



SOLETANCHE BACHY

Build on Us



**Soletanche Bachy,
a world leader
in foundations and
soil technologies**



Why work with Soletanche Bachy?

The most
comprehensive
geotechnical offer
on the market

Expertise in all
types of structures
and soils

Unique
engineering
services

Local roots and
global expertise
to serve your
projects

A high level
of operational
excellence

Nearly 100 years
of experience

A commitment
to safety
at every level

A wide portfolio
of environmental
solutions

Unrivalled
innovation
capabilities

Passionate teams
to meet the
challenges of your
projects

Soletanche Bachy
key figures

3 000
projects / year



10 000
employees

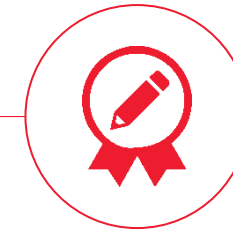


50
countries



+ 100
nationalities

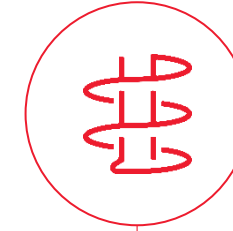
500
patents
filed



2.3Bn€
turnover



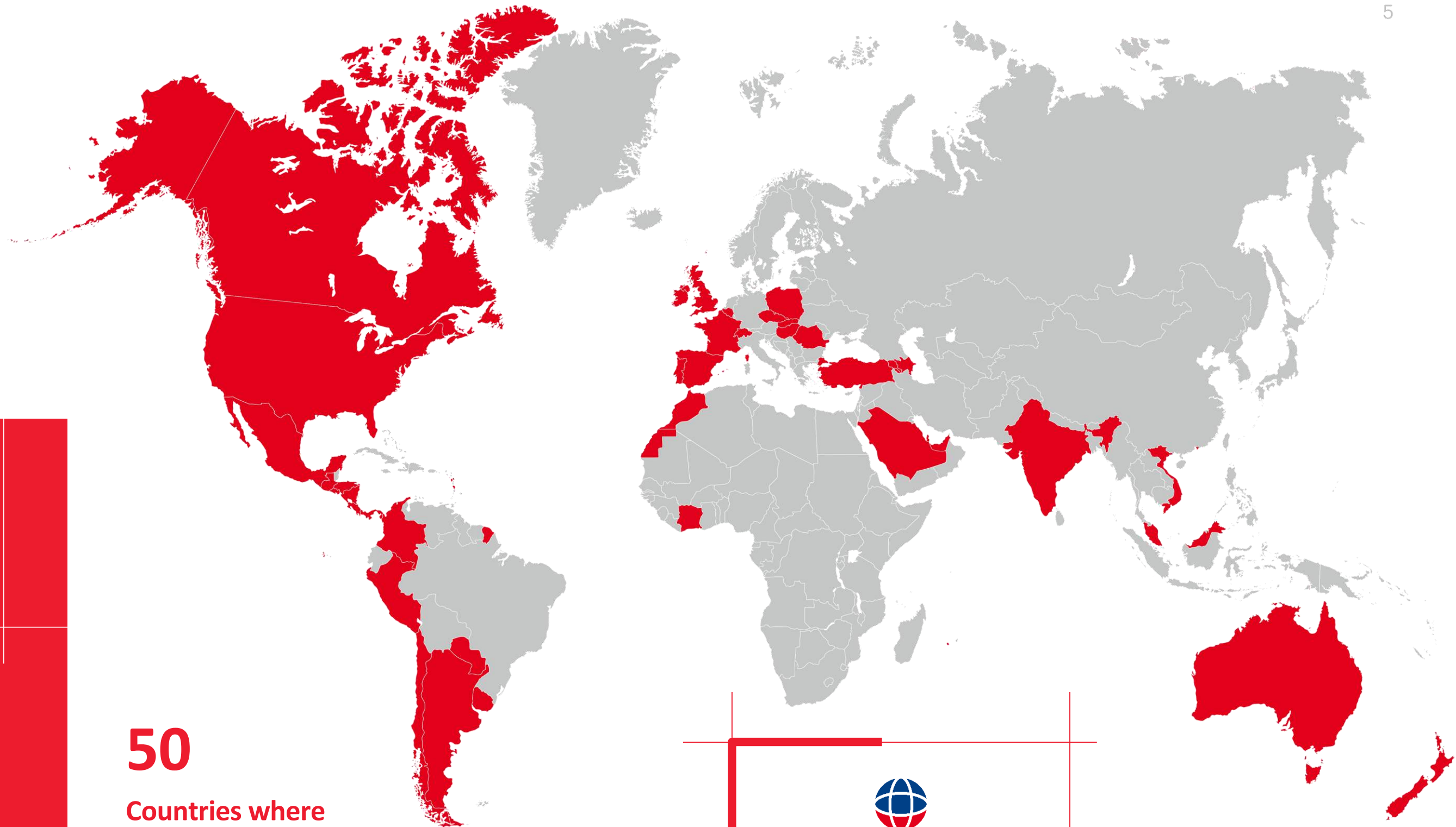
95
geotechnical
engineering
and foundations
processes





Local roots and global expertise

We make the most of our local presence, which enables us to act quickly and efficiently on the ground through our subsidiaries, and of our global reach, capitalizing on the strength of a group.



50
Countries where we are present


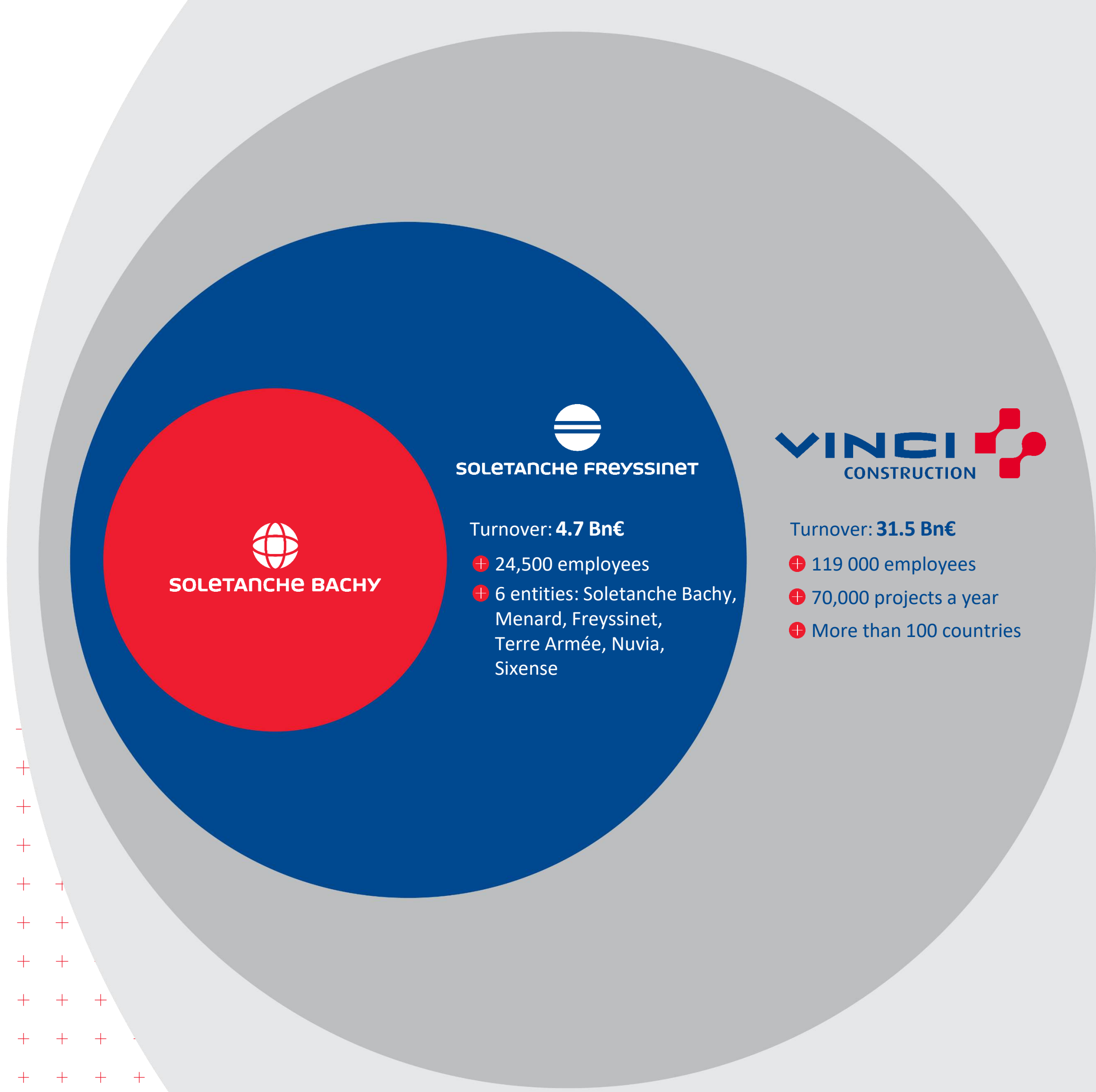
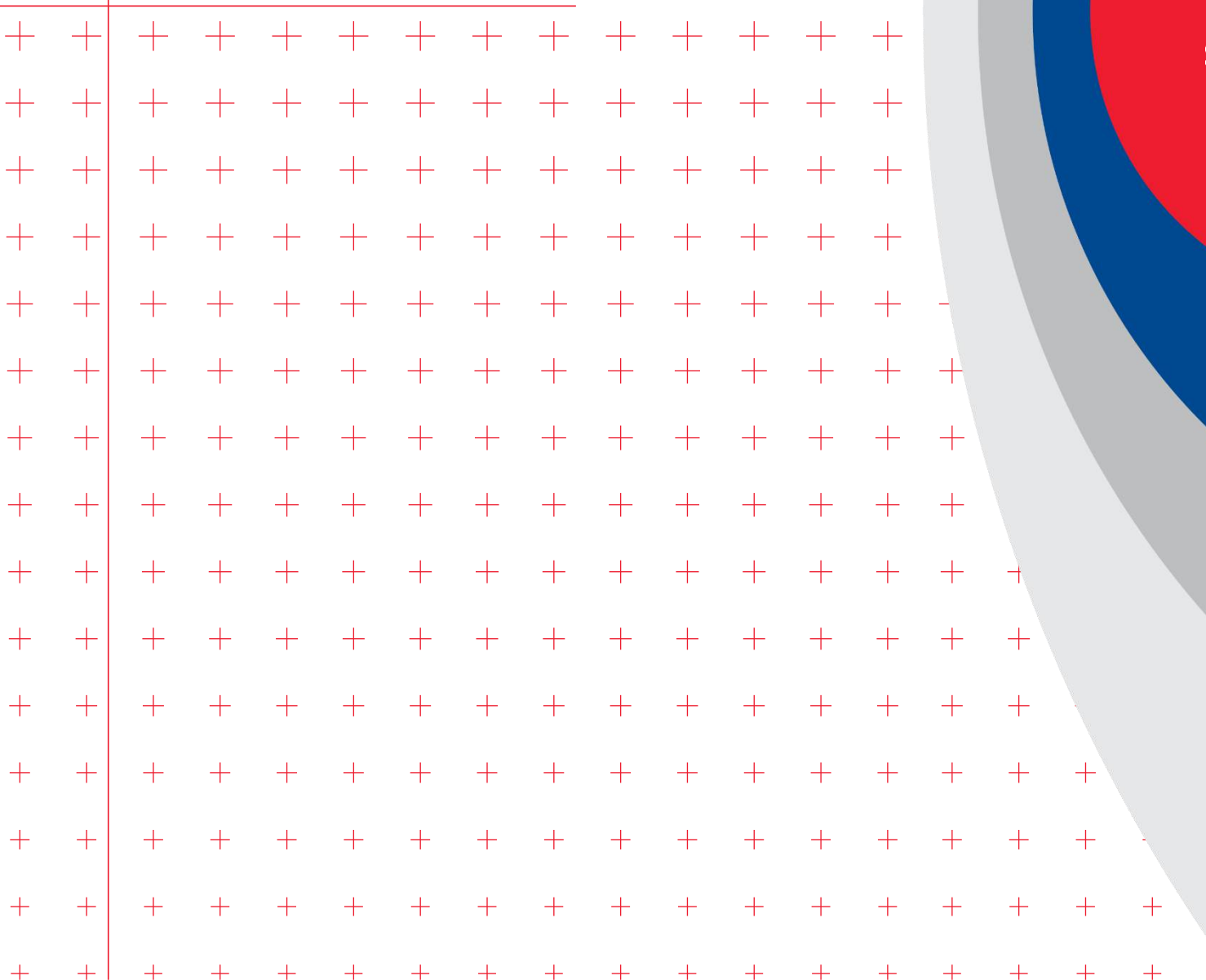
60
countries where we operate

80
subsidiaries across 5 continents



Soletanche Bachy's Major Projects subsidiary strengthens our capacity to carry out large-scale projects worldwide. It operates on all five continents, alone or alongside local subsidiaries.

Soletanche Bachy, a VINCI Group subsidiary



SOLETANCHE BACHY



SOLETANCHE FREYSSINET

Turnover: **4.7 Bn€**

- + 24,500 employees
- + 6 entities: Soletanche Bachy, Menard, Freyssinet, Terre Armée, Nuvia, Sixense



VINCI
CONSTRUCTION

Turnover: **31.5 Bn€**

- + 119 000 employees
- + 70,000 projects a year
- + More than 100 countries



VINCI

Turnover: **68.8 Bn€**

- + 280,000 employees
- + 308 000 projects a year
- + 120 countries

We are passionate about our work, meeting our clients' challenges and the success of our projects.

Our values



From the site team to the subsidiary managers, Soletanche Bachy is a company of men and women driven by strong shared values.

1 A safety culture shared on a daily basis, on all our sites

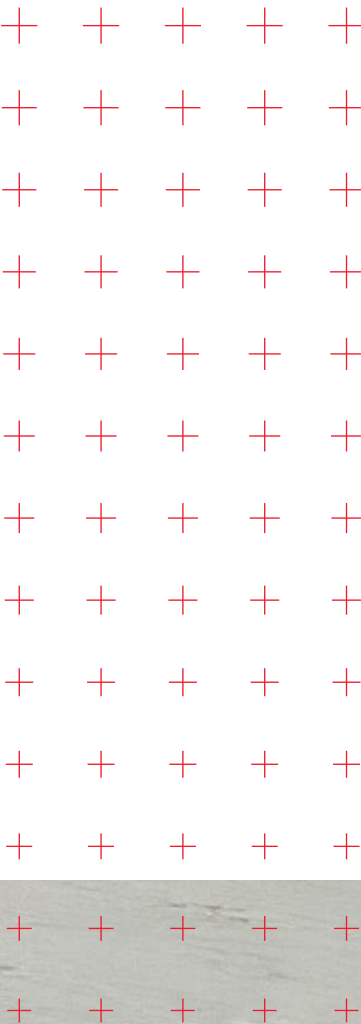
2 A strong commitment to the environment and ethics

3 An entrepreneurial spirit, based on autonomy and accountability

4 Striving for operational and technical excellence in every operation

5 Innovation at the heart of our solutions

6 Listening to customers at all times



At Soletanche Bachy, a successful worksite is one without incident

Safety is everyone's business.



Safety



People

1.

We run numerous awareness-raising and training campaigns to act on behaviors and ensure that safety remains an integral part of our culture and day-to-day practices.

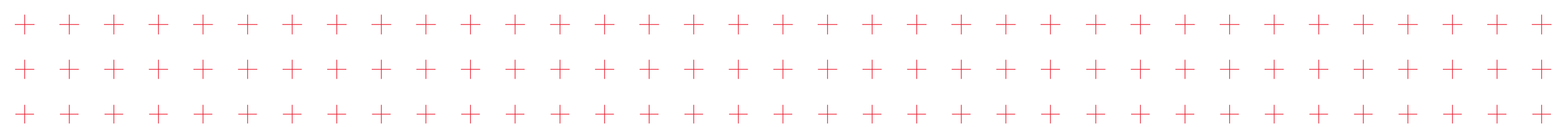
Our machines and equipment are designed to exceed safety standards and comply with strict regulations applicable worldwide.

Technical

2.

3. Organization

Checklists, prestart meetings, procedures, training courses, etc. we do our utmost to create safe working conditions for our teams and contractors.



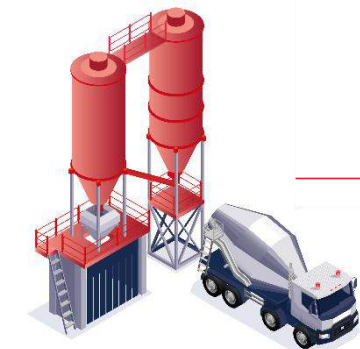
Our commitments for today and tomorrow

We have drawn up a pragmatic, local Environmental Action Plan, focusing on 3 key areas:



ENERGY

Reducing our footprint by 40% by 2030 by reducing our fuel and electricity consumption.



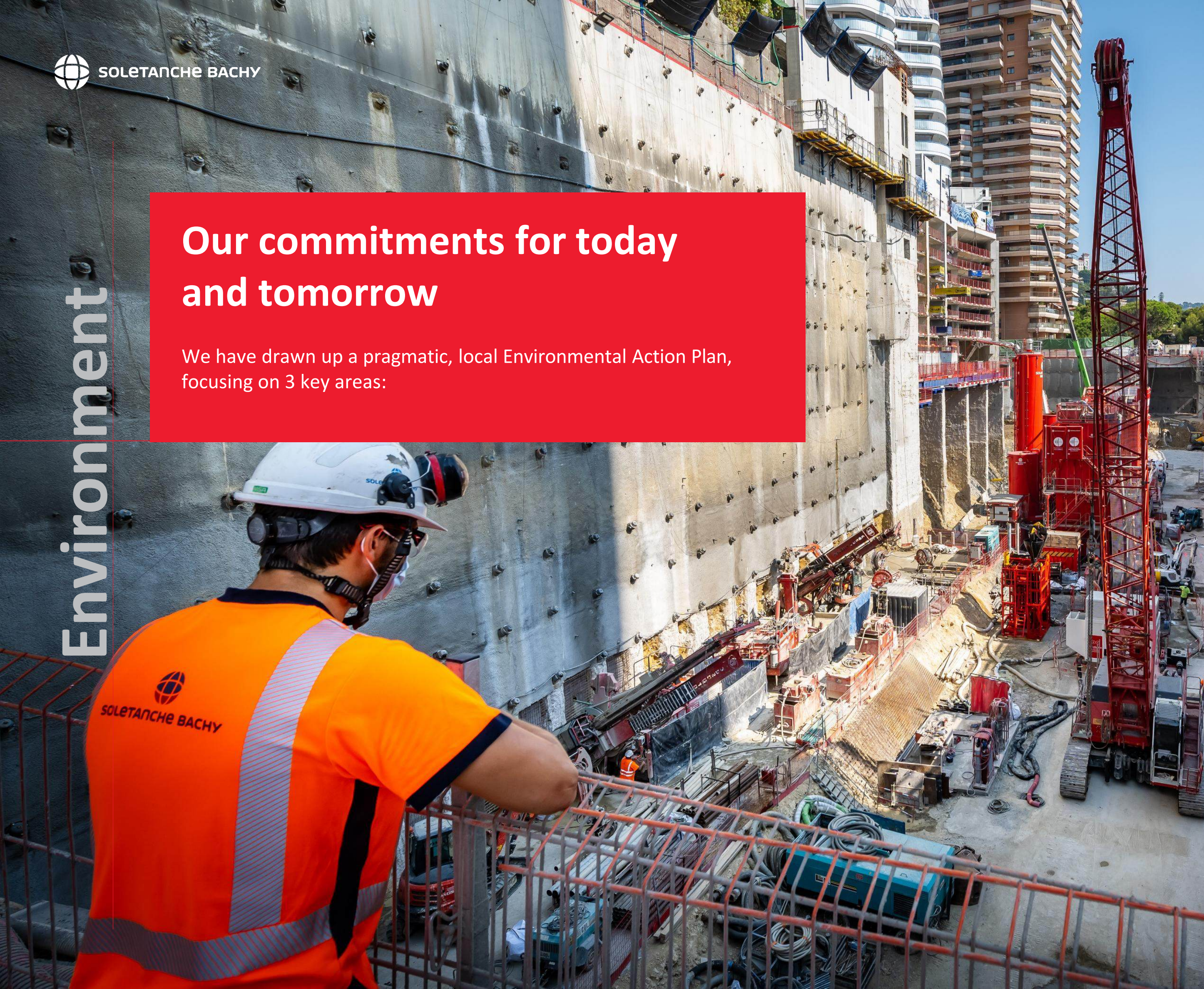
CEMENT

Cut our indirect CO2 emissions by 20% by 2030 by reducing our cement consumption, using less concrete and employing cements with a reduced carbon footprint and alternative binders.



WASTE

Minimize waste and maximize recycling and recovery (destruction, storage, recycling).



Our solutions to reduce our environmental impact

At Soletanche Bachy, we are committed to reducing the carbon footprint of your projects and our operations through 3 levers:

- ⊕ **By building structures with a positive impact** (clean mobility, water quality, energy-efficient buildings, etc.).
- ⊕ **By using our technical expertise to reduce the environmental impact of projects** (cleaner machines, less carbon-intensive materials, more sober design variants, etc.).
- ⊕ **By carrying out actions on site that contribute to preserving the environment** (waste sorting and recycling, water savings, reduced fuel consumption, etc.).



EXEGY by Soletanche Bachy: our low-carbon concrete offer

Materials with a reduced carbon footprint, available on the market or developed by Soletanche Bachy



Exclusive services to benefit from Soletanche Bachy's materials expertise (dedicated laboratory, binder research, supplier relations)

Innovation is in our DNA

We are constantly putting our innovative capabilities to work for the improvement of our processes, for the environment and the digitalization of our worksites.

The Hydrofraise®

In the 1970s, Soletanche Bachy developed the Hydrofraise®, the benchmark in diaphragm wall drilling. We have been developing it continuously ever since. Today, it is available in several versions:

- ⊕ compact for low headroom works,
- ⊕ containerizable, to reduce transportation time and carbon footprint,
- ⊕ with a grippers kit for very hard ground conditions,
- ⊕ equipped with an electric power pack, or all combined.



Digital

In addition to our extensive use of software and supervisions, we have created Z-Lyze, our Big Data platform.

We are also using BIM methodology for the design and rendering of our projects.

+500
patents

+60
innovation
awards

R&D

Among many projects, Soletanche Bachy is developing Biocalcis®, a biotechnology that imitates natural calcification to cement the ground in place while maintaining its initial porosity.



Innovation from the field

Productivity, safety, environment: all over the world, our worksite teams are behind numerous innovations in the implementation of our processes and our equipment.

Developing processes to reduce our carbon footprint

Innovation

Switch to electric equipment to make it more energy-efficient

- + Hydrofraise® with an electric power pack.
- + Battery packs to smooth power peaks required for our drilling fluid production plants.

Develop low-carbon materials to reduce our CO2 emissions

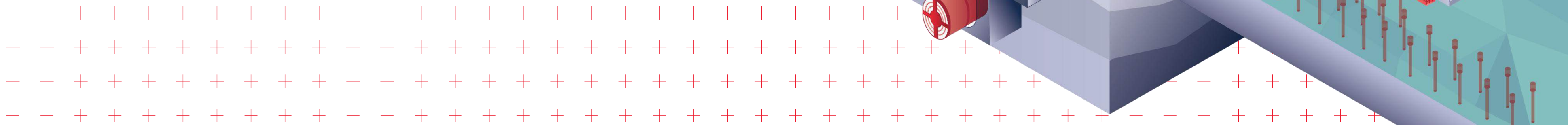
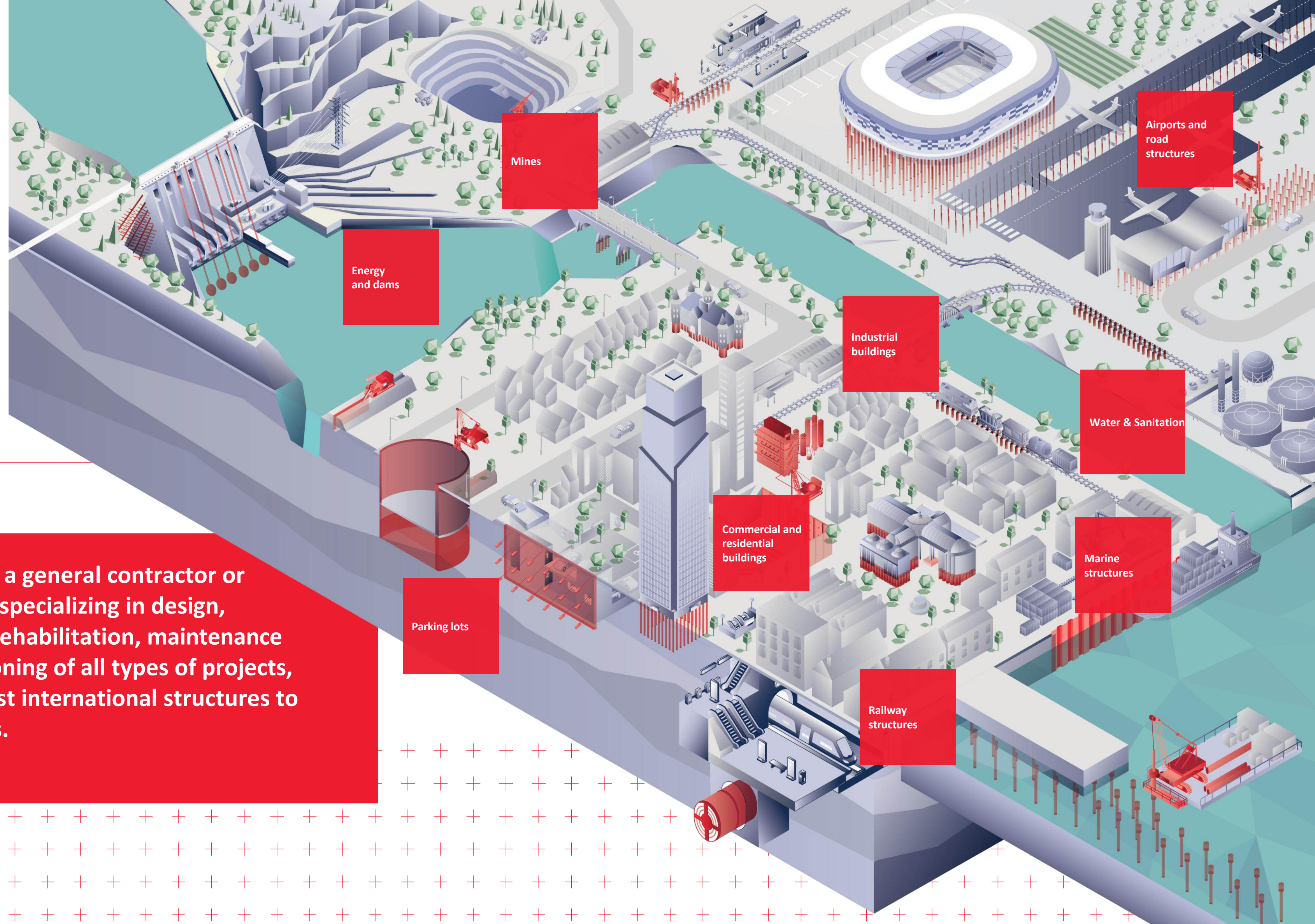
In addition to our EXEGY by Soletanche Bachy low-carbon concrete range, our laboratory develops innovative low-carbon materials, such as cement-free concrete made from activated slag.

Optimize our processes to use fewer resources

- + Recycling of soil-cement spoil from the Jet Grouting process.
- + Threaded driven piles, which halve the volume of concrete used and produce no spoil.
- + Permanent diaphragm wall without reinforcement, which eliminates the need for steel and reduces concrete quantities.

Our markets

We operate as a general contractor or subcontractor specializing in design, construction, rehabilitation, maintenance and commissioning of all types of projects, from the largest international structures to local worksites.



Our markets

Structures with a positive impact on the environment

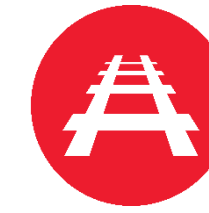


Dams



Energy

For cleaner energy



Rail



Metro

For green mobility and better air quality



Building

For energy-efficient offices and homes



Water & sewerage

For better water quality



Marine structures



Ports

Soletanche Bachy builds, repairs, refurbishes and deepens any type of maritime and river infrastructure

Our teams build any port structure: jetties, quays, dry docks, breakwaters, storage areas, dikes, locks, etc.

Our specialized subsidiaries



www.bradymarine.com.au



www.balineau.com



Our markets



ForSHORE, Soletanche Bachy's port expertise

ForSHORE supports its customers in their port infrastructure construction and repair projects with a strong geotechnical component.

This general contracting offer covers the 4 stages of port infrastructure projects:

- financing
- design
- construction
- asset management

www.forshore-ports.com



Soletanche Bachy masters the entire process of creating and rehabilitating underground structures.

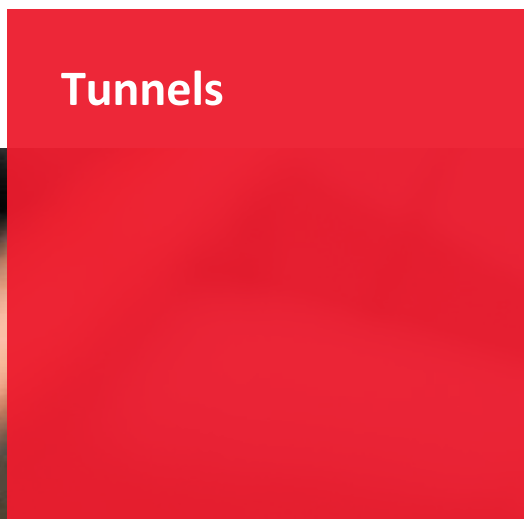


Tunnels

In terms of design-build, our offer includes underground excavation using tunnel-boring machines (TBMs) and microtunnel-boring machines (MTBMs), as well as conventional excavation, surfacing and associated special works.

We design and build our own tunnel-boring machines.

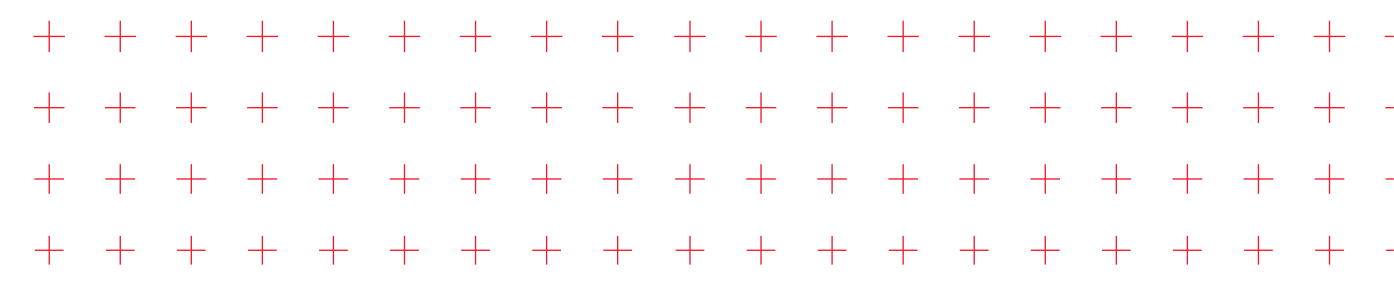
Our specialized subsidiaries




ROB CARR
www.rob carr.com.au


BESSAC
www.bessac.com

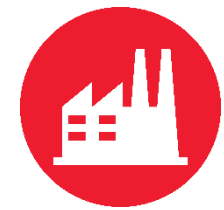

SOLETANCHE BACHY TUNNELS
www.soletanche-bachy-tunnels.fr





Other types of structures

Our markets



Industrial buildings



Oil & Gas



Road works



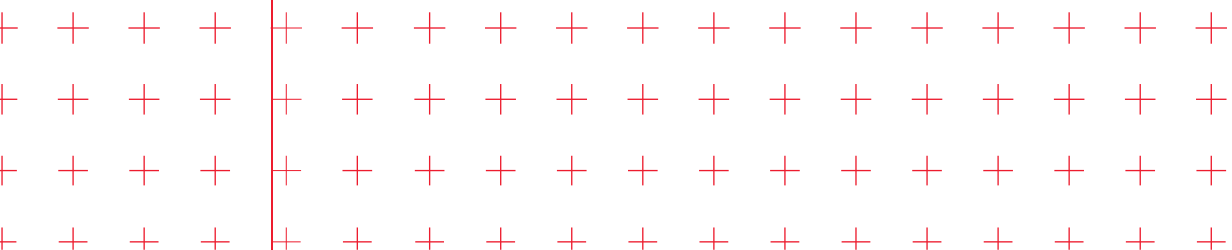
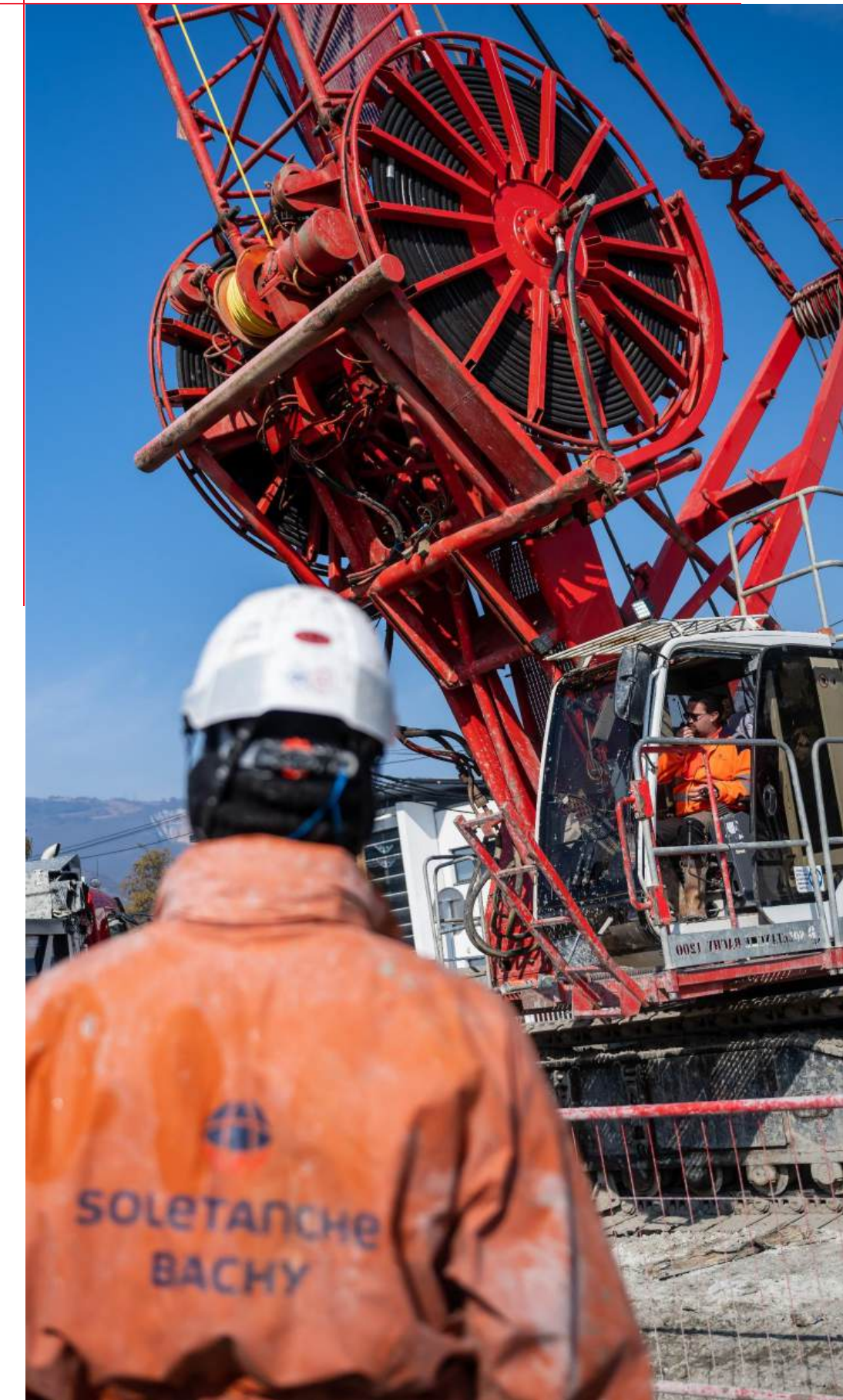
Mines



Airports



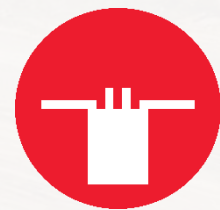
Car parks



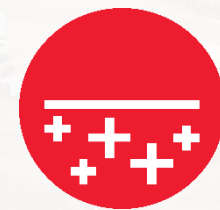
We have the expertise of soils and the widest range of foundation solutions.

This is why we are able to select, design and implement the most effective technical solutions for your projects, and the best engineering services.

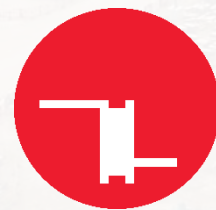
Our technical solutions



Deep foundations



Soil improvement



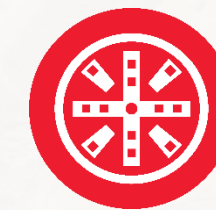
Retaining structures



Cut-offs



Reinforcing



Tunnels



Civil works



Deep foundations

We ensure the strength of your structures

A world leader in foundations and geotechnics, Soletanche Bachy frees you from constraints related to soils. You can build on solid ground, whatever the nature of the soil, the size and type of your project.

ENVIRONNEMENTAL BENEFIT

Threaded piles

This technology reduces the carbon footprint of projects through :

- ⊕ the reduction of the volume of concrete used
- ⊕ the almost total absence of spoil, which eliminates truck traffic evacuation.



Our specialized subsidiaries



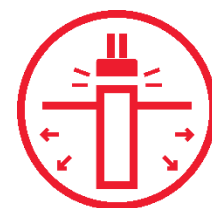
ROGER BULLIVANT

www.roger-bullivant.co.uk

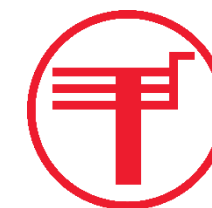


**SOLETANCHE BACHY
FONDATIONS SPECIALES**

www.sbfs.fr



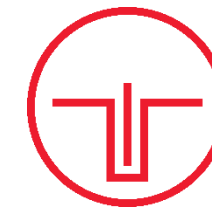
Driven pile



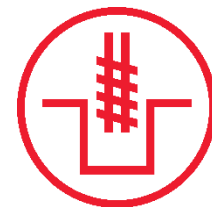
Plunge column



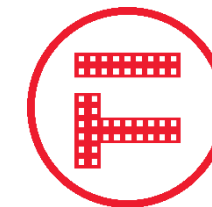
Displacement pile



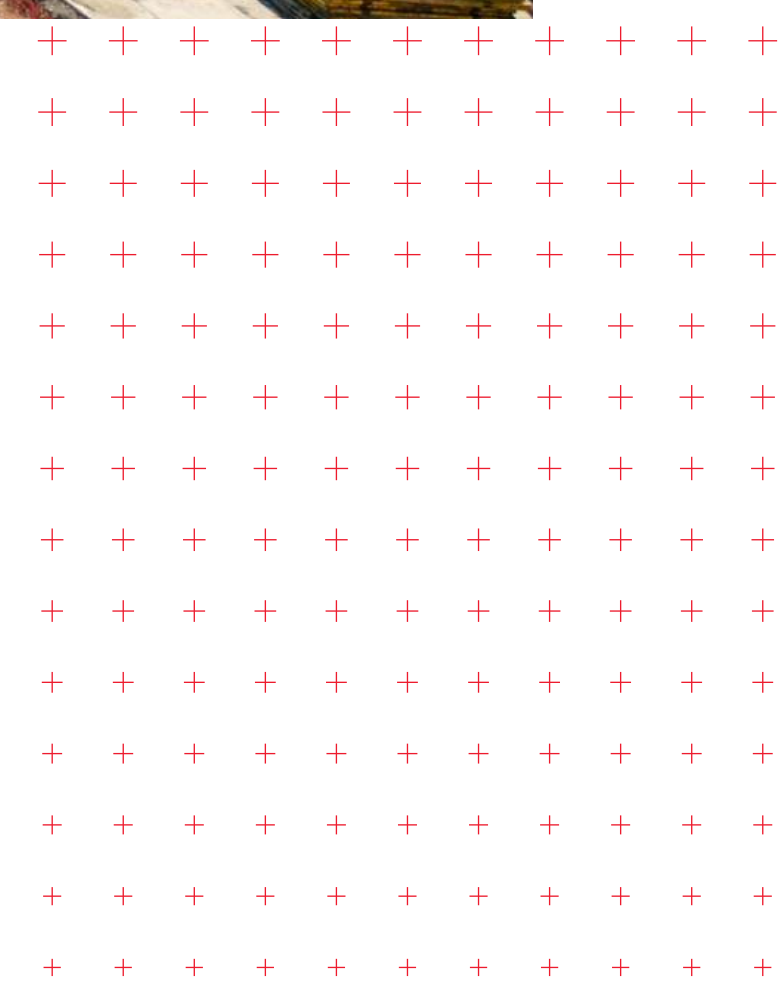
Micropile



Bored pile



Barrette





ENVIRONNEMENTAL BENEFIT

The steel-free diaphragm wall

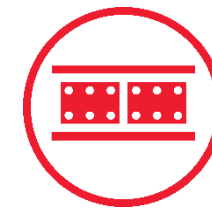
Soletanche Bachy produced a permanent diaphragm wall in non-reinforced concrete. This has eliminated the need for steel and reduced concrete volumes, thus reducing the project's environmental impact

Our technical solutions

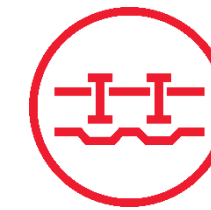
Retaining structures

We help you to carry out vertical excavations in complete safety

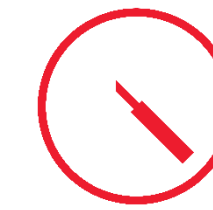
Soletanche Bachy installs retaining structures that meet your needs, whatever the nature of the soil and the constraints of your worksite.



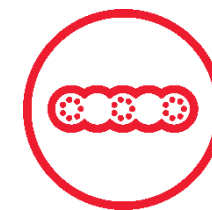
Diaphragm wall



Berlin-type wall



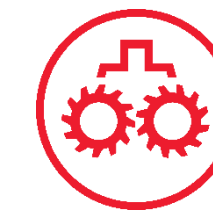
Ground anchors



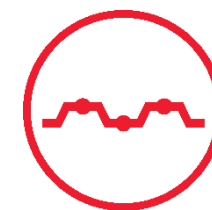
Secant piles



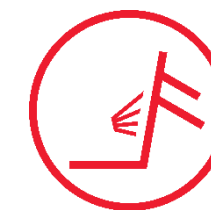
Prefabricated wall



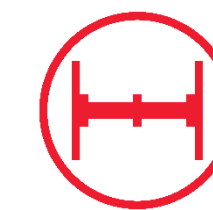
Geomix®



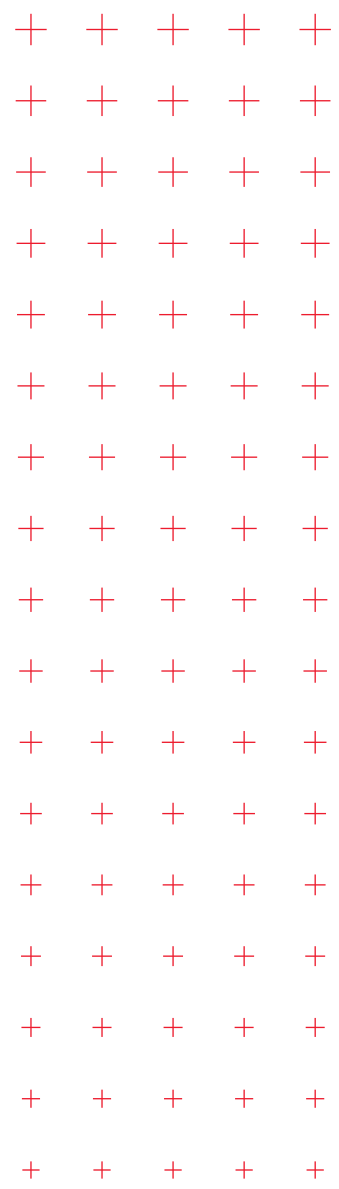
Sheet piling



Shotcrete



Struts



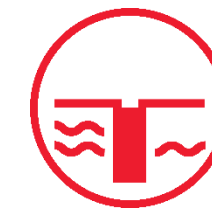
Our technical solutions



Cut-offs

We optimize the management of water present in the soil.

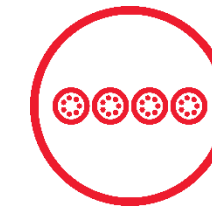
Soletanche Bachy's waterproofing techniques enable us to work on any type of structure and any type of soil, regardless of its permeability.



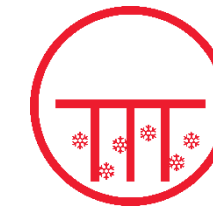
Cut-off walls



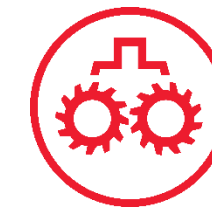
Jet grouting



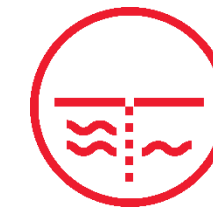
Contiguous bored piles



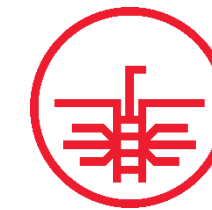
Freezing



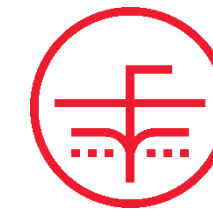
Geomix®



Thin cut-off wall



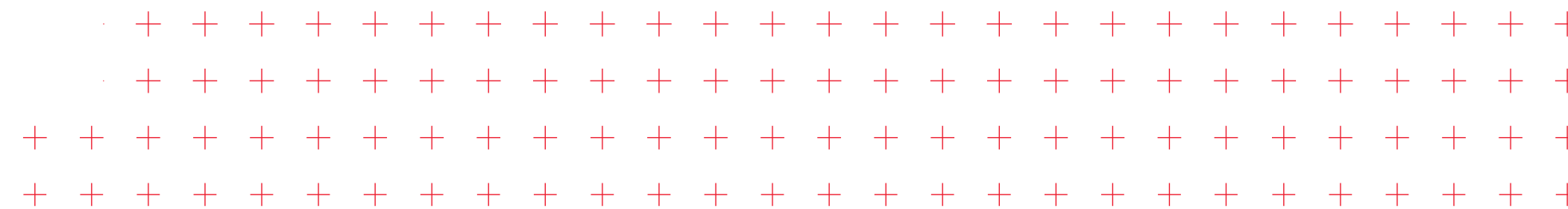
Grouting



Dewatering



Trenchmix®



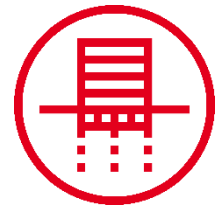
Reinforcement

We maintain and extend the life of your structures.

Reinforcement techniques can be used to repair structures, particularly for problems related to the hydrology of the soil, which can cause building subsidence.



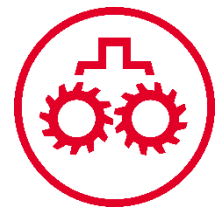
Jet grouting



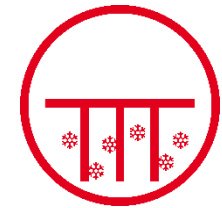
Underpinning



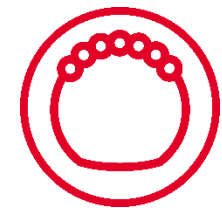
Grouting



Geomix®



Freezing



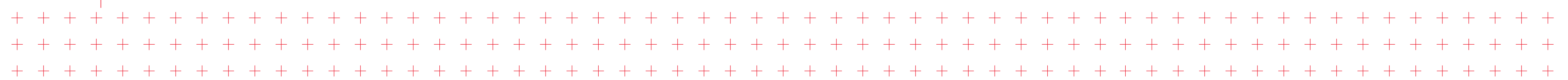
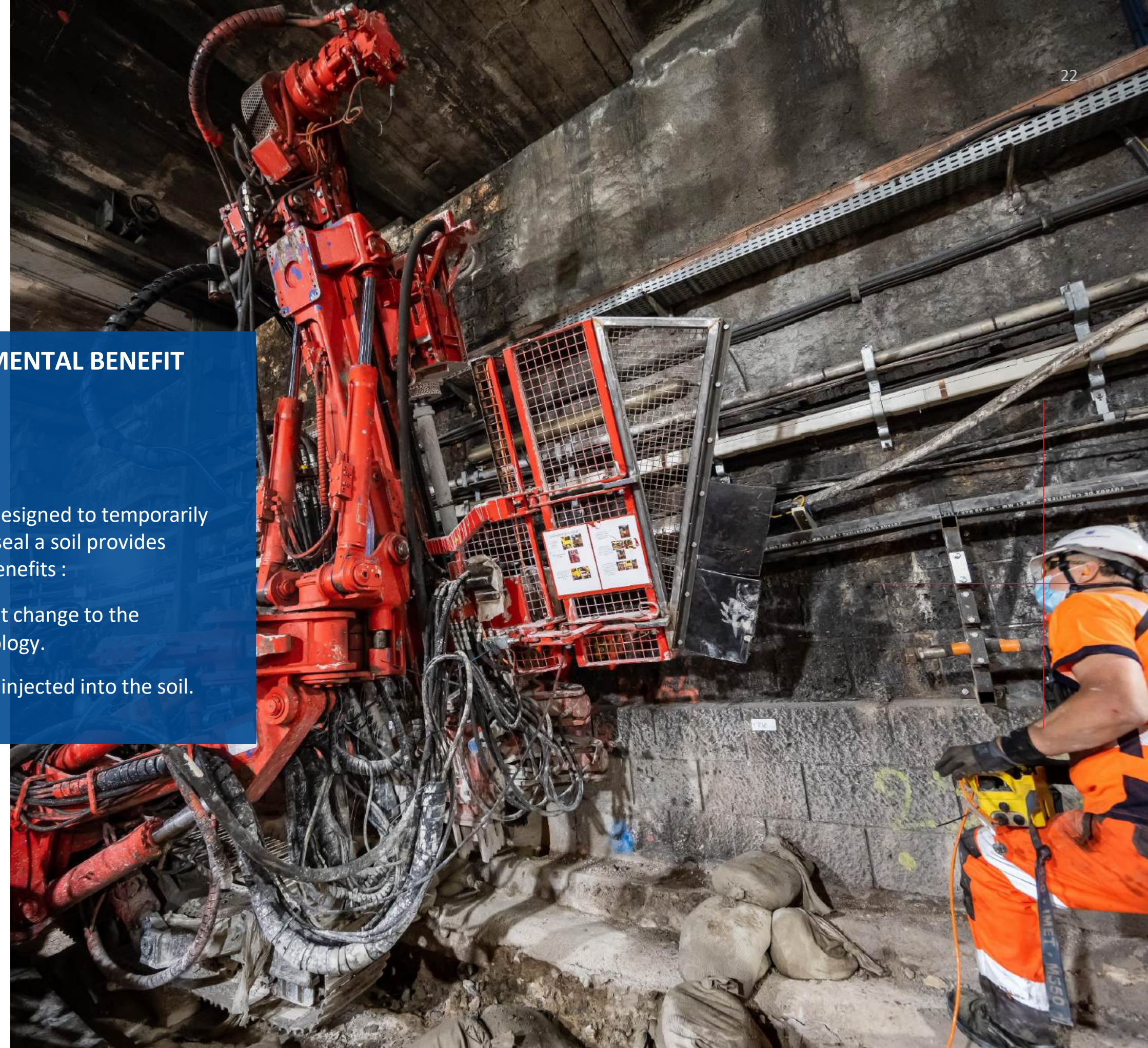
Pipe arch

ENVIRONNEMENTAL BENEFIT

Freezing

This technique, designed to temporarily consolidate and seal a soil provides environmental benefits :

- ⊕ no permanent change to the natural hydrology.
- ⊕ no chemicals injected into the soil.



Our technical solutions



Soil improvement

We ensure the durability of your structures, even on poor quality soils and in seismic zones.

Thanks to Soletanche Bachy's soil improvement techniques, we can modify the characteristics of a soil to increase its load-bearing capacity.

ENVIRONNEMENTAL BENEFITS

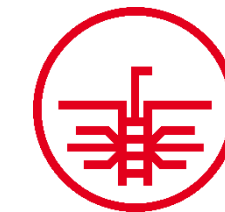
Deep Soil Mixing

This environmentally-friendly technique offers many advantages:

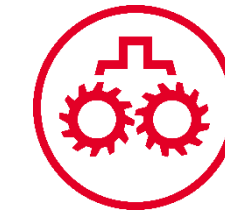
- ⊕ Fewer natural resources consumed (water, cement, etc.)
- ⊕ Little or no spoil generated
- ⊕ Pollution neutralization



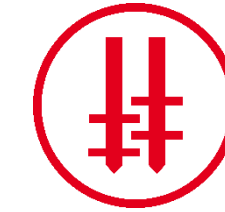
Jet grouting



Grouting



Geomix®



Single / Multiple auger



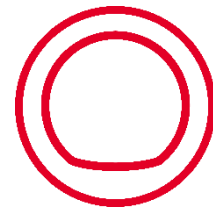
Trenchmix®

Tunnels

We offer a complete portfolio of solutions for tunnel design, construction and rehabilitation, from excavation to surfacing and special works.



Mechanically bored tunnels



Conventional tunnel



ENVIRONNEMENTAL BENEFIT

Ultra-low-carbon concrete pipes

As part of a wastewater treatment project, Bessac has produced a world first: a tunnel for discharging treated water built exclusively with Ultra Low Carbon concrete pipes, under the EXEGY by Bessac brand.

Civil works

We optimize the management and dimensioning of your project.

Soletanche Bachy offers a comprehensive package that combines foundations (and associated calculations) and civil engineering for maximum optimization and precision.

Our engineering services

Our specialized subsidiaries



www.tecsystem.fr



www.berminghammer.com

At Soletanche Bachy, we offer an integrated package for your projects. This includes not only the best technical solution, but also top-level engineering services, delivered by our experts at every stage of your project: design, machine or tool manufacturing and materials development.

200
engineers

30
design offices

14 000
tools and machines



Integrated design offices at every stage of your projects



Equipment designed and manufactured in-house, adaptable to each project



Expertise in drilling materials and fluids



A complete range of equipment



Soletanche Bachy is a world leader in foundations and soil technologies, operating in 60 countries via a network of 80 subsidiaries and branches. The Group offers effective and innovative construction solutions to public and private clients, in order to complete deep foundations, retaining structures, cut-off walls, reinforcing and civil works for all types of projects, from the largest international structures to the most local sites.

Through its subsidiaries, Soletanche Bachy operates as a general contractor and a specialist subcontractor to design, build, rehabilitate and maintain ports, dams, car parks, metros, tunnels, energy facilities, buildings, etc.

The Group provides environmental solutions by participating in the construction of structures with a positive impact, by implementing optimized technical solutions and by carrying out daily actions on our work sites.

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www.soletanche-bachy.com

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