

Xylem Water Solutions for Flood Protection



Global Leader in the water industry



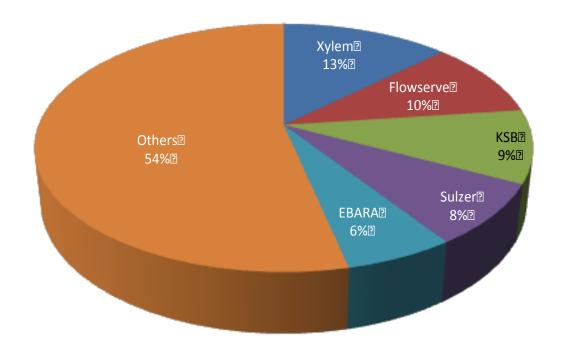
- Focus in water & wastewater management products & services
- USD 3.2 Bln. revenue in 2010 & NYSE listed company
- 140 countries, 12,000 employees, 12 manufacturing sites worldwide.
- World's Largest pump manufacturer & world's largest Dewatering **Pumps & Services Company**
- Over 100 years of history
- Inventor of world's first submersible pump





#1 Market share - Global Centrifugal Pump Market





Total Centrifugal Pump Market 2009 Revenue: 19,43 US\$ Billion

Source: "Strategic Analysis of World Centrifugal Pumps Market" by Frost Sullivan, August 2010





At a glance: Extreme technology for flood management

- Flygt submersible patented N-technology self-cleaning pumps: World's #1 brand with lowest cost-of-ownership.
- Unrivaled Computational Fluid Dynamic (CFD) excellence for optimal pump station and drainage flow design.
- Centralized Monitor & Control System: management of all pumping stations and flood alert systems from anywhere at anytime
- Emergency dewatering and flood control solution with Godwin mobile diesel-driven pumps.



Flood management & emergency response track record



International presence

- Over 10,000 installations worldwide.
- Preferred vendor to the US Federal Emergency
 Management Agency (FEMA) and US Army Corps of
 Engineers (USACE) for storm and flood water management.

Regional presence

- Thailand: first installation in 1947 for Sri Nakarin Dam project.
- Singapore: pumps and flood gate installations in Orchard area & Changi airport.
- Malaysia: flood mitigation with over 100 installations of Xylem pumps and pump stations to date.







High flow pumping solution for flood control





US Hurricane cases





Hurricane Irene, New Jersey

Fast delivery of **350 Dri-Prime diesel-driven pumps** from eight of its East Coast branches

Hurricane Katrina, New Orleans

Quick responses of over 100 large, medium and small submersible pumps and diesel engine driven pumps



US river flooding cases



Midwest rivers flood, 2010

Fast delivery of **400 diesel- driven pumps** from eight of its
East Coast branches





Shanghai EXPO PU Ming PS China





Stormwater application installed in 2006

- 6 PL 7121 propeller pumps 4.5 m3/s
- 8 PL 7101 Propeller pumps 2.6 m3/s



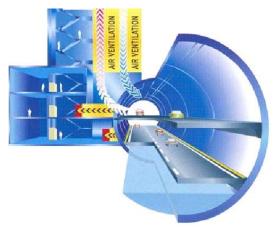


Kuala Lumpur Flood Mitigation – Flood Tunnel SMART Project















Malaysia's Flood Mitigation – Pumps and Pump Stations

plausible with our technology.







First large order to Thailand



- Year 1963
- Project : Sri Nakarin Dam in Kanchanaburi
- Purchased by: The Royal Irrigation Department
- 24 units of Bibo 5 and 8 units of B200's







Thailand's flood protection critical installations





Bangkok's MRT Underground Train System: 105 Pumps

Suvanabhumi International Airport: 199 Pumps



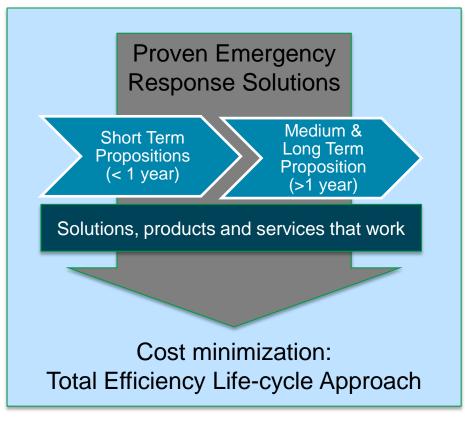


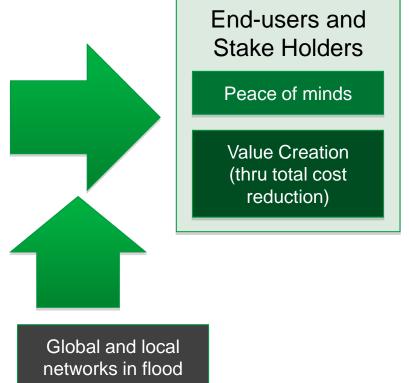




Our approach







management



1 - modular approach: short term that that translates into long term approach (<1 year)



- Expand large pump fleet for efficient emergency response
- Pump fleet that can be utilized in permanent installations when infrastructure is built

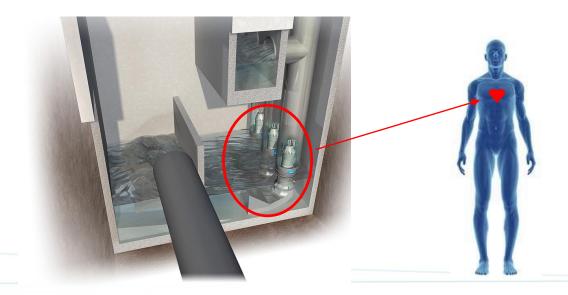




2 – Gap analysis on current pumping station infrastructure for improvement upgrade (<1 year)

 Analysis & recommendations to upgrade that leads to high reliability & efficient the pumping station.

"Pump stations are the beating heart of a flood protection system: Can we afford a heart failure when we need to run from the angry tiger?"





a xylem brand

3 – Recommendations on flood prevention FLYGT for strategic locations

- Flood prevention in key areas such as industrial estate, business centers, governmental agencies, etc.
- Wide arrays of experience and product portfolio that can be introduced.





4 – Long term solutions that are reliable, efficient, cost saving, and peace of mind.



- State-of-art fluid analysis and simulation for
- Optimal set up of pumping stations and drainage system.
- Lowest cost of ownership approach for unrivaled cost and energy saving for water transport
- Cooperation with existing networks of local, regional, and international water consultants at enduser's preference for flood management solutions.





We would like to help to reduce the risk of future flooding events and reduce the total cost of ownership



