

# WAVESAVE

## *Water Control Solutions for a Resilient Future*

*WaveSave offers innovative, end-to-end water control solutions designed to enhance resilience to floods and droughts worldwide*

**WAVESAVE B.V.**

*The Netherlands, October 2024*





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# WAVESAVE Offers Innovative Water Control Solutions

*WaveSave's holistic approach towards water-related challenges is supported by comprehensive integrated water control solutions.*

## 1. Flood Control Solutions

- ✓ **Mobile Flood Barriers**
- ✓ Nature-Based Solutions
- ✓ Flood Early Warning



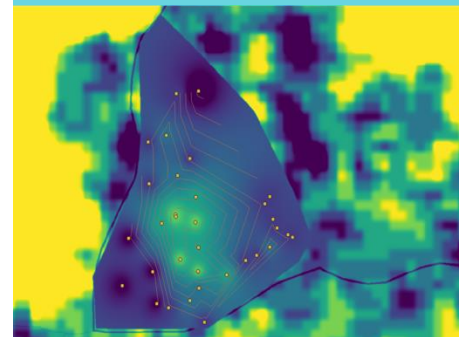
## 2. Drought Control Solutions

- ✓ Rainwater Harvesting
- ✓ Water Storage Systems
- ✓ Irrigation Systems



## 3. Data Analytics & Services

- ✓ Data Collection Hardware
- ✓ Data Collection Services
- ✓ GIS Mapping Services



## 4. Consultancy & Training Services

- ✓ Technical Consultancy
- ✓ Project Management
- ✓ Community Training



# An Awarded Mobile Flood Barrier Used Worldwide

## Reputable Satisfied Clients

- The World Bank
- The African Development Bank Group
- (sub)National Governments
- The U.N., CTCN / UNEP
- UKAid, Aga Khan and WWF
- Water Boards / Authorities



Government of the Netherlands

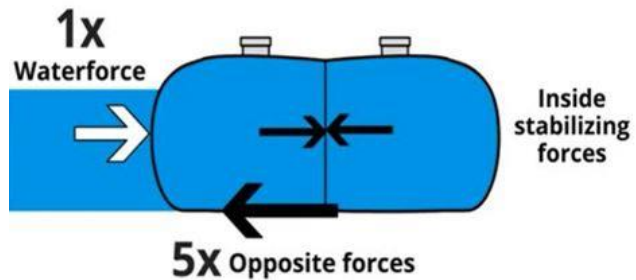


## Internationally Recognized Mobile Flood Barrier, “SLAMDAM”

- ✓ Awarded Most effective solution against flooding in the Netherlands
- ✓ Winner The Climate Innovation Challenge (CIC)
- ✓ Winner The International Korea Waterweek
- ✓ Out of 200 candidates we were selected by the U.N. to scale-up one of our projects

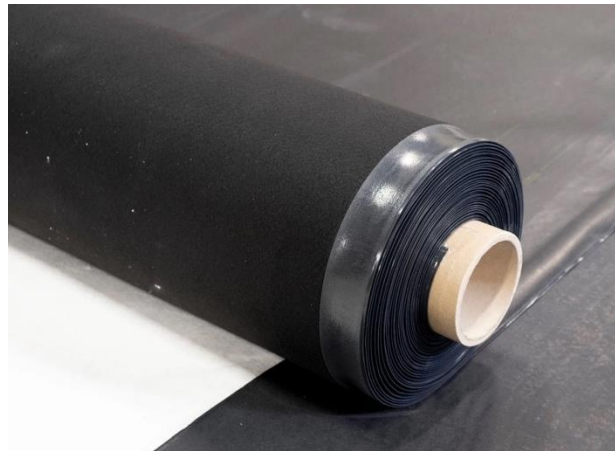
# SLAMDAM Features and Benefits

## 1. Unique Design (2 compartments)



- ✓ Modular system
- ✓ Standard units 5 m in length
- ✓ Each unit has two compartments

## 2. Unique Material (Reinforced EPDM)



- ✓ UV and Ozone resistant
- ✓ Store fluids vapor tight
- ✓ Lifespan 40+ years

## 3. Key Benefits of SLAMDAM



- ✓ Dual purpose (flood and drought)
- ✓ Easily integrated with other solutions
- ✓ Certified with proven track record

# Easy to Deploy and Dismantle SLAMDAM



*Store in boxes*



*Transport boxes*



*Rollout dams*



*Connect hoses & pumps*



*Fill with water*



*Empty and dismantle*



# SLAMDAM is a Versatile Technology



*Store fluids (e.g. water or fuel)*



*Create a bridge*



*Contain fluids (e.g. polluted water)*



*SLAMDAM is stackable*



*Control water for agriculture*



*Use SLAMDAM for chemicals*



# SLAMDAM is Successfully Deployed Worldwide



**Pakistan, Gilgit Baltistan – Rural Area**  
Supported by World Bank and ADPC



**The Netherlands – Urban Area**  
Supported by Water Authority



**Waca Commune Uganda – Rural Area**  
Supported by Adaptation Fund



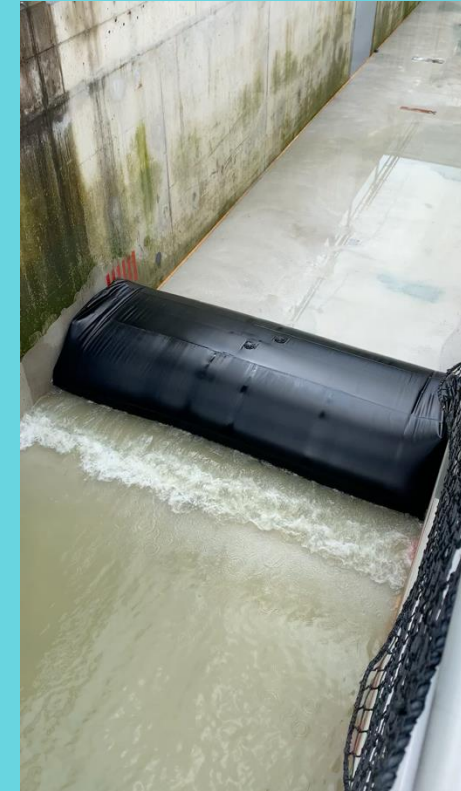
**The Netherlands – Armed Forces**  
Supported by The Netherlands



**Fiji, Ba Town – Urban Area**  
Supported by The Netherlands and Fiji



**Iceland, Harbor – Urban Area**  
Supported by The Iceland Harbor



**Successful test at Deltares**



# Success Story: Start with Data-Driven Flood Risk Analyses

State-of-the-art hydrodynamic modeling software in combination with field studies allowed us to understand flood risks and how best to use SLAMDAM to prevent flood damages.



*Output hydrodynamic modelling in Gahwazi in Burundi*



# Success Story: The Community Uses SLAMDAM to Prevent Flood Damages.



*SLAMDAM was deployed independently by the Mpanda Commune in Burundi*



# Success Story: The Community Uses SLAMDAM to Harness Water for Irrigation Purposes.

The community in Burundi doubled their agricultural production in 2022



*Water is stored vapor tight in SLAMDAM and can be used during dry season*



# Success Story: Flood Risk Analyses in Kenya Showcased how SLAMDAM Could Prevent Flood Damages

State-of-the-art hydrodynamic modeling software in combination with field studies allowed us to understand flood risks and how best to use SLAMDAM to prevent flood damages.



Flood maps were used to determine how to mitigate flood risks using SLAMDAM



# Success Story: SLAMDAM was Effectively Deployed in Kenya by Local Communities and Authorities

SLAMDAM is currently deployed during a real-life flooding and protected hundreds of people (including many women and children) in addition to critical infrastructures such as a water treatment plant.



## Slamdams: the technology that saved Laikipia from flooding

Friday, May 17, 2024



Ms Margaret Mwangi, a co-director at Fiesta Hotel in Rumuruti Town, Laikipia Town shows slamdams that have protected her business from the adverse effects of flooding. A total of 30 slamdams were deployed here to act as a barrier on River Ngare Narok after forecasts showed it would burst its bank and result in massive flooding. Photo credit: Mwangi Ndirangu| Nation