of Yugoslavia. The newly constructed bridge was opened in 2018. It consists of two arches, one 177 meters long and 34 meters high, while the bigger arch is 219 meters long and 42 meters high.[\[1\]](#)

IRD's Role:

- Topographical, geotechnical and hydraulic surveys;
- Conceptual statement of the superstructure and substructure in accordance with EURO-CODE;
- Advanced preliminary design;
- Tender documents prepared to enable the design & build contract according to FIDIC Yellow Book.

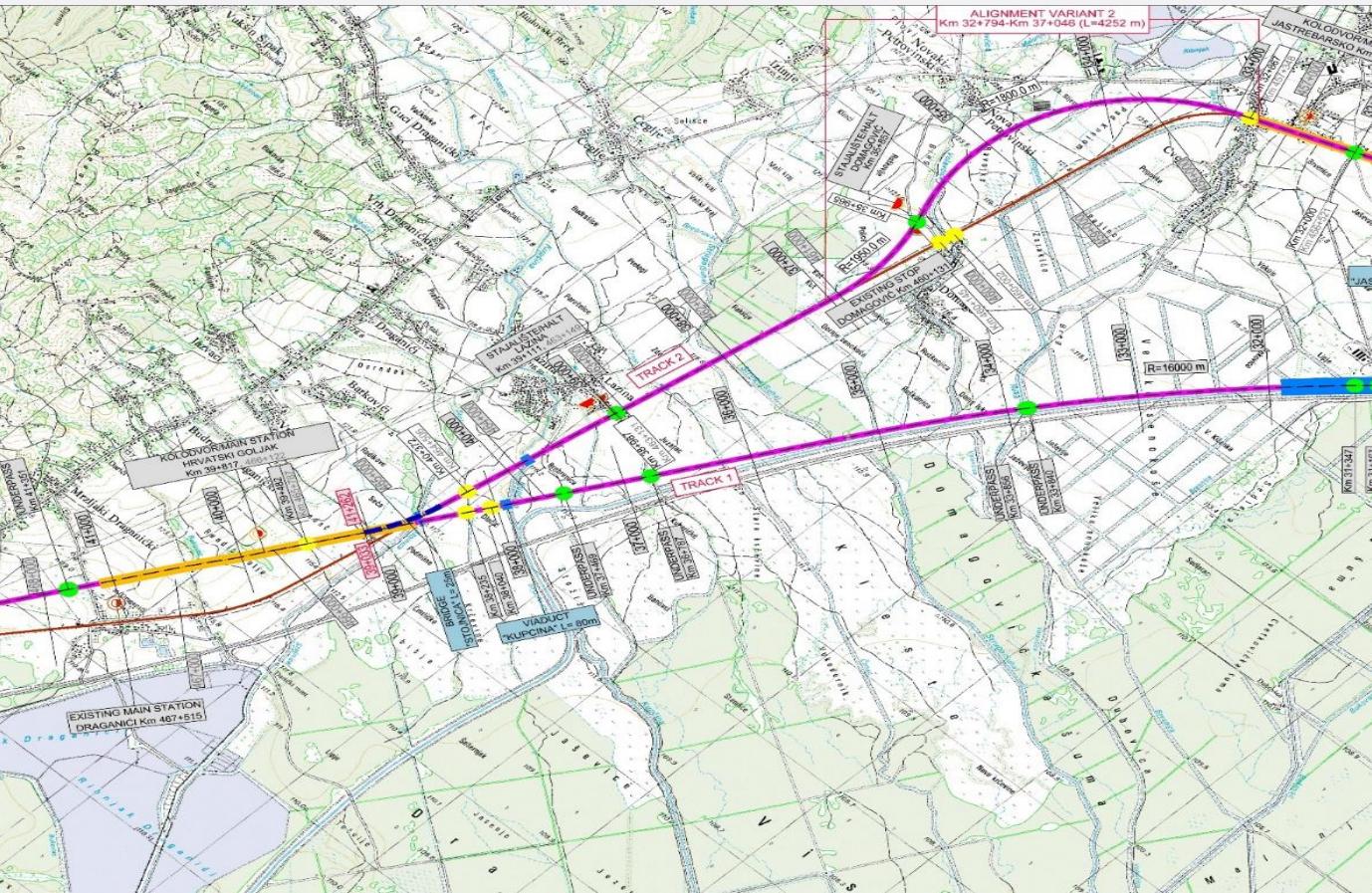
Value of Services: Cca. €2 Million

Total Investment: Cca. €52 Million



Design of Railway Line Section Hrvatski Leskovac-Karlovac

Croatia



Project Description

Preparation of all the project documentation necessary for the rehabilitation of the Hrvatski Leskovac – Karlovac railway section, with an approx. length of **50 km**. The project is part of the Pan-European Corridor V.

IRD's Role:

- Feasibility study;
- Cost Estimation;
- Environmental impact/ Sustainability assessment;
- Procurement support;
- Project application.

Preparation of the preliminary design and location permits. Undertaking the **main design and obtaining the construction permits** for the construction of a new double-track railway line.

Value of Services: Cca. €7 Million

Site Supervision of Construction Works on the Highway E-80

Serbia

Project Description

Supervision of construction works on the highway E80, section Prosek-Dimitrovgrad (Corridor Xc), with a total length of **59.6 km** and including **43 bridges**, **4 tunnels**, and **3 interchanges**, besides of drainage and ancillary works.

IRD's Role

Supervision of the contractors in all aspects of fulfilment of their obligations, responsibilities and undertakings made with respect to carrying out and completing of the works contracts (Engineer according to **FIDIC Red Book**).

Value of Services: Cca. €18 Million
Total Investment: Cca. €1.3 Billion



Engineering Services for Water and Sewerage Systems

Albania



Project Description

The objective of the project was to improve the water and wastewater infrastructure in a selected group of municipalities in Albania: Construction of 18 km of secondary and tertiary **sewerage systems** in Vlora; construction of a 26 km gravity network, 6 **pumping stations** and 10 km pressure mains in Ksamil; extension of **wastewater treatment plant** in Kavaja, from 25,000 PE to **75,000 PE**, including sludge treatment facilities.

IRD's Role

Elaboration of the **detailed design and tender dossiers** for the construction of the sewerage systems. **Procurement support and supervision of works.**

Value of Services: Cca. €2.9 Million

Technical Expert for the Central Ring Road of Moscow (CKAD3)

Russia

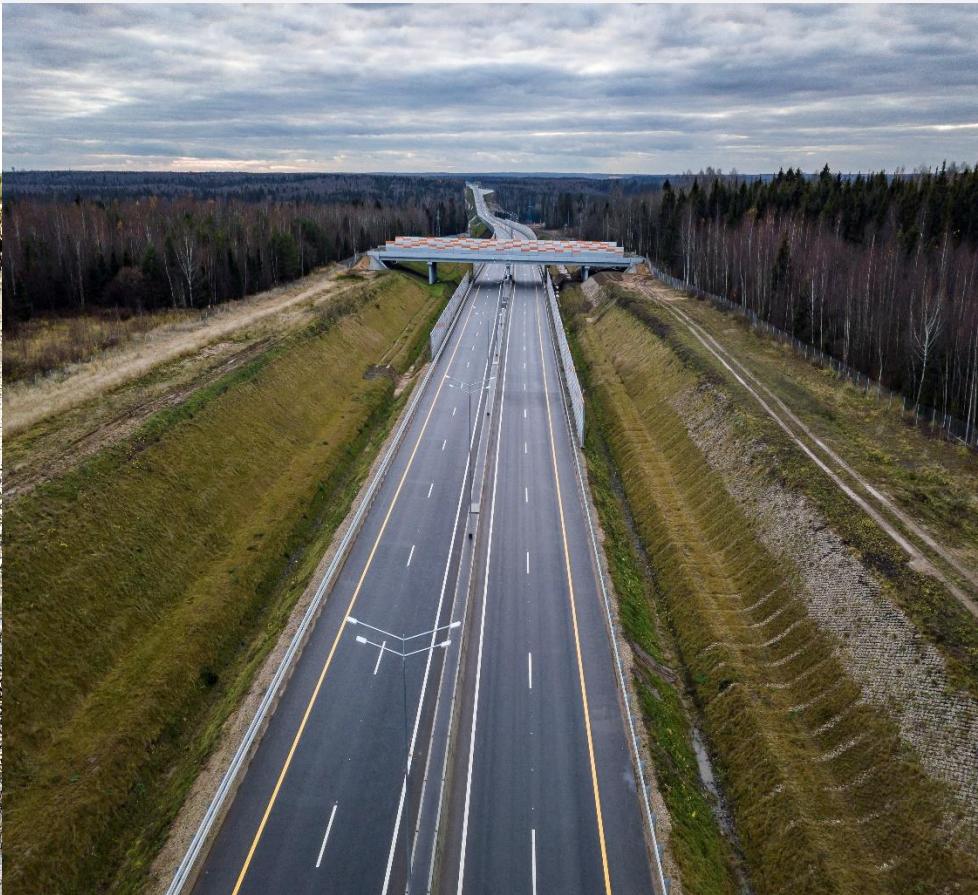
Project Description

The Central Ring Road (CRR) in Moscow is a **road category type IA with four lanes** (an upgrade to six lanes shall be decided in due course). Its extension is approximately **105 Km** with an estimated traffic speed of **140 Km/h**. The section includes **72 bridge structures**, 2 of them over **200 m span**, and 9 interchanges.

IRD's Role

IRD Engineering was nominated as "Technical Expert", being entrusted to **review and optimize the design documentation**, to perform functions of **Construction Control**, to monitor compliance of the construction with the schedule for the works contract, and to carry out audits of the general contractor's works.

Value of Services: Cca. €14.5 Million
Total Investment: Cca. €1 Billion



Supervision of works for Subotica Wastewater Plant

Serbia



Project Description

Upgrading of the wastewater treatment plant, increasing its hydraulic and biological capacity and adjusting its treatment process to **36,000 m³/day**, what covers the treatment load of **150,000 population equivalent** and includes 8,000 m³/day for industrial wastewater and 4,300 m³/day for groundwater inflow.

IRD's Role

Procurement support following European Union procedures. Supervision of the contractor in all aspects of fulfilment of its obligations, responsibilities and undertakings. **Site supervision** services on behalf of the Contracting Authority, performing the **functions of the "Engineer"** under FIDIC Yellow Book.

Value of Services: Cca. €1.1 Million

Total Investment: Cca. €15 Million

Project Description

Construction of 28.2 km of 4-lane highway, including two double tube tunnels above 1 km length, 6 bridges, 2 interchanges, 5 overpasses, 7 underpasses, and all associated earthworks, pavement and drainage works necessary for the completion of the project in accordance with the design and specifications. The project is part of the Pan-European Corridor X.

IRD's Role

Site Supervision services on behalf of the Contracting Authority, performing the functions of the "Engineer" under FIDIC Red Book.

Value of Services: Cca. €11 Million

Total Investment: Cca. €210 Million



Design and Site Supervision of the East African Kidney Institute

Kenya



Project Description

The services included under this project are the **design phase and supervision consultancy** services for the construction of a research and teaching complex for the East African Kidney institute to be located at Kenyatta National Hospital grounds. The planning and design of the building follow the "green building approach".

IRD's Role

Our team, in consortium with Politecnica Ingegneria and DBA Group, prepared the **detailed designs** (Architectural, Structural, Electrical, Mechanical, Civil Engineering) and the Bills of Quantities with Cost Estimation. **Supervision of the works to ensure that the works are implemented with high standards of workmanship, within the agreed timelines and within the approved budget in accordance with the drawings and specifications.**

Value of Services: Cca. €1 Million

Engineering Services for Logistic Centers in Central Asia

Kazakhstan

Project Description

Provision of engineering support to facilitate the movements of goods along the TRACECA corridor by **improving logistics capabilities, interoperability and multimodal transport**.

The specific objective of this project was to develop financial, technical, environmental and institutional conditions and studies for a network of logistical centers along the TRACECA corridor.

IRD's Role

Our team provided a set of **feasibility studies and preliminary designs for selected logistic centres** to be developed on the TRACECA corridor.

Value of Services: Cca. € 2 Million



Supervision of Works for Krraba Tunnel

Albania



Project Description

Supervision activities during the construction of the Krraba Tunnel in the road section Tirana-Elbasan. The works included the excavation and construction of a **double road tunnel with two lanes for each direction**.

The length of the tunnel towards Tirana is 2,321 m and towards Elbasan 2,580 m.

IRD's Role

Independent Engineer according to FIDIC Conditions of Contract. Assistance to the Client (General Roads Directorate) in all contract management-related tasks, including the preparation, execution, and taking over of any elements of the works. Review of NATM Designs.

Value of Services: Cca. €2.2 Million

Total Investment: Cca. €80 Million

Kabul International Airport at KAIA North

Afghanistan

Project Description

Design, procurement support, and supervision of the works for the ISAF Operational, Logistics, and Life Support Facilities at KAIA North.

IRD's Role

Preparation of the **detailed design** for all the facilities. Assistance to the client in the preparation of the works contract documentation and during the evaluation and award process resulting in a construction contract.

Supervision of works and project management support.

Value of Services: Cca. €450,000

Total Investment: Cca. €50 Million



Supervision of Civil Works on the Road M03

Ukraine



Project Description

Capital repair of three sections of the M03 Road (10.8 km, 11.3 km and 17 km long), including roads, bridges, drainage, and ancillary works. The works were situated to the east of Lubny and follows the alignment of the existing M03 Road, between town of Lubny and city of Poltava. Approximately, 35 km of the existing M03 Road were repaired.

IRD's Role

Supervision of the Contractor in all aspects, of fulfilment of their obligations, responsibilities and undertakings made with respect to carrying out and completing of the works contract. (Engineer according to FIDIC MDBH)

Value of Services: Cca. €4 Million

Total Investment: Cca. €130 Million

Seismic Safety Improvement Program (SSIP)

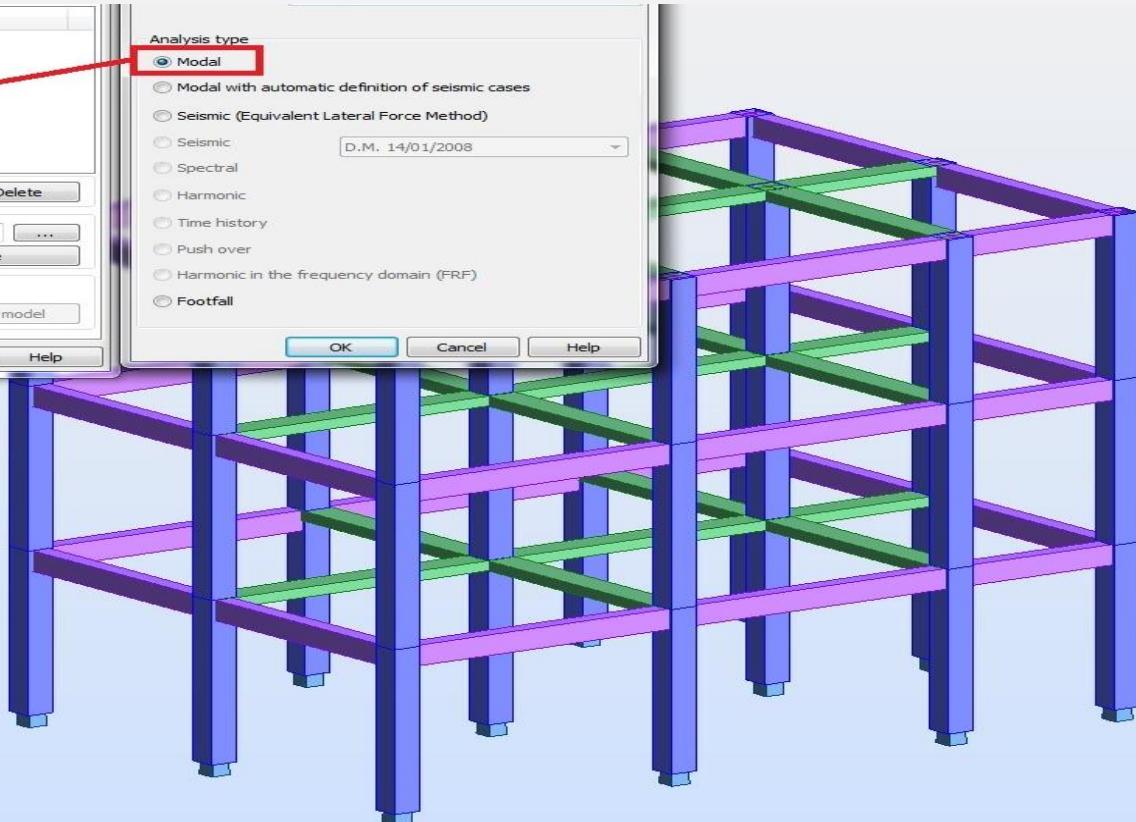
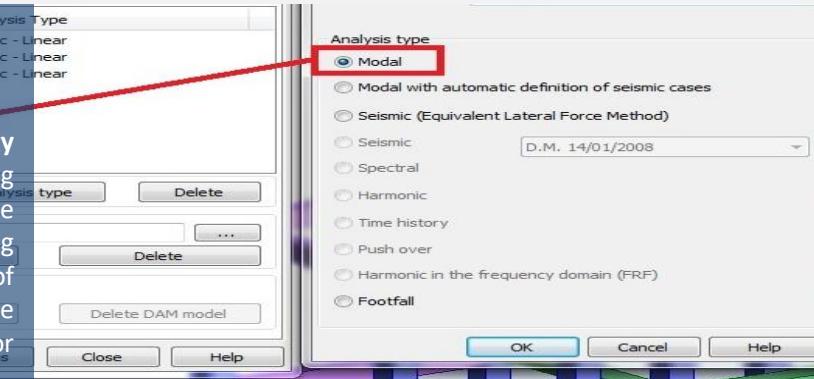
Armenia

Project Description

Implementation of the National Strategy for Disaster Risk Reduction by improving seismic safety of schools to reduce casualties and damage during earthquakes and enabling a better use of school buildings as shelters for the general public and as focal points for emergency response after earthquakes.

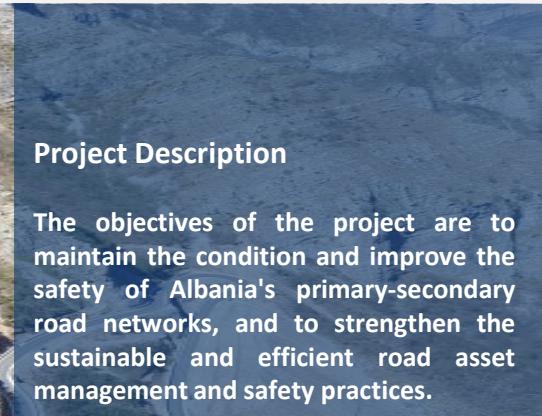
IRD's Role

Technical assistance to the government in improving the supportive policies and systems for **seismic risk management** and reduction. Strengthening of the Country's seismic disaster preparedness and response capacity. Technical assistance for enhancing the capacity in executing and implementing the investment program for seismic safety management and the Seismic Safety Improvement Program.



Result-Based Road Maintenance and Safety Project

Albania



Project Description

The objectives of the project are to maintain the condition and improve the safety of Albania's primary-secondary road networks, and to strengthen the sustainable and efficient road asset management and safety practices.

IRD's Role

IRD's team provides supervision services for the periodic and routine maintenance of the road network and supports institutional reforms at the Albanian Road Administration.

Total Investment: Cca. \$156 Million

Project Description

Supervision of **detailed design** of the new **4-lanes motorway section** (36 km long), **supervision of the construction works** under FIDIC Yellow Book, and assistance during the Defects Notification Period.

IRD's Role

Supervision of the detailed design. Supervision of the Contractor in all aspects of fulfilment of its obligations, responsibilities and undertakings, made with respect to carrying out and completing of the motorway's design and construction (FIDIC Yellow Book).

Value of Services: Cca. €7.4 Million

Total Investment: Cca. €195 Million



Supervision of the Hajigabul Bahramtepe Road Section

Azerbaijan



Project Description

Improvement of 112.5 km of the Hajigabul- Bahramtepe section of the M6 Hajigabul-Horadiz road and rehabilitation of approximately 200 km of local roads connecting neighbouring villages with Hajigabul- Bahramtepe road, including also the rehabilitation of the major bridges over the river Kur and the construction of a new one (310 meters).

IRD's Role

Supervision of the contractors in all aspects of fulfilment of their obligations, responsibilities and undertakings, made with respect to carrying out and completing of the works contracts (Engineer according to the FIDIC MDBH 2006)

Value of Services: Cca. €5.5 Million

Total Investment: Cca. €230 Million

Project Description

The project was financed by the European Union and comprised the **design and construction of the sewerage systems** in Velipoja and in the industrial area of Shkodra, covering an overall population of 135,000 inhabitants.

IRD's Role

Preparation of **detailed design and tender dossier** for works. Preparation of **technical specification** and tender dossier for the supply of any necessary equipment and machinery for the operation of the entire sewerage system.

Procurement support.

Value of Services: Cca. €500,000



Consultancy Services for the North-South Road Corridor

Armenia



Project Description

Feasibility study and preliminary design for the road section from Artashat South to Qajaran (**about 304 km**), and **detailed design of about 60 km** of the north-south road corridor, from Sisian to Kajaran.

IRD's Role

Preparation of the feasibility study and preliminary design, including full field surveys, draft due diligence documents, and draft bidding documents. Undertaking the **detailed design for about 60 km** from Sisian to Kajaran, including full field surveys, final due diligence documents, and final bidding documents. Land acquisition and resettlement plan and environmental impact studies.

Total Investment: Cca. \$150 Million

Technical Assistance for the Modernization of Motorway Management Practices

Azerbaijan

Project Description

Improvement of Azerbaijan motorway network including the **modernization of motorway management practices and establishment of a new Motorway Unit within the Maintenance Department of the AzerRoadService.**

IRD's Role

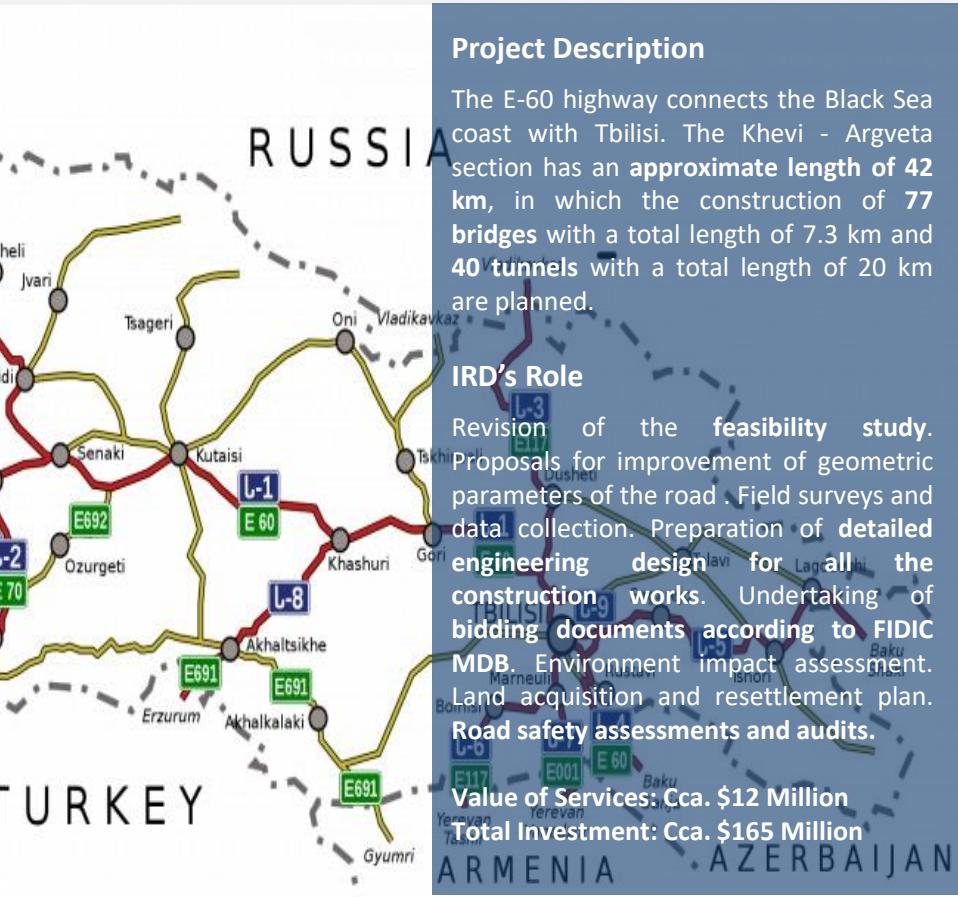
Technical Assistance for the establishment of a Motorway Management Unit and modernization of motorway management practices in Azerbaijan. Support to the establishment of a **performance-based approach** to maintenance and operation. Development of a **Service Level Agreement** between the Motorway Unit and the selected operation and maintenance operators.

Value of Services: Cca. \$1.8 Million



Detailed Design for the Highway E60 – Section Khevi-Argveta

Georgia



QA Services for the Runway Extension and Apron Construction at Herat Airport

Afghanistan

Project Description

Extension of the runway, 655 m long and 45 m wide. A new hammerhead of approximately 4,500 m², with flexible pavement, was also realized. The works included also drainage works, and marking and lighting systems according to ICAO and STANAG standards. Construction of a fighter aircraft parking apron and taxiways linking it to the existing runway.

IRD's Role

Provision of quality assurance supervision services along the construction works, until completion and commissioning. Design monitoring and review. Project implementation scheduling.

Total Investment: Cca. €10 Million



Design Review & Construction Supervision of Batrovci Border Crossing Infrastructure Facilities

Serbia



Project Description

Funded by the European Union, the specific objective of this contract was to assist the Government of Serbia in preparing and implementing an infrastructure project for the upgrading of the border crossing point at Batrovci (border with Croatia).

IRD's Role

Our team undertook the overall revision of the detailed design and supervision of the construction of the works, acting as the “Engineer” under FIDIC Conditions for Contract.

Value of Services: Cca. € 0.7 Million

Supervision of Restoration Works in Historical Heritage Sites

Albania

Project Description

Provision of **supervision services** during the restoration and construction works aiming to the valorization of urban areas around Albanian **historical sites in the municipalities of Shkodra, Elbasan, Korca and Berat.**



IRD's Role

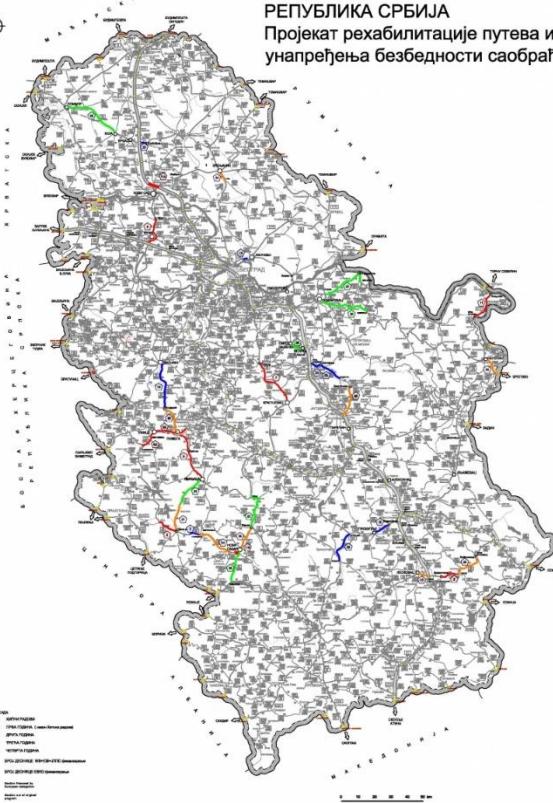
Acting as the **supervisor according to the General Conditions for Works Contracts Financed by the European Union.** Contract administration and works supervision in compliance with the Conditions of Contract for the concerned works contracts.

Total Investment: Cca. €3.2 Million

Road Rehabilitation and Safety Programme

Serbia

РЕПУБЛИКА СРБИЈА
 Пројекат рехабилитације путева и
 унапређења безбедности саобраћаја



Project Description

The project is jointly financed by European Investment Bank, the European Bank for Reconstruction and Development and the World Bank, aiming at **supporting the rehabilitation and safety improvement of about 1,100 km of roads across the Serbian national network.**

IRD's Role

Our supervision services cover 31 sections all over the territory of Republic of Serbia in a total length of 670 km. Our team is undertaking the **overall revision of the detailed design and supervision of the construction of the works under SBD for Procurement of Small Works (the World Bank) Conditions of Contract.**

Value of Services: Cca. € 5 Million

Total Investment: Cca. € 274 Million

Development of the Strategic Transport Master Plan for the Capital City of Addis Ababa

Ethiopia

Project Description

The assignment, funded by the World Bank, is part of the Transport Systems Improvement Project that is being promoted by the Addis Ababa City Roads Authority. It aims at **assessing the existing and future transport conditions, setting transport goals for the city, reviewing the transport network and land use, and identifying the necessary policy and infrastructure interventions.**

IRD's Role

Addressing all aspects of Addis Ababa's transport system, including transport governance, road development, and public transport. Analysing the potential integration of different modes of transport, promoting sustainable transport systems, and improving traffic safety.



Consultant Services for Improvement of Road Management Practices

Uzbekistan



Project Description

The assignment is financed by the World Bank within the Loan Agreement «Regional Roads Development Project», which envisages undertaking priority road sector institutional strengthening activities, among others.

IRD's Role

Technical assistance to the State Committee for Automobile Roads for the preparation of a sustainable program for regional road asset management, the modernisation of road surveys technology and management tools, and the implementation of an overall training and capacity development package in road management and maintenance activities.

Value of Services: Cca. €1.5 Million



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