

The background is a dynamic, abstract composition of blue liquid. It features thick, glossy, curved bands that swirl and flow across the frame, creating a sense of movement and depth. The lighting highlights the reflective surfaces of the liquid, with bright highlights and deep shadows that emphasize its three-dimensional quality. The overall color palette is a range of blues, from light sky blue to deep, dark navy blue.

idrostudi



Idrostudi Company profile

Watercare engineering

Eng. Luca Falcomer



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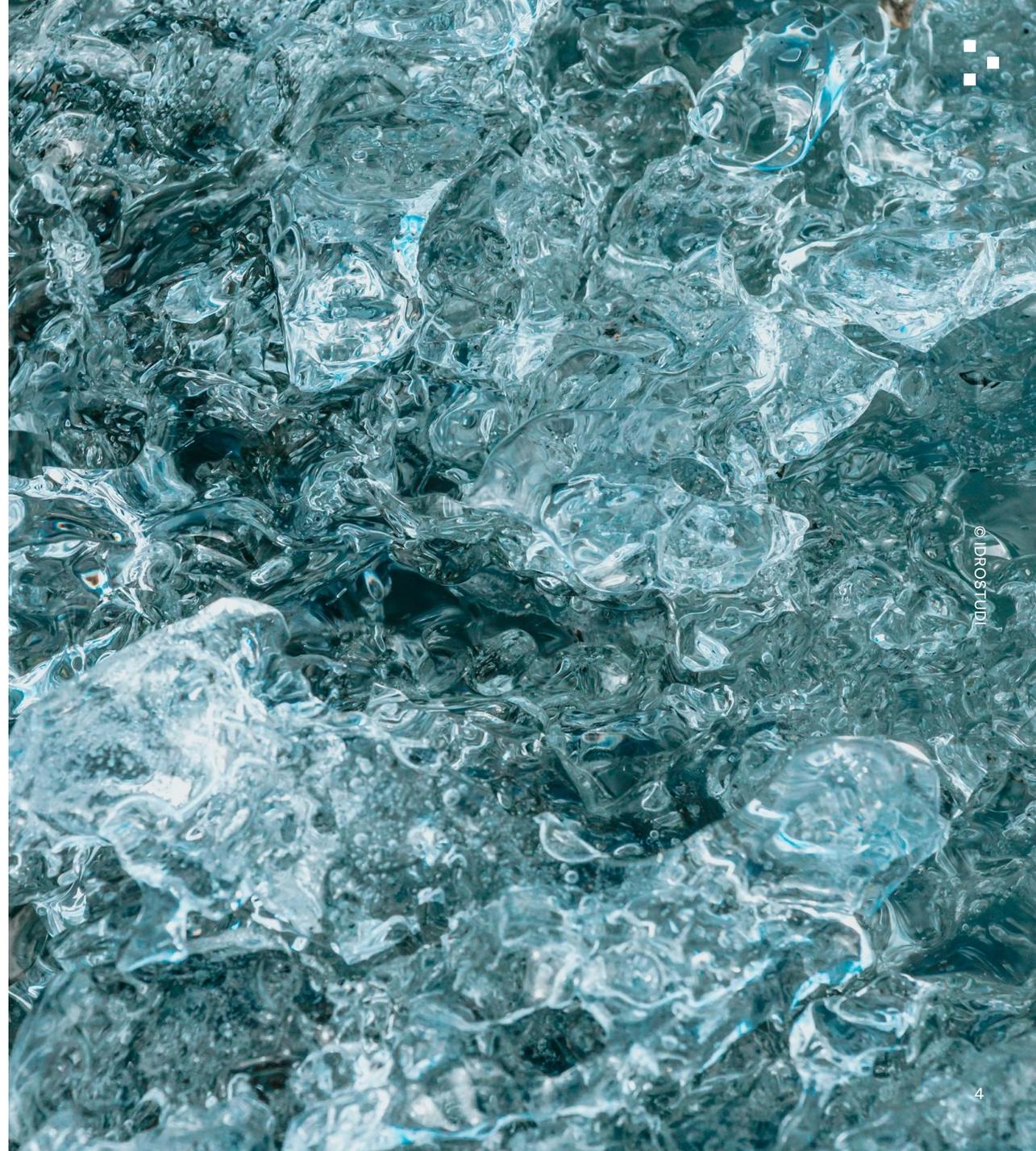
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Engineering solutions for water and environment

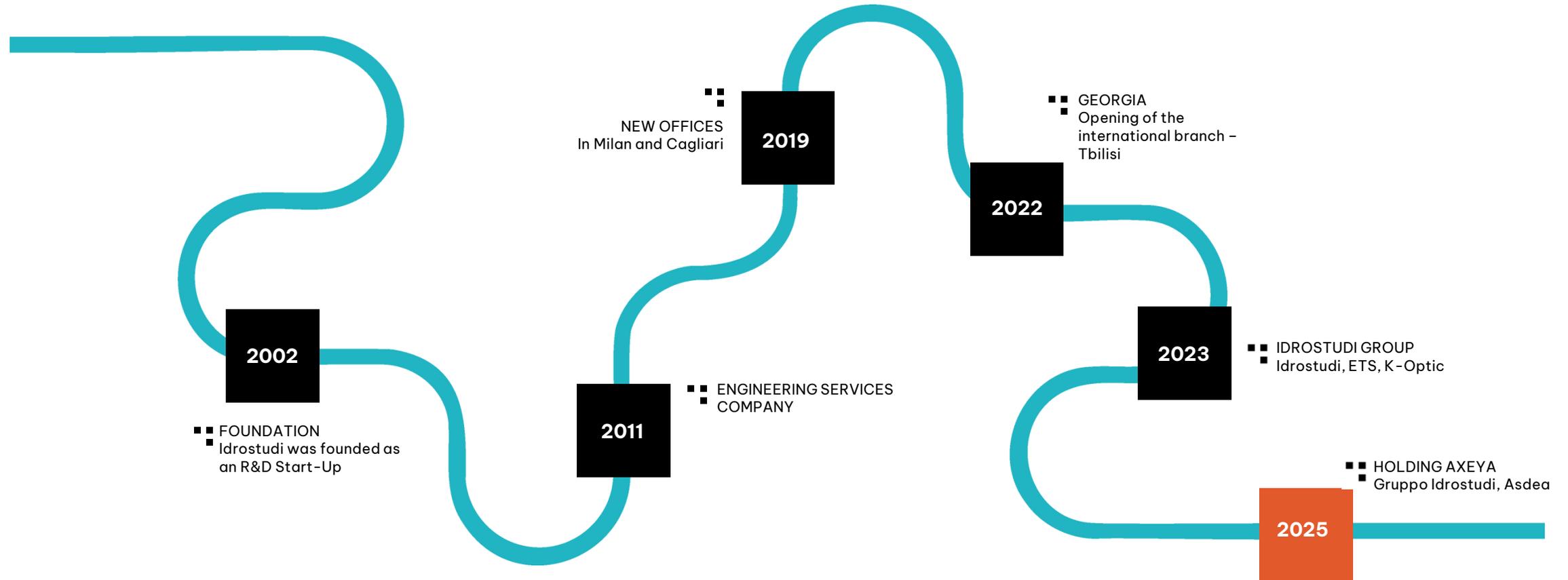
WHO WE ARE

Idrostudi S.r.l. is an independent European consulting and engineering firm, founded in 2002 and based in Italy (Trieste HQ, Milan, Cagliari) and Georgia (Tbilisi). Driven by innovation and a forward-thinking vision, Idrostudi develops cutting-edge solutions for complex hydraulic and environmental engineering challenges. The Company supports public institutions, utilities, water authorities and private companies – often exploring uncharted approaches to sustainability.

**Where global know-how meets innovation.
Idrostudi at the heart of Trieste's Area
Science Park**



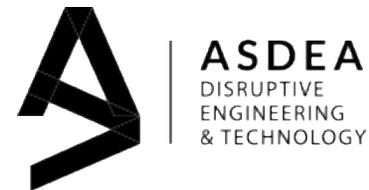
The Idrostudi Journey



We Are Part of a Cutting-Edge Engineering Hub

THE HOLDING

idrostudi



K-optic



Innovation, sustainability, expertise

**“We turn data and knowledge
into sustainable water
management strategies”**

MISSION

We design and deliver innovative, sustainable solutions that advance responsible water management and strengthen resilience to climate change – through collaboration with industry leaders, research institutions, and strategic partners.



VISION

We envision a world where people and the environment live in harmony – a world where access to water and its preservation are ensured through responsible use and long-term quality protection. We bring this vision to life through innovative, sustainable, and purpose-driven engineering design strategies.

KEY VALUES

We believe that lasting impact is built on trust, respect, and shared purpose. Our culture values collaboration, continuous learning, and responsibility – to people, communities, and the environment.



We design facilities towards the objectives of the Global Agenda

OUR SDG COMMITMENT

Through innovative hydraulic and environmental engineering, we develop data-driven solutions that enhance water resource management, improve system resilience, and reduce environmental impact. By integrating technology, research, and field experience, Idrostudi helps public institutions and private operators transform sustainability goals into measurable results.

Building a resilient future through water innovation.

SUSTAINABLE DEVELOPMENT GOALS



**SDG 6
CLEAN WATER AND SANITATION**
Ensure availability and sustainable management of water and sanitation for all.



**SDG 7
AFFORDABLE AND CLEAN ENERGY**
Ensure access to affordable, reliable, sustainable, and modern energy for all.



**SDG 11
SUSTAINABLE CITIES AND COMMUNITIES**
Make cities and human settlements inclusive, safe, resilient, and sustainable



**SDG 12
RESPONSIBLE CONSUMPTION AND PRODUCTION**
Ensure sustainable consumption and production patterns.



**SDG 13
CLIMATE ACTION**
TAKE urgent action to combat climate change and its impacts.

People: at the heart of what we do

OUR PEOPLE

Since the beginning, we have focused on creating a united Team where individual strengths and skills merge to reach ambitious results.

At Idrostudi, we turn shared expertise and talent into innovative solutions for hydraulic system protection and a sustainable water resource management.

**In engineering, you never stop learning
– that's why we constantly invest
in our people's growth.**

38
AVERAGE
AGE

53%
WOMAN
PERMANENT
STAFF

100+
TEAM

84%
GRADUATED

16%
CAD/ BIM / GIS
SPECIALIST /
OTHER

76%
ENGINEERS

21%
PhD-QUALIFIED
ENGINEERS

Idrostudi at a glance



50,000 KM
DIGITAL
TWIN

20,000 KM
QUANTIFIED
PARASITIC INFLOWS

500,000 M3
QUANTIFIED
WATER LOSSES

5,000
WATER SUPPLY AND
SEWERAGE DISTRICTS

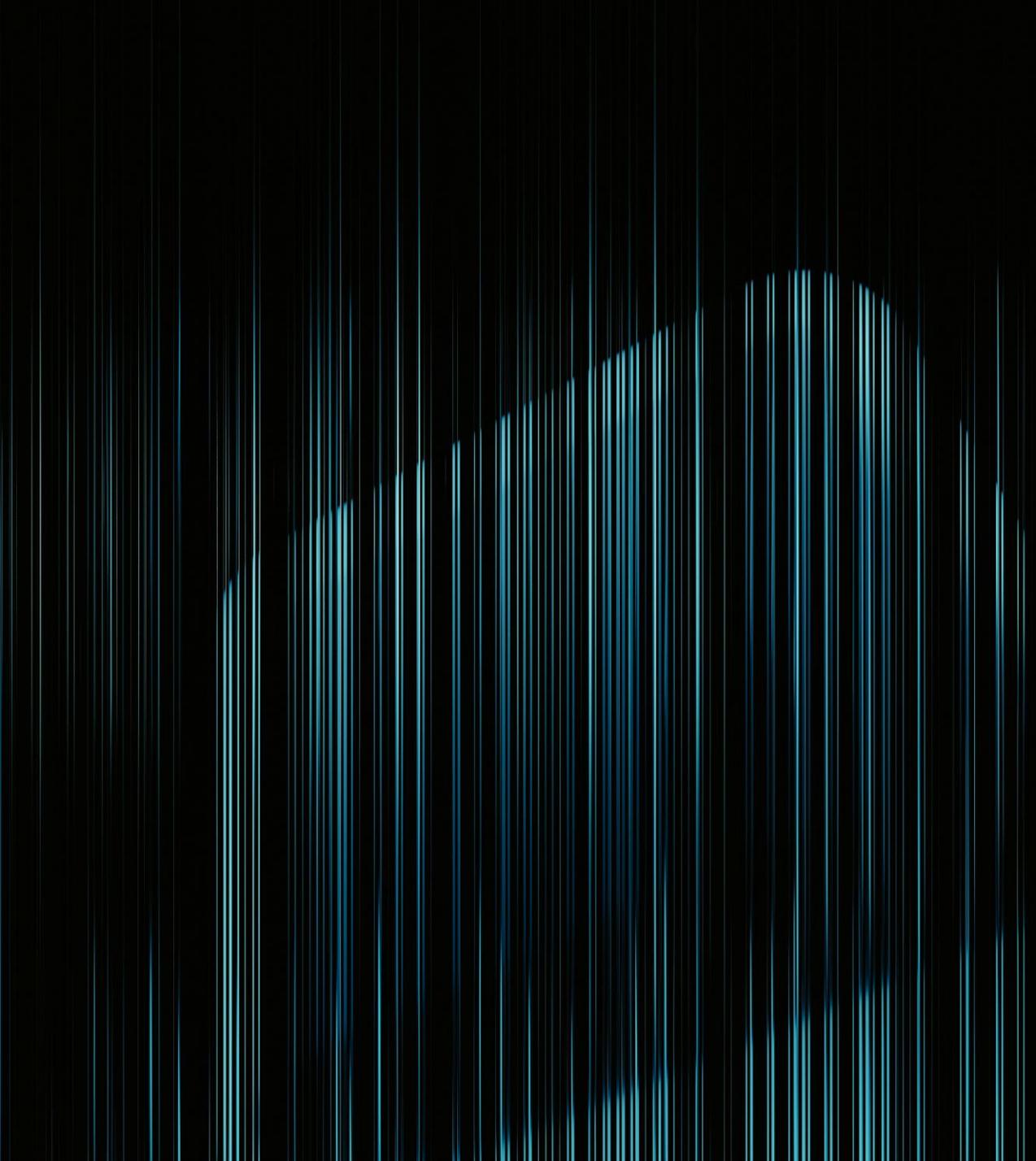
20 BILLIONS
ANALYZED DATA

1,700 KM
SEWER NETWORK SURVEYED

€ 300 B
BIM PROJECT
DEVELOPMENT

10,000
MONITORED
MEASUREMENT AREAS

14,000 KM
WATER SUPPLY AND SEWER
NETWORKS MODELLED



Our integrated engineering expertise

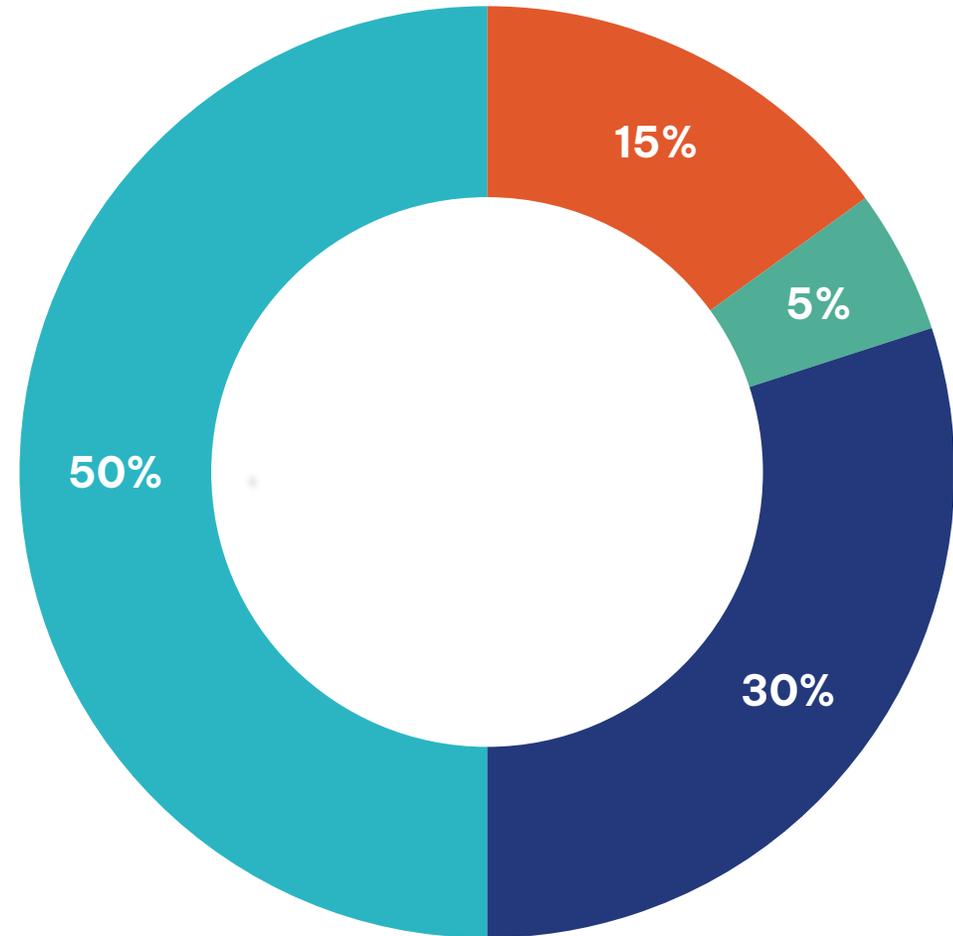
CORE COMPETENCIES

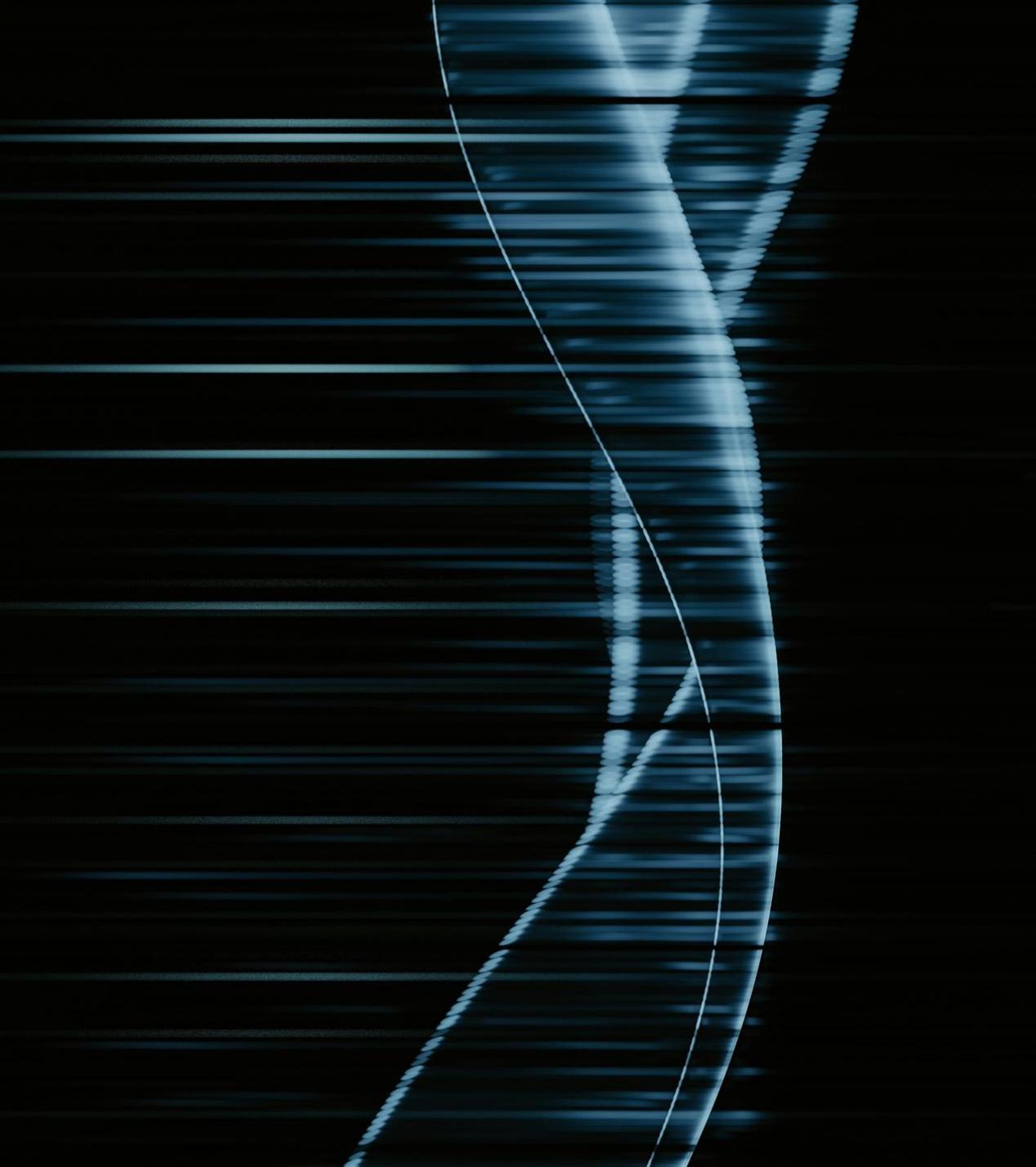
Integrated Urban Water Management
Integrated Water Resources Management
Water Supply and Sanitation
Disaster Risk Reduction & Management
Irrigation and Drainage Schemes
Coastal and Maritime Engineering
Civil-Environmental Engineering
Physical Modelling
Numerical Modelling
Water Network Monitoring
Data Analysis
BIM Design

Our integrated engineering expertise

CORE COMPETENCIES

-  R&D
-  PHYSICAL AND NUMERICAL MODELLING
-  CIVIL ENGINEERING
-  WATER SUPPLY AND SEWERAGE ANALYSIS & MONITORING





Water networks monitoring

WHAT WE DO

Idrostudi leads water utilities in the control and optimization of water supply and wastewater systems, using an integrated approach.

The combined method employs hydraulic and environmental engineering knowledge, sensors and data loggers production, field operations, the optical fiber use and software platforms implemented with machine learning algorithms.

Water networks monitoring

WE FOCUS ON

Monitoring

It is the most effective method of determining the real state of our wastewater and water supply networks, water treatment processes and hydraulic performance. It is the baseline of model calibration and validation for future model scenarios.

Device

Using the right device for measurement type is the key to obtaining the most accurate data, to be sent to various software platforms. The instrument must work for several months in a challenging environment with varying flow conditions.

Data analysis

We record qualitative and quantitative variables to analyse several data points by comparing and matching them with other ones, in order to validate each measurement. This is essential in order to use the monitoring data to achieve all future targets.

Optical fiber

By distributed temperature sensing, we can locate infiltration or exfiltration along a sewage network and identify unexpected flow, throughout time. The study of hydro leakage and the acoustic system allow anomalies to be located in real time.

Water networks management

WHAT WE DO

Efficient, resilient, and sustainable water networks are at the heart of modern infrastructure.

At IDROSTUDI, we offer integrated solutions for every aspect of water management – from urban and resource planning to supply systems and advanced digital modelling – ensuring performance, reliability, and long-term sustainability.

Water networks management

WE FOCUS ON

Integrated urban water management (IUWM)

We adopt a holistic approach to urban water systems, integrating advanced hydraulic engineering with IoT networks, AI, and real-time analytics through our proprietary iWG and iCG platforms.

Water supply and sanitation (WSS)

We support water authorities and utilities through network monitoring, data analytics, and hydraulic modelling, enhancing both Intermittent Water Supply (IWS) and continuous supply systems with scenario-based insights.

Integrated water resources management (IUWRM)

We support decision-makers with data-driven intelligence for water security and system resilience, balancing multi-sectoral demands and ecological sustainability through advanced analytics and predictive modelling.

Numerical Modeling & Digital Twins

The real-time digital replicas enable effective operational control and proactive asset management. We integrate 1D/2D/3D CFD modeling with SCADA systems and AI-driven analytics for adaptive network control and automated demand management.



Proprietary Platforms

iWG

iWG by Idrostudi supports engineers and water operators in managing water supply systems.

iWG is an integrated system that combines both modules dedicated to the monitoring of smart DMAs and specific Digital Twin modules with hydraulic modeling based on EPAnet and Infoworks WS Pro.

iCG

iCG by Idrostudi supports engineers and integrated water service operators in managing sewer networks.

iCG is an integrated system that includes innovative tools dedicated to smart sewer networks and supports problem identification and data- and model-based decision making.



Devices

Development of **proprietary devices** enabling bidirectional communication with digital platforms, to optimize system performance and maximize the value extracted from recorded data.

KAL TOM SERIES

Kaltom Aqd

Innovative flow meter for water network monitoring, featuring transit-time ultrasonic technology. Natively designed for the iWg platform, it integrates a processor for reliable measurements and advanced diagnostics.

Kaltom Sew

Ultrasonic doppler flow meter for monitoring sewer networks and free surface. Highly durable, it integrates measurements of velocity, level, noise, vibrations, and wastewater quality.

Devices

RHEVOS SERIES

Rhevos View

Advanced data logger with a large graphic display and integrated data transmission for real time monitoring. Scalable for acquiring multiple signals, integrate several sensors.

Rhevos Swm

Innovative multiparametric sensor for advanced monitoring and analysis of sewer networks, integrating velocity measurements on multiple fronts, as well as level, noise, vibration, and wastewater quality measurements.

Rhevos One

Battery-powered data logger for monitoring water and sewer networks. Scalable and configurable for acquiring multiple signals and field buses, it can integrate several sensors.

Rhevos Wfs

Accurate ultrasonic transit-time flow module for liquids, suitable for full pipes. Equipped with clamp-on sensors that are easy to install externally on the pipe without interrupting the process.



Disaster risk reduction & management

WHAT WE DO

We apply advanced scientific methods to strengthen resilience against natural hazards.

Through hydrological analysis, numerical simulations, and physical modelling, we assess risks, predict extreme events, and design effective mitigation strategies to protect communities and the environment.



Disaster risk reduction & management

WE FOCUS ON

Hydrology

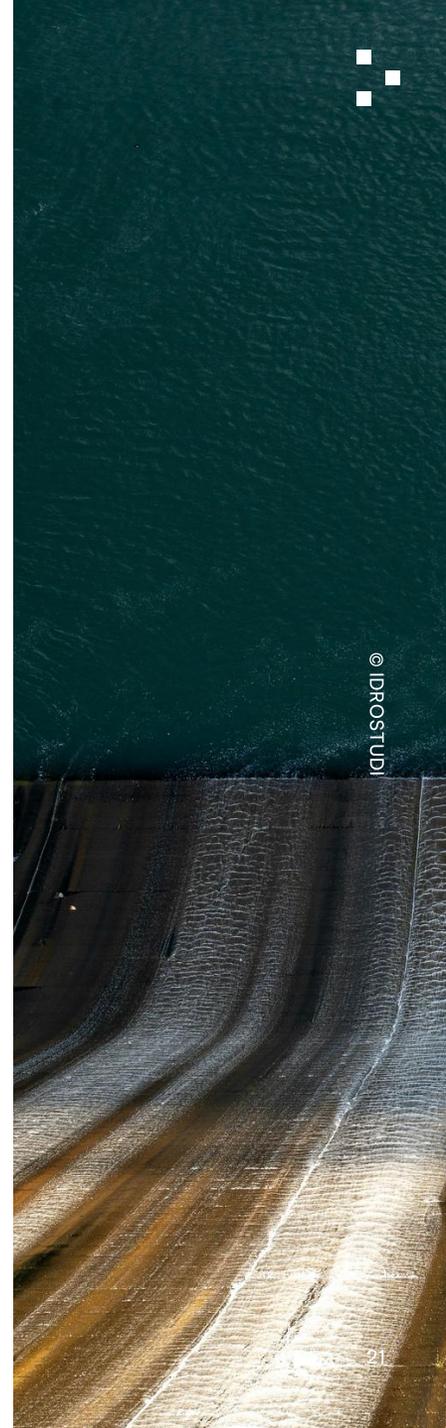
Our specialists develop predictive models to assess the climate resilience of existing and planned infrastructure, providing technical support for sustainable, safe water resources management.

Physical modelling

We implement reliable physical models to assess the morphological and morphodynamic evolution of rivers and coastlines, simulating natural processes of sediment transport and landscape transformation to scale.

Numerical modelling

Building on extensive experience, we develop advanced 1D and 2D numerical models to analyse river dynamics, support flood risk prevention, and design environmentally compatible infrastructures.





Civil- environmental engineering

WHAT WE DO

Idrostudi brings together multidisciplinary expertise in civil and environmental engineering to design and deliver sustainable infrastructure projects.

Through the integration of advanced BIM methodologies and meticulous work supervision, we ensure every phase - from concept to construction - meets the highest standards of efficiency, quality, and environmental responsibility.



Civil- environmental engineering

WE FOCUS ON

Design

We design innovative and sustainable hydraulic infrastructures for public and private clients, combining experience and advanced technologies to deliver tailored solutions for the most complex challenges.

BIM

The power of the 3D model enables us to simulate, analyse and optimise every stage of the project, from the initial design to operational management, thereby saving time, reducing costs and minimising risks.

Work supervision

Idrostudi provide integrated construction management and safety coordination for hydraulic projects in Italy and worldwide, combining technical excellence with global expertise to ensure efficiency, quality, and full regulatory compliance.





Research & Development

R&D

Partnering with the academic world and industry leaders, Idrostudi pushes forward research and innovation in its key areas of expertise.

With years of experience and numerous EU and nationally funded projects, the company has become a trusted name in hydraulic and environmental innovation.

**We turn ideas
into real-world impact**

Our research commitment is reflected in several publications in national and international journals, as well as presentations at major industry conferences.

The company has its headquarters within the Area Science Park in Trieste – a hub for cutting-edge research and development.



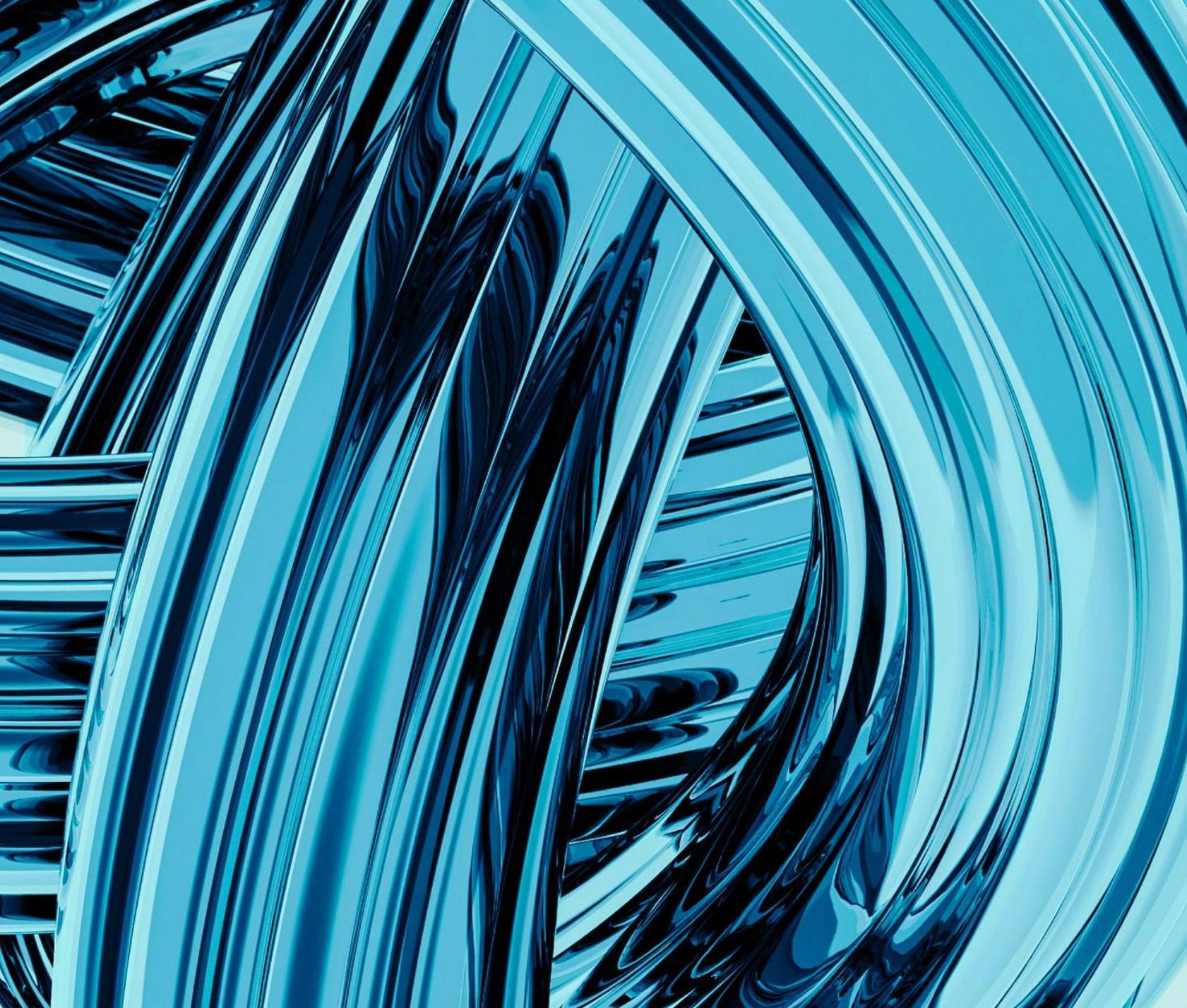
Quality you can measure, trust you can live

COMPLIANCE

Idrostudi operates under internationally recognized standards to ensure the highest levels of quality, safety, and environmental responsibility.

ISO 9001:2015	Quality Management System & Complies
ISO 14001:2015	Environment
ISO 45001:2018	Health & Safety
SA8000:2014	Social Responsibility
ISO 50001	Energy Management
ISO 37001	Anti-Bribery
ISO 27001	Information Security
UNI PdR 125:2022	Gender Equality
MOG231	Organization, Management and Control Model





idrostudi

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■ ■ **Thanks for
your attention.**