

INTERNATIONAL ENGINEERING

ABOUT US

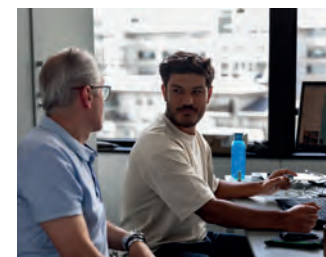
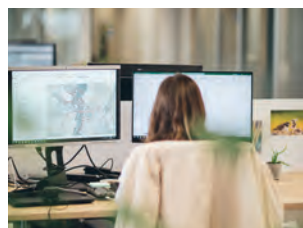
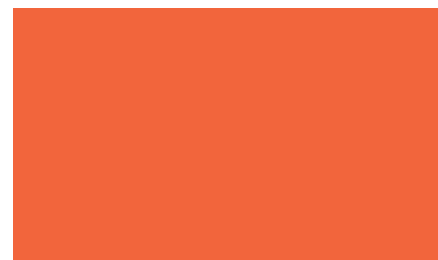
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Modeling the future face of transport, promoting balance between citizens' wishes and environmental concerns, supporting the transformation of territories towards sustainable urban planning and designing a new generation of smart buildings in the heart of the city of the future, are key parts of the major economic, social and environmental issues of our time.

As a major player, in France and abroad, Ingerop faces these new challenges through innovative solutions adapted to reality and everyday life. Ingerop provides engineering and sustainable mobility consulting, focusing on green energies and developing a new lifestyle.

Ingerop also commits to collective interest sharing, with passionate men and women, ingenuity, expertise and excellent technique to create the future world.



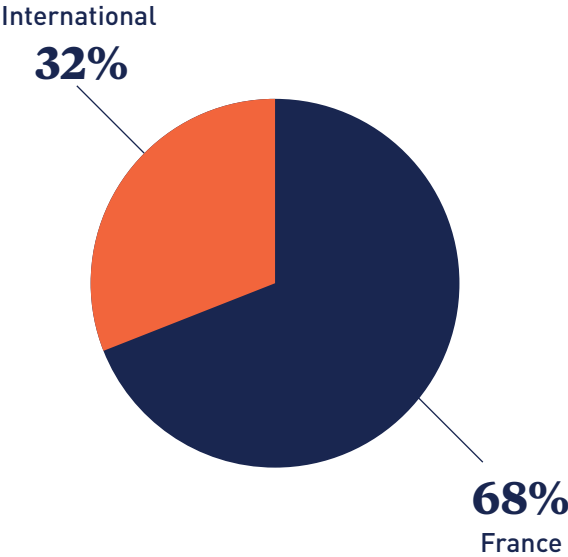
Yves Metz
Chairman



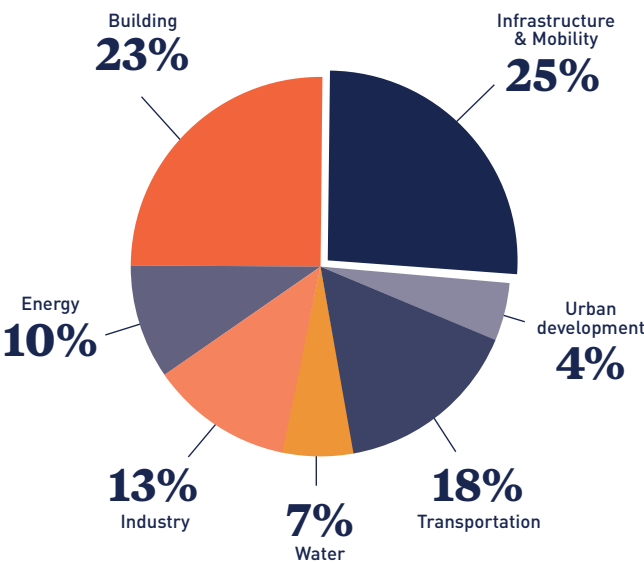
Christophe Blanc
International Director

INGEROP IN KEY FIGURES

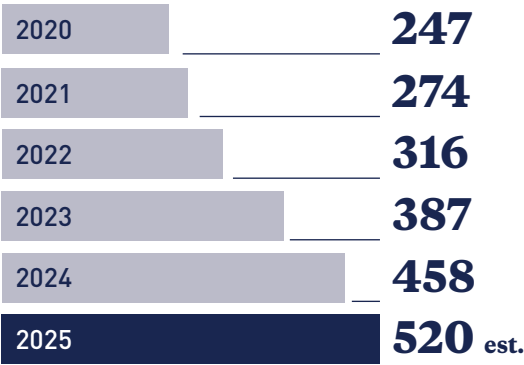
BREAKDOWN OF SALES



BREAKDOWN OF ACTIVITIES



TURNOVER
(IN MILLIONS OF EUROS)



+3500
EMPLOYEES WORLDWIDE



SHAREHOLDERS

100%

of the capital held by
its employees

90%

held by
managers

10%

held by its employees via the
corporate mutual fund

7 business lines

AND SERVICES AT ALL STAGES OF THE PROJECT LIFECYCLE



Buildings

Design of efficient and sustainable buildings where people can learn, live, work, be cared for, and where they feel good.



Industry

Meeting the needs of industrial customers at every stage of their projects. Innovating alongside industrial companies to succeed in current transitions and meet the challenges of the future.



Energy

Facing the climate emergency by meeting the challenges of low-carbon electricity production and by providing sustainable solutions for energy storage, management and transport.



Water

Design of hydraulic infrastructure and river works as well as creating, extending or redeveloping port areas. We encourage the controlled development of facilities whilst preserving the natural environment and biodiversity.



Infrastructure

Designing, implementing and upgrading sustainable transport infrastructure. Imagining transportation systems that can adapt to changing uses.



Transportation

Enabling everyone to travel and have access to efficient and comfortable public transport. Developing the networks with the most modern systems. Anticipating new mass transport needs.



Urban development

Considering the city in all its complexity, at different scales. Responding to current and future challenges with greater use of circular urban design. Increasing the amount of natural habitats in the city. Developing the post-carbon urban spaces of tomorrow.



Our services

- Feasibility studies
- Preliminary studies
- Advice to public authorities
- Concept design and detailed design
- Integrated engineering
- Detailed studies
- Administrative procedures
- Project management
- Procurement
- Environmental studies
- Construction documentation and methods
- Construction supervision
- Design coordination and integration
- Scheduling and monitoring
- Coordination of fire safety systems
- Operation and maintenance assistance
- Assistance to project owner
- Turnkey projects
- Consulting engineer expertise
- Value engineering
- Inspections and conditions surveys
- Audits

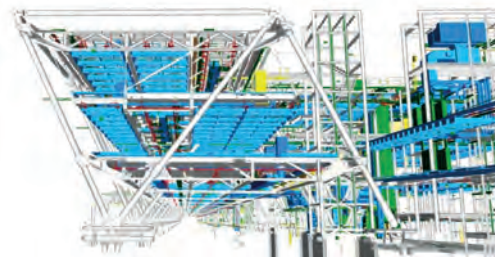
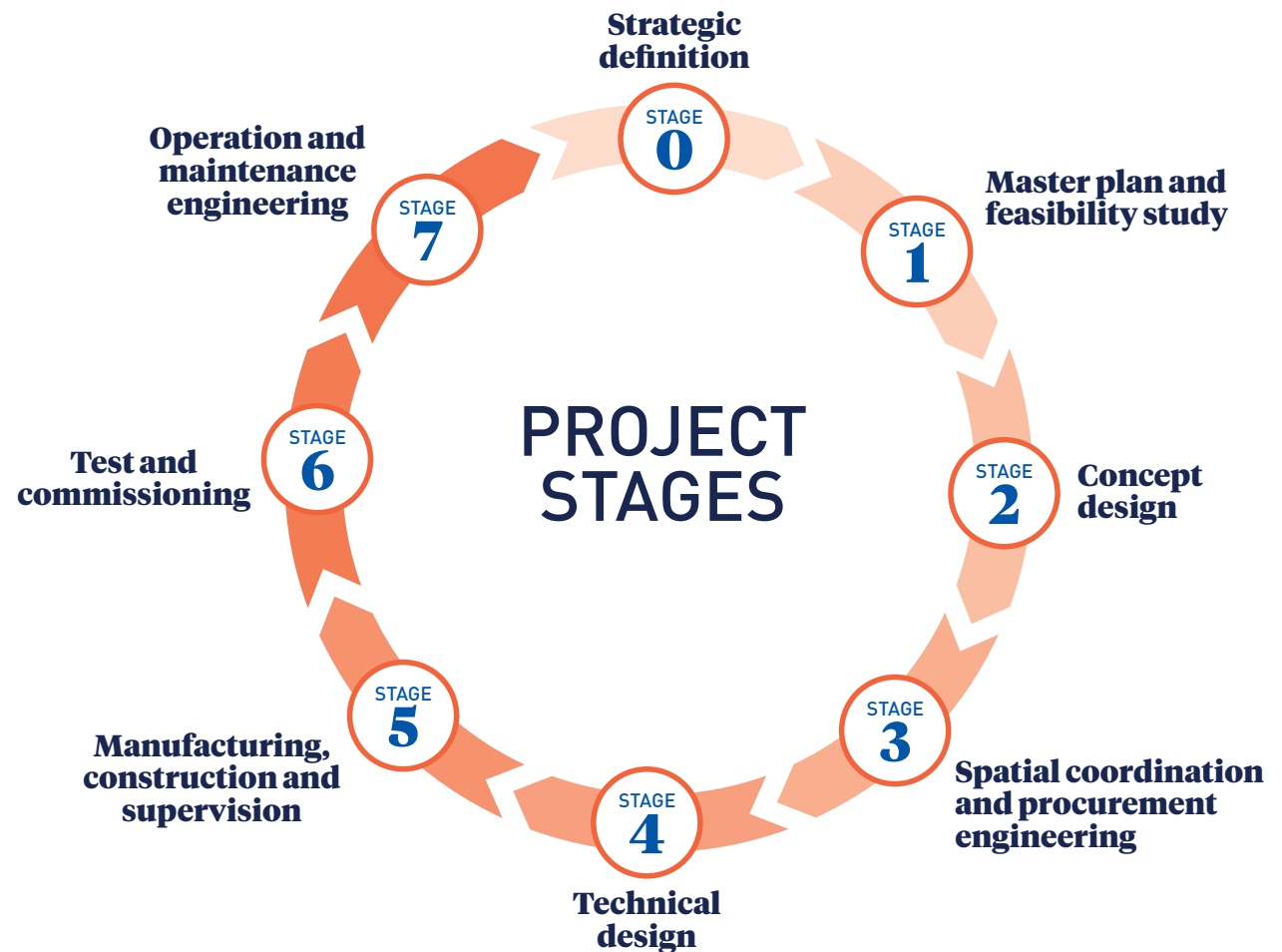
MASTERING COLLABORATIVE PROCESSES AT EVERY STAGE OF A PROJECT

A Strategic, Digital-Driven Approach

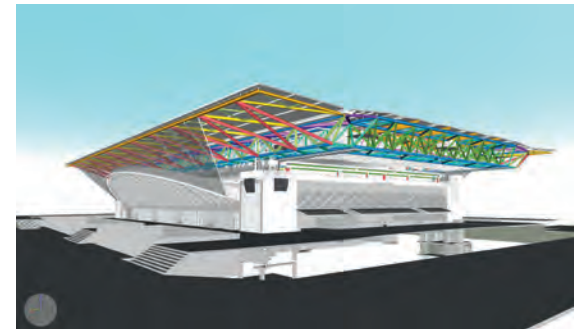
At Ingerop, we approach every project strategically, combining technical expertise with cutting-edge digital tools to create smart, sustainable solutions tailored to our clients' needs. We see real value in bridging technology and client challenges, always ensuring data security and environmental responsibility.

Building Information Modeling (BIM) is a core part of our methodology. A pioneer in BIM for over 20 years, Ingerop has expanded its use across building, urban, and infrastructure projects. We manage shared data environments, enhance interoperability with expert tools, and ensure secure collaboration through solutions like our in-house platform, Scred'In.

Our use of advanced simulation tools and AI allows us to optimize material use, assess carbon impact, and streamline decision-making from the earliest design stages. Internally, we foster innovation through the Ingerop Store, where custom-developed tools are shared across teams to boost efficiency and innovation.



Geneva International Airport



A BROADENED FIELD OF EFFECTIVE INNOVATIONS

In 2024, our Group's innovation and R&D momentum relied on the creative capabilities of our engineers, our increased participation in national and international research programs, and our external growth initiatives to optimize the performance of our current services and design innovative solutions.

Support for Climate-Focused Doctoral Research

In Research and Development, faced with the accelerating effects of climate change, interdisciplinary cooperation is essential. For several years, we have been supervising PhD students during their theses to strengthen our close ties with the academic world. Two theses addressing ecological challenges were successfully completed last year. One focuses on the impact of climate change on coastal protection structures, with rising sea levels intensifying the effects of extreme waves; the other explores the increasingly pressing issue of urban heat islands.

Ingerop Involved in Major International Research Programs

In line with our commitment to knowledge-sharing, we significantly increased our participation in large collaborative research programs in 2024, funded through national or international initiatives. Among these cutting-edge programs, one of the most emblematic is *ClimateFit*, which aims to support territories in adapting to climate change through innovative financing mechanisms. With a budget of €6 million, this project is particularly notable for integrating, alongside traditional partners (cities, institutions, companies...), financial organizations that drive sustainable investment.

Innovating for Greater Efficiency and Productivity

With the fourth edition of IN3 — our international intrapreneurship program and incubator for innovative client services such as Ecale, Calcab, and Infracost — scheduled for 2025, our internal innovation

policy in 2024 focused on enhancing the performance and productivity of our current engineering consulting services. Two innovations were developed using artificial intelligence. The first, called RETIN, is a digital solution that enables faster and more accurate exploitation of satellite or aerial imagery in our land development projects, resulting in time savings and reduced workloads for engineers. The second is an automated rebar drawing verification tool that uses robust and reliable image recognition algorithms, once again saving valuable time that can be dedicated to higher value-added tasks.

Ingerop: Supporting Industrial Start-ups

In 2024, we also launched Inger'Up, a consulting engineering service offer dedicated to industrial start-ups and aligned with national innovation strategies. Tailored to each stage of development — from pre-funding to factory launch — Inger'Up enabled us to secure half a dozen contracts and remain closely connected to current industrial innovation.

City Climate X

New Expertise in Urban Thermal Comfort Modeling

Our desire to expand our portfolio of innovative services through external growth continued throughout 2024, notably with the acquisition of City Climate X. Its unique expertise in collecting and processing ultra-fine data — down to the meter scale — using AI represents a major step forward in the fight against urban thermal discomfort.

In 2025, our Group's innovation and R&D strategy will be more aligned than ever with our clients' aspirations and in harmony with the planet, to meet the major challenges ahead.

187 000

hours dedicated to R&D and Innovation the target of 150,000 hours from Vision 2027 was surpassed as early as 2024

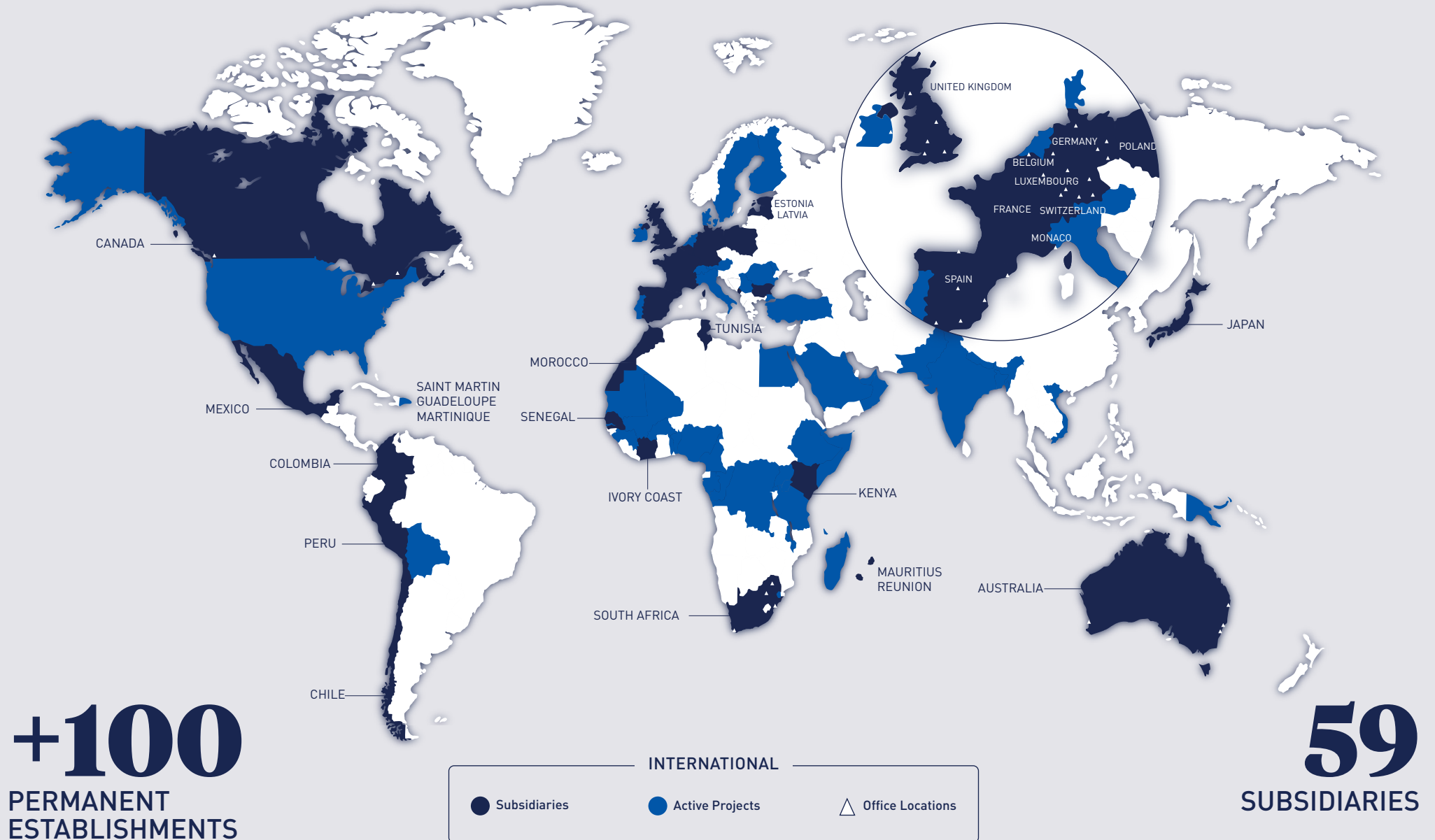
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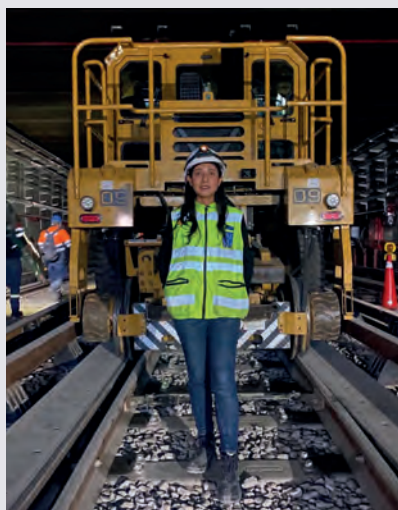
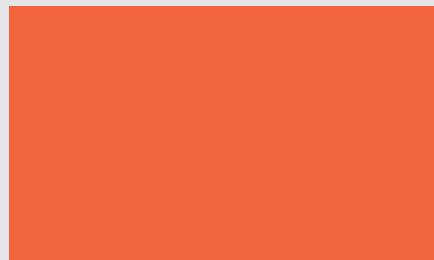
collaborative European research programs in which Ingerop is involved

49

scientific publications

INGEROP IN THE WORLD





TRANSPORTATION

Mass rapid transport

- Conventional and automatic metro lines
- Specialised signalling (CBTC, ATP, ATS, ATO)
- Systems integration
- Operation and maintenance
- Rolling stock
- Feasibility and opportunity studies
- Modelling and simulations
- Civil works
- Stations
- Depots and maintenance centres
- Signalling and automation
- Telecommunications
- Ticketing
- RAMS
- Pedestrian simulation
- Architecture



Belgrade city metro Line 1 – Serbia

Design optimization and technical support, development of functional design, guidelines



Abidjan first metro line – Ivory Coast

Layout study and preliminary design



Málaga metro – Spain

System design and construction supervision



Mexico metro line 1 automation – Mexico

Project management and supervision of the rolling stock, track and signalling contract



Réseau Express Métropolitain (REM) – Montréal, Canada

Independent check for systems, CBTC and rolling stock



Grand Paris express – France

Lines 15 South, 17 & 18
Lines 15 East, 15 West

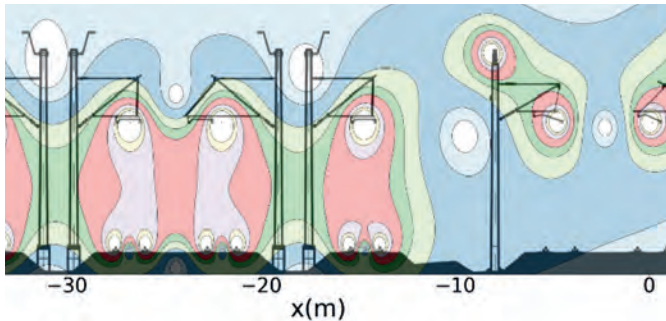
Light rail

- All types of tramway (rubber, rail, bi-modal)
- OHTE, ground-level or battery-based power supply
- Intermodal design
- Urban integration
- Rolling stock and maintenance
- Feasibility and opportunity studies
- Modelling and simulations
- Civil works and track
- Depots and maintenance centres
- Signalling and automation
- Telecommunications
- Ticketing
- RAMS
- Pedestrian simulation
- Architecture



Long distance rail and high speed line

- Refurbishment and new rail lines
- Cost effective lines
- Operation and transport planning studies
- Rolling stock expertise
- Maintenance
- Track layout, signalling, equipment and system integration
- Civil works
- Depots and maintenance centres
- Signalling and automation (ERTMS and classical)
- Telecommunications
- Ticketing
- Feasibility and opportunity studies
- Modelling and simulations
- RAMS
- Pedestrian simulation
- Architecture



CPK high speed lines – Poland

Consultations, analysis and simulations concerning implementation of a 2x25kV traction system



High speed rail – Kenitra, Aïn Sebaa, Morocco

Preliminary design studies and final design of railway equipment, civil engineering expertise



Rail Baltica – Latvia

Design coordinator on the civil engineering and track-laying (Latvia). Alliance with contractor for the design of the southern section (Estonia)



Gaspesia and Quebec central railways – Canada

Strategic and technical assistance provided to the Quebec Ministry of Transportation



Huesca Canfranc railway line – Spain

Functional studies, basic design, detailed studies

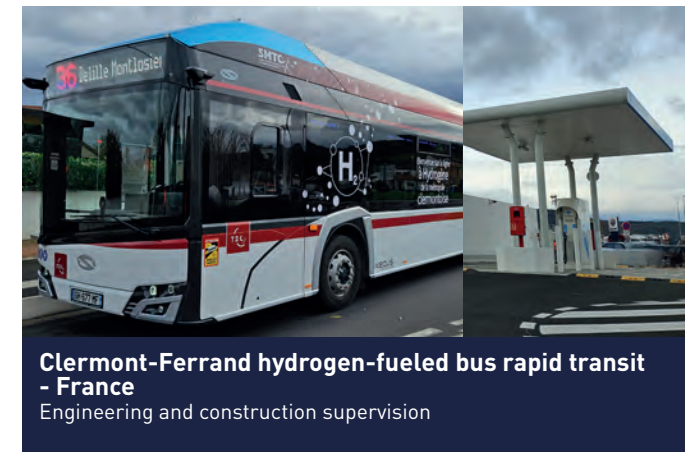
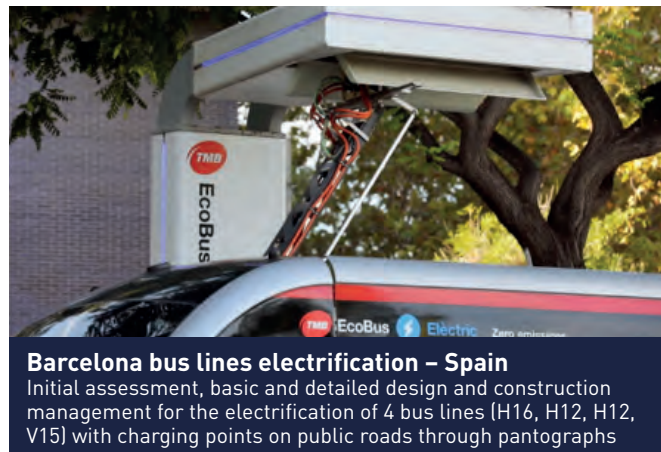
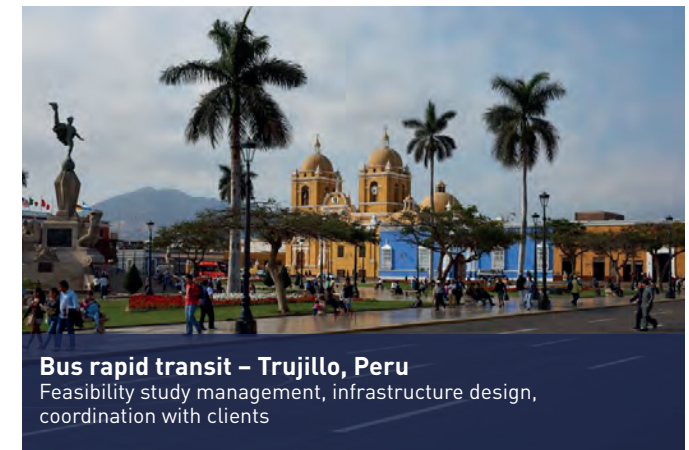


Provence-Côte d'Azur new high speed line – France

Preliminary design studies for the relocation of Cannes La Bocca station to the Cannes Marchandises site. Climate expertise and resilience to climate change

Bus rapid transit

- Design
- Feasibility and opportunity studies
- Construction supervision
- Operation and maintenance
- Bus and motorisation (electrical, hydrogen, natural gas, hybrid)
- Civil works
- Depots and maintenance centres
- Urban integration
- Modelling and simulations
- Telecommunication
- Ticketing
- Electromobility
- Pedestrian simulation
- Architecture



OTHER SPECIALITIES

Cable cars

- Systems integration
- Alignment and layout
- Feasibility and opportunity study
- Stations
- Civil works
- Urban integration
- Modelling and simulations
- Telecommunication
- Ticketing
- Pedestrian simulation
- Architecture



Cable car – Munich, Germany
Feasibility study for an urban cable car



Cable car – Toulouse, France
Technical and legal assistance to the owner

Rolling Stock

- Design: engineering and assessment
- Manufacturing: audit, supervision and validation
- Testing and commissioning assessment
- Maintenance and overhaul optimisation
- Digital maintenance instructions
- Product and process auditing



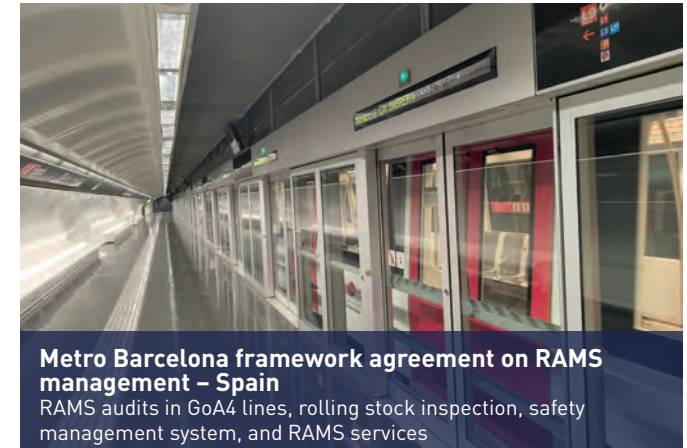
Class 80X high speed trains – United Kingdom
Overhaul optimisation



Santo Domingo metro L1 – Dominican Republic
Manufacturing supervision, testing and commissioning

RAMS and Systems Engineering

- Systems engineering: interfaces, requirements, contract management and project lifecycle
- ISA and AsBo certification
- RAMS: industrial, transportation, automotive and aerospace industries
- Risk analysis in all railway subsystems
- Applied analysis and tools such as: FMA, FTA, RBD, LCC, ILS, FRACAS, RPA, and hazard log



Metro Barcelona framework agreement on RAMS management – Spain
RAMS audits in GoA4 lines, rolling stock inspection, safety management system, and RAMS services



Technical assistance UIC implementation on the mediterranean corridor, CCM subsystem – Spain
Risk analysis, RAMS and interoperability

Stations & Depots

- Architecture
- Station sizing architecture
- Urban integration
- MEP
- Pedestrian simulation
- Systems
- Infrastructure
- Civil engineering
- Maintenance
- Operation
- Tooling and maintenance equipment
- Environmental studies
- Energy performance
- RAMS



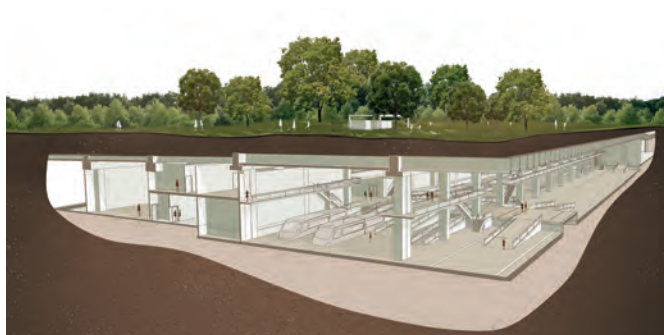
Architectural design for the new train station – Reus, Spain
Architecture and engineering: design of a new station building with underground passage to connect both sides of the city and improve access. Conceptual, preliminary, and detailed design



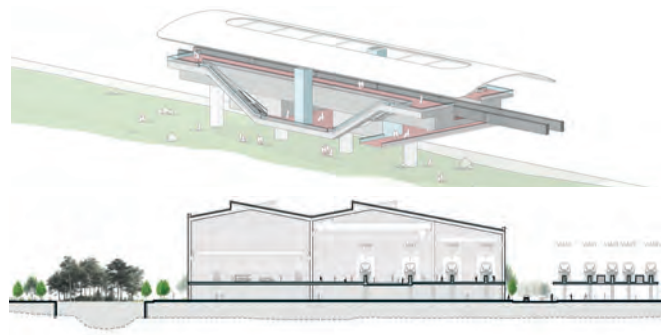
Inca train station – Mallorca, Spain
Architecture and engineering: feasibility study, basic design, detailed and construction project



Pont de Sèvres station for Grand Paris express L15 – France
Engineering, preliminary and detailed design and construction supervision



La Sagrera depot: conversion and modernization – Spain
Architecture and engineering: drafting of the renovation project for regional maintenance depots in Catalonia



Monorail depot serving L4 and L6 – Monterrey, Mexico
Functional layout and equipment, architectural and operational planning for multiple buildings. Concept and preliminary design



Lyon Fagor maintenance center – France
Engineering, design and construction supervision, management of regulatory procedures

BUILDINGS

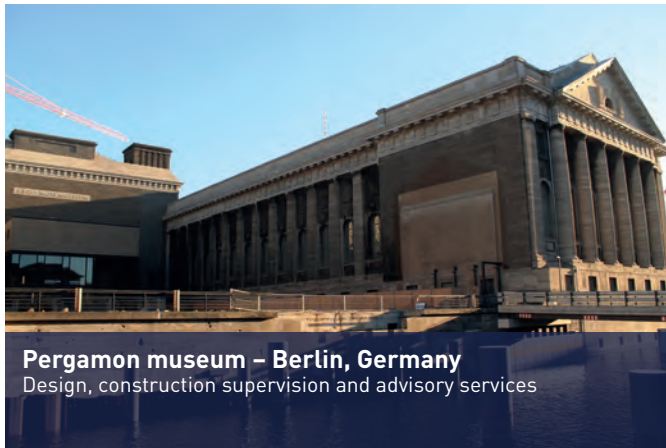
Hospitals, health and biomedical centres

- Hospitals and university hospitals
- Clinics
- Maternity hospitals
- Nursing homes
- Dispensaries
- Pharmaceutical laboratories
- Research laboratories
- Biomedical equipment



Cultural buildings

- Museums
- Culture and sports
- Historical monuments: maintenance, rehabilitation



Social infrastructure and office buildings

- Offices
- Residential
- Education
- Stadiums and recreational facilities
- Government buildings



Construction of CIMR Headquarters – Casablanca, Morocco
Project Management



Bosch, HK0202 new development center – Germany
Plumbing, air handling, energy, sprinklers, building management systems



Teacher's Schools – Bouaké & San Pedro, Ivory Coast
Design and construction supervision



Grenoble Stadium, 28.000 seats fitted with roof photovoltaic cells – France
Design and construction supervision



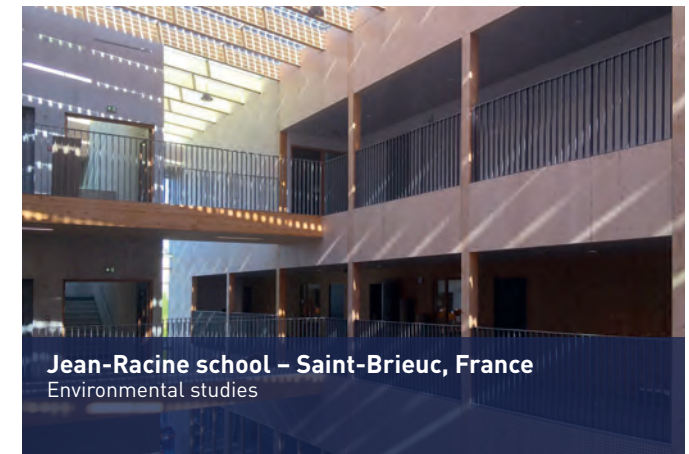
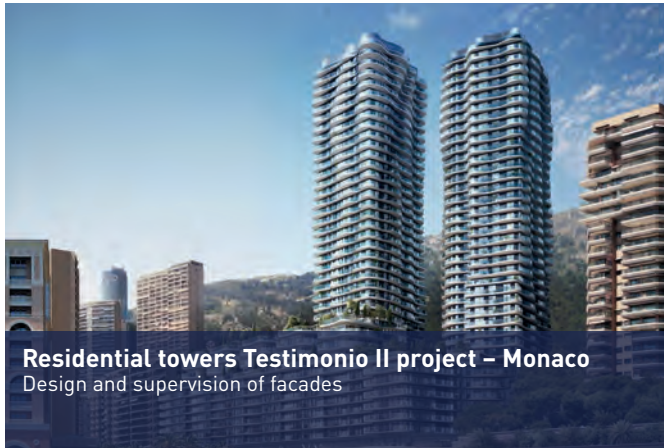
Expansion of the Bobigny Judicial Court – France
Technical studies and design, construction supervision



Mirabeau Tower Rehabilitation – Paris, France
Technical studies and design, construction supervision

Specialisation in building design and large roof structures

- Facades
- Wooden structures
- High environmental quality (HQE-LEED)
- Cable structures
- Fire safety
- Smart buildings
- Roofs and platforms



INFRASTRUCTURE

Bridges

- Bridges and civil structures for roads, rail and airports
- Steel or concrete, composite bridges
- Cast-in-situ or precast bridges
- Single or multi-span bridges
 - Cantilever
 - Incrementally-launched
 - Cable-stayed
 - Extradosed
 - Arched
- Bridge monitoring and maintenance
- Auditing of existing structures
- Repair and strengthening



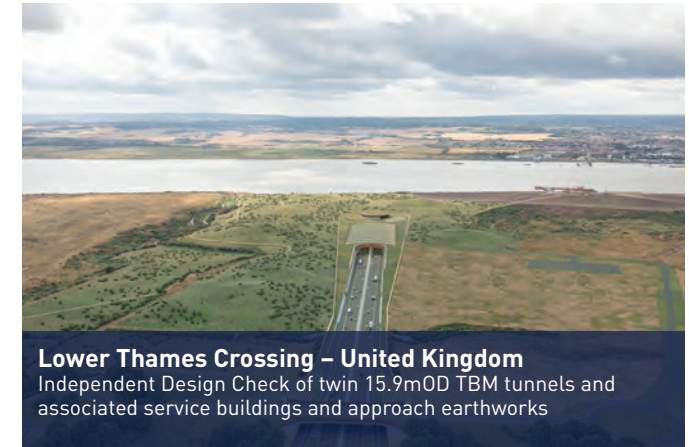
Tunnelling

- Tunnelling feasibility studies and design
- Mechanical, ventilation and electrical
- Safety and fire protection in tunnels
- Immersed tunnels



Geotechnical expertise

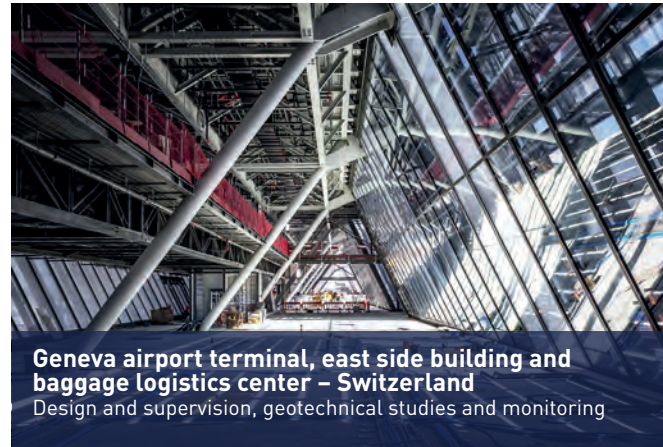
- Soil mechanics for infrastructure projects
- Karstology, stratigraphy, hydrogeology, geomorphology, structural geology
- Soil testing definition
- Monitoring interpretation: foundations, retaining walls, natural risks mitigation
- Development of calculations for different codes and licensing of corresponding software



Airports

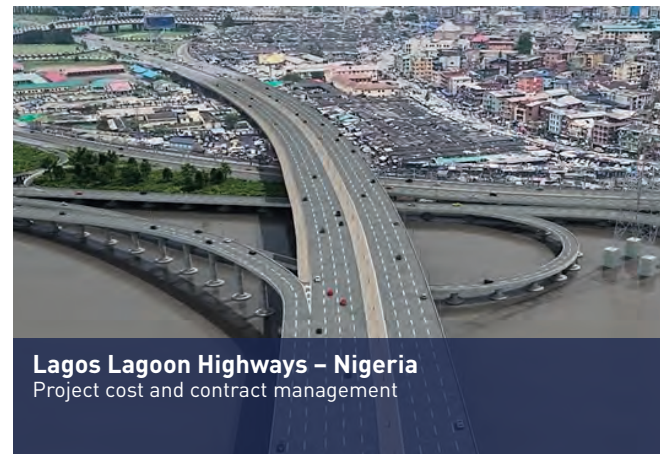
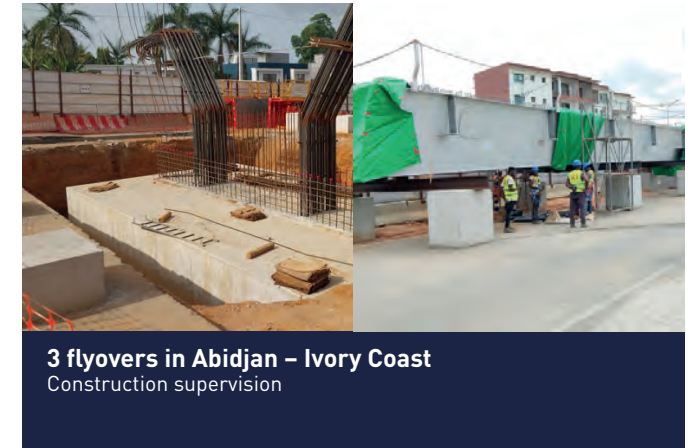


- Terminals – buildings
- Airside infrastructure – lighting systems – runways – taxiways aprons
- Landside infrastructure – urban studies
- Maintenance Repair Operation (MRO) infrastructures
- Airport systems – electromechanical devices – Baggage Handling System (BHS)
- Supply – energy
- Environment – safety



Linear infrastructure

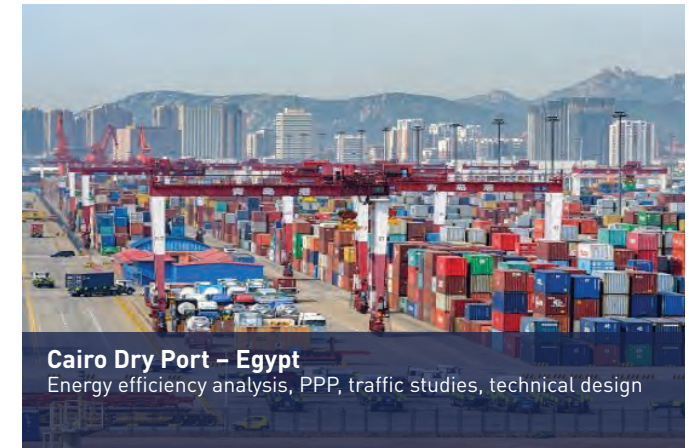
- Traffic and transport studies
- National roads and highways
- Rural roads
- Urban roads and streets with utilities and storm-water control
- Toll plaza
- Rest and service areas
- Signalling (static and dynamic)
- Multitubular ducts
- Toll systems, videosurveillance



WATER

Ports

- Sea / river ports
- Dry ports
- Multimodal logistics ports
- Dry and liquid bulk cargo
- Masterplan
- Logistics organisation
- Road, rail and port interfaces
- Structural analysis for quays and piers
- Rehabilitation works
- Harbour
- Coastal engineering



Canal, locks and mechanical equipment

- Waterways and canals
- Small and large dikes and locks
- Rehabilitation works
- Scouring and erosion countermeasures
- Hydraulic structures
- Monitoring and safety assessment
- Stability analysis and geotechnical expertise



Thames Barrier – London, United Kingdom
Engineering design, tendering and construction supervision



Donauwörth retention basin – Germany
Execution, assistance for the awarding of contracts, safety, health and protection coordination



Motupe and Leche flood protection works – Peru
Preliminary design review, final design (including detailed 2D model)



Surf lakes – Australia
Value engineering and risk identification study



Canal Seine-Nord – France
Preliminary and final design, construction supervision



Doubling Frontinettes lock – Arques, France
Concept design and detailed design

Dams

- Small and large dams
- Concrete (CVC, RCC,...) and embankment dams
- Rehabilitation works
- Fish ladders
- Stability analysis and expertise
- Monitoring and safety assessment



Rappbode dam – Germany

Preliminary, detailed and construction design, construction supervision



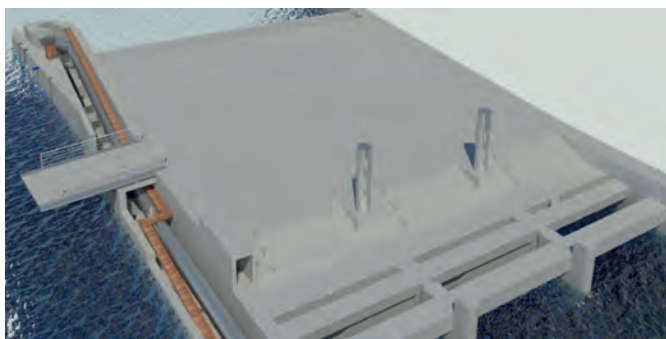
Hazelmere dam – South Africa

Preliminary, final and construction design, construction supervision. Dam heightening and new spillway (piano key weir type)



Rawsonville Stettynskloof dam – South Africa

Feasibility study and concept design



Seujet dam - sanitation of the fish run – Switzerland

Concept and detailed design, construction supervision and project management for the rehabilitation of the facility



Mobaye dam and hydroelectric power plant – Democratic Republic of Congo

Concept and detailed design, construction supervision and project management for the rehabilitation of the dam

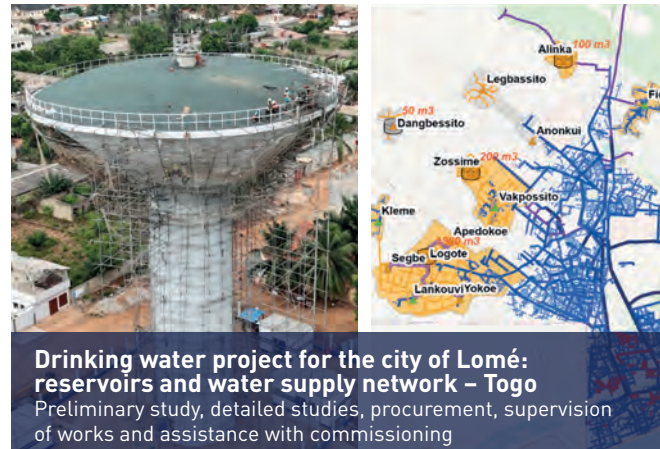


Aisne-Meuse dams – France

Reconstruction of 29 dams, with the integration of fish ladders and small hydropowers. Assistance to the client during the construction phases

Urban hydraulics – water resources

- Water treatment and distribution
- Strategic environmental management plans
- Pollution control studies and investigations
- Waste management and planning
- Waste resource management
- Hydraulic modelling (1D, 2D, 3D)
- Hydrology and hydrogeology



ENERGY

Nuclear engineering

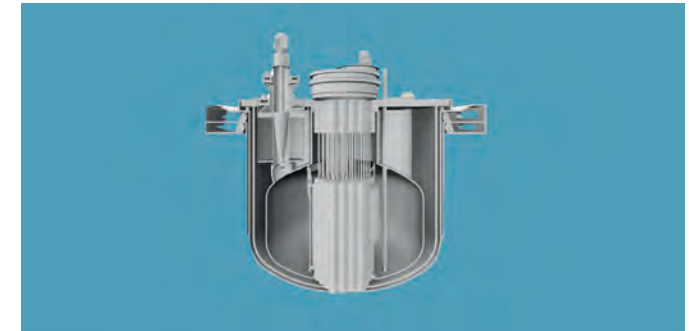
- Nuclear power plant
- Large infrastructure (cooling towers, intake/ discharge channels, tunnels)
- Seismic assessments, analyses and reinforcement solutions
- Nuclear spent fuel storage
- Interim storage facilities Intermediate Level Waste (ILW-LL) and High Level Waste (HLW-LL)
- Nuclear waste treatment, conditioning, recycling, logistics
- Repository for Intermediate Level Waste (ILW-LL) and High Level Waste (HLW-LL)
- Research reactors
- Laboratories, research centres
- Military nuclear facilities



Sizewell C nuclear power plant – United Kingdom
Framework agreement – detailed design for civil engineering (global and local calculations, creation of 3D models)



Hinkley point C turbine hall – United Kingdom
Detailed civil engineering design for nuclear island buildings



Newcleo Advanced Modular Reactor (AMR) and fuel plant – France, Italy and United Kingdom
Design of nuclear facilities



SES non-exothermic nuclear waste storage facility – Germany
Design



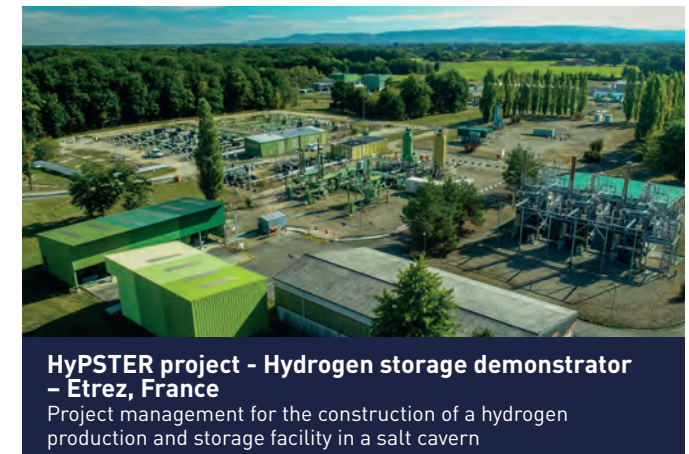
Orano Pastel project: facility for treating uranium effluent – France
Expertise in nuclear processes: analysis of various evaporation technologies, sizing, energy efficiency optimisation and safety assessment for filtration technologies



CEA DAM (Atomic Energy Commission – military applications) – France
Design phase

Hydrogen and decarbonisation

- Hydrogen production, storage and distribution plants
- CO₂ capture and sequestration
- Methanation
- Process optimization regarding energy



Renewable energy and heating network

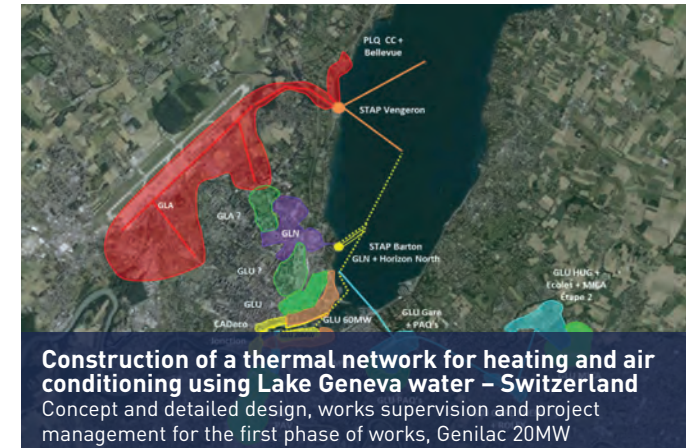
- Hydroelectric power plants and stations
- Geothermal plants
- Photovoltaic
- Heating network
- Biomass plants
- Biogas plants



Incinerator and biomass heating plant – Germany
Design studies (buildings, structures)



Abrera-Trinitat photovoltaic plant – Spain
Detailed engineering and construction management for the construction of the facility (3,5 MWp), 6 transformer substations



Construction of a thermal network for heating and air conditioning using Lake Geneva water – Switzerland
Concept and detailed design, works supervision and project management for the first phase of works, Genilac 20MW



Floating photovoltaic farm providing a hydrogen production facility – France
Consultant to the contracting authority. 500 MWp for PV production and 120 MW for the electrolyzer



District heating and cooling network using hydrothermal energy – France
Concept and detailed design



Thermo-cooling plant – Zac de Cambacères, France
Design and construction supervision

Electrical transport and distribution

- High voltage electrical transport
 - Design or rehabilitation of overhead lines
 - Design or rehabilitation of underground lines
 - Construction or extension of high voltage substations
 - Environmental, regulatory and property analyses, permitting
- Electric vehicle charging infrastructure
- Electrical storage
- Multi-energy delivery stations
- Electric mobility
- Smart grid
- Transportation consultancy (truck, car, boat, train)



SüdOstLink high-voltage direct current (HVDC) line for Tennet TSO GmbH – Germany
Consulting (approval and civil engineering) and execution planning (civil engineering)



Bus depots electrification – Spain
Basic and detailed design for the electrification of the depots including photovoltaic installation for on-site use



Duquesa Solar step-up transformer substation – Spain
Basic and detailed design for the construction of the 132/30 kV step-up transformer substation



Logistics centre charging installation – Spain
Basic and detailed design of electrical installations for over 280 EV charging points across multiple Amazon logistics centers and parking facilities in Spain



E-truck charging and service stations – Spain
Project management, feasibility study, basic and detailed design and construction management for the installation of several e-truck service stations in Spain, including charging infrastructure and rest facilities



Framework agreement for high voltage power lines for RTE (French Power Transport Network) – France
EPCM for overhead line rehabilitation and underground line construction projects, and for the construction or extension of Very High Voltage substations. Research and processing of declarations of public utility and agreements for HTB overhead lines

INDUSTRY

Our services

- Consultancy
- Design and construction management
- Design and build



Werra 2060: restructuring potash production plant – Germany
Owner's engineer and advisory services for the restructuring of the plant to modernize processes, reduce CO₂ emissions, improve water management, and enhance sustainability



Dismountable Airbus A380 hangar – Spain
Feasibility study and definition of the technical and functional program



Orange data centres – France
Design and construction supervision



Just - Evotec Biologics biotherapeutics facility – France
Design and construction management



Construction of MCGP luxury goods production unit – France
Design and build technical consultancy, assistance to project sponsor

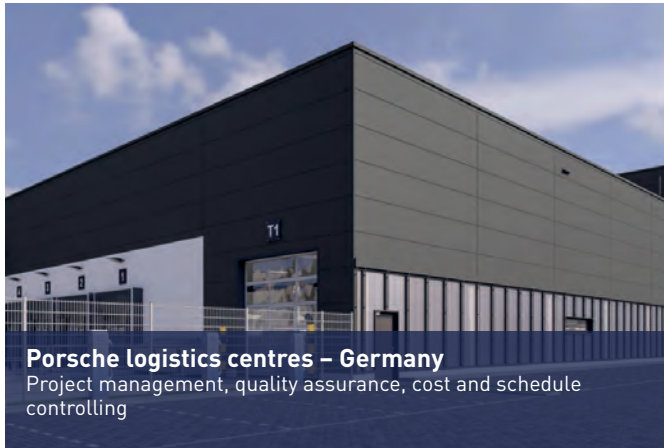


Ampere (Renault group) innovation battery cell laboratory – Lardy, France
Turnkey project, management of the operation and creation of the building perimeters

Our clients

From startup to gigafactory

- Aerospace
- Agri-tech
- Battery industries
- Car & equipment manufacturing
- Data centres / IT rooms
- Defence
- Luxury & cosmetics industries
- Pharmaceuticals, biotechnology



A broad range of skills and expertise

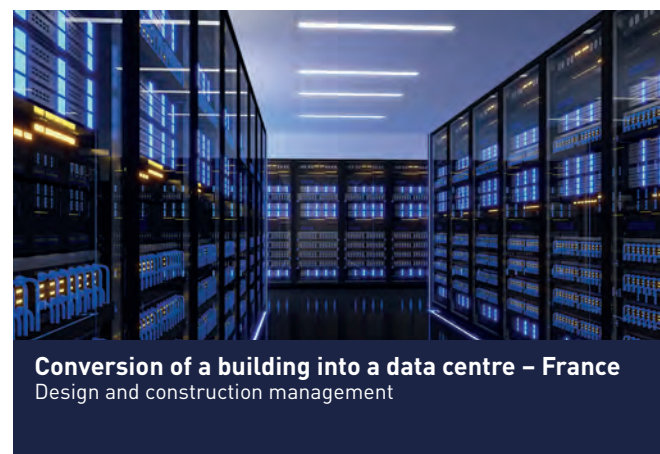
From process to building and utilities

- Project management
- Environment
- Construction
- Manufacturing
- Process development
- HVAC, ventilation, special fluids, gases...
- Electricity
- BIM
- Grants and funding



Our added value

- Decarbonisation
- Ecological transition
- Cybersecurity
- Lifescience and biotech
- Process engineering

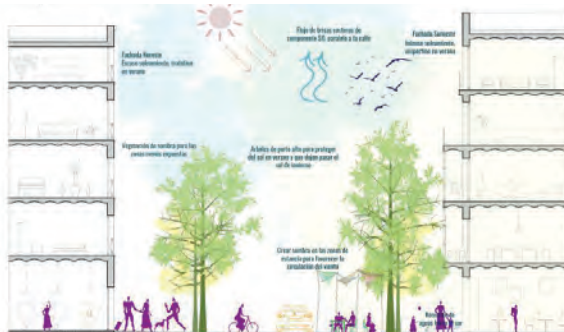


URBAN DEVELOPMENT

Urban planning

Integration of urban planning and architectural services

- Building design
- Transportation requirements
- Network services
- Environmental requirements
- Multimodal stations and equipment
- Urban masterplan



Greening of the city of Barcelona – Spain
Preliminary design for urban redevelopment, including layout, public space organization, and integration of urban systems



Redevelopment of the Plärer multimodal hub – Germany
Project management and coordination of design and construction supervision for urban infrastructure and transport network redevelopment



Champ Triomphal waterfront master plan – Libreville, Gabon
Development manual, consultancy, preliminary design



Olympic village in Paris – France
Urban design and owner's engineer, design and construction supervision for public spaces

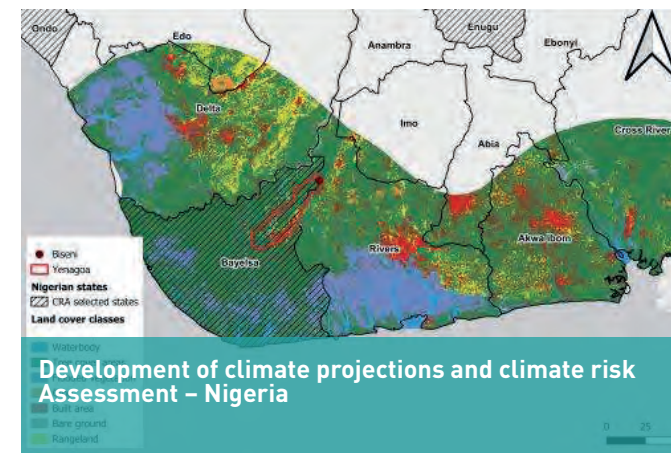


Promenade du Paillon – Nice, France
Owner's engineer, design and construction supervision



Notre-Dame de Paris – France
Owner's engineer, design and construction supervision of the forecourt and the neighbouring grounds around the cathedral. Design and construction supervision for underground parking transformation

Project references



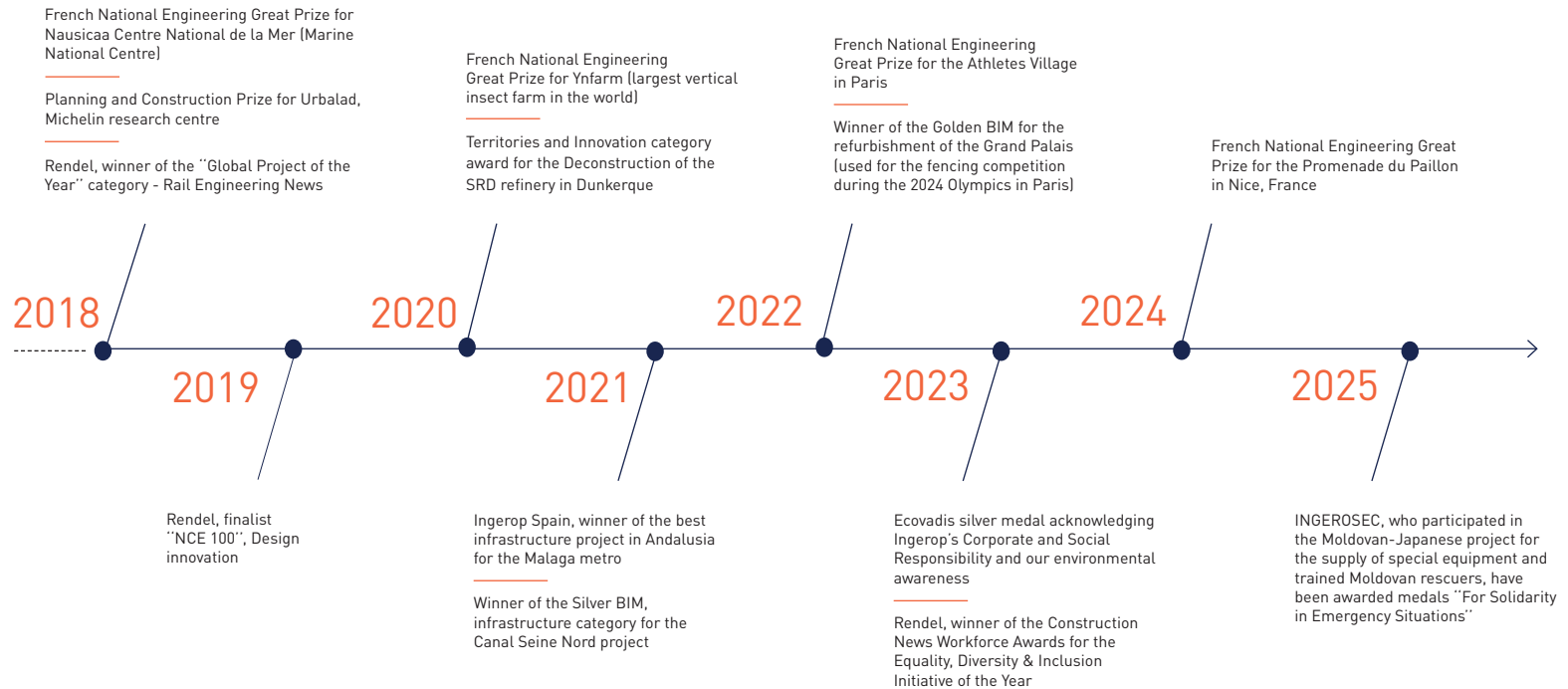
+260 experts

AWARDS



Inventing for tomorrow is our promise to our clients; we are committed to meeting and exceeding their expectations.

Innovation is at the heart of Ingerop, and our teams are proud to be awarded for their high-performance solutions.



Memberships



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“Working together to create a sustainable world and a better life for all”

Executive board



Yves METZ



Christophe BLANC



Frédéric BURTON



Stéphane GAUTIER

- Yves Metz, **Chairman**
- Christophe Blanc, **International Director**
- Frédéric Burton, **Director Infrastructure Business Line**
- Stéphane Gautier, **General Secretary**
- François Lacroix, **Scientific and Technical Director**
- Stéphane Potin, **Director of Operations France**
- Ludovic Vaz, **Director of Buildings Business Line**



François LACROIX



Stéphane POTIN



Ludovic VAZ

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