NL

Netherlands

Dutch Flood Resilience Solutions

Together towards a flood-resilient tomorrow

U.S.-Netherlands partnership for flood prevention

Flooding is intensifying across the southern United States. As these risks grow more frequent and complex, businesses and governments need solutions that are practical, proven, and ready to deploy. The Dutch Flood Resilience Solutions partnership brings together the Netherlands' world-leading flood expertise with U.S. local knowledge to deliver exactly that.

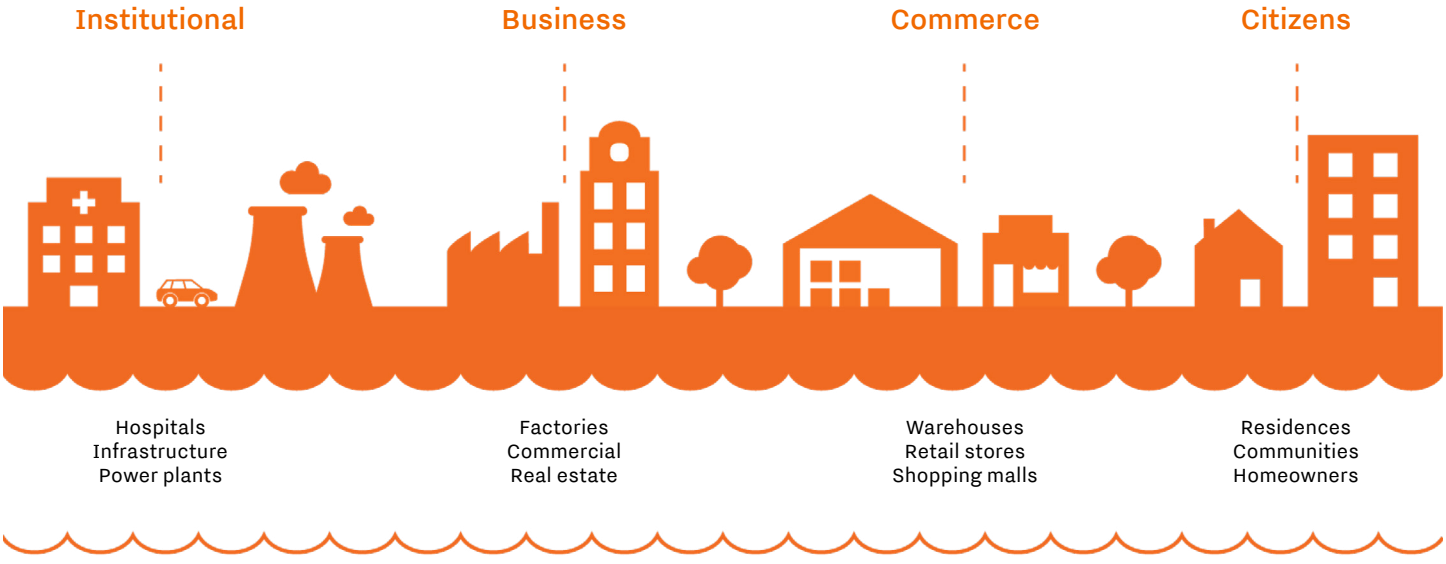
Florida and Texas have always lived with water. From hurricanes and storm surges to inland flooding and heavy rainfall, both states face recurring water challenges that disrupt daily life, threaten critical infrastructure, and place a heavy burden on businesses, communities, and governments. As these challenges increase in frequency and complexity, so does the need for practical, proven solutions that reduce risk, safeguard investments, and protect economic continuity.

The Netherlands knows what it means to live with water. With centuries of experience managing flood risk, the Dutch have developed world-renowned expertise in keeping people safe, cities thriving, and economies growing, even below sea level. We are proud to bring this expertise together in the Dutch Flood Resilience Solutions partnership: a public-private collaboration of innovative companies, research institutions, and government agencies offering integrated, ready-to-deploy solutions for flood resilience. We look forward to working side-by-side with U.S. partners, combining international innovation with local knowledge to create effective, scalable flood resilience strategies to reduce risk, protect investments, and keep cities and businesses running, before, during, and after flood events.

Our approach ensures that when flood risks arise, practical and proven measures are ready to be deployed swiftly, while also building stronger, smarter infrastructure that minimizes future vulnerabilities. This means we offer solutions for short-term emergency response, medium-term monitoring and early warning, and long-term planning and design.

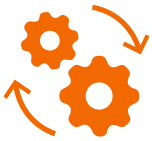
A multi-layered approach to flood resilience

Our partnership offers a broad approach to flood resilience, based on the Dutch principle of multi-layered safety. This means focusing on prevention and preparedness, protection and response, as well as recovery and adaptation. As a partnership we can combine solutions from modeling, monitoring and early warning systems to self-closing or rapidly deployable flood barriers and pumping stations, to resilient infrastructure design and adaptation planning to help communities and businesses thrive.



Our integrated approach

The Dutch Flood Resilience Solutions partnership combines four pillars for an integrated approach to flood risk management. This way, we offer stakeholders a clear pathway from problem understanding to implementable flood resilience solutions.



Knowledge-to-Knowledge

The partnership aims to build on collaborative knowledge exchange. It brings Dutch expertise from knowledge partners Deltares and TU Delft to universities, research institutes, and other stakeholders for knowledge exchange and innovation.

Forecasting and scenario modeling

We provide a data-driven understanding of flood risk using advanced Deltares modeling to assess flood depth, extent, and duration from rainfall, storm surge, river, and groundwater sources under current and future climate conditions. By comparing scenarios with and without mitigation measures, we quantify potential damages, avoided losses, and the effectiveness of interventions. This enables clear prioritization of investments and supports informed, evidence-based decision-making.

Design for Resilience

We bring tailored design that will increase long-term resilience. In an iterative process, we can explore flood impacts and design solutions and then test their strengths and weaknesses under flood scenarios. This allows communities to move from reactive protection to integrated asset resilience.

Products and services

Our partnership includes a range of flood resilience solutions that can be tailored to local needs and budgets. These include:

- Temporary flood barriers
- Self-closing and automatic protection systems
- Sensors for early warning & groundwater monitoring
- Pumping solutions & hydraulic engineering
- Logistics, deployment & real-time operational

Why partner with us

- Proven Dutch flood resilience expertise with an integrated, scalable, empowering approach
- We partner across all levels: G2G, K2K, B2B, and B2C, connecting policy, science, business and society.
- Together, we turn vulnerability into lasting resilience.

Members

blik sensing

BoxBarrier

Deltares

Dutch Float Dike

MHL PROJECTS

neelevat

scfb self closing flood barrier

Staal instruments

Tubebarrier

VANDERKAMP Part of The Workdry Group

TU Delft

Cluster coordinators

DUTCH Water Prevention

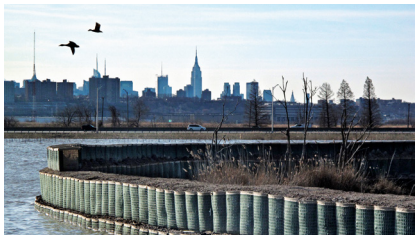
NWP Netherlands Water Partnership

What we do

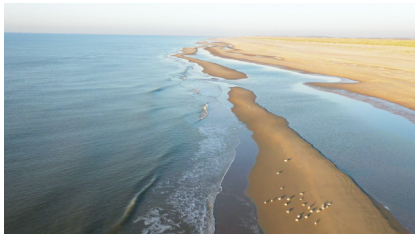
	Forecasting + Planning	Planning + Design	Knowledge-to-Knowledge collaboration	Products + Services
Blik Sensing				
Boxbarrier				
Deltares				
Dutch Float Dike				
Dutch Water Prevention				
MHL				
Neelevat				
ONE Architecture				
Self Closing Flood Barrier				
Staal Instruments				
TU Delft				
Tubebarrier				
Vanderkamp (part of the Workdry Group)				

Coordinators

Dutch Water Prevention provides global flood management solutions, including modular barriers and early-warning systems. Combining Dutch expertise and international presence, DWP helps governments and communities worldwide strengthen water safety and resilience.



The Netherlands Water Partnership unites Dutch public and private organizations to promote integrated water solutions worldwide. Acting as a neutral network, NWP fosters collaboration, innovation, and collective action for global water resilience.



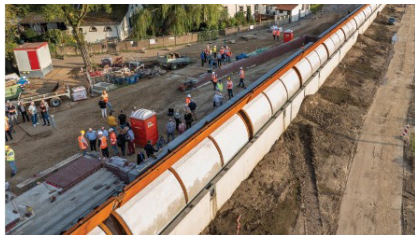
Partners

Blik Sensing delivers groundwater monitoring systems with integrated telemetry and data services. Reliable, sustainable, and ISO-certified, it enables smart water management. The company plans 10,000 U.S. installations by 2030.

Boxbarrier produces modular, water-filled polyethylene flood barriers for fast, temporary defense. Compact, durable, and reusable, they're deployed globally. The company targets U.S. expansion through partnerships and integration within Dutch water networks.

Deltares is an independent, not-for-profit research institute for applied research focussed on water and the subsurface. It develops software, models and decision-making methods, to bring scientific basis to complex, multidisciplinary issues.

Dutch Float Dike is a self-activating rotating flood dike that automatically tilts using the force of rising water. The system opens without power, pumps, or human intervention. Proven to protect against flood levels up to 4 meters, it is currently the largest self-activating flood barrier in the world.

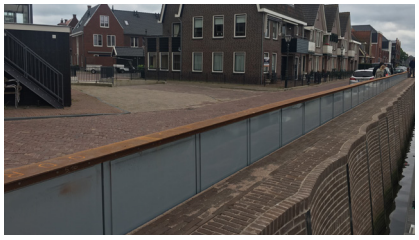


Mobile Home Lift (MHL) Projects develops lifting and flotation systems protecting mobile homes from floods. Affordable and scalable, the technology targets U.S. flood-prone areas through pilots, partnerships, and financing collaborations.

Neele-Vat (Ocean) specializes in transatlantic logistics between Europe and North America. With U.S. offices and warehouses, it offers customized shipping and emergency response. Its goal is expanding reliable, strategic logistics networks.

One Architecture & Urbanism integrates design, infrastructure, and climate adaptation. Active in Amsterdam and New York, it collaborates globally to develop resilient urban strategies and total flood protection solutions.

Hyflo Self Closing Flood Barrier (scfb) develops self-closing, water-powered flood barriers that activate automatically. Durable and maintenance-free, they protect properties seamlessly. Hyflo aims to increase U.S. presence, awareness, and explore local production opportunities.



Staal Instruments develops wireless radar sensors for real-time monitoring of stormwater systems, drainage networks, and flood-prone infrastructure. The contactless sensing technology enables rapid deployment of monitoring networks that provide reliable water level data for flood early warning and operational decision-making.

TU Delft advances global water management through research and innovation. Collaborating with U.S. universities, it develops and tests Dutch flood technologies, aiming to establish the “Flood Proof Texas” initiative.

Tubebarrier offers a self-filling, modular flood barrier using floodwater for stability. Lightweight, reusable, and power-free, it provides rapid protection. Rass International aims to expand U.S. partnerships through pilots and certifications.

Vanderkamp (part of the Workdry Group) provides engineered pump installations and tailored water management solutions. Partnering with Holland Pump, it combines Dutch expertise with U.S. presence to expand emergency response and infrastructure resilience capabilities.

Let's connect

For more information, visit the website

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