NYU TANDON SCHOOL OF ENGINEERING

W-SMART
International Water Security
Alliance of Water Utilities

Urban Resilience & Crisis Management

Experience Sharing Workshop

Hosted by the City of Sydney

Session 1

W-SMART Perspectives

Prof. Ilan Juran

Director, Urban Infrastructure Institute, NYU

Executive Director, W-SMART Association

ASSOCIATION OF METROPOLITAN WATER AGENCIES

Strategic Partner

W-SMART

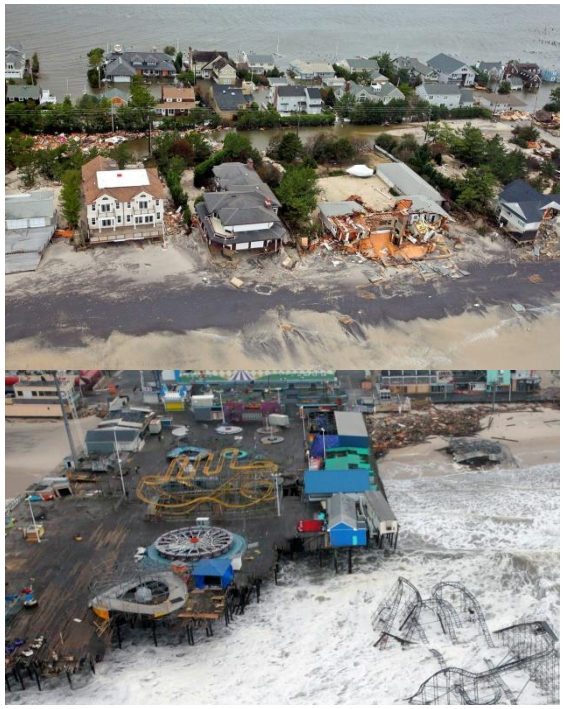
Created at the Aftermath of 9/11

UNESCO

Strategic Partner

9/11 Attacks, 2001

Joel A. Miele Sr., P.E.,
Commissioner NYC-DEP, 1996-2001,
Rear Admiral (R), U.S. Navy
Founder of W-SMART



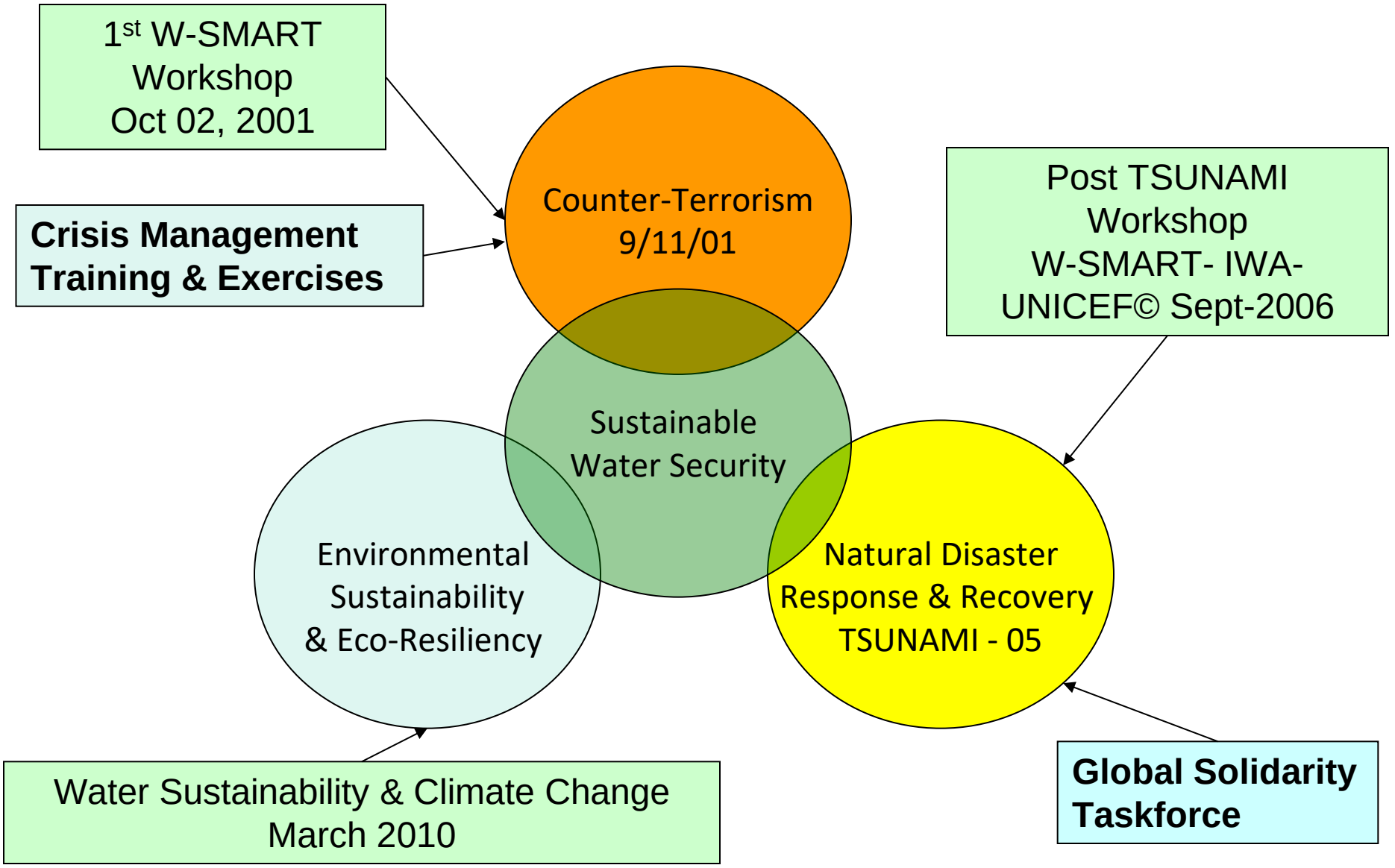
Hurricane Sandy, 2012

International Association of Water & Wastewater Utilities for Sustainable Water Security

Accelerating Response Capacity Building to Terrorism, Industrial and Natural Disasters

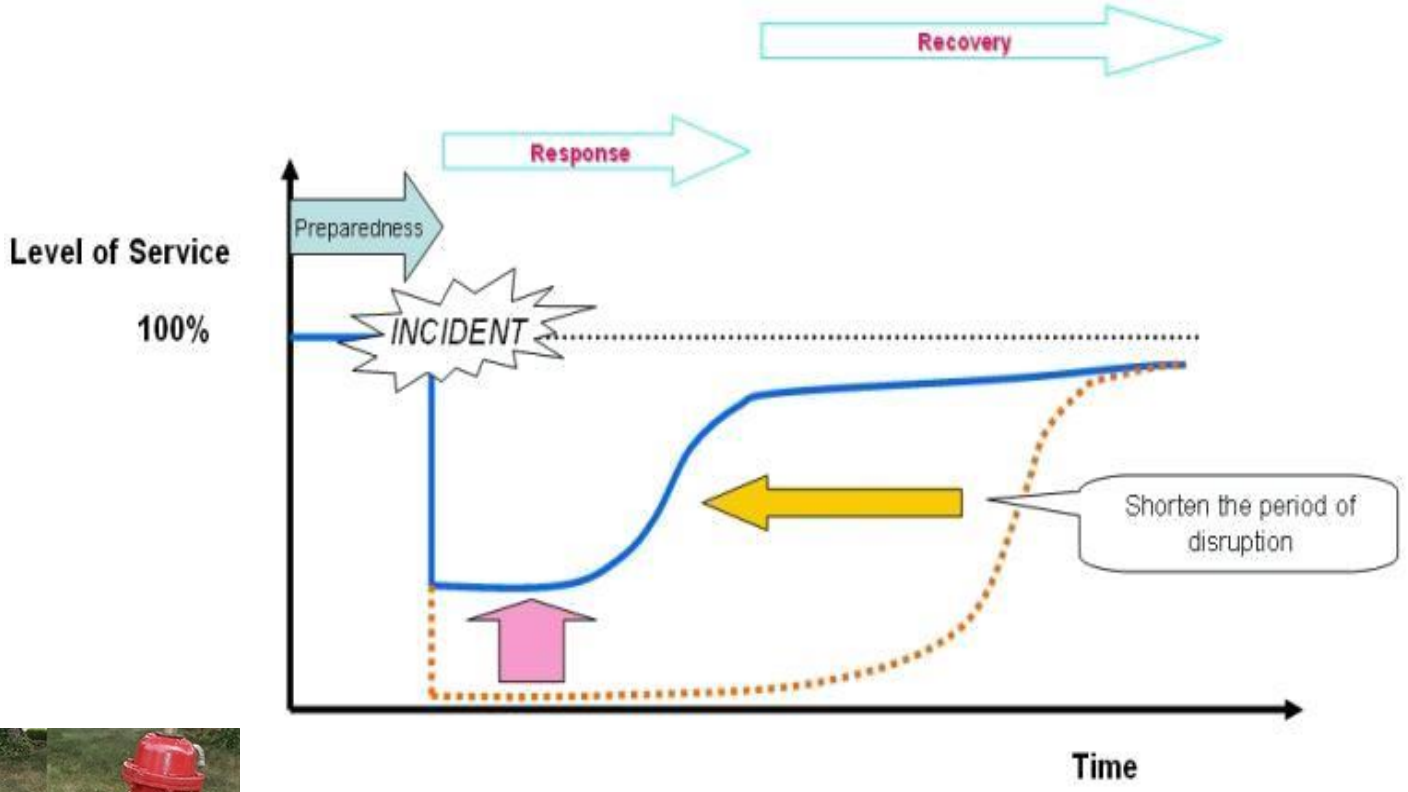
W-SMART Agenda

Security – Safety – Sustainability



BEST PRACTICES IN CRISIS MANAGEMENT

GUIDELINES FOR DRINKING WATER UTILITIES CRISIS MANAGEMENT
ISO TC224 WG7



"W- SMART"

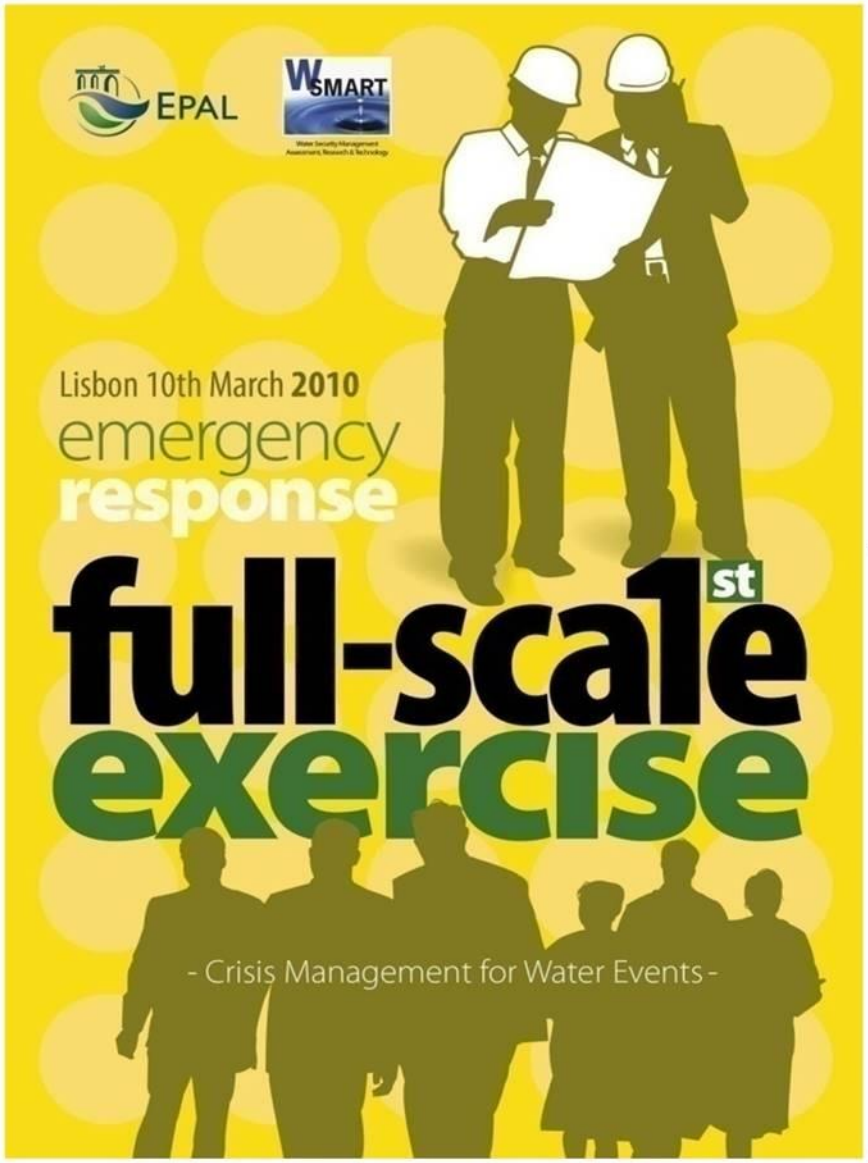
Water Security Management Academy for Research & Technology

Industry–University Collaborative Research & Development Center

Bio-SMART sponsored by **EDP, SEN, VITENS**
Bio-Safety Monitoring & pro-Active Real-time conTrol

INCOM sponsored by **EDP, SEN**
Intelligent Network Control & On-site Monitoring

SmartWater4Europe sponsored by **EU-FP7**
Smart Water Network Demonstrator Project - VITENS



Crisis Management Exercise
EPAL and W-SMART, Lisbon 2010

W-SMART Crisis Management Training

- Experience Sharing among members in exercises conducted by their peers
- Expert Support to Capacity Building through collective experience
- Review & Updating of Locally Adapted Crises Management Guidelines

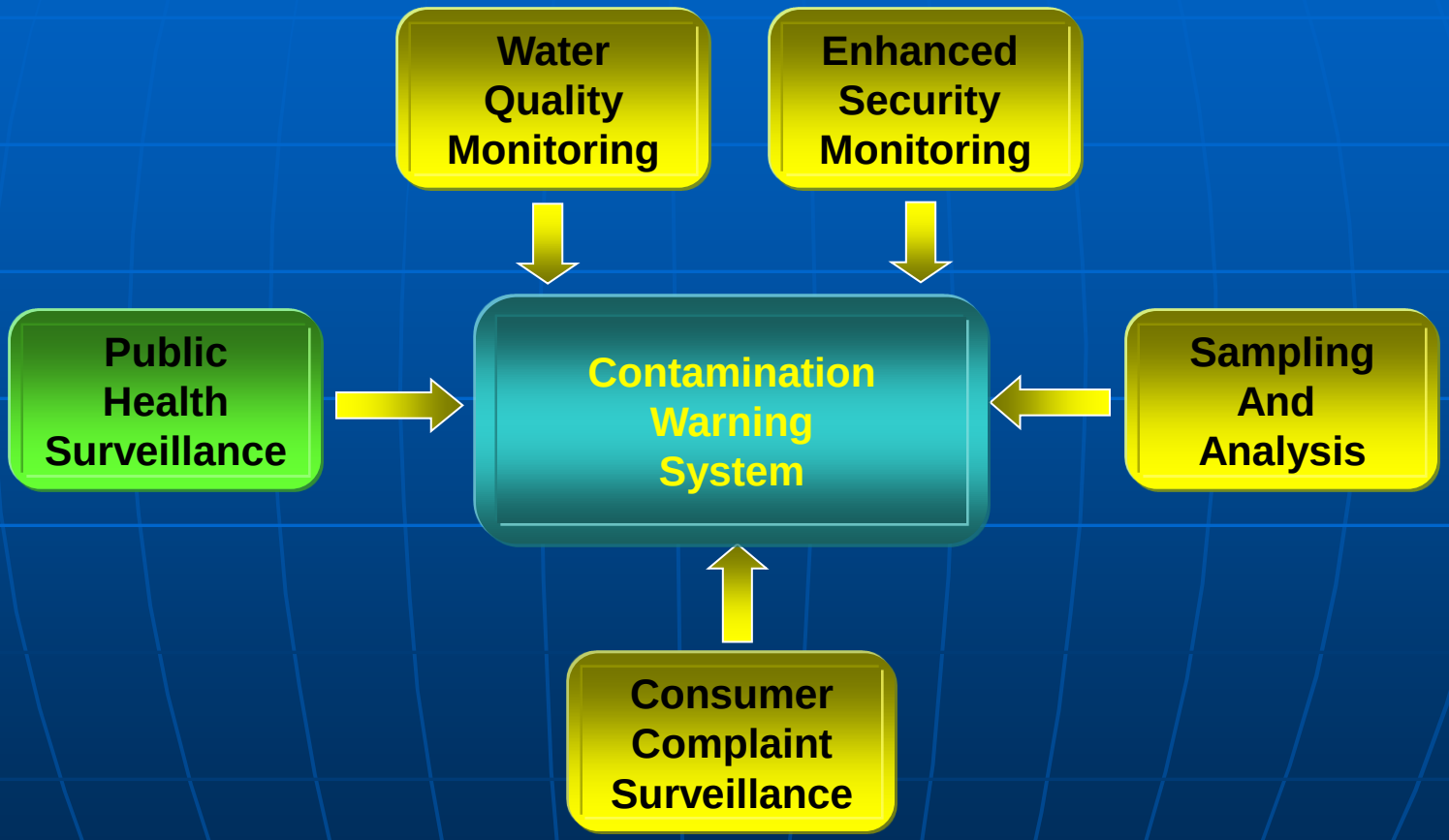
Goals of Water Security Initiative

- Design a system for timely detection and appropriate response
- Demonstrate a contamination warning system
- W-SMART Experts invited as Observers

Why Water Security Initiative with EPA?

- Minimize impact on public health
- Evaluate integrated contamination warning system
- Enhance emergency response plans
- Improve partnerships

Water Security Initiative: Contamination Warning System



What is Water Security Initiative?

Upgrading Emergency Mgmt. – W-SMART support

9 months project

Preparation of Guidelines for crisis management in water events

- 1st version - July 2009 until December 2009
- 2nd version - January 2010 and 3th version in March 2010
- EPAL Team (Water Supply, Water Security, Water Quality, Maintenance and Asset Management)

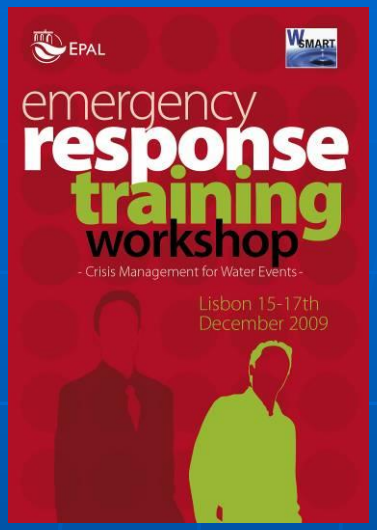
Training

- Workshop in 15 – 17 th December for 36 technicians (4,5%)
- Training Exercise in 21st January 2010 for 55 technicians (7%)

Exercises

- Full-scale Exercise in 10th March 2010 for 76 technicians (9,5%)

W-SMART Team: MEKOROT; VITENS; EAU DE PARIS



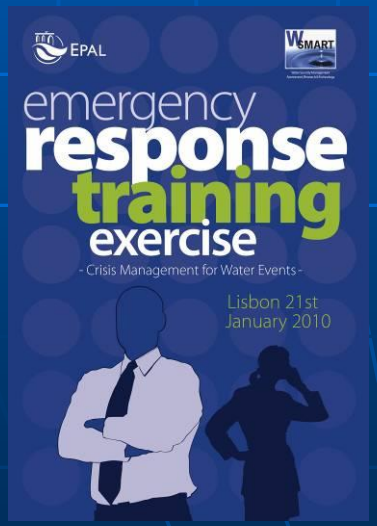
2nd Phase: 2010 - 2012

Training Sessions

- 36 technicians
- Water Supply events
- Maintenance Events

Water Supply

Water Quality



CM Exercise

- 55 technicians
- Water Quality Events
- Water Supply Events
- Maintenance Events

Field Exercise with Municipalities

Debriefing

Future Goals – Capacity Building & Corporate Culture

Development of Emergency Response guidelines, training and exercise is important in order to achieve:

- Assurance of the business continuity and sustainable satisfaction of the customers under emergnecy situations
- The integration of best international reference practices regardin water security and water safety
- Acheiving the “best company” reference status among the water utilities in Portugal
- Building corporation image and consumer trust by increaing reliability and improving internal and external communications.