Wave of progress: The Netherlands ambition to a climate adaptive future

Singapore International Water Week 18-21 June 2024



Netherlands

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### Foreword



Just like the future of the Netherlands, Singapore's future is inevitably connected with water. Challenges like pollution, scarcity, and floods require global teamwork but need local solutions. Sharing knowledge, fostering innovation, and implementing sustainable water management is what the Dutch participation in the Singapore International Water Week (SIWW) is all about. Only together can we ensure water security for all. It is therefore a great pleasure to welcome you all at the SIWW!

SIWW 2024 hosts global leaders from industry, government and research, to discuss and co-create, innovate water, coastal and flood solutions. The Singapore government has made sea-level rise adaptation a vital agenda to Singapore's existence. SIWW's inaugural Coastal Resilience Expo [at Level 1 of MBSCC] focuses on coastal protection and flood resilience. This is an outstanding opportunity for the Dutch water sector to highlight its collaborative and integrated experience on coastal and urban resilience to not only Singapore but also a wider region of Southeast Asia (ASEAN), Asia-Pacific, Middle East and beyond. Aside from showcasing, SIWW is also about connecting and learning from others. A prime example to learn from is the Singapore water story, an impressive strategy that has allowed the young nation to successfully fulfill the future water demand.

The Netherlands Embassy in Singapore is proud to host – in close co-operation with the Netherlands Enterprise Agency (RVO-Partners for Water) – a Netherlands Pavilion. In this Pavilion high quality and sustainable Dutch solutions in the field of water will be showcased next to a trade mission with expertise in coastal, flood resilience and water tech. And of course, we are honored to have the Netherlands Water Envoy, Meike van Ginneken, contributing and representing the Netherlands International Water Ambition. I expect that the Embassy's promotional activities of thematic forums, workshops and

networking reception will offer you all ample opportunities for knowledge sharing between Singapore, ASEAN and Dutch stakeholders. In this way the Dutch delegations will enjoy much positive exposure, engaging discussions and building meaningful connections during this visit.

Wishing you all a successful Water Week in Singapore !

Anneke Adema Netherlands Ambassador to Singapore

### Introduction



Climate change is a global challenge that requires all of us to take responsibility, and now is a crucial moment for action. Achieving the Paris Agreement and the Sustainable Development Goals by 2030 hinges on proactive efforts, with water being the driving force of climate adaptation. The Netherlands International Water Ambition (NIWA) is committed to advancing the SDG agenda, placing climate adaptation at the forefront of its mission. Our strategy is built on strengthening local capacity through partnerships, adopting an integrated approach to water safety and water security and through promoting the Netherlands as a Center of Excellence.

Through the exchange of knowledge and experiences among governments, collaborative research, and the implementation of effective climate adaptation measures, we can create a more watersecure and livable world. Your involvement, whether you represent a knowledge institute, the private sector, or an NGO, is crucial in developing innovative and sustainable policies and instruments. Additionally, the support of international financial institutions is vital for the successful implementation of concrete projects, and it is beneficial to engage them from the beginning.

The Singapore International Water Week presents numerous opportunities to showcase Dutch water expertise, collaborate, and enhance our effectiveness. We are eager to learn from Singapore's "City in Nature" initiative, particularly its strategies for addressing heat stress and extreme rainfall, to inform our policy development and implementation in the Netherlands. Your role is pivotal in this cooperative learning process.

I look forward to meeting you in Singapore and wish you great success!

Meike van Ginneken Water Envoy for the Kingdom of the Netherlands

### The Netherlands

### Introducing the Netherlands

#### How do the Dutch make a difference?

Through their interactive approach to finding innovative solutions to the big challenges facing the world today. The Dutch way of thinking and working has been shaped by centuries of living in the low-lying delta of the Netherlands. Through the ages, the Dutch have joined forces to find ingenious ways to tackle challenges like water, urbanisation, energy, food, health and security. By being inventive, pragmatic and open to new challenges, the Dutch have created a flourishing and resilient land. The Netherlands is a constantly evolving ecosystem of cities, industry, agriculture and nature, all integrated through smart infrastructure. It is a source of knowledge and experience that the Dutch are keen to share with others. Learning from the past to create a better future. Together, seeking sustainable solutions for the most liveable world



The Marker Wadden is a large project aimed at restoring nature in the Markermeer. By constructing natural islands using sand, clay, and silt from the Markermeer (recycling), new nature is being developed, both underwater and above.

### The Netherlands





#### Locations

- 1. Amsterdam (and Airport Schiphol) |
- 2. Arnhem | 3. Assen | 4. Breda |
- 5. 's Hertogenbosch | 6. Eindhoven |
- 7. Enschede | 8. Groningen | 9. Haarlem |
- 10. The Hague | 11. Leeuwarden |
- 12. Lelystad | 13. Maastricht |
- 14. Middelburg | 15. Rotterdam |
- 16. Utrecht | 17. Zwolle |

### **Facts & Figures**

Official name: Kingdom of the Netherlands

Capital: Amsterdam

Seat of government: The Hague

Form of government: Parliamentary democracy (cabinet of Prime Minister and Ministers) within a constitutional monarchy

Head of State: His Majesty King Willem-Alexander, King of the Netherlands, Prince of Orange-Nassau

Location: Western Europe, bordering Germany, Belgium and the North Sea Administrative structure: The kingdom consists of four entities. The Netherlands and three territories in the Caribbean: Aruba and Curaçao and St. Maarten

Special municipalities: The overseas islands of Bonaire, Saba and St. Eustatius, all three of which are situated in the Caribbean

Surface area:

41,545 km<sup>2</sup>

Number of inhabitants (2022): **17,564,623** 

Monetary Unit:

Languages: Dutch, Frisian and on the overseas islands also English and Papiaments

GDP per capita (World Bank, 2021):

58,061 US dollars

Number of provinces:

12

Number of inhabitants per km2 (2022):

423

Unemployment rate (CBS, 2022):

3.3%

English speaking Dutch people:

90%

### Taking action for a water-secure future

Water is essential to life on earth. It connects and sustains us. Covering 70 percent of the globe, it defines our blue planet. Water helps generate our energy, drive our agriculture and industries, and safeguard our health and sanitation systems. Access to clean and safe water for all is a major Sustainable Development Goal (SDG 6) and essential for the achievement of practically all other SDGs. These include the SDGs on Climate action (SDG 13), Sustainable cities and communities (SDG 11), and Responsible consumption and production (SDG 12). Clean water is also a key factor in protecting ecosystems and biodiversity - covered by SDG 14 Life below water and SDG 15 Life on land. That's why the Netherlands is committed to valuing water as a precious and finite resource.

Mitigating the impact of climate change Today, people around the world face unprecedented challenges in dealing with climate change and all that brings with it.

According to the UN Environmental Programme, 90 percent of today's natural disasters are water related. We're increasingly being confronted with issues related to higher temperatures, rising sea levels, ocean acidification and extreme weather events such as flooding and long periods of drought. And yet, water is also the key to finding solutions to all of these challenges.

Although water is everywhere, only 2.5 percent is fresh water. Seventy percent of this freshwater is locked in

glaciers. The remaining 30 percent is groundwater (99 percent) or surface water (just 1 percent) readily available in lakes, rivers and wetlands. Half the world's population depends on groundwater for its water supply — however it requires considerable effort to obtain, and increasingly, to process it.

This shows how vulnerable the balance is between using this resource sustainably and conserving it for future generations.

It also underlines the importance of integrated water and resource management and innovative delta and water technology



Room for the river

#### Water for resilient cities and deltas

By 2050, 70 percent of people on the planet will live in cities. As early as 2025, at least half the global population will face water scarcity. This poses a great challenge for countries worldwide to meet increasing demands on nutrition, housing, health and sanitation.

With three quarters of global resources already consumed by urban activities, economic growth could lead to further depletion and pollution of fresh water. To counteract the effects of industrialisation and urbanisation, we have to address problems posed, for example, by stagnant water.

Most (mega)cities are also located in river deltas and coastal areas. This makes them vulnerable to the effects of climate change. That is why in its New Urban Agenda, the UN sets out a global standard for sustainable urban development.

#### The Netherlands can help. How?

From a worldwide perspective, the Netherlands could be considered as a large city. A densely populated, deltaic country, the Netherlands is vulnerable to water challenges. We have continuously adapted to counteract the threat of too much water. The Netherlands describes itself as the world's safest delta, despite 29 percent of the country being below sea level. We believe in sharing our skills and expertise, as all countries face similar challenges, but deal with those challenges in different ways. In short, we can learn from each other.

The solution lies in creating a comprehensive and integrated strategy for climate adaptation, drought mitigation and flood protection focusing on the following areas:

a. Nature-based solutions (NbS) – including building with nature (BwN) and Room for the River principles

b. Spatial planning and design – including multipurpose and flexible infrastructure

c. Smart use of water and climate data – using water and delta technology

#### Watertechnology

The Netherlands has various innovative technologies for sustainable solutions in water management, for example using data analysis. Advanced technology can help us reduce the use of energy and chemicals, making the water treatment process cheaper and cleaner.

Enabling technologies for wastewater treatment, resource recovery and clean drinking water can save water, minerals and energy. They can also reduce greenhouse gas emissions. However, there are also areas where the Netherlands stands to learn from others. For instance in the many regions, which rely on water purification and desalination systems for their water supply.



### **Company Profiles**





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#### Aquatech Global

Aquatech is the world's leading platform on technology & solutions to drive a sustainable water future. A global online community with news, views and analysis for professionals in watertech and water management including trade shows in Amsterdam, China & Mexico.

Aquatech Amsterdam, our flagship show, is the world's leading trade exhibition for process, drinking and wastewater. The exhibition is a unique concept with a 100% focus on water, with a visitor attendance of 20,000+ and over 800+ exhibitors every other year.

Aquatech China is organised to international standards by our offices in Amsterdam and in Shanghai, with a perfect blend of global insights and regional expertise. The Aquatech China Concierge Service offers comprehensive assistance to international exhibitors, covering all aspects essential exhibition preparations to personalized assistance.

Aquatech Mexico offers a prominent platform for companies within the water technology industry from around the globe, wanting to explore business opportunities in Mexico.

#### **Aquatech Global**

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#### **B&C Ultrafiltratie**

For over two decades B&C Ultrafiltration has developed membrane technology to treat the most complex and hazardous industrial wastewaters: oil-in-water emulsions from the metalworking industry.

Using inhouse developed ultrafiltration and MBR technology, we can recycle 99% of this wastewater in clean water and highcaloric oil.

The company has successfully implemented the technology in the Netherlands and China and is currently seeking further expansion in Asia.

The technology enables the wastewater treatment plant to work fully automated on a 24/7 basis and generates high-caloric oil which can be reused as industrial fuel.

We are looking for partners that are already active in industrial wastewater treatment in Asia:

- Industrial wastewater collectors
- Industrial Estates
- Large wastewater generators (like automotive plants)
- Metalworking fluid suppliers

#### **B&C Ultrafiltratie BV**

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#### **Bosman Watermanagement**

Introducing Bosman Watermanagement, your partner in pump solutions for flood control, irrigation applications, and wastewater treatment solutions since 1929. As a family-owned business, we take pride in crafting pumping equipment, aeration- and filtration systems that are built to last and designed for your needs.

We're not just about products but about finding answers to your challenges. When you work with us, you get a team of problem solvers dedicated to making your water management and wastewater management efficient and effective.

With Bosman Watermanagement, you're investing in more than just equipment. You're investing in decades of experience, innovation, and a commitment to helping you overcome hurdles. Let us be the solution that transforms your obstacles into clear, manageable solutions.

## Deltares



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#### Deltares

We are Deltares. A not-for-profit, world-leading, and missiondriven Dutch knowledge institute for water and the subsurface. We work throughout the world and we are guided by the major societal issues, for which Deltares' knowledge is indispensable. For us collaboration is key, which is why we work closely with knowledge institutes, local governments and the industry. Our goal is to bridge the gap between fundamental research and application.

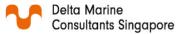
Our "dare-to-share" philosophy ensures that our knowledge is accessible through open-source data and software products.

In Singapore, our partnership with the National University of Singapore (NUS) under the name NUSDeltares supports government agencies in developing and maintaining operational water management systems. Additionally, we provide expert advice on climate adaptation and adaptive planning related to coastal protection.

Deltares is committed to seeking new opportunities for collaboration, all with the goal of creating a climate-resilient future for everyone.

#### Deltares

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#### Delta Marine Consultants Singapore

Delta Marine Consultants Singapore is an international consultancy firm specialised in the field of coastal and waterfront infrastructure with a proven track record worldwide. Our team brings together worldwide expertise, knowledge and experience in coastal and structural consultancy services. This enables us to support our client in coping with climate change, upgrade or expand their facilities or by developing resilient solutions.

#### Van Oord

Van Oord is a leading international marine contractor with a focus on dredging, infrastructure and offshore energy. With over 155 years of experience, we strive to enhance the energy transition and to deliver climate adaptation and marine infrastructure solutions. Marine ingenuity is a characteristic of Van Oord. By using innovative, smart and sustainable solutions, we aim to contribute to a better world for future generations.



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#### Company name

Flohr Beheer advises and invests in companies in the water technology sector. We provide strategic and tactical advice at board level, we organise financing from family funds, venture capital and private equity funds. If required, we step in as interim management. Our customers are mainly SME's, and range from start-ups to mature companies. In case of an exceptional fit, we invest ourselves.

Ed Flohr, owner/director of Flohr Beheer, has extensive experience managing international high-tech and clean-tech companies, as well as working with the Netherlands Foreign Investment Agency and various Netherlands regional development agencies.



#### Fugro

Fugro is the world's leading Geo-data specialist. With our unique map, model and monitor solutions, we provide project critical insights into the built and natural environment.

Fugro supports clients by delivering solutions in support of the energy transition, large-scale infrastructure development and climate change adaptation.



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### hollandwater



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#### Holland Water

Holland Water is a water tech company that develops and supplies smart and sustainable technological solutions to combat legionella, ensuring water installations are both safe and environmentally friendly. With over 1200 systems sold and installed across Europe, Africa, and the United Arab Emirates, their innovative systems are widely used in hospitals, care facilities, hotels, apartment buildings, luxury yachts, and are warmly welcomed by various governments worldwide.

Holland Water's mission is to keep water clean and sustainable, while not only reducing the waste of energy and water but also lowering your customers' operational costs.

#### Holland Water

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### **NX** filtration



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#### NX Filtration

NX Filtration is a leading provider of innovative hollow fiber nanofiltration membranes (HFNF) and membrane solutions for water treatment applications and for producing pure and affordable water to improve quality of life. Established with a vision to address the growing global water scarcity challenge,

The company's proprietary nanofiltration membranes are designed to efficiently remove contaminants, such as micropollutants (including pharmaceuticals, medicines, PFAS and insecticides), colour and selective salts, but also bacteria, viruses and nanoplastics, from water whilst offering strong sustainability benefits.

NX Filtration's membrane solutions are characterized by their superior performance, cost-effectiveness, and sustainability. They are engineered to deliver reliable and consistent results, enabling customers to achieve higher water quality standards while minimizing energy consumption and environmental impact.

With a team of experienced scientists, engineers, and water treatment specialists, NX Filtration is committed to driving innovation and advancing the state-of-the-art in membrane technology. The company collaborates closely with customers and partners worldwide to tailor solutions to their specific needs and challenges, ensuring optimal performance and efficiency.

Overall, NX Filtration is dedicated to delivering sustainable water treatment innovations that contribute to a safer, healthier, and more sustainable future for communities and industries around the globe.





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#### Rodelta Pumps international BV

Rodelta Pumps International provide Dutch bespoke energy saving and fish friendly pumps and engineering solutions. Rodelta is part of the Kirloskar Group with a subsidiary in Thailand and its worldwide international HQ in Amsterdam The Netherlands.

Rodelta offer a broad range of water pump solutions designed in Holland like vertical turbine, split case, end suction axial submersible as well as a full range of Concrete Volute Pumps including axial and single vane designed products with a capacity up to 150000 m3/hour. Our pumps are used worldwide for flood control, drainage- irrigation, water and wastewater applications.

The ACVP has a space-saving design as the pump can be built less deep than conventional axial flow pumps (VS3) saving 30% of digging cost. The pumps have very low inspection and maintenance costs as all electric parts can be serviced above water. The pumps are highly energy efficient as they run at lower speed. The fish-friendly design assures a low environmental impact.

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#### **Royal Haskoning DHV**

Royal Haskoning DHV is an independent consultancy which integrates 140 years of engineering expertise with digital technologies and software solutions. As consulting engineers, we care deeply about our people, our clients and society at large. Through our mission Enhancing Society Together, we take responsibility for having a positive impact on the world. We constantly challenge ourselves and others to develop sustainable solutions to local and global issues related to the built environment and the industry.

Change is happening. And it's happening fast - from climate and digital transformation to customer demands and hybrid working. The speed and extent of these changes create complex challenges which cannot be addressed in isolation. New perspectives are needed to accommodate the broader societal and technological picture and meet the needs of our ever-changing world.

Backed by the expertise of over 6,000 colleagues working from offices in more than 20 countries across the world, we are helping organisations to turn these challenges into opportunities and make the transition to smart and sustainable operations. We do this by seamlessly integrating engineering and design knowledge, consulting skills, software and technology to deliver more added value for our clients and their asset lifecycle.

We act with integrity and transparency, holding ourselves to the highest standards of environmental and social governance. We are diverse and inclusive. We will not compromise the safety or well-being of our team or communities - no matter the circumstances.

We actively collaborate with clients from public and private sectors, partners and stakeholders in projects and initiatives. Our actions, big and small, are driving the positive change the Alwin.commandeur@rhdhv.com world needs, and are enhancing society now and for the future. Our head office is in the Netherlands, and we have offices across Europe, Asia, Africa, Australia and the Americas.

**Royal Haskoning DHV** 

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#### Slamdam

We offer end-to-end solutions to mitigate flood and drought risk. Our flagship product is our mobile flood barrier called SLAMDAM

Value Proposition: SLAMDAM is an easily deployable mobile barrier that can be used for combined flood prevention AND water harnessing/storage.

Unique Selling Points SLAMDAM:

- Combined use for flooding AND water harnessing/storage.
- Lifespan of 40+ years.
- Unique and patented product.
- TUV-certified (only one of its kind).
- Winner of many international awards.

Furthermore, we offer flood intelligence software solutions such as a tool that measures the anticipated benefits from flood resilient measures.

We believe in a holistic approach to manage flood and drought risks.

#### SLAMDAM

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#### **Water Alliance**

The Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. The Water Alliance focuses on innovative and sustainable water technology and connects water technology companies worldwide.

Water Alliance is part of Water Campus, the Netherlands, a water technology ecosystem that brings together a complete chain of innovation for water technology, from first idea, research & development, specialised laboratories, a water application centre, various demo sites, launching customers to international applications with commercial companies.

Harro BronsIt is driven by the idea that technological development and<br/>Manager Business Development innovation is needed to develop new markets and thus create<br/>new business opportunities for the water technology industry.<br/>h.brons@wateralliance.nl

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#### Wavemakers united Overview:

Wavemakers United (WU) is a non-profit foundation with ANBI status, dedicated to addressing global water challenges by fostering youth engagement through the intersection of water, science (universities), education, and Olympic sports in close collaboration with IHE Delft.

#### Mission:

Our mission is to inspire and engage youth worldwide to value water and pursue education and careers in the water sector. We aim to maintain sufficient capacity and innovative potential around sustainability, innovation, and transformation (Human Capital Agenda Water) by connecting young people to global water challenges and the Sustainable Development Goals (SDGs).

#### Impact:

Through our programs, WU has reached hundreds of thousands of students and community members, encouraging them to value water resources and explore educational and career opportunities in the water sector. Our initiatives have resulted in strategic collaborations and a growing network of young water advocates.

#### Key Initiatives:

UN2023 Gamechanger Challenge: In the lead-up to the UN Water Conference, this initiative facilitated strategic collaborations between over 15 international youth organizations and 200 universities across 62 countries, including the Netherlands.

Local Waves: WU builds youth-led ecosystems called "Waves," where students, young professionals, the private water sector, industry, governments, and citizens collaborate to support innovation. These Waves aim to raise community awareness, promote behavioral change, and focus on capacity building, facilitating entry into education, and easing the transition to the job market in the water sector.

#### Vision:

Wavemakers United envisions a world where youth are empowered to lead and innovate in the water sector, ensuring sustainable management of water resources for future generations. By continuing to expand our network and influence, we aim to build a resilient, informed, and proactive community of young water leaders worldwide.





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#### Witteveen+Bos

Witteveen+Bos provides consultancy and engineering services in the areas of water, infrastructure, the environment, and construction. With over 1,400 employees, our firm primarily focuses on complex projects which require high-quality expertise and an integrated approach. We are characterised by a multidisciplinary approach based on intensive collaboration between specialists from various disciplines. Expert, reliable and engaged, Witteveen+Bos has a unique ownership structure in which all shares are held by its employees. Every year, we work on over 4.700 projects. Our clients include government organisations, the business community and collaborations between parties. We serve these clients from nine offices in the Netherlands, including our head office in Deventer, and from international offices in Belgium, Dubai, Indonesia, Panama, Kazakhstan, Latvia, Singapore, and the United Kingdom.

More information on us can be found on www.witteveenbos.com Follow us on www.linkedin.com/company/witteveen-bos

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# vsp



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#### WSP

As one of the largest professional services firms in the world, WSP exists to future-proof our cities and our environment. It provides strategic advisory, engineering and design services to clients seeking sustainable solutions in the transportation, infrastructure, environment, building, energy, water and mining sectors. Its 67,200 trusted professionals are united by the common purpose of creating positive, long-lasting impacts on the communities it serves through a culture of innovation, integrity and inclusion.

At WSP, we collaborate with governments, public and private companies to effectively manage, operate, and preserve the integrity of water supply and distribution systems. We understand the importance of ecology and the role of naturebased solutions in addressing these challenges. We believe in harnessing the power of natural processes to enhance water security and resilience.

Climate change is threatening supplies and making drought and flooding more frequent and extreme. Rethinking the way we use, manage and store water is one of the greatest adaptation challenges that we face. Our goal is to help our clients optimize the use and reuse of water, while simultaneously protecting water resources and the natural environment. This approach supports a sustainable and water-secure future for all. We strive to deliver outcomes that not only meet the increasing expectations of customers and end-users but also influence behavioural changes. In doing so, we aim to safeguard and future-proof the environment.

#### WSP Singapore

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## **LET'S CONNECT**

Visit us at:

Netherlands Pavilion Booth no: L1-F11



### Netherlands