Major structures & Geotechnics

- Bridges and civil engineering structures
- Tunnels and underground structures
- Geotechnics and materials
Major structures & Geotechnics

€40,8 M IN TURNOVER IN 2018
350 EMPLOYEES

6 offices in France
1 subsidiary in Asia (Bangkok)
ACTIVITY SECTORS AND EXPERTISE

Our Expertise

- Bridges, viaducts, footbridges
- Retaining walls
- Dams
- Logistical and industrial platforms
- Large urban excavations
- Retaining and soil/structure works
- Soil reinforcement and stabilisation

- Protection against natural hazards
- Earthworks
- Cut-and-covers
- Tunnels and underground structures

Activity sectors

- Bridges and Civil engineering structures
- Tunnels and underground structures
- Geotechnics and materials

Our certifications

ISO 9001 and 14001 - OHSAS 18001 - COFRAC - OPQIBI Qualifications
OUR SERVICES

Engineering

- Technical diagnosis, expert appraisals
- Feasibility studies
- Specific studies
- Design Studies
- Purchasing & works procurement
- Detailed design review
- Full EPCM services and works supervision
- Integrated engineering
- Assistance to operations
- Turnkey solutions

Consultancy

- Project management consultancy
- Consultancy and strategic studies
- Specialised consultancy (audit, expert appraisals, etc.)
- Risk management

Our commitment:

- To be a committed and reliable company, attentive to its partners and customers.
- To implement your projects with a global and integrated vision of their stakes.
- To support you in the financing of your projects
- To guarantee you, through our experience and expertise, the best technical, economic, legal and contractual solutions.
OUR MAJOR STRUCTURES AND GEOTECHNICS ACTIVITY
FOCUS  Bridges and Civil engineering structures

Our services:

- For our project owners and project manager clients:
  - ✓ Upstream studies (conceptual, feasibility, preliminary and detailed design, etc.)
  - ✓ EPCM
  - ✓ Works supervision

- For our construction company clients:
  - ✓ Alternative design and design optimisation studies for construction, design & build and PPP tenders
  - ✓ Final detailed design for construction
  - ✓ Study of special construction methods and equipment
  - ✓ Technical assistance

Activity sectors

- We operate on all kinds of structural projects, including:
  - ▶ Design and operation of new bridges
  - ▶ Investigation and analyses for the rehabilitation, repair and maintenance of existing structures,
  - ▶ Asset management
FOCUS Tunnels and underground structures

Our expertise
- Tunnel geology and geotechnical engineering
- Civil engineering
- Operating equipment and systems
- Ventilation
- Safety and operation engineering

Our services
- Full EPCM and works supervision
- Assistance to owners
- Expert advice and consultancy
- Specific design studies: digital modelling, diagnoses, construction methods, ventilation, safety and risk assessment, operation and maintenance procedures, renovation programmes
- Optimisation of construction and operating costs

Activity sectors
- We operate on all new and existing underground works for every type of infrastructure:
  - Road and rail tunnels,
  - Underground galleries and spaces, and more.
FOCUS Geotechnics

Our expertise:
- Geology and hydrogeology
- Soil and rock mechanics
- Digital modelling
- Geotechnical structures
- Building foundations
- Retaining structures and civil engineering works
- Earthworks
- Soil reinforcement
- Materials engineering and testing laboratory
- Asset management

Our services:
- Geotechnical engineering missions
- Geotechnical investigations
- Project management consultancy
- EPCM – Geotechnical works
- Design and feasibility studies
- Detailed design studies, works supervision
- Inspection, troubleshooting and instrumentation
- Expert appraisals/Specific studies

Activity sectors

- Geotechnical expertise is the basis of all engineering projects, whatever their domains:
  - Transport and Infrastructure
  - Civil Engineering structures
  - Quarries
  - Industrial buildings
  - Water infrastructure
REFERENCES

BRIDGES AND CIVIL ENGINEERING STRUCTURES
EPCM FOR THE VIADUCT ON THE NEW COASTAL ROAD

Maritime viaduct of 5.4 km
- Full EPCM and works supervision
- Environmental studies
- Geotechnical studies

MAJOR STRUCTURES AND GEOTECHNICS

Conseil Régional de la réunion

REUNION ISLAND

EPC M FOR THE VIADUCT ON THE NEW COASTAL ROAD

Conseil Régional de la réunion

MARITIME VIADUCT OF 5.4 KM

- Full EPCM and works supervision
- Environmental studies
- Geotechnical studies

MAJOR STRUCTURES AND GEOTECHNICS

Conseil Régional de la réunion

MARITIME VIADUCT OF 5.4 KM

- Full EPCM and works supervision
- Environmental studies
- Geotechnical studies

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- Full EPCM and works supervision
- Environmental studies
- Geotechnical studies

MAJOR STRUCTURES AND GEOTECHNICS
EPCM FOR THE RAILWAY VIADUCT ON LINE B OF THE RENNES METRO

Railway viaduct of 2.9 km including 3 elevated stations.

Major structures and geotechnics

Bridges and civil engineering structures

Rennes Métropole

FRANCE
EPCM FOR THE NORTH SECTION OF THE KENITRA-TANGER HIGH-SPEED RAIL LINE

Office National des Chemins de Fer (ONCF)

An 80 km section between Tanger and Larache including 4 viaducts, of which the 3.5 km long El Hachef viaduct.
EPCM FOR THE CONFLUENCES BRIDGE, ANGERS

Angers Loire Métropole

FRANCE

Bridges and civil engineering structures

A 300m arch bridge over the River Maine.

European Silver Award 2012
DESIGN AND EPCM FOR THE JACQUES CHABAN-DELMAS VERTICAL-LIFT BRIDGE, BORDEAUX

A 433m-long bridge with a 117m lift span.

French national engineering Grand Prix, (GPNI) 2013

FIDIC Awards - Outstanding Project - 2014

Communauté Urbaine de Bordeaux

FRANCE

Bridges and civil engineering structures

MAJOR STRUCTURES AND GEOTECHNICS
DESIGN AND EPCM FOR THE CITADELLE BRIDGE IN STRASBOURG

Communauté Urbaine de Strasbourg

Steel overhead arch bridge supporting a curved suspended deck with a span of 162m

French national engineering Grand Prix (GPNI) - 2016

FIDIC Merit Award - 2017

MAJOR STRUCTURES AND GEOTECHNICS

Bridges and civil engineering structures

FRANCE
DESIGN AND EPCM FOR THE "LA SAVOUREUSE" RAILWAY VIADUCT ON THE RHINE-RHONE HIGH-SPEED RAIL LINE

Réseau Ferré de France

A 792m viaduct supporting a section of the Rhine-Rhône high-speed rail line.

European Bronze Award from the European Convention for Constructional Steelwork - 2012

French Landscaping 1st prize for urban infrastructure - 2011

MAJOR STRUCTURES AND GEOTECHNICS

Bridges and civil engineering structures
DETAILED AND CONSTRUCTION DESIGN FOR THE MOHAMED VI BRIDGE ON THE BOUREGREG OUED

Autoroute du Maroc

952m concrete cable-stayed motorway bridge with a central span of 376m.

Longest cable-stayed bridge in Africa.

Bridges and civil engineering structures

MOROCCO

MAJOR STRUCTURES AND GEOTECHNICS
DETAILED DESIGN AND WORKS SUPERVISION FOR THE INDUSTRIAL RING ROAD, BANGKOK

A 2.2km-long urban bridge supporting 7 traffic lanes and including 2 cable-stayed bridges of 400m and 300m, and a 50m-long elevated interchange.

Dpt of Rural Roads
Ministry of Transport

THAILAND

MAJOR STRUCTURES AND GEOTECHNICS
DETAILED AND CONSTRUCTION DESIGN FOR THE SOUTHER OUTER BANGKOK RING ROAD, BANGKOK

A 941m-long cable-stayed bridge, with a central span of 500m

THAILAND
An 825m-long motorway bridge made up of 6 pans (one of 186m). The highest pillar measures 120m.
EPCM FOR THE BRIDGE OVER BRAS DE LA PLAINE RIVER

Conseil Régional de la Réunion

A single-span 280m road bridge consisting of a prestressed composite truss girder deck.

2002 - Outstanding Concrete Structures award – Osaka FIB Congress
2003 - Outstanding Structure Award - IABSE

REUNION ISLAND

Bridges and civil engineering structures

MAJOR STRUCTURES AND GEOTECHNICS
EPCM FOR THE PAUL VATINE MOVING BRIDGE, LE HAVRE

Mairie du Havre

A 49m-long mechanically welded swing bridge in the port of Le Havre.

FRANCE

MAJOR STRUCTURES AND GEOTECHNICS

Bridges and civil engineering structures
A 250m long bridge over the Bonnant mountain river. Composite truss girder deck with a central span of 170m.
EPCM FOR THE TIMBER BRIDGE OVER THE RIVER DROME IN CREST

Ville de Crest

A 93m-long timber pedestrian/cycle/vehicle bridge over the River Drôme.

FRANCE

MAJOR STRUCTURES AND GEOTECHNICS

Bridges and civil engineering structures
EPCM FOR THE MARIGNIER FOOTBRIDGE

A 49.5m-long timber pedestrian/cycle bridge over the Giffre river.

MAJOR STRUCTURES AND GEOTECHNICS
EPCM FOR THE MULTIMODAL INTERCHANGE FOOTBRIDGE, ST-BRIEUC

A 135m-long steel footbridge, providing access to three train platforms via staircases and glass elevators.

St Brieuc
Agglomération / Ville de St Brieuc

FRANCE
EPCM FOR THE REHABILITATION OF CHASSE VIADUCT ON THE A7 MOTORWAY

Rehabilitation work of a 288m viaduct including carbon fibre reinforcements, treatment of all damaged concrete areas, repair of equipment, and more.
Rehabilitation of a 210m-long concrete prestressed box girder bridge, carried out without interrupting traffic, and including additional external prestressing cables, rehabilitation of the superstructure, and more.
Egis has made BIM its production standard

The digital model used by Egis enables it to design and build a structure as close as possible to the needs of its users, while allowing its clients and stakeholders to gain a better understanding of their projects. It fulfils their demand for digital continuity throughout the life cycle of their facilities (design, construction, operation).

Just some of our projects using BIM: New Coast Road, Reunion Island – Rennes Metro, France – Grand Paris Express, France – Hassan II bridge, Morocco, and many more.
EPCM ASSIGNMENTS FOR THE LYON-TURIN RAILWAY TUNNEL

T.E.L.T.
Tunnel Euralpin Lyon-Turin

- Saint-Martin de la Porte exploratory tunnel,
- TMB Excavation,
- Access shafts at Avrieux.

MAJOR STRUCTURES AND GEOTECHNICS

FRANCE - ITALIE
PROJECT MANAGEMENT CONSULTANCY FOR THE RENOVATION OF BRUSSELS’ TUNNELS

Ministère de la Région de Bruxelles-Capitale

Renovation and security upgrade of 25 tunnels in the centre of Brussels.
EPCM FOR THE RENOVATION OF TUNNELS ON THE A5 MOTORWAY IN SWITZERLAND

Renovation and safety upgrade of several tunnels between Geneva and Lausanne.
EPCM AND SAFETY PLANNING FOR THE EXPANSION OF THE GENEVA STATION

C.F.F. et O.F.R.O.U.

Expansion of the Geneva station and safety upgrade of the tunnels.

SWITZERLAND

MAJOR STRUCTURES AND GEOTECHNICS

Tunnels and underground structures
PROJECT MANAGEMENT CONSULTANCY AND EPCM FOR THE TUNNELS OF LA CROIX ROUSSE, LYON

Design-and-build contract.

Renovation and safety upgrade of a 1700m-long urban tunnel.

Excavation of a second tunnel for green transport modes.

Tunnels and underground structures
EPCM FOR THE CONSTRUCTION OF THE BORNE ROMAINE MOTORWAY TUNNEL

Design and construction of a 755m-long tunnel under the alps

Tunnels and underground structures
**EPCM FOR INFRASTRUCTURE AND SYSTEMS ON THE GRAND PARIS EXPRESS PROJECT**

**Société du Grand Paris Express**

Infrastructure for Line 16 of the future Grand Paris Metro. Systems and services for all RER lines 16 and 17.

A total of 43km of tunnels, 16 stations and multiple ventilation shafts and emergency access points.

**FRANCE**

**MAJOR STRUCTURES AND GEOTECHNICS**
EPCM FOR THE LYON PART-DIEU 2030 PROJECT

Construction of several connected underground structures (stations, car parks, etc.)

Tunnels and underground structures

Grand Lyon

FRANCE

MAJOR STRUCTURES AND GEOTECHNICS
EPCM FOR THE EOLE PROJECT (EXTENSION OF THE RER E IN PARIS)

S.N.C.F. Réseau

Underground infrastructure on the Saint Lazare-Nanterre section, including the construction of a 7km-long tunnel under the Seine, adjacent to the existing metro lines in operation.
EPCM FOR THE CONSTRUCTION OF 3 TUNNELS ON THE A89 MOTORWAY

Construction of 3 tunnels: Violay, Bussières and Chassolet
12km of tunnels – 100 sqm section

Tunnels and underground structures
PROJECT MANAGEMENT CONSULTANCY FOR THE INELFE PROJECT – HIGH VOLTAGE ELECTRIC CONNECTION

TMB excavation

Tunnels and underground structures

MAJOR STRUCTURES AND GEOTECHNICS
ENGINEERING CONSULTANCY FOR THE MODERNISATION OF THE SOFIA-PLOVDIV RAILWAY LINE

Studies of the underground structures.

Tunnels and underground structures

National Railway Infrastructure Company

BULGARIA

MAJOR STRUCTURES AND GEOTECHNICS
FEASIBILITY STUDIES FOR THE CA PASS TUNNEL, PHU YEN-KHANH HOA

Major Structures and Geotechnics

PHU MY BRIDGE CORPORATION

Vietnam

11km of motorway including 2 tunnels

Tunnels and underground structures
EPCM and project management consultancy for the renovation of the Maurice Lemaire tunnel, Sainte-Marie-aux-Mines

Renovation and safety upgrade of a 7km-long tunnel

Digging of a new gallery 6m in diameter

Tunnels and underground structures

A.P.R.R.

FRANCE

MAJOR STRUCTURES AND GEOTECHNICS
GEOTECHNICAL STUDIES FOR THE NORTH SECTION OF THE KENITRA-TANGER HIGH-SPEED RAIL LINE

Geotechnical studies including embankments on compressive soils, earthworks, bridge foundations
Geotechnical studies of mining infrastructure: foundations, earthworks, materials, etc.
GEOTECHNICAL STUDIES FOR THE VIADUCT AND DYKE ON THE NEW COAST ROAD

Geotechnical studies for the foundations, dykes and associated retaining structures

REUNION ISLAND

EGIS

MAJOR STRUCTURES AND GEOTECHNICS
GEOTECHNICAL STUDIES FOR THE GRAND PARIS EXPRESS PROJECT, LINES 16, 16-17, AND 15 EAST

Geotechnical design of stations, excavation management, hydrogeology, sensitivity of existing buildings and instrumentation.
GEOTECHNICAL STUDIES FOR THE SEA EXTENSION OF ANSE DU PORTIER

Studies of embankments at sea, reinforcement works, interaction with maritime works.

Geotechnics and materials
Reinforcement works using rigid inclusions
Instrumentation

Geotechnics and materials
High level scientific resources for materials diagnosis.
Laboratory testing

Geotechnics and materials
GEOTECHNICAL DESIGN AND STUDIES FOR THE NICE TRAMWAY

Geotechnical design of stations, sensitivity of existing buildings, reinforcement works

Geotechnics and materials
Investigations, diagnoses and recommendations for the maintenance and repair of retaining structures.

Geotechnics and materials
HYDROGEOLOGICAL STUDIES FOR THE LYON-PART-DIEU 2030 PROJECT

Dynamic management model of the project’s hydrogeological impacts

Geotechnics and materials

MAJOR STRUCTURES AND GEOTECHNICS
GEOTECHNICAL MODELLING OF HINKLEY EPR

3D modelling and studies for foundation-structure interactions

Geotechnics and materials
Geophysical studies for geological monitoring of the atoll.
EXTERNAL CONTROL OF THE ITER CADARACHE PROJECT

External control including geology, earthworks and civil engineering works

Geotechnics and materials
GEOTECHNICAL DESIGN OF THE RIURU II DAM

Geotechnical design, geophysics, instrumentation and works supervision

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