



INACCÉS

GEOTÈCNICA VERTICAL, S.L.



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About us

Inaccés Geotécnica Vertical is a company that offers construction and engineering services with the aim of protecting people and infrastructure from geological and natural risks. One of the distinguishing features is the high degree of specialisation in vertical works and in areas that are considered to be hard to access or extreme.

Founded in April 1993 in Maresme, it has been a leader in the technical field since its beginnings and has led on the setting of quality and safety standards in the sector.

Inaccés' activity extends all over the world and the company has permanent branches in Andorra and India. With projects completed in 11 countries situated in Africa, America, Asia and Europe, the company's experience is one of challenges that have been successfully completed.





SERVICES WE OFFER

Treatment, stabilising and protection of slopes

An unstable slope can cause mudslides or landslides that pose a risk to people. This instability is due to a variety of reasons: land morphology, the presence of water, height, slope angle or cracks, among others.

At Inaccés, we examine the specific case at hand to establish the most efficient stabilisation action, from both a technical and an economic point of view. To do this, we assess:

- The causes of the instability
- The type of infrastructure affected: road, building, railway line...
- The level of safety required
- The visual and environmental impact
- The maintenance options or requirements

Mesh systems

Triple twisted, steel cable and geomesh depending on location, typology and needs of the land.

SERVICES WE OFFER

Treatment, stabilising and protection of slopes



Stabilisation using steel slings



Shotcrete in a tunnel entrance using a boom lift



Protection against unstable boulders using cable mesh



Climbing technique for vertical works to contain slopes



SERVICES WE OFFER

Scaling unstable rock masses

The scaling of unstable rock masses is done before any slope treatment or strengthening is carried out. The instability of rock masses is often due to root or shrub activity and they must be treated to mitigate their effects.

The characteristics of the land or the infrastructure underneath determine which type of scaling we use. We use the following:

- Mechanical
- Manual
- Demolition using expanding cement
- Blasting

Scaling

Manual, blasting and demolition using expanding cement depending on the nature and hardness of the terrain.



SERVICES WE OFFER

Landslide protection barriers

Landslide protection barriers are one of the most effective systems for protecting infrastructure and transportation routes in the event of a landslide. There are several types available, from traditional fixed barriers to dynamic energy-absorption screens.

We begin with an initial study that enables us to carefully select the type of barrier we want to install and the location in which we should install it, based on:

- The determination of potential risks
- The calculation of fall speeds
- The prediction of the most likely paths
- Knowledge of the energies that will need to be dissipated

Dynamic barriers

To absorb the energy from the impact of the rocks through the deformation of the elements the barrier is made up of.

SERVICES WE OFFER

Landslide protection barriers





SERVICES WE OFFER

Micropiles and injections

Strengthening the land and improving it in hard-to-access or small areas to achieve optimum safety standards is one of our specialisms. We have the most innovative machinery in the sector to be able to do it.

We examine the specific situation of the land meticulously and, from there, we propose the actions that need to be carried out.

Micropiles or minipiles or injections

At low pressure to strengthen foundations, walls or embankments.



SERVICES WE OFFER

Snow avalanches

By their very nature, mountains are spaces with plenty of hard-to-access terrain. That's why Inaccés wants to respond to all needs that may arise in these spaces, regardless of the time of year: even in winter.

We have a wealth of experience in assembling rigid or flexible structures to protect infrastructure and roads in the event of an avalanche:

- We have the know-how required to do it
- We work closely with the best European specialists in calculating and sizing this type of protection
- We have the machinery required to do it

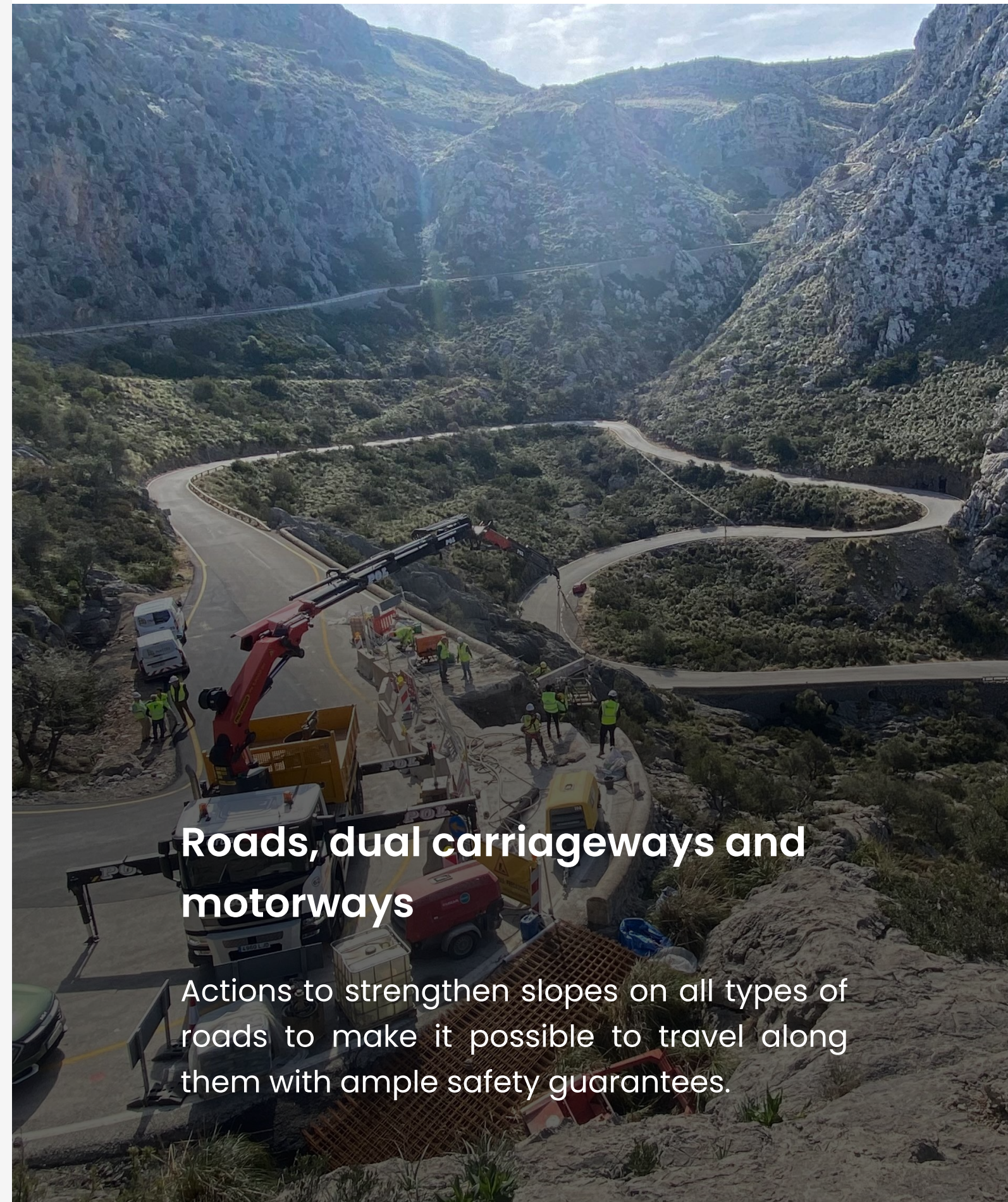
Barriers

Rigid, flexible or windbreaks, depending on the location, the morphology of the land and the thicknesses of the snow build up.



Areas of activity

The common denominator of our areas or fields of activity are that they are inaccessible and the services we offer help to make them safe, regardless of the conditions of the terrain they are located in.



Roads, dual carriageways and motorways

Actions to strengthen slopes on all types of roads to make it possible to travel along them with ample safety guarantees.



Residential, industrial, hotel and commercial buildings

Several projects in the field of construction with different purposes.



Railways, undergrounds and mountain railways

Interventions that enable seamless travel to be guaranteed.



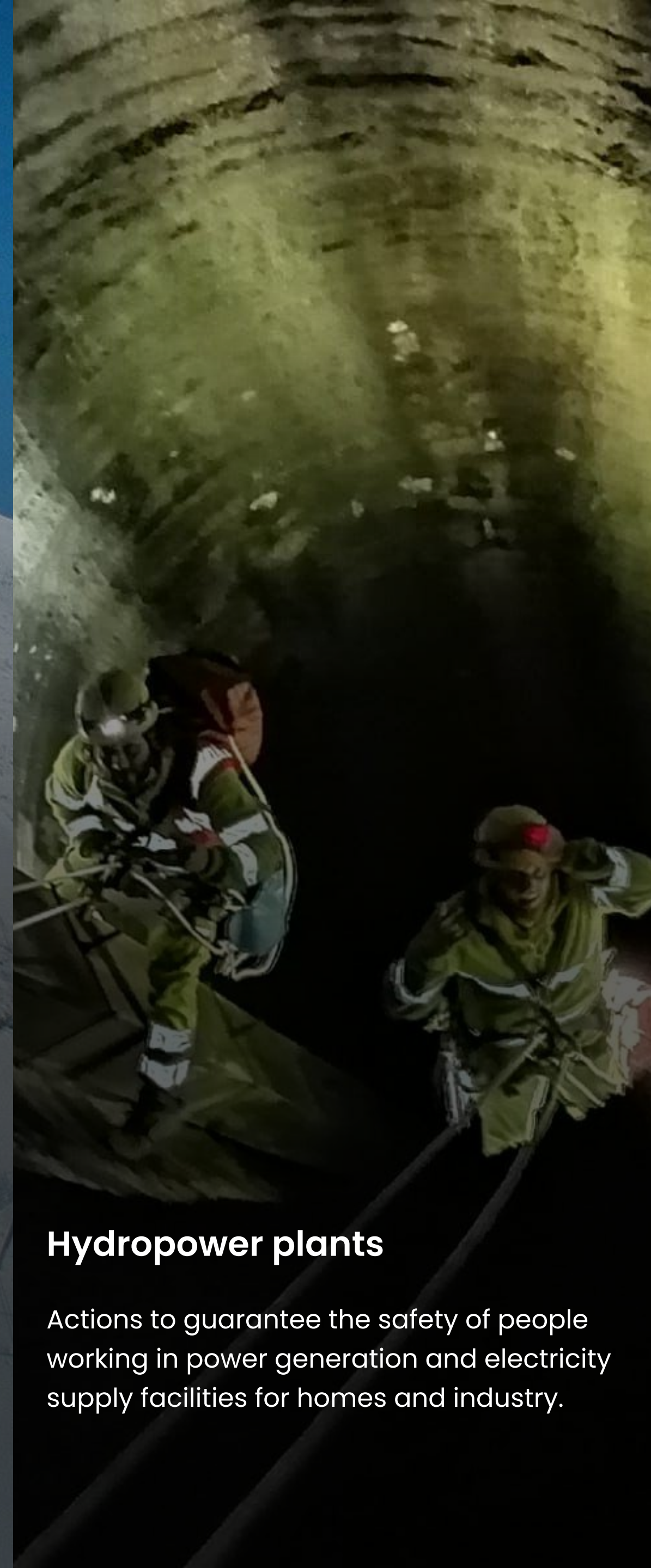
Funicular railways and cable transport

Execution of works to guarantee safe travel on funicular railways and cable transport.



High mountain and snow

Interventions in hard-to-reach areas situated high in the mountains where it is not possible to use conventional machinery and which require experts in working at height.



Hydropower plants

Actions to guarantee the safety of people working in power generation and electricity supply facilities for homes and industry.



Tunnels and underground galleries

Protection and waterproofing of tunnels and galleries to guarantee safe travel.

Who do we work for?

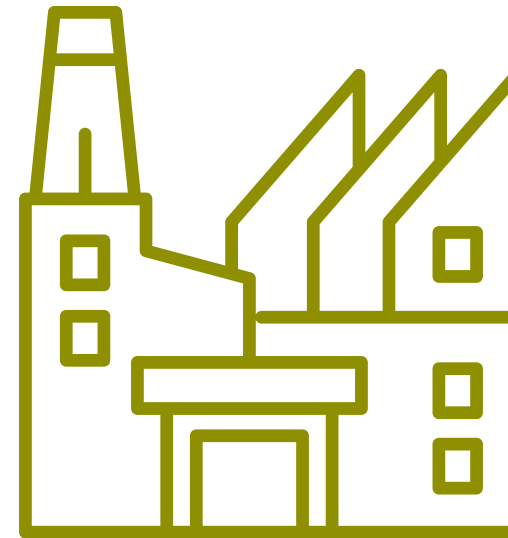
Since 1993, Inaccés has been offering its professional services to customers with a wide range of profiles.



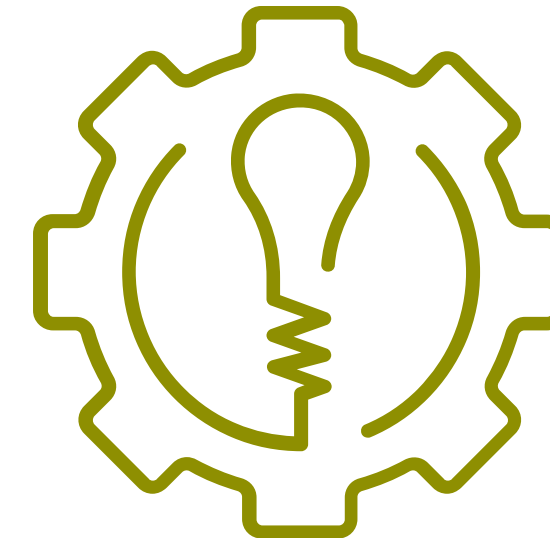
Public
administrations



Construction sector



Private industry



Energy sector



Waste
management
sector

Projects

2021

Terrassa, FGC

Geomesh reinforced with bolts and cables



Projects



2022

Tremp, FGC

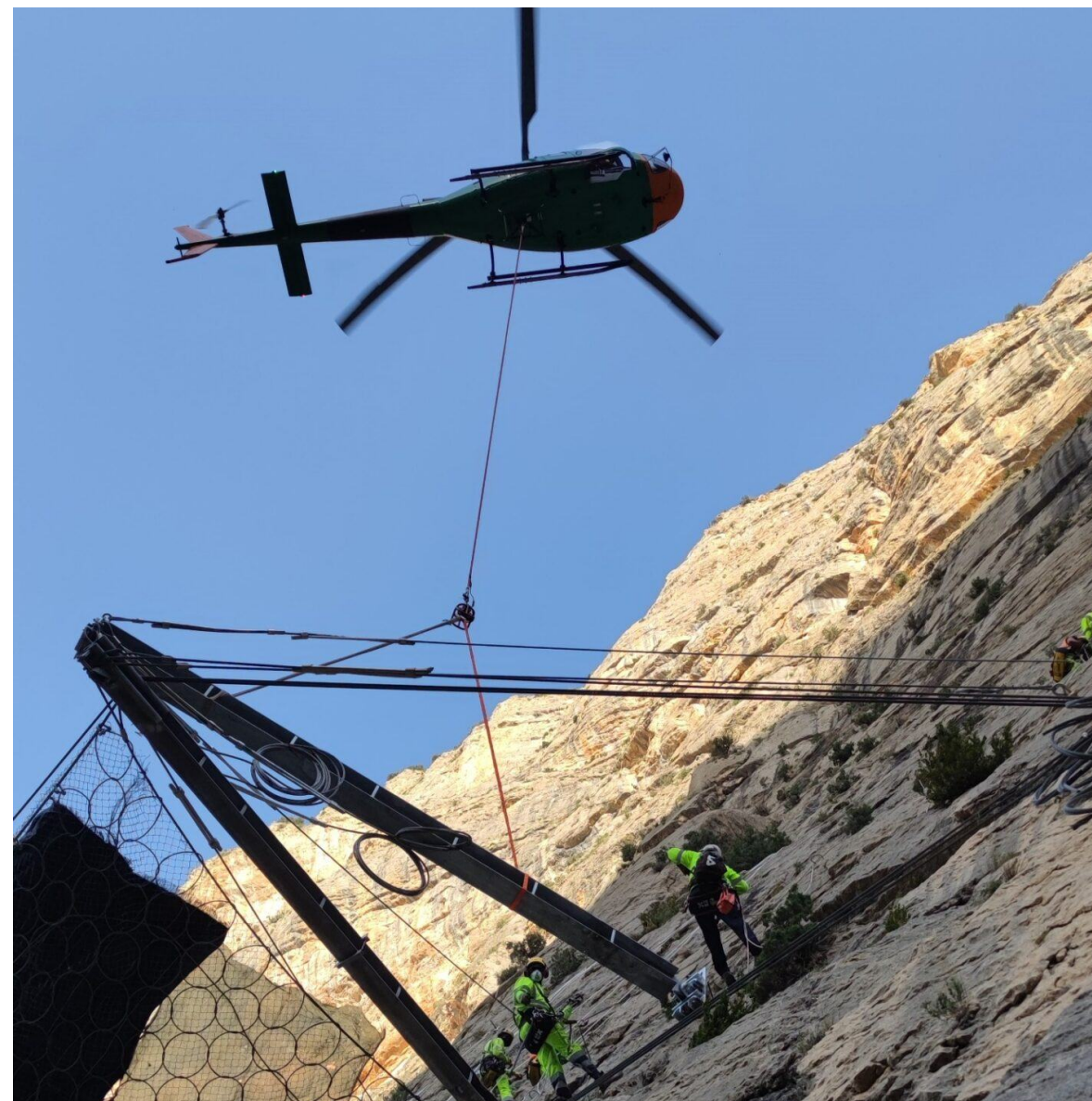
Geomesh reinforced with anchors and cables

Projects

2022

Camarasa, FGC

9,000 KJ, 7m gallery dynamic barrier



Projects



2023

Terrassa, Terrassa City Council

**Coloured shotcrete reinforced with electro-welded mesh,
anchors and surface drains**

Projects

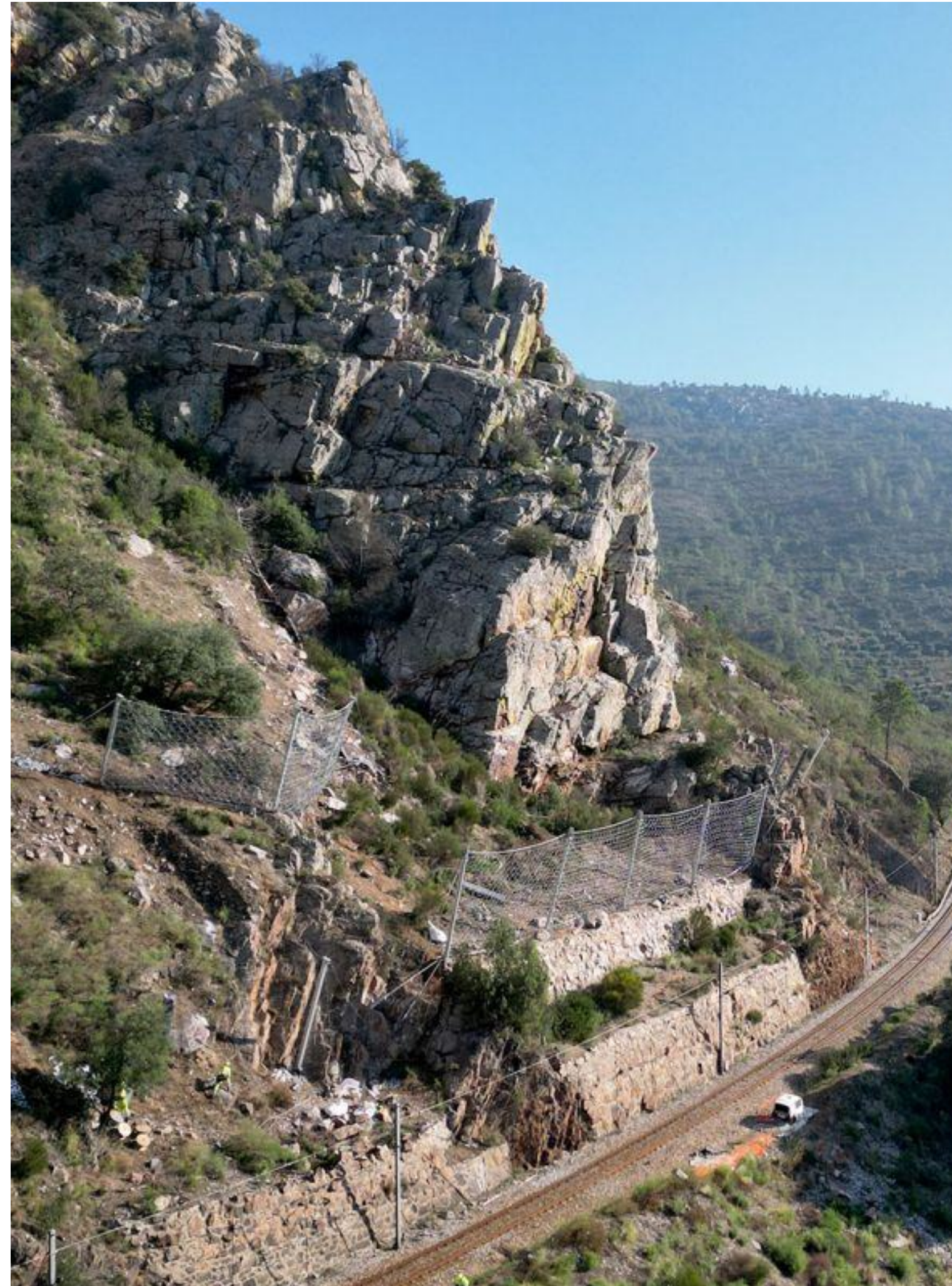
2020

Andorra, Government of Andorra

Slope containment using bolts on a concrete beam and dynamic barrier



Projects



2023

Portugal, Infraestruturas de Portugal

Dynamic protection barrier on the Beira Baixa line

Projects

2023

Camarasa Reservoir, FGC

Bolts to secure rock masses



Projects

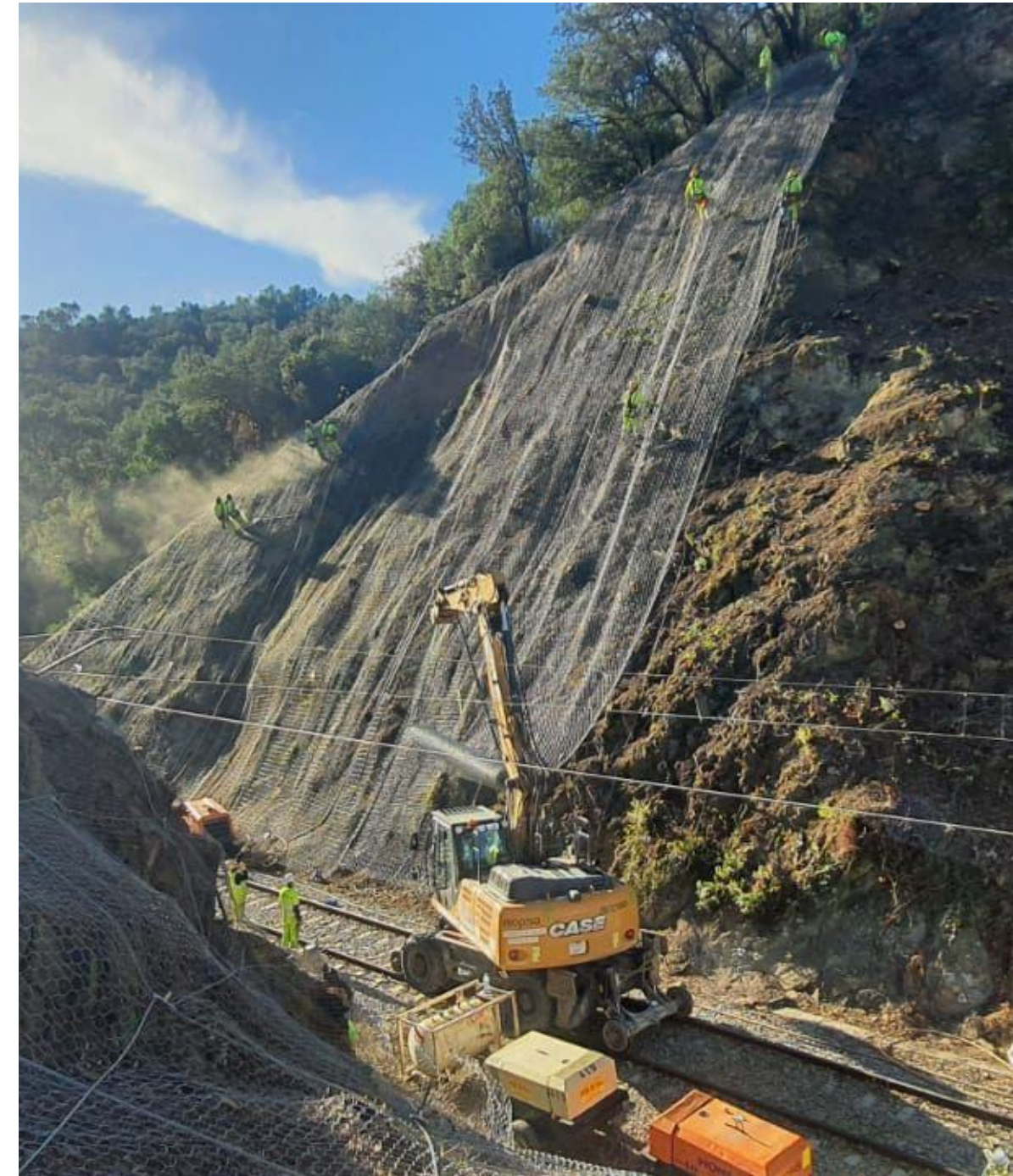
2023

Llinars del Vallès Industrial Estate

**Shotcrete with colourant, reinforced with
electro-welded mesh and drains**



Projects



2023

BCN-Puigcerdà (Figaró) Train line, ADIF

Installation of triple-twist mesh reinforced with anchors, cable and cable panels

Projects

2022

Ventamillo Canyon, Ministry of Public Works and Transport
Installation of a gallery of dynamic barriers



Our resources

Inaccés has a team of professionals specialised in different disciplines in order to guarantee an optimum result of the work, despite the extreme and complex conditions in the location in which the work is being carried out.

Additionally, we have machinery and equipment with the latest technology so we can manage the different projects comprehensively, from start to finish, without having to rely on third parties.





UNIQUE IN SPAIN

Spider excavators





MAXXIMUM INNOVATION

This innovative machinery allows us to optimise the speed at which actions are carried out, the precision and quality of the works and is enormously helpful on hard-to-access terrain.



Why is Inaccés the partner you need?

We are a family company with **solid and proven experience**. We have overcome all of the contextual ups and downs, while continuing to grow and expand further. Inaccés is formed by 140 people, we love what we do and are committed to quality and excellence.

From Argenton, in Maresme, to any corner of the world. Inaccés has three branches, **located in Andorra, India and Catalonia**. Since we were founded, we have worked in different parts of **America, Asia, Africa and Europe**. We strive to continue growing Inaccés' international presence.

Our **steadfast and discerning mindset** with everything we do has led us to become leaders in the sector and enabled us to have the grounding and enough know-how to set the quality and safety standards that govern the sector.

We only work with **premium quality materials** and we look for the best suppliers on the market. **Safety must be taken seriously** and, therefore, optimum quality is vital.

We are **firmly committed** to continuous improvement and always aim to be at the forefront of the sector. We are pioneers in finding solutions and we want to remain so.

We are **honest and transparent**: all our projects aim to guarantee client safety.



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