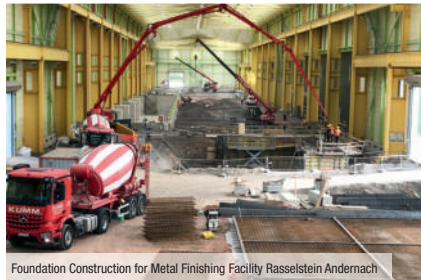




Bridge Inspection above Highway B 54 at Olpe



Foundation Construction for Metal Finishing Facility Rasselstein Andernach



Traffic Routing for Highway A 643 at the core of Schiersteiner Bridge (© LBM)

KOCKS

INGENIEURE

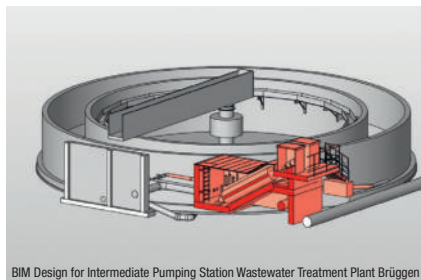
Comprehensive Engineering Solutions - worldwide since 1946

KOCKS

ENGINEERS



Construction Supervision for Media Supply Riederwaldtunnel Frankfurt a. M.



BIM Design for Intermediate Pumping Station Wastewater Treatment Plant Brüggem



Design and Construction Supervision of Sewer Renewal "Lange Straße" Frankfurt a. M.

People throughout the world have rising expectations regarding the development of their quality of life. Likewise and in tow with this, the sense of responsibility to fair better for society and the environment is growing in many economic, industrial and political sectors. Technology, globalization and networking are advancing on a daily basis. Tasks and requirements are subject to constant change.

Since its founding in 1946, KOCKS ENGINEERS have been committed to performing sophisticated infrastructure assignments with high responsibility in dynamically changing environments. With sound, quality-assured services KOCKS ENGINEERS provide clients with comprehensive solutions and support them both in the implementation of their tasks and the consolidation and development of their market position. Through their performance, KOCKS ENGINEERS aim at contributing to an improved quality of life and the value-based development of economic hubs and businesses.

Today, KOCKS ENGINEERS focus on the sectors of water supply and disposal, transport infrastructure, industrial construction as well as environment and waste management. KOCKS ENGINEERS satisfy engineering consultancy requirements of public clients, internationally financed technical and financial aid projects and many clients from industry and private background worldwide.

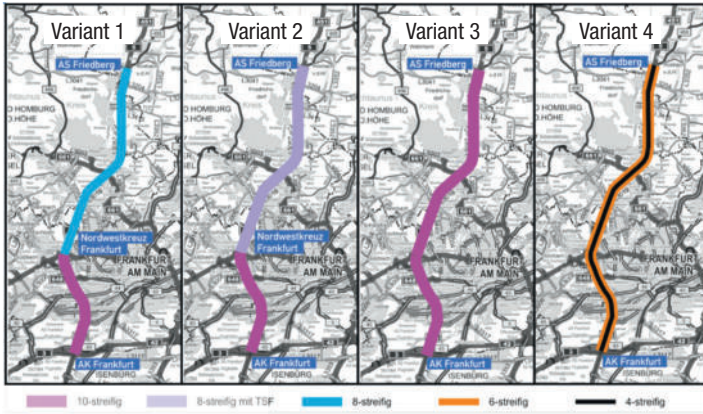
The key to KOCKS ENGINEERS' and our clients' success lies in the high individual competency and professionalism of our project lead engineers coupled with interdisciplinary cooperation of quality-committed teams that assist our clients throughout the whole project and onwards after completion. Strategic partnerships with like-minded professional partner companies complete this portfolio on an international scale.

Today, about 200 engineers, technicians, scientists, economists and other experts closely related to the construction sector provide consulting services from currently ten branch offices and construction sites in over 20 countries worldwide. KOCKS ENGINEERS are registered with most international financial institutions and operate an integrated risk and quality assurance management system.

KOCKS ENGINEERS have been continuously certified according to current ISO 9001 since 2006. Dedicated health and safety, business integrity and data protection management systems complete our professional approach.

Despite the COVID-19 pandemic, 2020 has been a highly successful year for KOCKS ENGINEERS, and we have been able to continue many interesting and challenging projects, thereby keeping our clients' targets on track. We hope you enjoy reading this year's company update. Please stay healthy and safe!

Dr. Henning Kocks Michael Brinkmann



Ten-Lane Highway Extension A 5 Frankfurt

Highway extension to ten lanes of highway A 5 over a length of 29 km north of Frankfurt, including rehabilitation of motorway junctions. Definition of new design standards, traffic modelling, microsimulation, environmental issues and technical feasibility.

Client Federal State Roads Authority of Hessen

Financing Ministry of Transport and Digital Infrastructure, Germany

Services KOCKS ENGINEERS Technical feasibility, constraint points analysis, routing, cost estimate.

Project partners: BBW Bochum, RuhrUni Bochum, Bosch&Partner.

New Manufacturing Plant Chemical Industry, Cologne

Establishment of a new manufacturing facility for the chemical industry in steel and solid construction. Associated tank foundations implemented in reinforced concrete retention basins. Construction of various pipe bridges within the steel construction

Client Nouryon Functional Chemicals GmbH

Services KOCKS ENGINEERS Assistance in preparation of service specifications, structural engineering, formwork and reinforcement plans. Steel construction overviews.



Isometry pipe bridges



New aeration and secondary settlement tanks at WWTP Ledde

Rehabilitation and Extension of Wastewater Treatment Plant Ledde, Tecklenburg

Construction of a new mechanical treatment stage, an aeration tank, a secondary settlement tank and a blower station with phosphate precipitation and control room.

Client Emscher Wassertechnik GmbH, Essen

Services KOCKS ENGINEERS Design and tendering for electrical equipment. Review and approval of workshop drawings. Construction supervision for mechanical and electrical equipment. Tendering and site supervision for civil engineering structures.

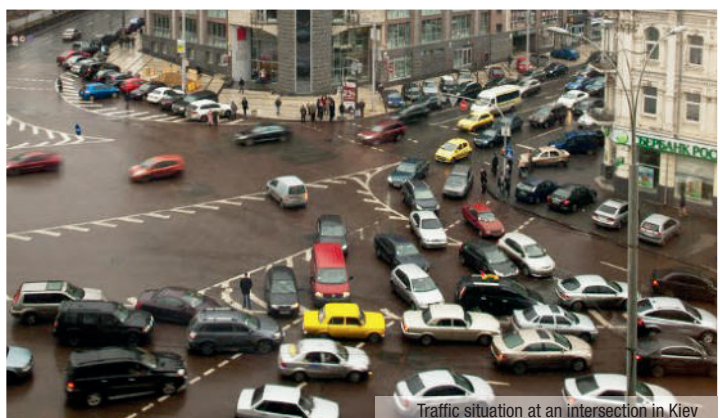
Traffic Safety Enhancement Ukraine

Implementation of training programmes for the enhancement of traffic safety in the cities of Kiev, Lviv, Kharkov, Odessa and Dnipro. Improvement of the public transport system and traffic flow in the existing transport infrastructure.

Client / Financing European Investment Bank

Services KOCKS ENGINEERS Consulting and training of expert staff in development and implementation of suitable measures for traffic and road safety.

Project partner: IMC, London



Traffic situation at an intersection in Kiev



Street floodings in Barisal

Climate Change Adapted Urban Development, Bangladesh

Expansion and capacity increase of the primary, secondary and tertiary drains in Barisal, Bangladesh. Strengthening of client's adaptive capacity to climate risks.

Client Barisal City Corp., Bangladesh

Financing Kreditanstalt für Wiederaufbau (KfW)

Services KOCKS ENGINEERS Project management, surveys, concepts, detailed design, procurement, contract management, construction supervision, environmental and social safeguard and support, capacity building, staff training, operation and maintenance planning and support.

Rehabilitation of International North-South Rail Transport Corridor, Azerbaijan

Renewal of the two-lane track system, including technical railway infrastructure, of Yalama – Sumgait railroad over a length of approx. 167 km.

Client Azerbaijan Railways CSJC

Financing Asian Development Bank

Services KOCKS ENGINEERS Construction supervision and project management, including monitoring of cost, quality and construction works schedule, review of design and contract documentation, contract amendment management, environmental and social monitoring.

Project partner: SSF Engineers, Munich



Existing rail link at kilometer 2+494



Karfirnigan Bridge, Tajikistan

CAREC Transport Corridor, Tajikistan

Rehabilitation and upgrade of Dushanbe – Kurgonteppa road (Afghan border) under the Central Asia Regional Economic Cooperation Programme. Extension to four lanes on road section 0 – 34 km, Phase 1 and section 34 - 73, Phase 2.

Client Ministry of Transport, Tajikistan

Services KOCKS ENGINEERS Construction supervision, environmental and social monitoring. Construction volume 55 (Phase 1) + 56 million (Phase 2) USD, length 73 km, 23 bridges, 81 culverts DN 1.500, 32 culverts 2.0x2.0 to 4.5x2.5 m, estimated construction period 3 years.

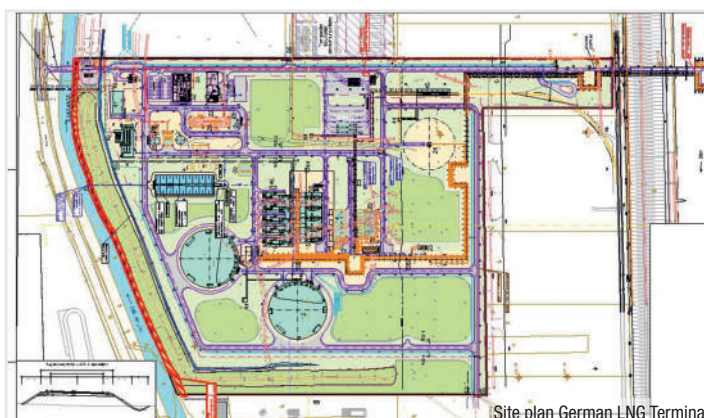
Project partner: FinnOC, Finland

German LNG Terminal, Brunsbüttel

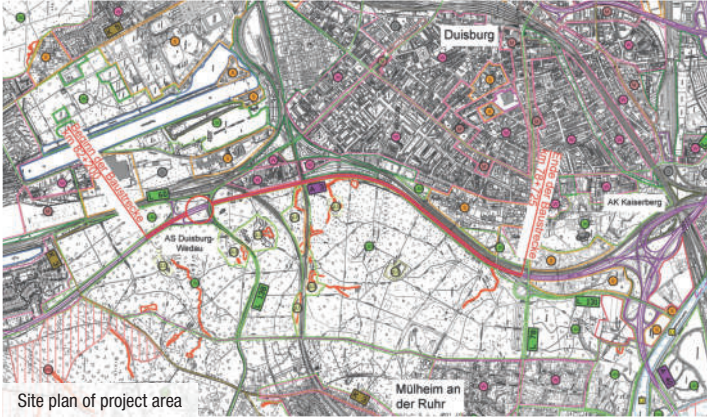
Construction of a Liquefied Natural Gas terminal in Brunsbüttel.

Client Tractebel Engineering / Plant Engineering

Services KOCKS ENGINEERS Preparation of detailed design for building construction permits according to state building regulations. Preparation of preliminary structural analysis for dimensioning of structural facilities. Preparation of drainage concept.



Site plan German LNG Terminal



Highway Extension A 3 Duisburg, Germany

Highway extension from six to eight lanes of highway A 3 over 3.5 km, including implementation of drainage and noise protection measures.

Client State Government Enterprise of North Rhine-Westphalia

Financing Ministry of Transport and Digital Infrastructure, Germany

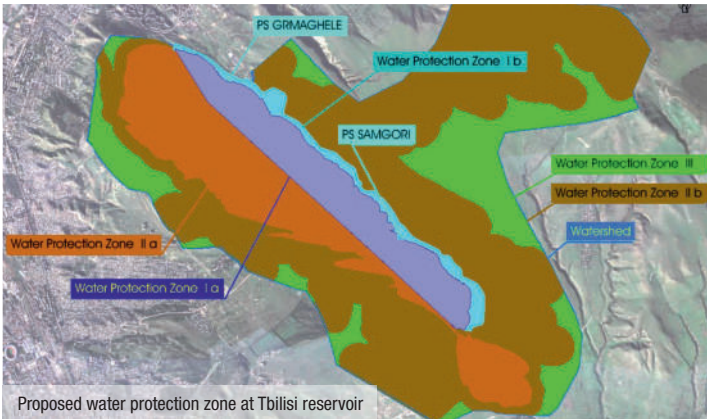
Services **KOCKS ENGINEERS** Transport planning and design, including traffic routing during construction. Design of drainage facilities, noise protection measures. Implementation of the requirements of the European Water Framework Directive.

BIM Design for Construction Variants for Bridge “Nahebrücke“ at Büdesheim

Study for replacement of the existing two-lane bridge on highway B 9 as overpass over the river Nahe and railroad track at Büdesheim.

Client / Financing Federal State Roads Authority of Rhineland-Palatinate

Services **KOCKS ENGINEERS** Preliminary design of three construction variants by means of BIM design, including cost estimate and comparison of variants. Preliminary design of demolition variants of the existing structures, including cost estimate and comparison of variants.



Tbilisi Water Reservoir Management Plan, Georgia

Preparation of an integrated management plan for the Tbilisi Reservoir. Analysis of conflicts of interest and elaboration of perspectives for drinking water supply, irrigation, leisure and recreation.

Client Georgian Water and Power LLC, Tbilisi, Georgia

Financing KfW – DEG

Services **KOCKS ENGINEERS** Rainfall-runoff-modelling. Evaluation of pollution danger. Definition of water protection measures based on Georgian regulations and European standards. Economic assessment of water protection measures.

Change of Production in Automotive Industry, Rüsselsheim

Reconstruction of various manufacturing buildings for the modernization and extension of production range for the Astra model. Review of structural analysis with regard to the modified loads in the existing bearing structure.

Client Opel Automobile GmbH

Services **KOCKS ENGINEERS** Structural design.





Existing aeration tank wastewater treatment plant Rodenbach

Reconstruction and Extension of Wastewater Treatment Plant Rodenbach

Implementation of a new primary settlement tank, including primary sludge pump station, sludge digestion and sewer gas processing to achieve the transition to anaerobic sludge digestion. Extension and rehabilitation of the grit chamber and the ventilation of aeration tank.

Client Municipality of Rodenbach

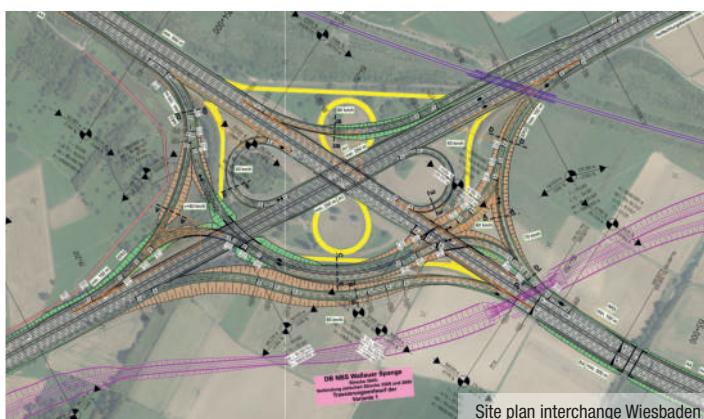
Services KOCKS ENGINEERS Basic evaluation, preliminary design, draft design, detailed design. Tendering and site supervision for structural, technical and electrical equipment.

Highway Interchange A 3 / A 66 Wiesbaden

Upgrading of the highway interchange near Frankfurt Airport under the Federal Road Network Plan 2030. Adjustment of the adjacent highway sections and implementation of two junctions for traffic capacity enhancement and elimination of bottlenecks.

Client DEGES

Services KOCKS ENGINEERS Preliminary transport and road design.



Site plan interchange Wiesbaden



Recycling works in Sardarapat

Transport Infrastructure Rural Regions, Armenia

Improvement of transport connections in rural regions of Armenia. Rehabilitation of 75 km local access roads under the World Bank financed Lifeline Road Network Improvement Project (LRNIP).

Client Ministry of Transport, Armenia

Financing World Bank (IBRD)

Services KOCKS ENGINEERS Construction supervision, including review of design and contract documentation, project management, monitoring of construction works schedule, quality and cost monitoring. Contract amendment management and training of project participants.

Opel Engine Plant in Tychy, Poland

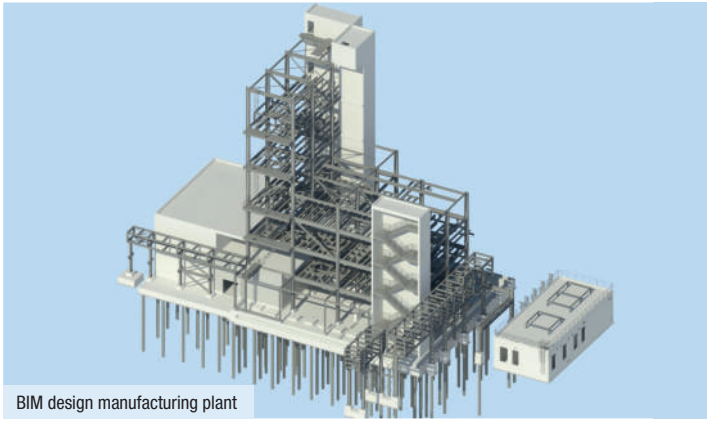
Extension and modernization of an existing car engine plant. Reconstruction and extension of the existing manufacturing area by new buildings. Upgrading of media supply. Construction of new transport and outdoor areas. Construction of a new portal building.

Client Opel Manufacturing Poland

Services KOCKS ENGINEERS Project management, master planning, construction supervision, health and safety coordination. Assistance in environmental approval. Obtaining of use permit.



Central cooling plant with media bridge



BIM design manufacturing plant

BIM Design Manufacturing Plant Chemical Industry, Frankfurt/Main

BIM design and construction of a new 39 m high manufacturing plant and adjacent technical building. Bottom slab on pile foundation, rising concrete and steel construction with staircase towers and lift shaft. New pipe bridges on pile foundation. Rehabilitation of concrete collecting basins. Firewater basin. Implementation of the retention and coating systems in strict compliance with Water Resources Act.

Client SpiraTec Engineering GmbH

Services KOCKS ENGINEERS Structural design, construction supervision, health and safety coordination.

Highway Extension A 1 and Rhine Bridge Leverkusen

Extension of highway A 1 to eight lanes, including construction of the new Rhine Bridge Leverkusen and upgrading of the motorway junctions and cloverleaves on both sides of the river.

Client State Government Enterprise of North Rhine-Westphalia

Employer Grassl Ingenieure

Financing Federal Ministry of Transport and Digital Infrastructure, Germany

Services KOCKS ENGINEERS Transport design, including transport facilities and drainage (basic evaluation, preliminary design, draft design, approval design, detailed design). Construction schedule, traffic routing during construction, noise protection study.



Rehabilitation of A 1 with Rhine Bridge Leverkusen



3D visualisation waste logistics centre Thilafushi

Waste Management, Maldives

Implementation of construction phase I (2020-2023) for waste management and logistic centres as well as waste collection, transport and transfer stations.

Client Ministry of Environment, Maldives

Financing Asian Development Bank

Services KOCKS ENGINEERS Design, tendering, construction supervision and project management for island waste logistics centres, waste collections and transportation systems, transfer stations, waste logistic centre.

Project partners: Water Solutions Pvt. Ltd. and GOPA Infra GmbH

Detailed Studies for Extension of Highway A 643 Mainz

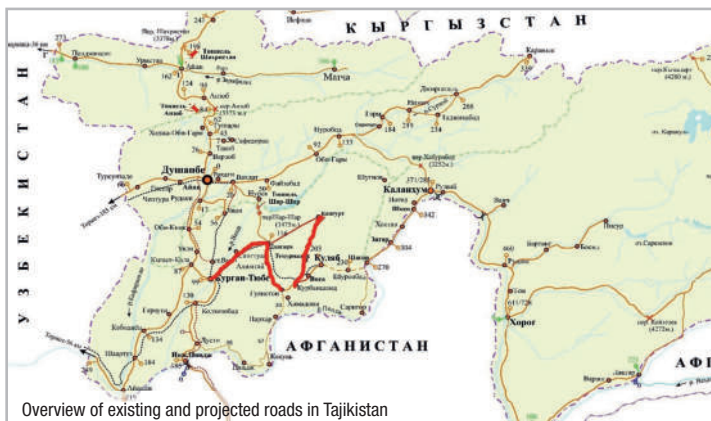
Extension to six lanes of highway A 643 section Mainz-Mombach / Schiersteiner Bridge.

Client Federal State Roads Authority of Rhineland-Palatinate

Services KOCKS ENGINEERS Engineering study of traffic construction and interim stages at the transition point from the interchange Mainz-Mombach to Schiersteiner Bridge, including design of temporary traffic routing for several construction phases.



Traffic routing at highway A 643 at the core of Schiersteiner Bridge (© LBM)



Overview of existing and projected roads in Tajikistan

Road Network Improvement Tajikistan

Rehabilitation and upgrading of two regional roads over a length of 184 km in southeastern Tajikistan aimed at the general improvement of the national arterial road network and facilitation of freight traffic in the country.

Client Ministry of Transport, Tajikistan

Financing Asian Development Bank

Services KOCKS ENGINEERS Preliminary and detailed design. Preparation of tender documents and procurement assistance, including economic study, environmental study, land acquisition plan, social and poverty study.

Flood Protection Georgia

United Nations Development Programme to reduce climate induced flood hazards in three regions through implementation of following protection measures: Diversion channel for Kobuleti (River Achkva) and adjustment of existing flood protection dams for the regions Lagodekhi (River Lagodekhiskevi) and Pirveli Maisi (River Tskhenistskali).

Client United Nations Development Programme

Services KOCKS ENGINEERS Survey, hydrological calculations, design and tendering of flood protection measures.



Kintrishi River and the diversion channel from Achkva River



Water intake station at Mossul lake

Drinking Water Supply Kurdistan, Northern Iraq

Securing drinking water supply for refugees and internally displaced people (IDP) camps as well as for receiving municipalities in Dohuk Governorate, Northern Iraq. Construction of a new water intake at Mossul lake, a water treatment plant (5,000 m³/d), 18 km pipelines (DN 300 to DN 1200) and a water tank (12,000 m³).

Client Gesellschaft für Internationale Zusammenarbeit (GIZ)

Services KOCKS ENGINEERS Preliminary design, detailed design, tender documents, site supervision.

Grigoleti – Kobuleti Bypass Georgia

Upgrade of the Grigoleti – Kobuleti bypass for a better connection of the Black Sea coast to the new highway section Samtredia – Grigoleti on highway E70. Project road section length is 14 km with 16 bridge structures.

Client Road Administration of the Ministry of Regional Development and Infrastructure, Georgia

Financing European Investment Bank

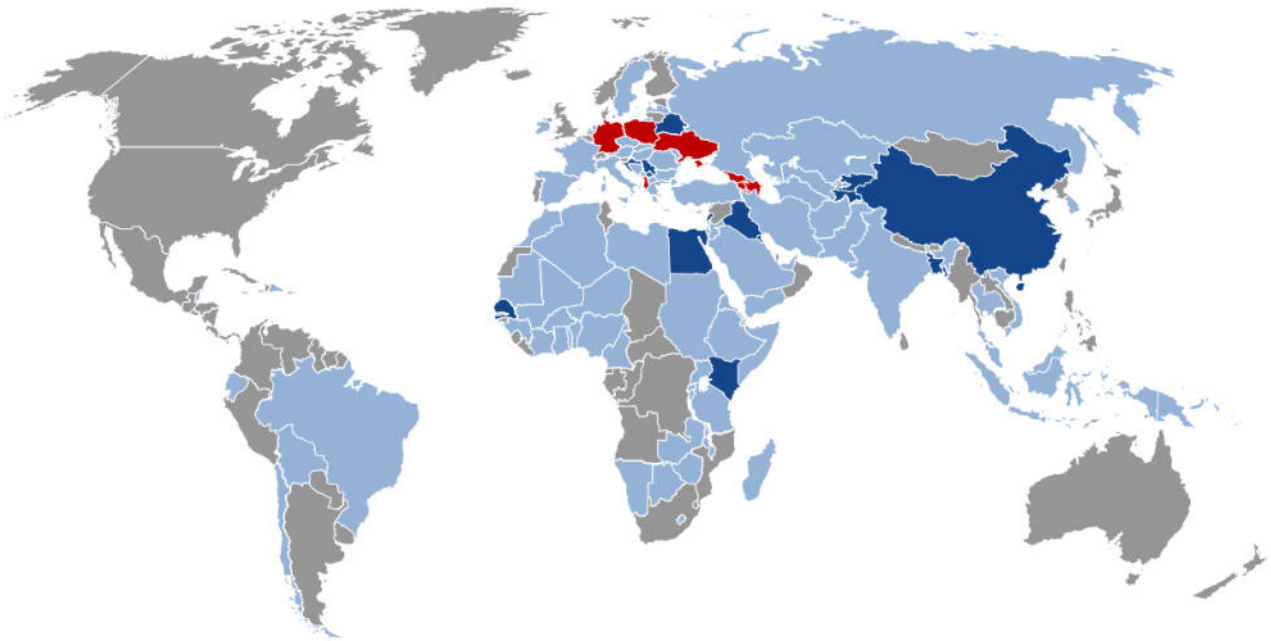
Services KOCKS ENGINEERS Construction supervision of bridge structures, contract management and monitoring of land acquisition and social plans.

Project partner: Temelsu International Engineering Services Inc.



Bored piles for bridge foundations

Comprehensive Engineering Solutions worldwide since 1946



Registered KOCKS Branches: Albania, Armenia, Azerbaijan, Germany, Georgia, Malta, Poland, Ukraine



Projects 2020 in: Albania, Armenia, Azerbaijan, Bangladesh, Belarus, China, Croatia, Egypt, Georgia, Iraq, Kenya, Kuwait, Kyrgyzstan, Lebanon, Luxembourg, Maldives, Poland, Senegal, Serbia, Tajikistan, Ukraine



Projects since 1946 (historical overview)

The present brochure was issued by Kocks Consult GmbH for distribution in Germany and abroad among clients and employees as well as friends of the company. Responsible for editing are: Olga Klassen and Dr. Henning Kocks. The Management thanks all members of staff and business partners in Germany and abroad for support, successful performance and cooperation.

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Pages 1, 6: Traffic routing at highway A 643 at the core of Schiersteiner Bridge: © LBM