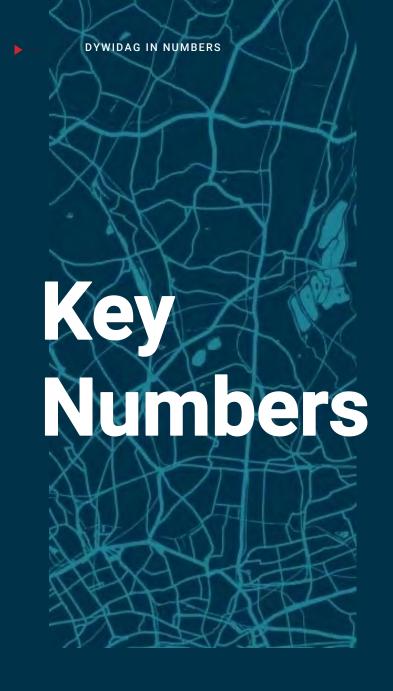


Company Overview

07th June 2023



YEARS OF DYWIDAG

CURRENT PROJECTS

150+

PRODUCT SYSTEMS

ACCREDITATIONS

300+

100+

SPECIALISTS

REVENUES

1500+ 450m+



Business Overview

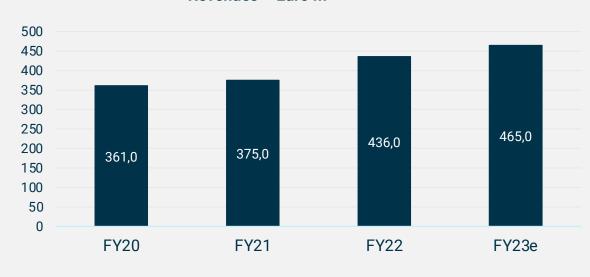
DYWIDAG is a specialist engineering business providing products and services to stabilize ground and create, strengthen, support concrete structures. The company also provides specialist monitoring and inspection services.

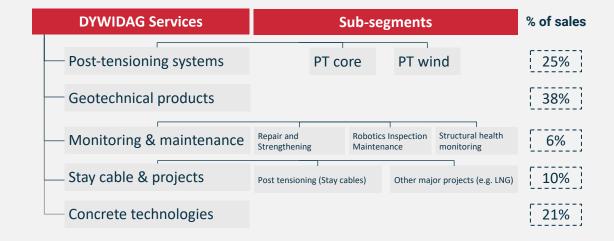
The business was founded in 1865, employs circa 1,500 people and is headquartered in Munich.

The main service lines are post-tensioning, geotechnical products, repair and strengthening services, stay cable system design and installation, structural monitoring and concrete technologies.

Key customers are companies in the civil engineering and building sector delivering infrastructure projects.

Revenues - Euro m





History



Dyckerhoff & Widmann AG (DYWIDAG) founded a small concrete construction company.



1979

DYWIDAG-SYSTEMS
INTERNATIONAL (DSI) founded
to expand international business.
Invests in R&D and a second
global segment: geotechnics.

Triton

2011

Private equity investor **Triton** becomes the new shareholder of DSI.



Alpin Technik and Datum Group acquired monitoring services.

2018



DSI rebrands as DYWIDAG.

2020



1950

DYWIDAG starts license business for construction systems with **bridge posttensioning** at its core.



2006

DSI enters the European concrete accessories market by making acquisitions in France and Germany.



2016

Development of construction activities in Middle East & Asia, including new joint ventures in Qatar and India.



2019

DSI acquires Polish based PARTEC.



2021

Divestment of DSI Underground to Sandvik.





Products and Services

Geo-technical

manufacture & supply of permanent & temporary anchors, self drilling anchors, mesh, chemicals & associated accessories

Post-tensioning systems

manufacture and installation of bonded and un-bonded post tensioning systems

Stay cables

design and installation of stay cable systems

Repair & refurbishment

replacement resp. adding of post-tensioning systems to existing structures, rope access & wrapping of stay cables

Concrete technologies

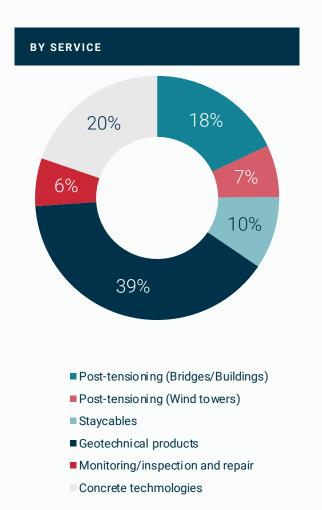
chemicals, form tie bars systems and modular manufactured formwork systems for reinforced concrete construction

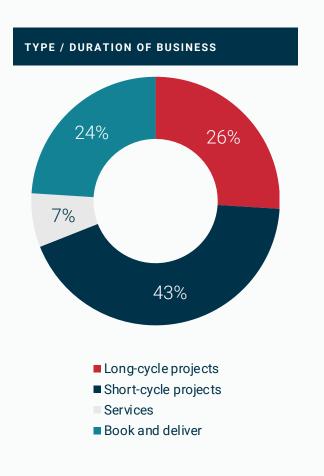
Monitoring & inspection

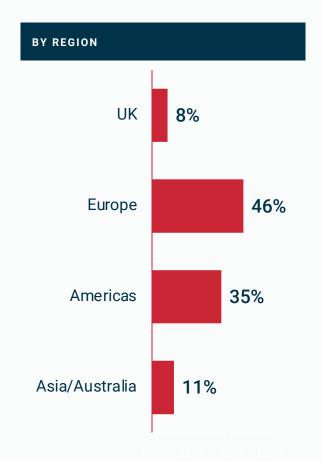
ground movement, rail deflection, stresses/movements in cables and anchors and inspection



Revenue Segmentation









End Markets



→ Infrastructure

Bridges / roads / tunnels / rail / dams



Construction

Commercial buildings



Mining

Open cast mines / access roads (slope stabilisation)



Oil and gas LNG Tanks



Renewables

Wind turbines



Power

Repair and maintenance service

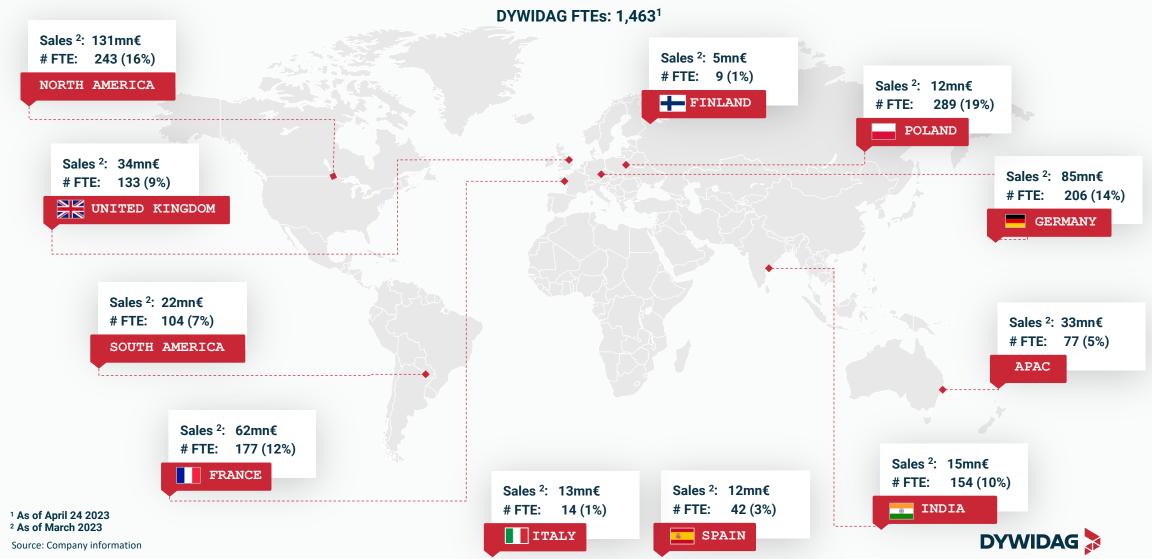


Nuclear

New power stations and infrastructure for storage of nuclear waste



Geographic Presence



Purpose, Vision, Values & Objectives

We have a clear vision of where we should operate, how to compete and how to grow.

Our Purpose

to make infrastructure safer, stronger, smarter.

Our Vision

to be the leading global supplier of post tensioning systems, stay cable systems, geo-technical products and concrete construction technologies to the infrastructure and construction industries.

We aspire to be the best at what we do.

Our Values

- Safe we will always operate safely
- Trustworthy we do what we say
- Ethical we act with integrity and always conduct our business in an ethical way
- Results orientated we are focused on delivering the right results for all our stakeholders
- Collaborative we work as a team internally and externally
- Innovative our business DNA is based on engineering excellence and innovation

Our Strategic Objectives



A market leader in what we do



A business regarded by our customers



A profitable and cash generative company



A place which we all want to work at



A safe group with a long-term zero incident target



Our Future Strategy

We have a clear vision of where we should operate, how to compete and how to grow.

Where do we play?

- Re-focus on the core business and grow sales in the most profitable / cash generative products in geotechnical, post tensioning, Stay Cables, Concrete technologies, monitoring product / service lines
- Re-focus monitoring services on its original core markets – rail infrastructure and in building a growing revenue stream for infra-structure intelligence software services
- Reduce presence in more commoditized lower margin / high risk services and exit un-profitable or low margin markets

How do we compete?

- Differentiate products / services through value added engineering solutions, product approvals, service delivery levels, product range / availability, smart monitoring technology / digital services and key supplier arrangements
- Operate an agile / responsive regional model – "local presence / global competence"
- Attract and retain the best sales, technical and operational people in the industry

How do we grow?

- Build presence in higher growth / higher margin markets in Americas, UK and Asia / Australia
- Expand presence in adjacent markets such as mining infrastructure and tunnelling and sell a full GT product range in all key markets
- Re-capture lost market share in core GT / R&S markets in Europe and the UK and build presence in renewables in Europe
- Grow volumes in concrete accessories (formwork systems and building chemicals)



We make infrastructure safer, stronger, and smarter.

Purpose:

Safer

Stabilising ground, bridges, building and critical structures.

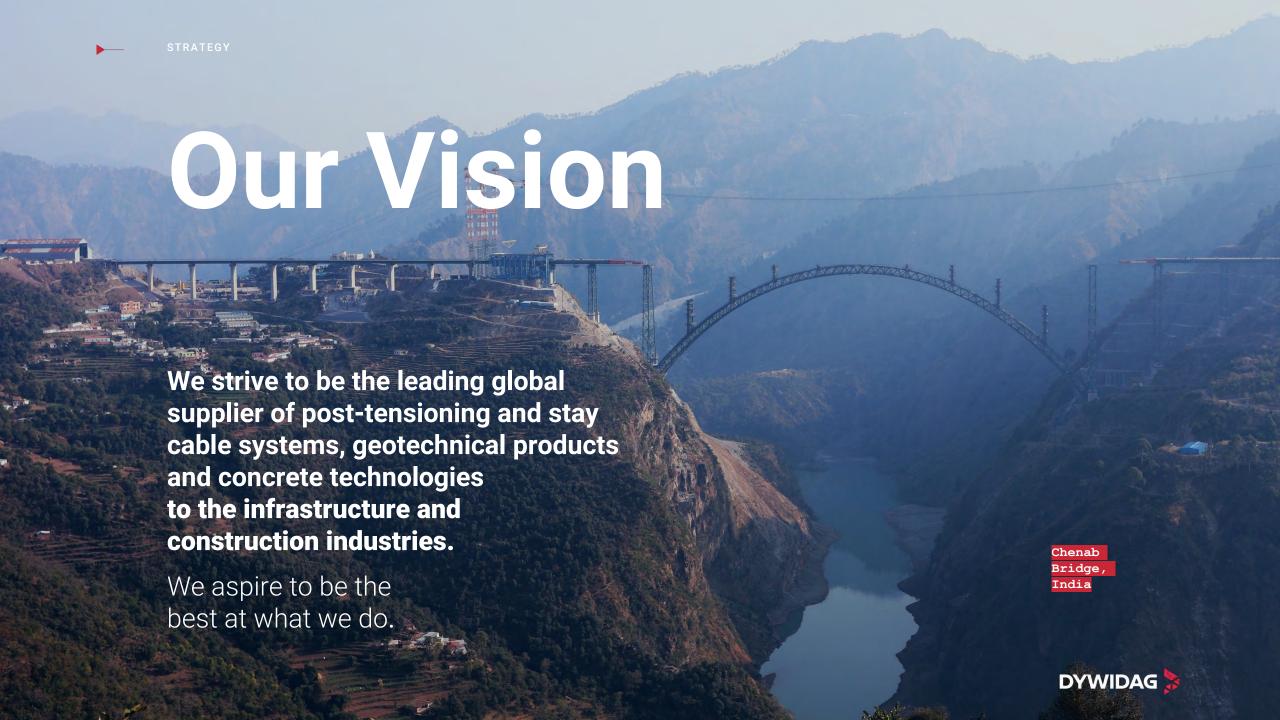
Stronger

Creating stronger, longer lasting structures.

Smarter

Delivering innovative engineering and structural monitoring systems.





Our Values How we do business?

Safe

We will always operate safely.

Collaborative

We work as a team internally and externally.

Changuinola Dam, Panama

Trustworthy

We do what we say.

Ethical

We act with integrity and always conduct our business in an ethical way.

Results orientated

We are focused on delivering the right results for all our stakeholders.

Innovative

Our business DNA is based on engineering excellence and innovation.



Our Future Strategy Where do we play?

Re-focus on the core business and grow sales in the most profitable / cash generative products and service lines for geotechnics, post-tensioning, stay cables, concrete technologies and monitoring and maintenance

Refocus monitoring service on its original core markets: rail infra-structure and in building a growing revenue stream for infra-structure intelligence software services

Reduce presence in more commoditized lower margin / high risk services and exit unprofitable or low margin market

Stuttgart 21, Germany

Our Future Strategy How do we compete?

Differentiate products and services through value added engineering solutions, product approvals, service delivery levels, product range or availability, smart

monitoring technology, digital services and key supplier arrangements

Operate an agile and responsive regional model: "Local Presence, global competence."

Attract and retain the best sales, technical and operational people in the industry

Stuttgart 21, Germany

Our Future Strategy How do we grow?

Build presence in higher growth or higher margin markets in Americas, UK and Asia, Australia

Expand presence in adjacent markets such as mining infrastructure and tunnelling and

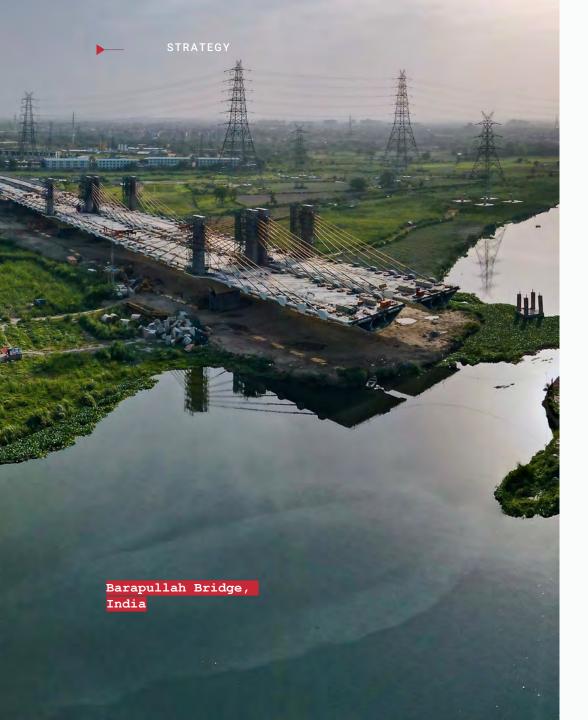
sell a full GT product range in all key markets

Re-capture lost market share in core Geotechnics and Repair & Strengthening markets in Europe and the UK and build presence in

renewables in Europe

Grow volumes in concrete technologies (formwork systems and building chemicals)

Stuttgart 21, Germany



Our Strategic Objectives



A market leader in what we do



A place which we all want to work at



A business regarded by our customers



A safe group with a long-term zero incident target



A profitable and cash generative company



Our foundation

People

The right, empowered team taking ownership working with healthy structures, culture and values.

Supply chain partners

We care for long-term partners with aligned interests.

IT

Right infrastructure, e-commerce and business systems

R&D

Invest in new products + product development

Manufacturing facilities

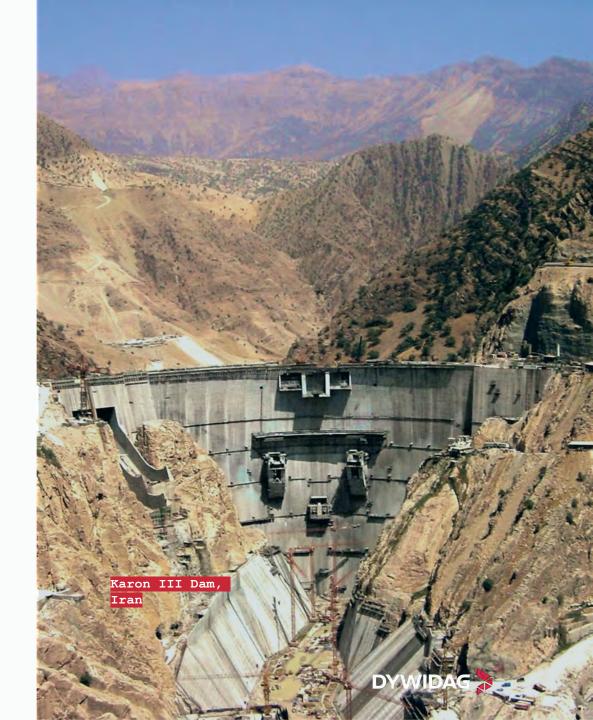
Our enablers are the right locations, valuable assets, processes and maintenance regimes.

Rewards & incentives

Clear and aligned with organizational goals

Operating systems

smart, simple and implemented HSE, quality and financial systems



Senior Management Team



HUGH PELHAM CEO



PIOTR PECZAK CHIEF FINANCIAL OFFICER



CHRISTIAN ROEMSCHIED PRESIDENT EUROPE



THOMAS
KAHL
PRESIDENT ASIA &
MEGA PROJECTS



MIKE KELLEY PRESIDENT AMERICAS



JARVIS
PRESIDENT UK

IAN



JOANNE COOKE PRESIDENT TAM GROUPE



DR. CHRISTIAN GLÄSER CHIEF TECHNOLOGY & OPERATIONS OFFICER



TOBIAS ENTZIAN GENERAL COUNSEL, LEGAL



CHRISTINE GEORGE HUMAN RESOURCES



STEPHEN TRAINER IT



NORBERT KLOSA HSE



Geotechnics

Anchor and piling systems for soil, rock, and infrastructure stabilization (over 30,000,000 supplied).

Applications

- Excavations
- Slope Stabilizations
- Structural Repair Solutions
- Foundations
- Hydro- and Marine Structures

Customers

- Geotechnical Contractors
- Special Foundation Engineering Companies
- General Contractors

Key Products





Zugspitze, Germany

Engineered Solutions

Production, supply, and tensioning of DYWIDAG Ground Anchors, Soil Nails, Piles and Tierods



Post-Tensioning

Strengthening concrete structures by engineering and installing the largest variety of tendons in the world.

Applications

- Bridges
- Tanks
- Wind Towers
- Commercial Buildings

Customers

- Public Institutions (Department of Transportation; DOT)
- Specialized Wind Contractors
- General Contractors

Key Products











Tsubasa Bridge, Cambodia

Engineered Solutions

Production, supply, installation, engineering services, and technical support of DYWIDAG stay cables, strand and bar tendons



Maintenance

Repair and strengthening, tailored to your infrastructure's needs.

Applications

- Bridges
- Dams
- Buildings
- Parking structures
- Stadiums
- Tunnels

Customers

- Asset owners
- General contractors
- Operators

Key Products

- Repair of monostrands, barrier cables, concrete
- External strengthening
- Retrofitting
- Cableskin and maintenance



RSA Office Building, US

Services

Strengthening historic building by utilizing strand system: External bonded post tensioning system on each side of 5 post tensioned beams



Concrete Technologies

Applications

- Commercial Buildings
- Civil Engineering
- Structural Repair
- Residential Construction
- Precast Concrete Elements

Customers

- General Contractors
- Small- and medium sized businesses

Key Products

- Permanent Formwork
- Waterproofing
- Reinforcement Technologies
- Chemicals for Concrete Structures
- Grouts, Mortars and Concrete Repair
- Lifting and Fixing Tools for Precast
- DYWIDAG Form Tie Systems



Sewage Plant Marne Aval, France

Engineered Solutions

Comprehensive range of construction materials including manufacture and supply of special solutions for individual projects and applications, supported by design input and technical support



Monitoring

Monitoring, inspection by certified inspectors and bots—providing infrastructure intelligence for every phase of life.

Applications

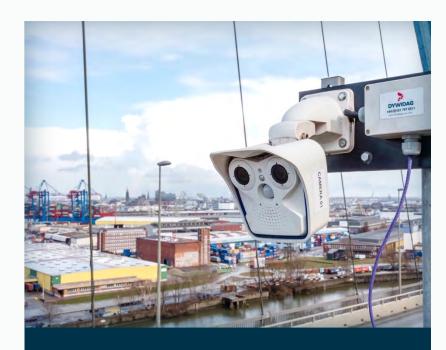
- Bridges
- Slopes
- Tunnels

Customers

- Asset Owners
- Public Institutions & Authorities
- Engineering Companies

Key Products

- Infrastructure Intelligence
- Infrastructural Health Monitoring
- Robotic Inspection
- Testing and Inspection



Smart Köhlbrand Bridge, Germany

Services

Selection and installation of 320+ sensors and measurement technology, data hosting on-site, real-time transmission to customer SFTP server





Extreme Weather Challenges
DYWIDAG to Work Under Tight
Timeline and Tough Conditions

YEAR OF EXECUTION

2022

OWNER

Network Rail

GENERAL CONTRACTOR

Universal Piling Ltd

SCOPE

Supply, technical support, design

PRODUCTS:

DYWIDAG Drill Hollow Bar Micropile





Atlas Road Track & Bridge Monitoring YEAR OF EXECUTION

2020

OWNER

UK Power Networks

GENERAL CONTRACTOR

Clancys, UK

SCOPI

Supply, installation, technical support

PRODUCTS:

Automated and Manual Monitoring, VoidMate, Infrastructure Intelligence



Monitoring Solution Keeps Britain's "Last Great Railway Bridge" Healthy YEAR OF EXECUTION

2020

LOCATION

United Kingdom, Newcastle upon Tyne

INFRASTRUCTURE

King Edward VII Bridge

SCOPE

Supervision, Testing, Installation

PRODUCTS:

Automated Structural Monitoring





Longest Stay Cable Bridge in South America Links Brazil and Paraguay

YEAR OF EXECUTION

2019-2022

INFRASTRUCTURE

Ponte da Integração

OWNER

DNIT (Departamento Nacional de

Infraestructura de Transportes)

SCOPE

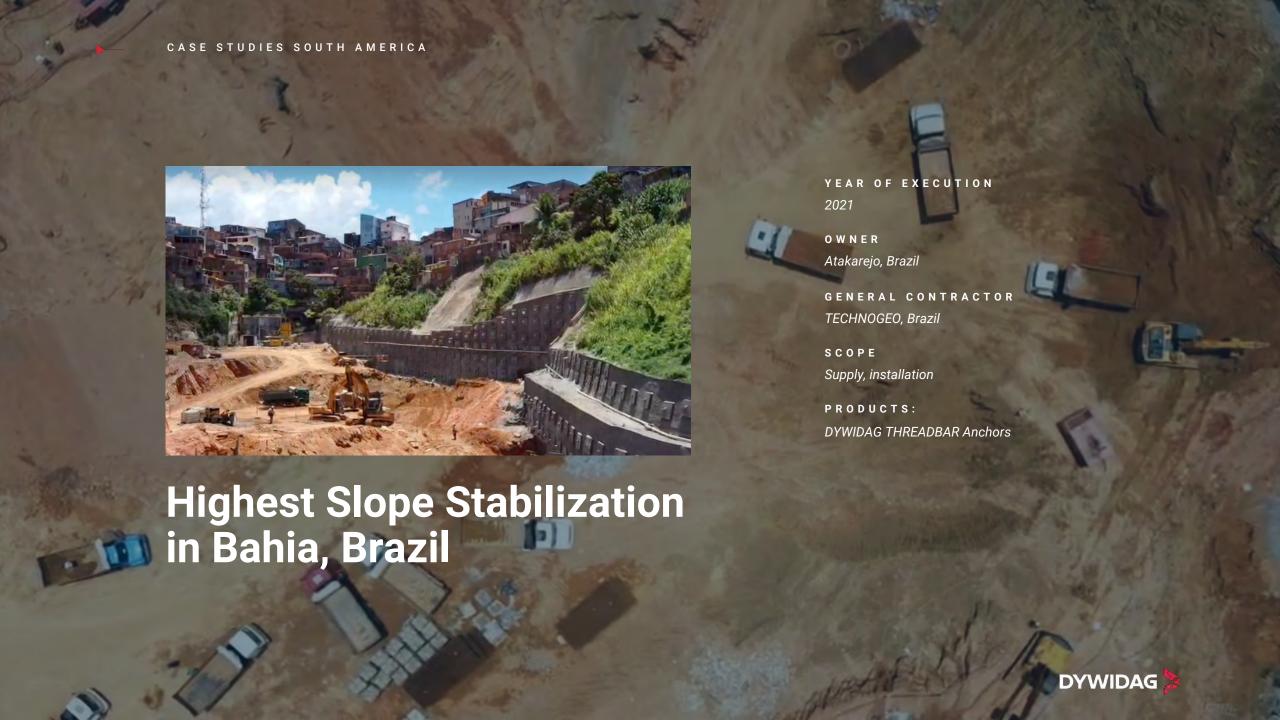
Supply, Installation

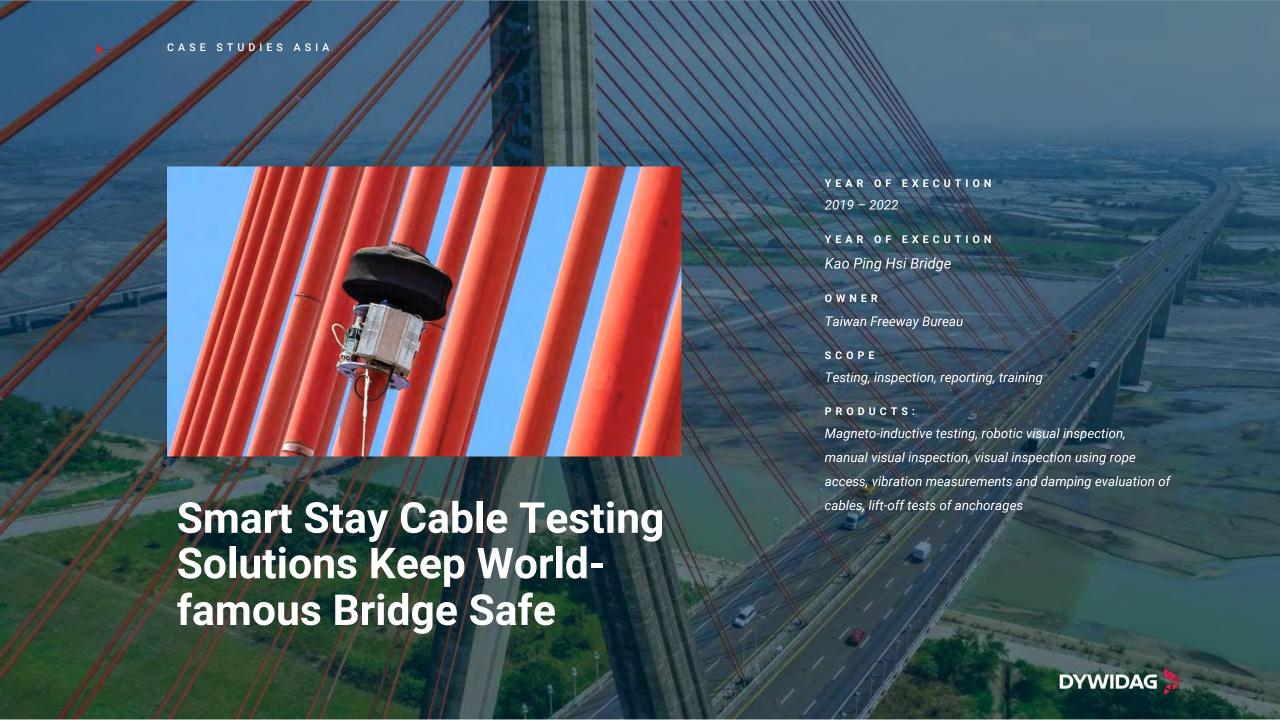
PRODUCTS:

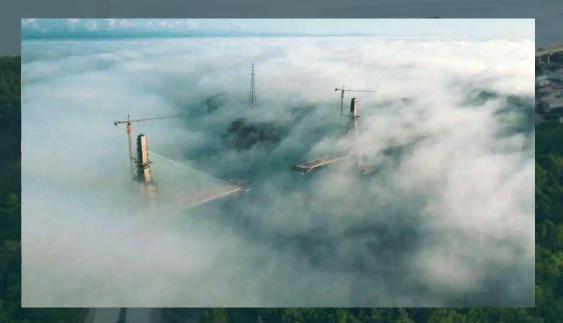
Stay Cable Strands, Dampers for Stay Cables,

Cable Installation and Equipment, Clevis

Anchorage, Dyna Grip Standard System







The Pulau Balang Bridge: Working in a Challenging Environment

YEAR OF EXECUTION

2019 - 2020

OWNER

Kementerian Pekerjaan Umum (Ministry of Public Works)

SCOPE

Supply, design, installation

PRODUCTS:

DYWIDAG Stay Cables



Dolmen Flyover Interchange Improves Safety and Traffic Flow YEAR OF EXECUTION

2021-2022

LOCATION

Netherlands

OWNER

Provincie Drente

GENERAL CONTRACTOR

TECHNOGEO, Brazil

SCOPE

Supply, installation

PRODUCTS:

Bonded post-tensioning system using strand, stressing of posttensioning systems, grouting of post-tensioning systems, installation and grouting tools supply





Ensuring Existing Bridges are Safe and Strong with DYWIDAG Tendons

YEAR OF EXECUTION

2022

LOCATION

Germany

OWNER

Autobahn GmbH des Bundes, Niederlassung

Westfalen

GENERAL CONTRACTOR

Karrie Bauwerkserhaltung GmbH

SCOPE

Supply, Installation

PRODUCTS

External unbonded post-tensioning system using DYWIDAG threadbars

DYWIDAG



A New Generation of Smart Stay Cables for Guadiana Bridge YEAR OF EXECUTION

2018-2021

OWNER

IP (Infraestruturas de Portugal) and GOBIERNO DE ESPAÑA - Ministerio de Transportes,

Movilidad y Agenda Urbana

SCOPE

Inspection, Supply, Installation, Monitoring

PRODUCTS:

Magneto-inductive sensors, DYWIDAG Stay

Cable

DYWIDAG

