



# Flood and Stormwater Solutions

## **From Prevention to Relief: The Need for Holistic Solutions**

Floods pose substantial challenges worldwide, devastating infrastructure, endangering lives, and causing lasting socio-economic repercussions. With climate change, severe weather events are becoming more frequent and unpredictable, underscoring the need for proactive and innovative solutions to handle stormwater. Our solutions address these concerns through flood prevention, monitoring, mitigation and relief measures.

## **Weather is unpredictable. Xylem is not.**

With a broad portfolio of water management equipment, we ensure you have the right tools for the job, and a reliable system you can count on. Our team is on hand to respond to flooding emergencies or help advise on flood prevention plans, ensuring your safety and success against the devastating power of floods.



Scan to download our full guide to stormwater management

# Integrated Solution for Effective Management

## Flood Mitigation

### DEWATERING SOLUTIONS

Swiftly remove stormwater from flooded areas



Flygt 2000 series



Godwin FP series

## Flood Relief

### HUMANITARIAN AID

Provide drinkable water during emergencies



Aquablock water filtration units

## Flood Monitoring

### WATER LEVEL AND DISCHARGE MONITORING

Measure accurate water levels, velocity and discharge

### RAINFALL MONITORING

Measure rainfall intensity and quantity



YSI Rain Gauge

## Flood Prevention

### PUMP GATE

Remove stormwater quickly and remotely monitor operations



Flygt N3000 submersible pump



Flygt PL7000 propeller pump



MAS801 Monitoring System

## Flood Prevention

### DETENTION TANK

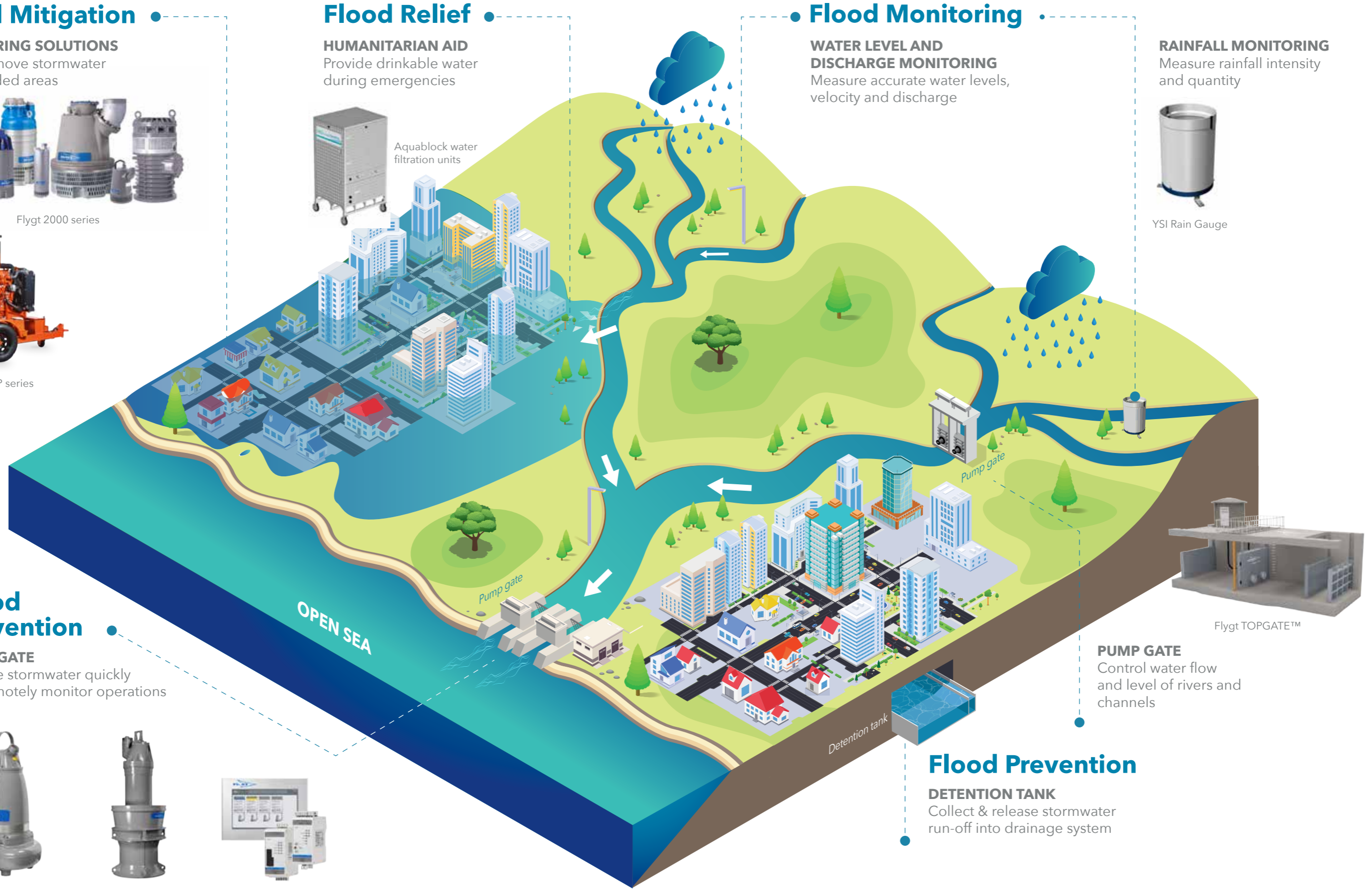
Collect & release stormwater run-off into drainage system



Flygt TOPGATE™

### PUMP GATE

Control water flow and level of rivers and channels



# Xylem in Action



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## Award Winning Storm Water Management and Road Tunnel (SMART) Kuala Lumpur, Malaysia | 2007

### Client:

Department of Irrigation and Drainage (JPS), Malaysia

### Challenge:

To manage the flash floods in the city. The city is highly dense. Constructing large drains, extensive pipe works, and widening or deepening rivers are not options.

### Solution:

SonTek Argonaut acoustic Doppler current meters & Flygt pumps. The pumps dewater all floodwater in the tunnel within 24 hours while the meters measure water flow and velocity.



For reference only

## Disaster Response & Humanitarian Aid Historic Floods | Pakistan | 2022

### Response:

- Deployed 2 Aqublocks water filtration units
- Implemented emergency WASH access through Mercy Corps
- Collected in-kind donations

### Partners:

Mercy Corps, Americares, Red Crescent



Xylem.com/SEA



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## Overcoming Unprecedented Rainwater Flooding | UAE | 2020

### Client:

Dubai Municipality, United Arab Emirates

### Challenge:

To handle rainwater flooding in the region. There was an estimated 3,000,000m<sup>3</sup> of flood water. An area as large as 12m<sup>2</sup> has floodwaters 1m deep.

### Solution:

Seven Godwin pumps were deployed to the worse hit areas and mobilized through the night, with a pumping capacity of over 6,000m<sup>3</sup>/hour.



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## Disaster Response | Thai Cave Rescue Thailand | 2018

### Response:

Experts sent to site to reconfigure the existing dewatering pumps to lower the water level in the cave.

