

ENGINEERING THE FUTURE OF ENERGY





**We improve access to
sustainable energy for
communities worldwide.**

Penspen is a leading global energy consultancy company. Our teams design, maintain, and optimise energy infrastructure to improve access to sustainable energy for communities worldwide. We help to meet the world's evolving energy needs by providing best-in-class consulting, project management, and engineering solutions across the entire energy project lifecycle.

OPERATING ACROSS



Oil & Gas



Low-Carbon Energy

FULL-SERVICE SOLUTIONS

Engineering | Project Management | Asset Management

Asset Integrity | Digital Solutions | Knowledge & Training

CROSS-SECTOR EXPERTISE



Energy Transition



Ageing Assets



Digital Transformation



FOUNDED IN

1954



12+

GLOBAL
OFFICES



70 YEARS IN
THE INDUSTRY

GLOBAL
PROJECTS
DELIVERED



15,000+

1,100



GLOBAL
EMPLOYEES

100+

COUNTRIES
WORKED IN



A SIDARA MEMBER

Penspen is a proud member of Sidara, a global collaborative of leading specialist firms that design for people and the planet.

Our 19,000 visionaries, thinkers, and innovators from over 300 offices across 60 countries offer clients a broad range of highly specialised services—from architecture and design, engineering, and project management to digital strategy, sustainability consulting, and energy innovation—all under one umbrella.



THE HOME FOR HUMAN ENDEAVOUR

Our global network of specialists elevates how people live, inspires global impact, and makes room for cultures to shine.

DESIGNING FOR A SUSTAINABLE FUTURE

Together, we help decarbonise the most challenging sectors in the built environment.

ADVANCING THE HUMAN EXPERIENCE

Our projects inspire, advance, change and touch the daily lives of people all over the world.

MAKING AN IMPACT WHERE IT MATTERS

We create an impactful future for all through livability, sustainability and digital innovation.



ENERGY TRANSITION

Penspen has been at the forefront of the energy transition over the past 60 years, delivering more than 10,000 projects in over 100 countries.

By helping countries access lower carbon fuels and by extending the useful life of existing energy infrastructure, the company helps bring cleaner energy to millions of people in thousands of communities across the Middle East, Africa, Asia, Europe, the UK, and the US.

HYDROGEN & CO2 CAPABILITIES TO REACH NET ZERO

Building New Infrastructure | Repurposing Infrastructure

Maintaining Infrastructure | Operations | Waste to Energy



HYDROGEN PRODUCTION PLANT, UNITED KINGDOM

Developing the first large scale low carbon production hub in the UK.

Penspen worked alongside strategic subcontractor Dalcour Maclaren to provide complete engineering and consenting expertise for the natural gas pipeline and related infrastructure, providing a key fuel element required for the 1GW low carbon hydrogen production hub. The scope of work included multi-discipline Front-end Engineering Design (FEED), consenting, land, environment, and stakeholder engagement services.

PROJECT HIGHLIGHT



HYDROGEN BLENDING FACILITY, PORTUGAL

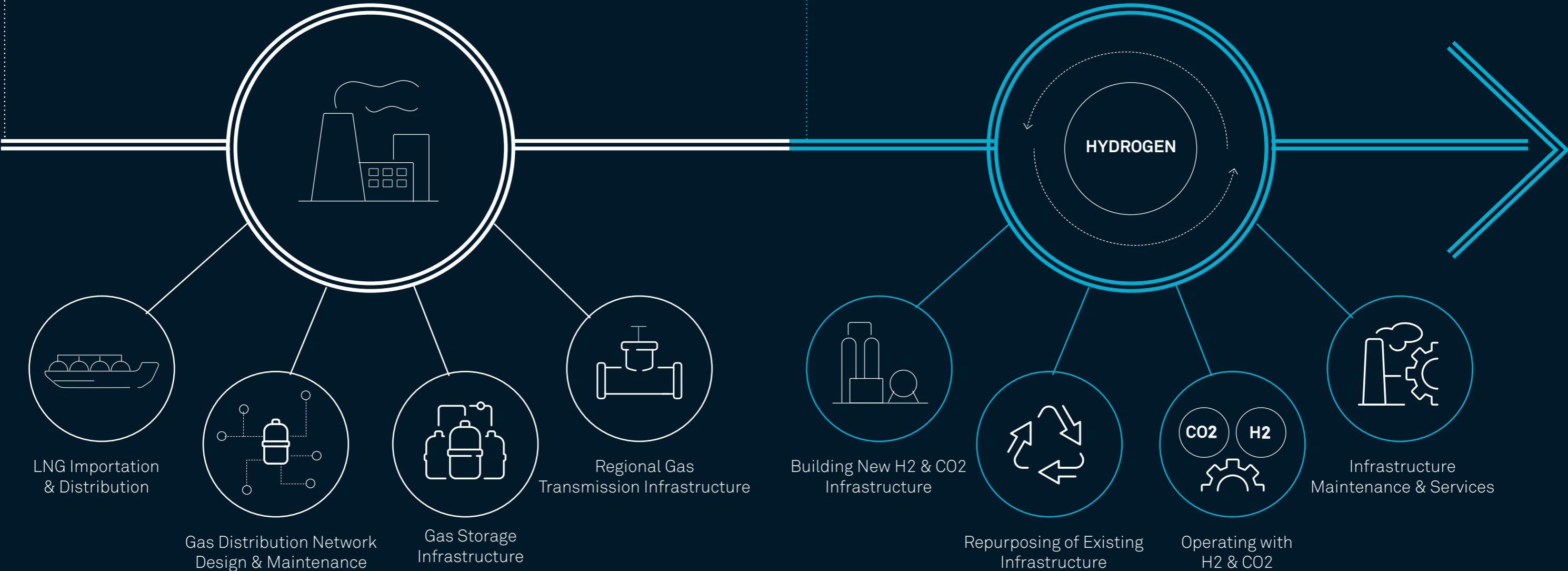
Advancing the energy transition for a carbon-neutral energy network in Portugal.

Penspen provided blending facility design and assessment for a national gas transmission systems to determine distribution of hydrogen, helping the country to meet the goal of climate neutrality by 2045. The scope of work included concept for the future H2 blending stations with compatibility, and assessment of how the pipeline and infrastructure is responding as different proportions of hydrogen - with safety in focus.

PROJECT HIGHLIGHT

COAL >> NATURAL GAS POWER STATIONS

NATURAL GAS >> CLEANER ENERGY SOURCES



DIGITALISATION

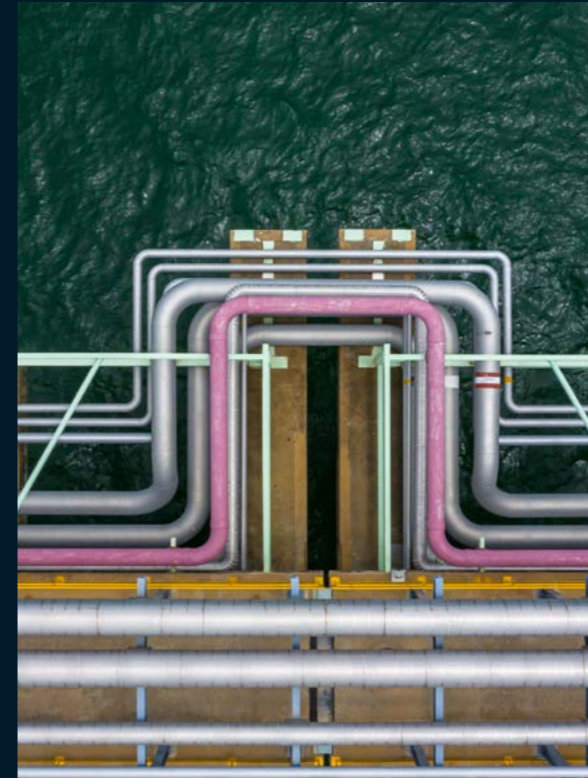
The digitalisation of the energy industry offers the progression and innovation required to reduce uncertainty, help minimise unforeseen failures, and provide operators with maximised pipeline performance.

THEIA, Penspen's Pipeline Integrity Management Tool, was developed as part of our ongoing commitment to digital transformation. THEIA provides energy, oil and gas, and power operators with the critical pipeline integrity insights required to optimise the performance of assets.

DATA CAPABILITIES FOR MAXIMUM PERFORMANCE

Improved Decision-making | Increased Pipeline Uptime

Reduced Inspection Frequency | Decreased OPEX



OFFSHORE TO ONSHORE PIPELINE, MIDDLE EAST

Efficient execution of integrity assessments for a crude oil pipeline in the Middle East.

Penspen leveraged technical expertise combined with the THEIA tool to provide quick and efficient processing of vast amounts of data, fast-tracking project completion. The scope of work included complete feature matching, corrosion rate calculations, and conduction of deterministic future integrity calculations based on ASME B31G/ DNV-F101 and Kastner method.



NATIONAL PIPELINE SYSTEM, LATIN AMERICA

Supporting the return to service of a decommissioned pipeline in Latin America.

Penspen utilised THEIA to process information records efficiently and easily for the client to refer to. The condition of the pipeline was analysed efficiently due to the statistics on the In-Line Inspection data provided. Mapping visualisations from the THEIA modules supported the client in the decision-making process related to the maintenance actions - ensuring the pipeline could re-operate safely once again.

SMART

Analyse pipeline data to quickly detect anomalies within your network

POWERFUL

Capture and analyse all of your pipeline data, current and historical

SECURE

Comply with industry standards to ensure data security without compromise

AGEING ASSETS

Many assets in the oil and gas industry are nearing the end of their originally intended design life. Asset life extension has become an increasingly attractive option to avoid decommissioning assets, which is a costly and logistically complicated process.

However, life extension needs to be effectively managed with several key factors to consider such as current and future risk, decommissioning, and hazard management. It is not always about the age of the asset, it's about the condition, and the impact over time.

LIFE EXTENSION CAPABILITIES TO MANAGE RISK

Integrity Assessment | Risk Assessment | Pipeline Data Management

Auditing | Corrosions, Materials & Welding | Geohazards | Inspection

Decommissioning | Repair & Rehabilitation | Regulatory Compliance



GAS PIPELINE OPERATOR, MIDDLE EAST

Successful delivery of multiple life extension studies for an onshore gas operator in the Middle East.

Penspen conducted integrity services for the regional assets to establish the future status of the pipelines, supporting the client with technical knowledge on current and future integrity combined with recommendations for pipeline life extension. The scope of work included Risk-Based Inspection (RBI) Studies, Qualitative Risk Assessments, and Fitness for Service Assessments.

PROJECT HIGHLIGHT

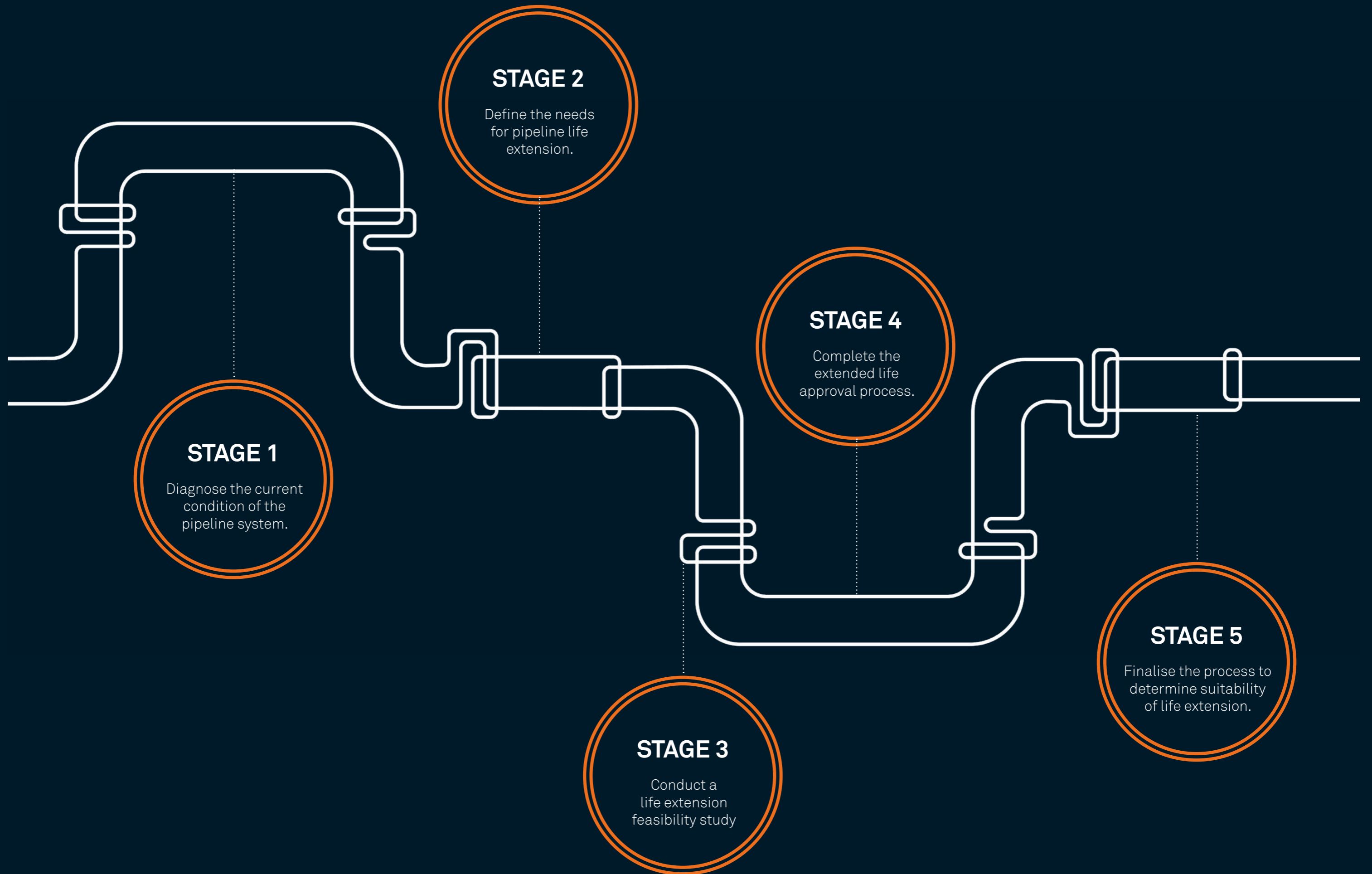


NATIONAL PIPELINE SYSTEM, EUROPE

Mitigating risk to safely operate the pipeline system beyond its extended design life for a national energy company in Europe.

Penspen performed lifetime extension assessment for a pipeline approaching the end of its intended design life. The scope of work included recommendations for extended operation, review of pipeline system design codes and standards, risk-based inspection methodology (PIRBI) including assessment of remnant life for time-dependent hazards.

PROJECT HIGHLIGHT





ENGINEERING & PROJECT MANAGEMENT

Engineering and project management solutions are indispensable in the energy industry, providing a structured and efficient approach to the complex process of planning, executing, and completing projects.

For the past 70 years, our solutions have streamlined the development of oil and gas infrastructure, from exploration and drilling to production and distribution. By employing industry-leading engineering and project management methodologies, we help our clients optimise resource allocation, monitor project progress, and mitigate risks effectively.

Moreover, we facilitate collaboration among multi-disciplinary teams, ensuring seamless communication and coordination throughout the entire project lifecycle.

PROJECT CAPABILITIES FOR COMMERCIAL SUCCESS

Onshore Engineering | Offshore Engineering | Customised Solutions

PMC & PMS Services | Subsea Production Design | Pre-FEED & FEED

Facilities Design | Provision of Project Teams | Advice & Supervision

ASSET INTEGRITY

Asset integrity solutions play a pivotal role in the energy industry, ensuring the reliability, safety, and optimal performance of critical assets.

Our experienced integrity teams employ advanced technologies and methodologies to monitor, assess, and maintain the integrity of assets throughout their lifecycle. By preventing equipment failures, leaks, and unplanned downtime, we help our clients enhance operational efficiency, reduce operational risks, and safeguard both personnel and the environment.

Moreover, we contribute to regulatory compliance and support sustainable practices, fostering a resilient and responsible approach to energy production.

INTEGRITY CAPABILITIES FOR CRITICAL ASSETS

Risk-Based Inspection | Corrosion Management | Asset Life Extension

Pipeline Data Management | AIMS | Audit | Integrity Assessment

Decommissioning | Emergency Response | Flexible Pipe Integrity



ASSET MANAGEMENT

Asset management solutions are instrumental for the safe maintenance of energy assets, offering a strategic approach to maximise the lifespan and performance of these critical assets.

Our technical teams provide solutions that involve systematic planning, tracking, and optimisation of maintenance activities. By ensuring that equipment and facilities operate at peak efficiency, we help our clients minimise downtime, and enhance reliability, safety, and cost-effectiveness.

Moreover, we contribute to prolonged asset lifespans, improved operational efficiency, and the ability to adapt to changing industry dynamics, fostering sustainable and resilient operations.

MAINTENANCE CAPABILITIES FOR ASSET EXCELLENCE

Onshore | Offshore | Operations & Maintenance | Transportation

Production | Storage | Metering Capabilities | Administrative Service

Operational Readiness | Technical Services | Technical Workforces



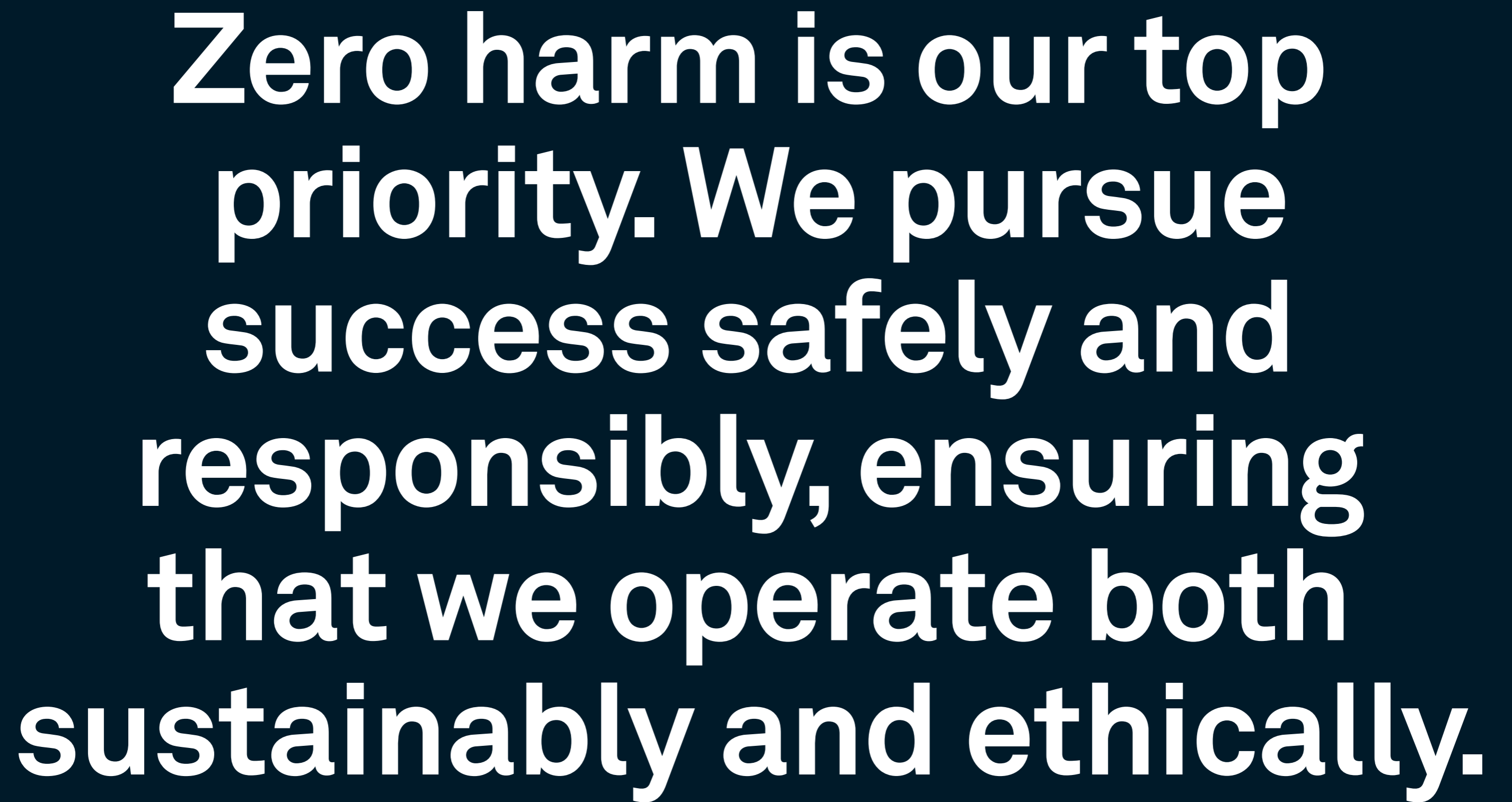
As global leaders in engineering, asset management and integrity training, as well as distance learning, our courses are recognised by the foremost industry organisations for continuing professional development.



We deliver training courses worldwide in onshore and offshore engineering, asset management and asset integrity. We have trained over 5,000 people and have delivered public and private training courses worldwide.



Our trainers are highly knowledgeable, with extensive university lecturing experience, and many years of experience in the pipeline industry. Courses can be custom-designed, or selected from a series of standard courses.



Zero harm is our top priority. We pursue success safely and responsibly, ensuring that we operate both sustainably and ethically.





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