Royal HaskoningDHV
Enhancing Society Together

Consulting engineers dedicated to Enhancing Society Together

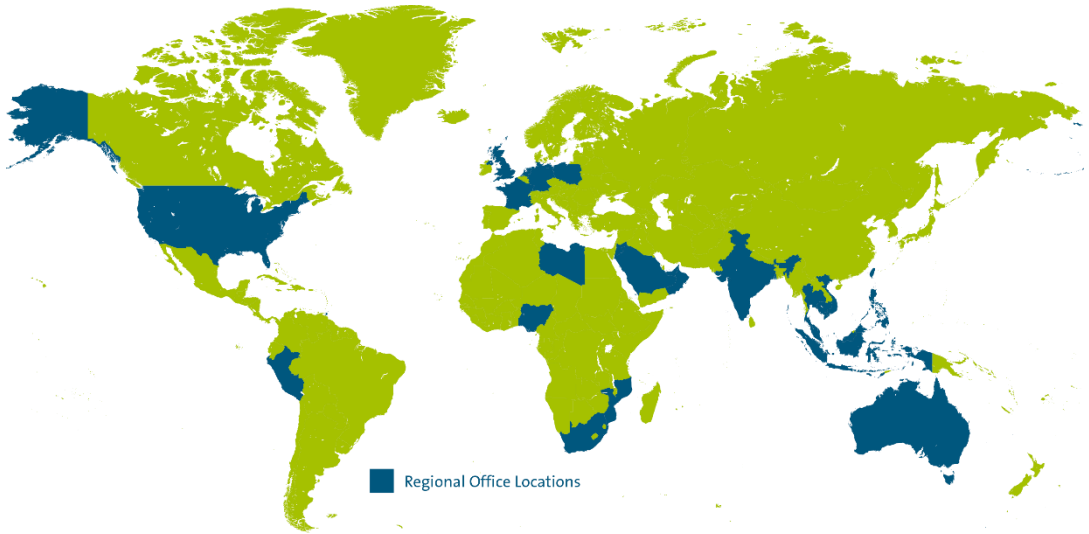
Company presentation
August 2024

WHO WE ARE

We are an **independent** international consulting engineering company leading the way in sustainable development and innovation since 1881.

We take responsibility for having a **positive impact** on the world and we constantly challenge ourselves and our clients to develop sustainable solutions to local and global issues.

By **combining** engineering, design and consultancy with software and technology, we are delivering more added value to our clients.
Enhancing Society Together!



6,400+
staff

working from some
60
offices around the world

on projects in
100+
countries

#37 in Engineering News-Record's
Top 225 International Design Firms

OUR EXECUTIVE COUNCIL

From left:	**Jasper de Wit**	CFO
	Erik Oostwegel	CCO
	Sabine Bink	Global Director Industry & Buildings
	Marije Hulshof	CEO
	Anton van der Sanden	Global Director Mobility & Infrastructure
	Jon Robinson	Global Director Water & Maritime
	David de Graaf	Global Director Digital

OUR GLOBAL LEADING MARKETS

We operate internationally across our nine Global Leading Markets for which we are globally recognised and hold leading positions.

The Netherlands is a strong home base where we are market leader.

OUR STRATEGY

OUR PURPOSE: ENHANCING SOCIETY TOGETHER

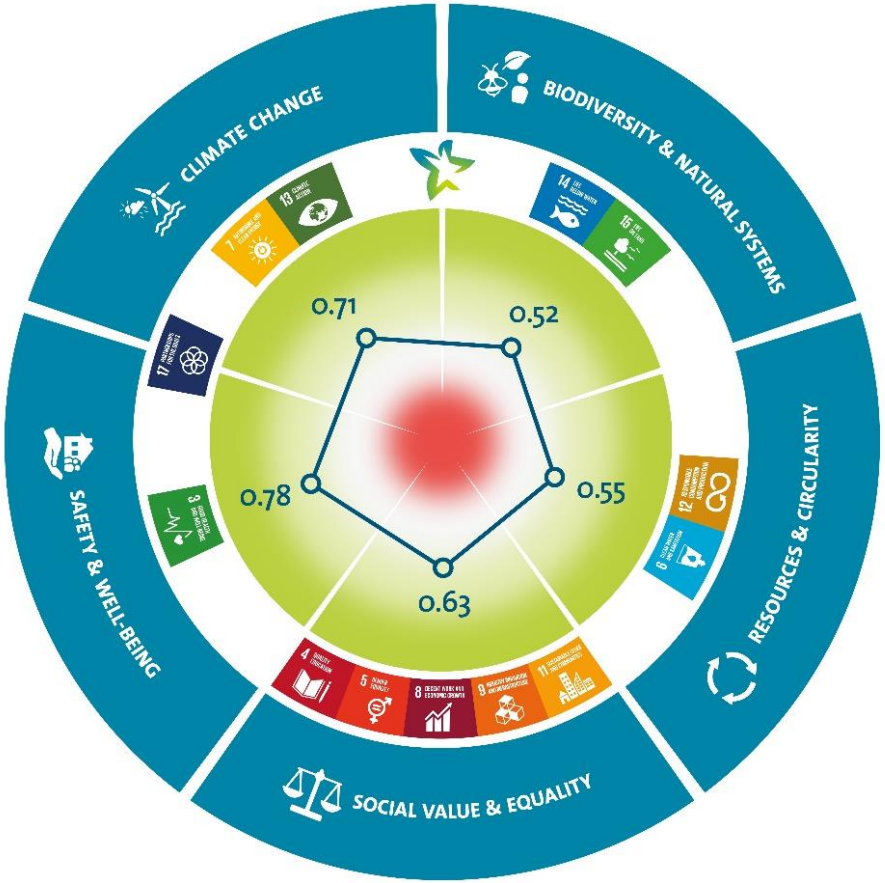
Explaining our purpose by Matthew Hunt, our Leading Professional Enhancing Society Together (3-minute video)

PURPOSE THEMES

Enhancing Society Together

- **Climate change**
- **Biodiversity & Natural systems**
- **Resources & Circularity**
- **Social value & Equality**
- **Safety & Well-being**

Here we can have the ***biggest positive impact*** in delivering benefits for society and the environment in projects for our clients and in our own operations, whilst contributing to related UN Sustainable Development Goals, the SDGs.

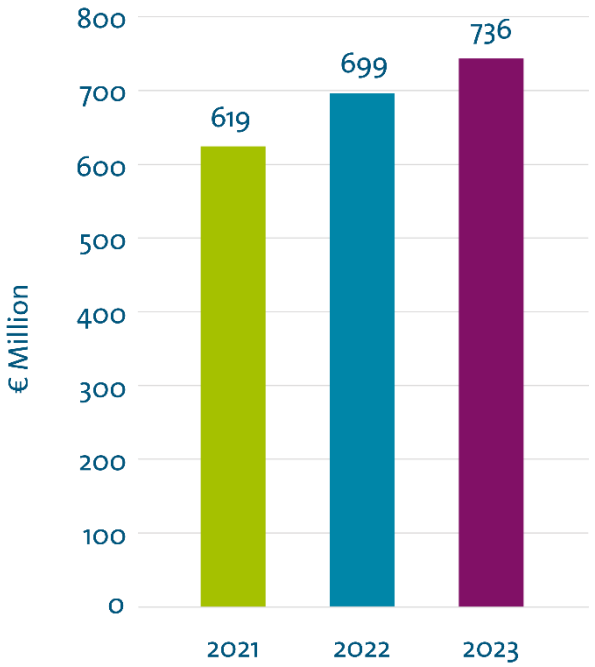


PURPOSE MATRIX

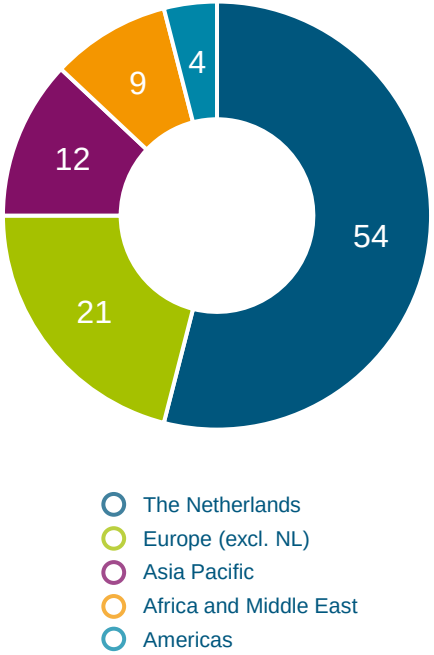
- To easily ***categorise*** whether a proposal, project, product or service will have a negative, neutral, positive or very positive impact against each theme.
- To ***inform*** our project and client vetting.
- To ***challenge*** ourselves and our clients: Where are the opportunities to deliver an even more positive contribution to society?

FINANCIAL KEY FIGURES

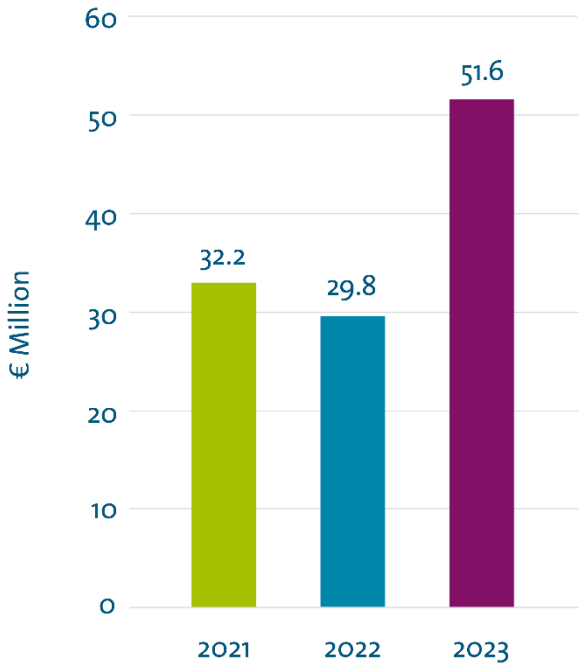
Net turnover



2023 Net turnover by region (%)



EBITA recurring



SOCIAL KEY FIGURES

Employees

Employee nationalities
2023: 89
2022: 95

Average age
2023: 42
2022: 42

Female employees
2023: 28%
2022: 26%

YOUNG professionals (<35 years)
2023: 33%
2022: 33%

Employees by region (headcount)

The Netherlands
3,611 (64%)

Africa & Middle East
386 (7%)

Asia Pacific
857 (15%)

Americas
61 (1%)

Europe (excl. NL)
760 (13%)

SOCIAL KEY FIGURES

Employee engagement

2023: 80%

2022: 82%

Average hours of training and development per person

2023: 45

2022: 49

Accidents and incident reports

2023: 170

2022: 95

Integrity cases & breaches

2023: 136 & 1

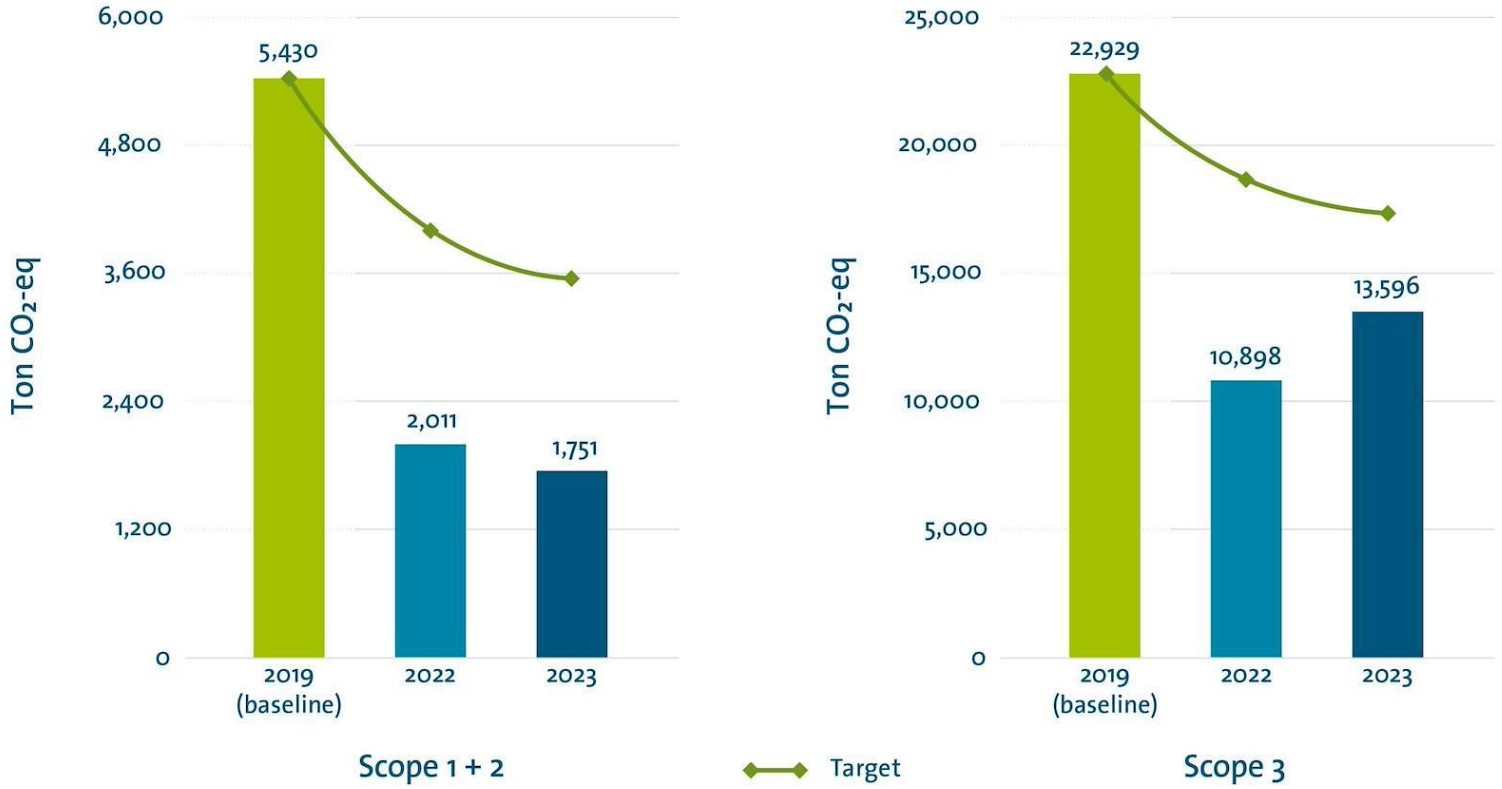
2022: 169 & 3

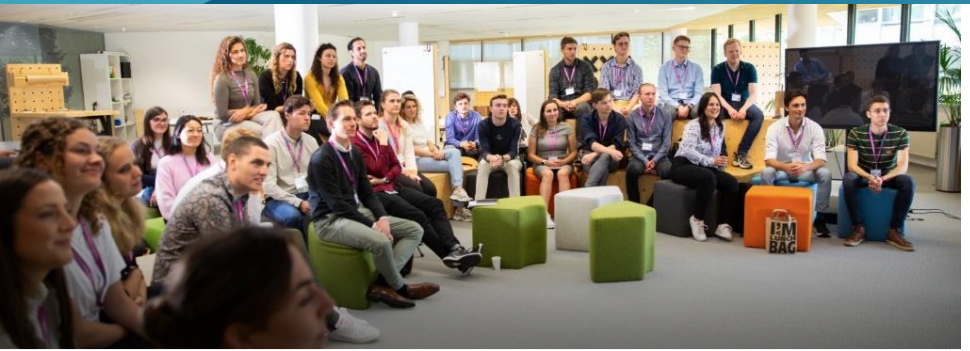
Number of employees that hold depositary receipts of shares

2023: 2,000

2022: 1,984

CO_2 KEY FIGURES





OUR VALUES

People first

We are a people company, independent and partly employee-owned. We care about our colleagues, clients and society.

Explore the (im)possible

We go the extra mile to solve our clients' most pressing challenges and enhance society. We act today while thinking about tomorrow.

Grow together

Our clients' success is our success. We invest in building trusted partnerships.

Lead by example

We act with integrity and in compliance with our Code of Conduct. We take responsibility for our own behavior, provide feedback and hold each other accountable.

OUR CERTIFICATES

37001: Anti-Bribery

37301: Compliance

19650: Information management using building information modelling

Corporate Social Responsibility

9001, 14001 and 45001: Quality | Environmental | Occupational Health and Safety

14064: Greenhouse gas emissions verification

27001: Information Security

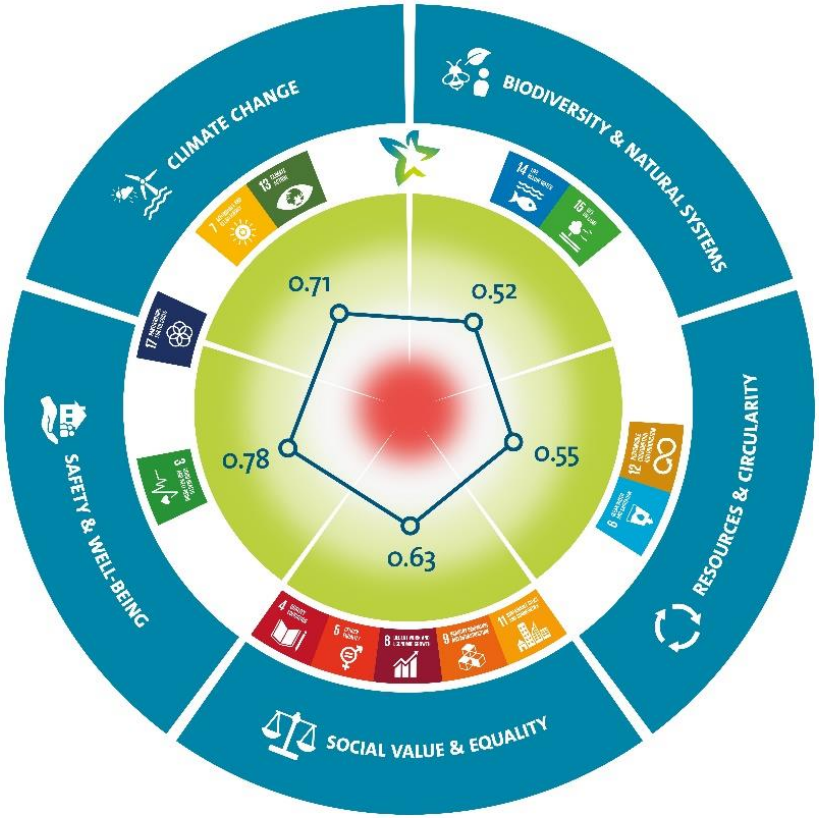
Approved net-zero targets

AWARDS SELECTION

Together with Dutch Water Authority WBL we won the **WEX Award** for the **digital twin** that allows WBL to respond to leakage events in minutes, provides actionable insights on pump behaviour and water volume discrepancies, and makes operations more efficient.

Our Northey Island habitat creation project (UK) was the overall winner of the **BIG Biodiversity Challenge Award** for its lasting impact on biodiversity and habitat protection.

Our wastewater specialist Kerusha Lutchmiah (3rd from the right) won the **Public Vote** of the **Dutch Prince Friso Award** for the engineer who distinguishes themselves in the areas of innovation, entrepreneurship, personality, and societal impact.



MAKING A POSITIVE IMPACT

Project examples

This chart shows the areas where we believe we can make the ***biggest difference in delivering benefits for people and planet***.

We assess our impact as follows:
-1 for negative, 0 for neutral, +1 for positive and +2 for very positive.

Going forward we aim to grow the pentagon further into the green.

Global Leading Market
Aviation & Intermodal Transport

BRINGING A WORLD-CLASS TRANSPORT HUB TO POLAND

Challenge

- Designing a multimodal transport hub that will serve 44 million passengers per year in the first phase;
- Delivering greater connectivity.

Centralny Port Komunikacyjny (CPK) is a multi-billion infrastructure programme that will form a new gateway to Poland, integrating air, rail, and road transportation in one multimodal transport hub, with the vision to accommodate 100 million air travel passengers annually in its future end-state.

Impact

- Improved layout and passenger flow;
- Efficient delivery within time and budget constraints;
- Seamless, fast, and interoperable travel and connectivity between Poland and the CEE region and the rest of Europe;
- Economic development of the region.

Image: Foster + Partners

Global Leading Market
Climate Resilience

BUILDING CLIMATE RESILIENCE FOR SINGAPORE'S SOUTHEAST COAST

Challenge

- Rising sea levels threaten the low-lying island of Singapore;
- Increasingly heavy rainfall overwhelms the drainage system and leads to flash floods;
- Understanding flood risk as the basis for investment planning.

Together with CPG, we are developing a climate adaptation plan for Singapore's National Water Agency PUB. The plan includes climate adaptation measures and adaptive pathways for integrated coastal protection and drainage improvement solutions.

Impact

- Keeping people, assets and critical infrastructure safe from flooding;
- Coastal protection by combining engineering solutions with operational strategies and modelling of future projections.

Global Leading Market
Climate Resilience

ANGLIAN WATER USES CUTTING-EDGE FLOOD RISK DATA TO BOOST CLIMATE RESILIENCE

Challenge

- Identifying assets most at risk of flooding to inform planning.
- Screen all 7,000 of Anglian Water's above-ground assets – and conduct detailed site assessments at those most at risk of flooding.
- Find a partner to support its planning for the 2024 Price Review (PR24), which sets out investment strategy for the years 2025 to 2030, when investments will be made based on the data.

Anglian Water used Twinn FloodScore Climate data to screen assets and identify those at highest risk. A Royal HaskoningDHV team then conducted site visits at 25 high-risk sites.

Impact

- Anglian Water has enhanced its understanding of flood risk across its infrastructure, feeding this into its business plan. It has also achieved a significant reduction in its flood insurance premiums.

Global Leading Market
Data Centres

AN EXEMPLARY DATA CENTRE, POLAND

Challenge

- Design, construct, and complete a data centre in a post-industrial area with tight deadlines, emphasising positive community relations.
- Set a benchmark for future European data centre expansions, demanding careful planning to meet the requirements.

We designed the new data centre in Warsaw featuring an 8MW IT load capacity for the initial phase. Supervising the construction, we ensured state-of-the-art infrastructure and built the data centre with a focus on sustainability and community impact.

Impact

- Reference design for future expansions for data centre facilities throughout Europe
- Build on post-industrial land
- Positive impact on the community by landscaping a children's playground in the neighbourhood

Global Leading Market
Maritime

GAME-CHANGING PLAN FOR ALBANIA'S LARGEST SEAPORT

Challenge

- The existing Port of Dürres combines tourism with industrial functions and is located inside the city;
- The port is not well-connected to the cargo transport network with the rest of the Balkan states.

With local partner Abkons we have developed a plan that sees the industrial functions of the Port of Durrës move to Porto Romano, nine kilometres north. The new seaport will use the latest in green ports and automation technologies and will be interconnected with the rail network as well as road infrastructure.

Impact

- The consolidation of industrial activity will help establish a world-class cargo facility, bringing employment opportunities and improved trade throughout the region;
- The preserved coastline will also benefit residents and increase tourism activities.

Global Leading Market
Renewable Energy & Decarbonisation of Industry

OPTIMISING PRODUCTION OF OFFSHORE WIND TURBINES

Challenge

- Optimising, integrating, and expanding production to realise growth in number, size, and power.

The integrated team, through new ways of thinking, introduced a strategic combination of welding technologies, efficient logistics, and increased automation. This significantly improved the speed, quality, safety, and efficiency of the production process.

Impact

- Doubled productivity and throughput (in tonnage)
- 10% reduction in steel usage achieved through using parametric design tools
- 30% reduction in nitrogen emissions accomplished by electrifying operational processes

Global Leading Market
Renewable Energy & Decarbonisation of Industry

STRATEGY TO REALISE NET ZERO INDUSTRIES DRIVEN BY GREEN HYDROGEN IN THE NETHERLANDS

Challenge

- How to realise a carbon-free Dutch industry?
- Not all regions are fit for large-scale H2 production sites.

We are contributing to the Hydrohub Innovation Programme by helping identify where large-scale H2 production sites could fit in order to drive progress in the design and development of economically viable green hydrogen facilities.

Impact

- Display of how hydrogen production can be scaled up to GW capacity – key for the development of the renewable hydrogen market;
- Ultimately contributing to the transition to a sustainable, carbon-free Dutch industry.

Global Leading Market
Sustainable Mobility

SUPPORTING THE TRANSITION TO ELECTRIC BUSES IN DELHI, INDIA

Challenge

- Introducing 1,800 electric buses to the existing fleet of Delhi Transport Corporation (DTC) under a new form of operating contract;
- Simultaneous transition from operating bus services into a management role with concessions to the private sector.

ITP, a Royal HaskoningDHV company, is working alongside the World Bank to support DTC in its transition to electric buses under a new operating model. ITP assessed DTC's institutional and functional form and investigated how that would need to be reformed.

Impact

- Practical, pragmatic, implementable strategic action plan;
- Over 300 electric buses have been procured and operationalised.

Global Leading Market
Tunnels & Structures

EASING CONGESTION AND POLLUTION IN ANTWERP, BELGIUM

Challenge

- High congestion in the Antwerp metropolitan area;
- Poor air quality and high nitrogen dioxide related mortality;
- The city is a highly urbanised area with few green spaces and soft soils.

The Oosterweel project will turn Antwerp into a green and better-connected city. We are designing and engineering the new 1.8km immersed Scheldetunnel and underground (cut and cover) traffic intersections.

Impact

- Healthier city with underground infrastructure, making space for parks and green space;
- Improved urban social cohesion because the city is no longer cut in two by a highway;
- Less traffic disruption and safer roads.

Image: Oosterweelverbinding

Global Leading Market
Water Technology

IMPROVING WASTEWATER TREATMENT FOR BLACKBURN, UK

Challenge

- The effluent needed improving to protect local bathing and shellfish water;
- The existing wastewater asset had come to the end of its life.

We delivered our Nereda technology to help United Utilities to meet stringent effluent quality requirements and replace a life-expired plant. The new Blackburn installation can treat the wastewater of more than 300,000 population equivalent (PE).

Impact

- Improved wastewater treatment with excellent effluent quality;
- Significant energy savings and no/minimal use of chemicals.

Global Leading Market
Water technology

USING DIGITAL TWINS TO SUPPORT NUCLEAR WASTE CLEAN-UP IN WASHINGTON, USA

Challenge

- Determining the fastest, most cost-effective and environmentally safe way to manage the complex clean-up processes of radioactive waste dating back to World War II
- The site sits along the Columbia River, and the project must be managed in a way protective of the environment
- The site clean-up is expected to take another 30-40 years, with costs adding up to millions of dollars per day

We are supporting Washington River Protection Solutions (WRPS) in this mission by providing digital twin technology, supported by cloud computing and AI, to help speed up data analysis allowing for quicker decision-making

Impact

- Time of scenario analysis drastically reduced (20 - 25 days down to 2 - 4 days)
- Millions of dollars invested more efficiently through evidence-based decision-making, supporting faster clean-up

Visit our website for more information:
royalhaskoningdhv.com

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