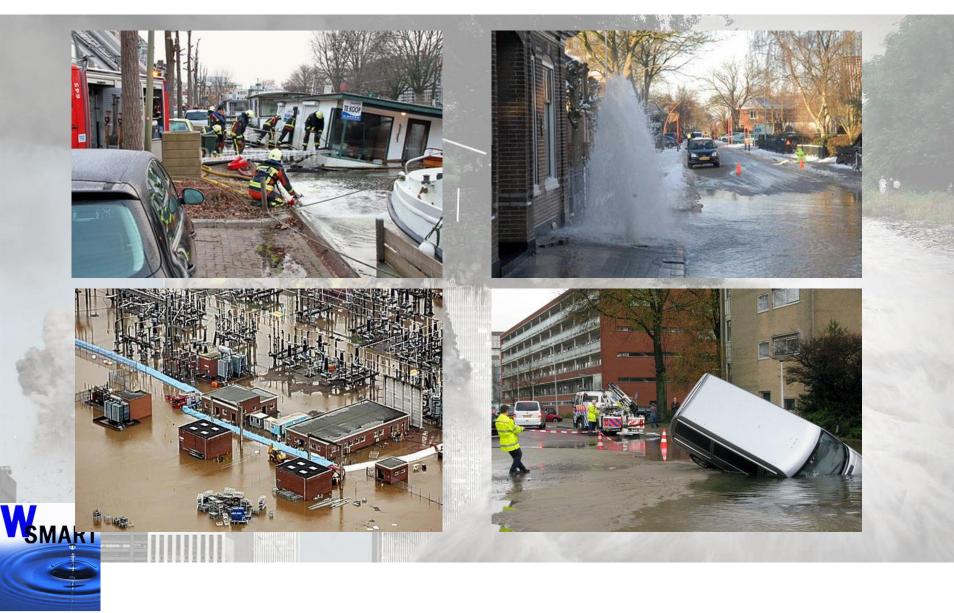
#### **WSMART Exercise Preparation**

# **Exercising in Crisis management**

CILE Liège November 5<sup>th</sup> 2019 Eric Adamse W-SMART Taskforce Emergency Training & Exercising



#### What if Calamities or Crisis do occur...?



## How to be resilient?

#### **Business Continuity Management**

- Availability of enough of sustainable and reliable resources
- Well designed redundant infrastructure for now and the future
- Good operations, staff & skills
- Good maintenance

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- Effective procedures
- Prepared for internal calamities
- Prepared for external crisis situations
- Adequate emergency measures
- Knowing the risks! What to focus on...

## **Risk Assessments**

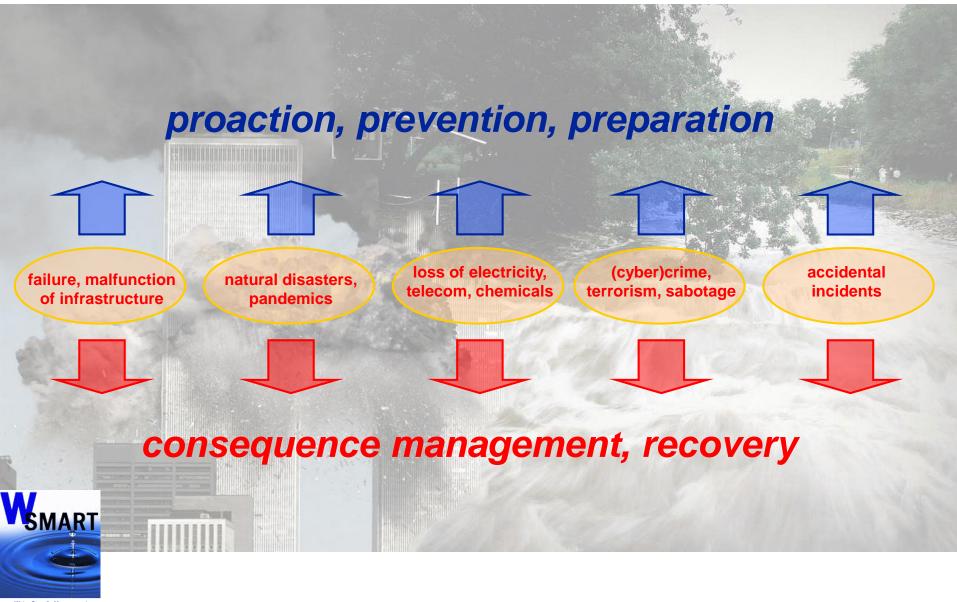
## **Common risks for discontinuity in Water Supply**

- 1. Malfunction of assets (physical, hygienic)
- 2. Pandemics
- 3. Flooding (river, sea)
- 4. Earthquakes
- 5. Bushfire caused by extreme drought
- 6. Heavy Storms
- 7. Loss of Power, Telecommunication, Fuels and Chemicals
- 8. Chemical Fire and Nuclear Fallout
- 9. Terrorism (contamination of water)
- 10. Cybercrime (PA-SCADA)

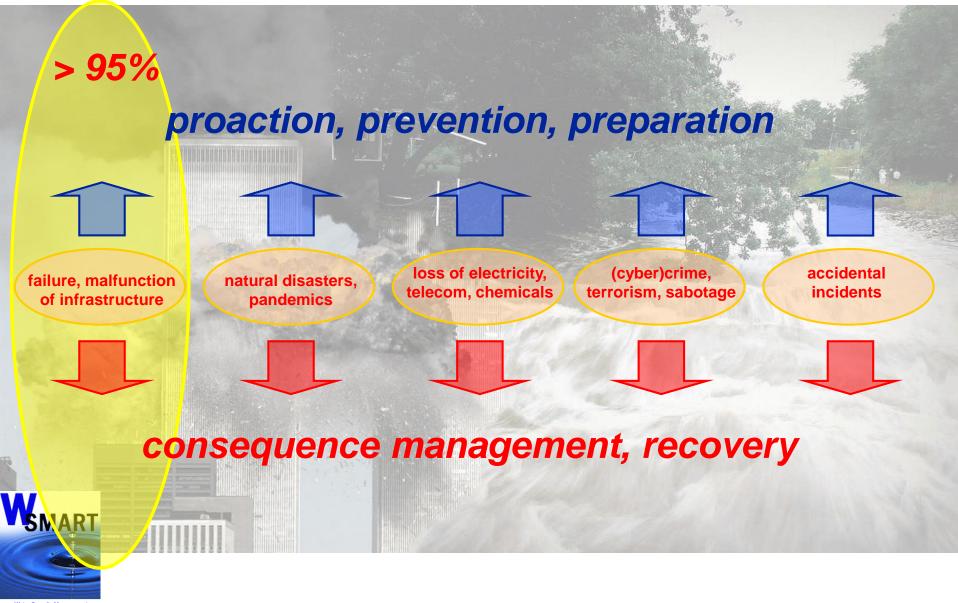




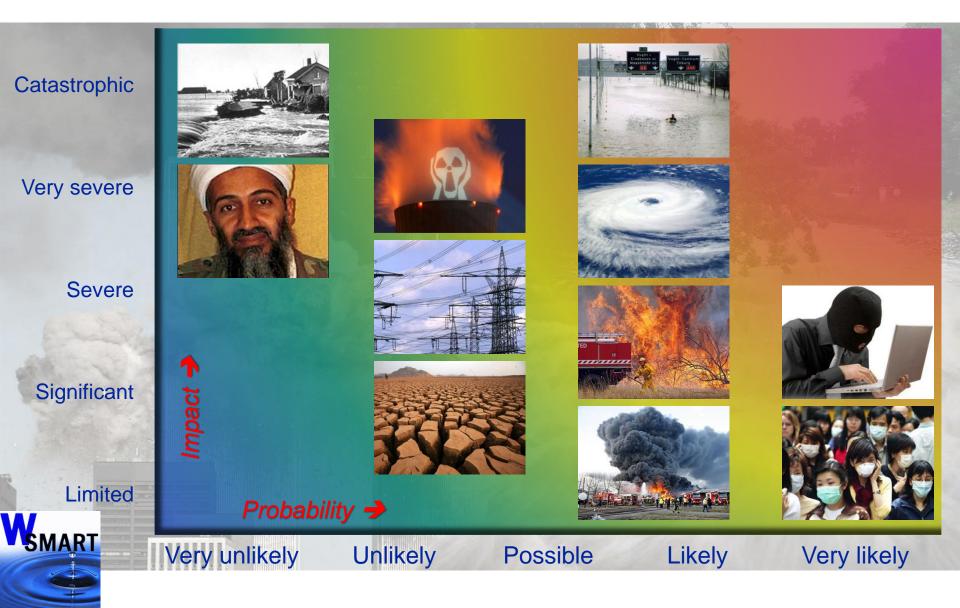
### **Business Continuity Management**



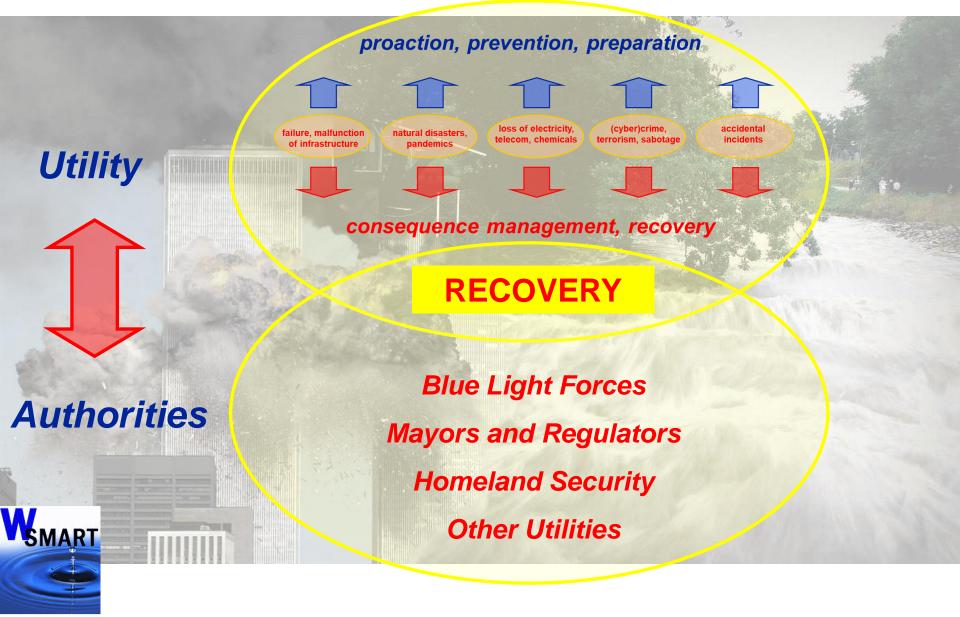
#### **Business Continuity**



## **Risk Diagram for Water Supply**



## **Incident- and Crisis Management**



## **Incidents, Crisis & Disasters**

## **Severity & Escalation**

- Incident (local)
  - caused by utility itself (often)
  - asset-related (malfunction)
  - manageable by operational technicians (going concern)

#### Crisis (regional)

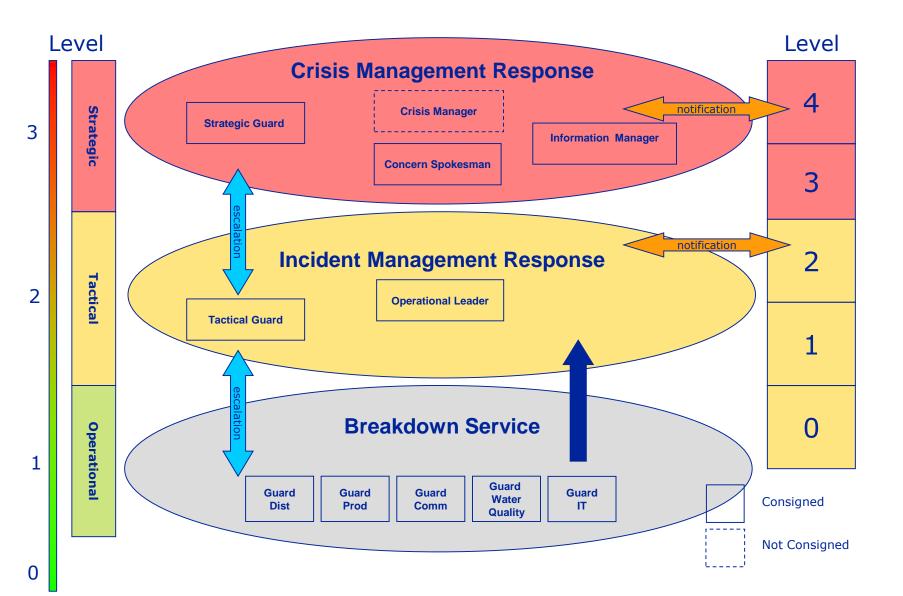
- many customers involved
- manageable by an incident management team (IMT)
- in cooperation with authorities
- Disaster (sub-regional)
  - not caused by utility itself (mostly, hopefully...☺)
    - authorities in the lead
    - utility-part managed by a crisis management tem (CMT)



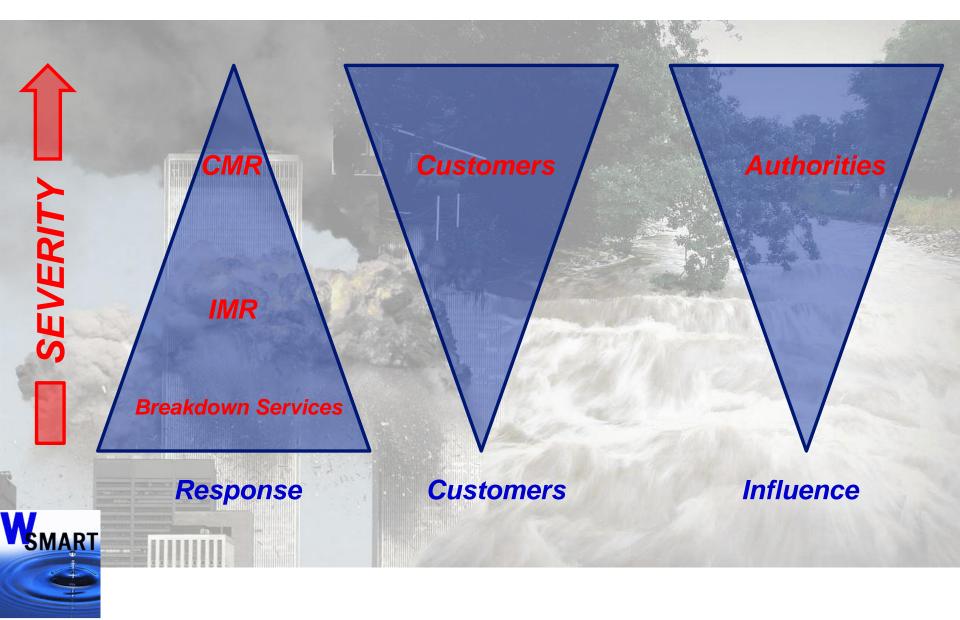
## **Escalation Levels**



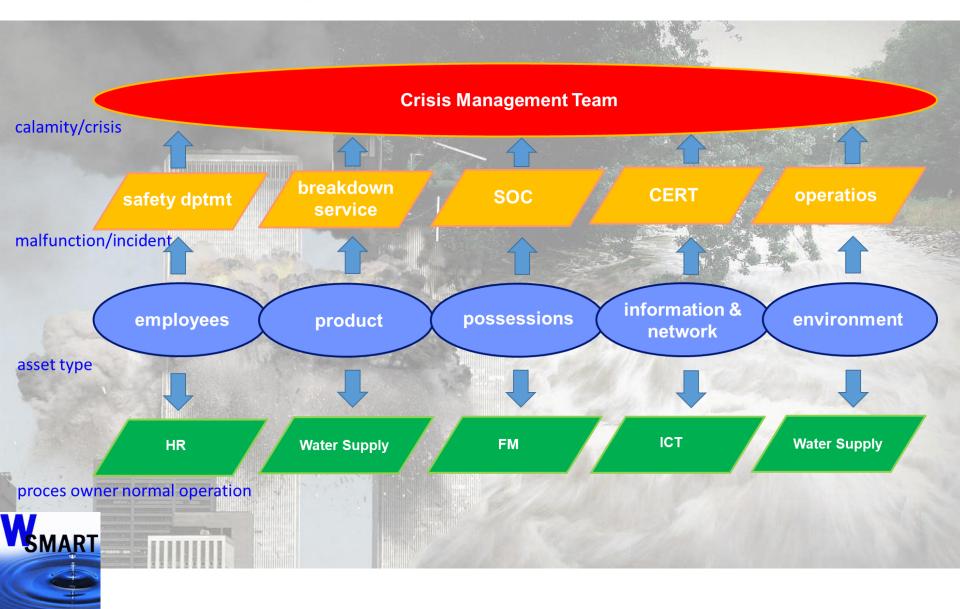
#### **Authorities**



### **Incidents and Crisis**



## All Hazards Approach...? Assets involved



## **Focus for the right Level**

#### Breakdown Service

• Focussed to solve the malfunction

### Incident Management Team

- Event driven (fixing the problem)
- Coordinates internal departments to solve the malfunction
- Coordinates the internal and external communication

#### **Crisis Management Team**

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- Consequence driven (managing the effects)
- Manages the interest & concerns of all stakeholders involved
  - Communicates with Authorities

Concern Spokesman member of the team (or CEO itself)

## 1. Logistics & Facilities

- Situation Room(s)
- Team Members & Schedule for Replacement
- Roles & Responsibilities (chair, secretary, information manager etc)
- Regular communication devices, internet, radio, TV etc.
- Emergency communication devices
- Calendar, Meeting Clock
- Procedures & Guidelines
- Access to Asset Information, Maps, GIS
- Logbooks, SitRaps, Status Flaps on the wall, digital CMS
- Climate & Catering



## 2. Analyses of the situation (on flaps or digital CMS)

- Who is owner of the crisis?
- Who is the owner of the issues?
- Facts & Assumptions
- Time Line of events
- Scenario Building, define worst case, best case & most likely
- Stakeholder Analyses with their Concerns & Interests
- Media Watch & Communication Strategy
- Primary Issues and Secondary Issues
- Formal closing

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## 3. Strategies for Solutions (on flaps)

- What handling options are available?
- What are the possibilities of your own utility?
- Effectivity: How do they solve the defined issues?
- Are they realistic?
- How do they work out on the defined scenarios?
- Closing



**JAR** 

## 4. Decision making (on flaps)

- Scoring of alternatives for decision making
- Actions & Priorities
- Appoint SMART actions and designate the holders
- Appoint unsolved Problems
- Check on the original goals (right focus ?)
- Closing

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- Go back to the first stage and repeat.....
- Finally downscale the Crisis and end it up
- Do a hot debriefing
  - Arrange later an evaluation (often forgotten...)

## **Soft Skills**

#### Relevant Human Interactions in the Team(s)

- Speed of Discussion ?
- Decision making ?
- Right Sense of Urgency ?
- Focus on the right things: Causes or Effect ?
- Cooperation between the members ?
- Unproductive Dominancy ?
- Use of formal & informal available power ?
- Amount of Internal & External Communication ?
- Who's Decider, Figurehead, Spin Doctor, Worker, Advocacy?



## **Crisis Communication**

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Water Security Managem sessment. Research & Tec Effective Risk and Crisis Communication during Water Security Emergencies

SUMMARY REPORT OF EPA SPONSORED MESSAGE MAPPING WORKSHOPS



- Identify all stakeholders
- What are their interests & concerns ?
- Define 3 core messages
- Choose a experienced spokesperson
- Choose reliable media
  - Choose the right communication channels
  - Use the 27/9/3 methodology for statements

# **The 27/9/3 – rule for Effective Statements**

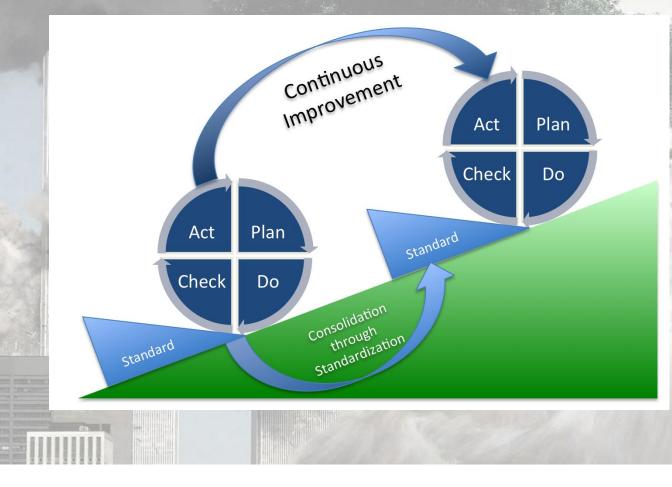
- The average length of a sound bite in the print media is 27 words
- The average duration of a sound bite in the broadcast media is 9 seconds
- The average number of messages reported in both the print and broadcast media is 3
- Quotes most likely to be used as sound bites contain compassion, conviction, and optimism
  - You better do not lie, but not everything has to be said...





## Exercising

#### **Demming Cirkel of Exercising**



Water Security Management Assessment, Research & Technology

WSMART

# **Exercising (overview)**

#### 1. Learning Points from previous exercises, incidents or crisis

#### 2. What are the best goals for a next exercise ?

- Logistics & Facilities ?
- Analyses of the Situation ?
- Strategy for Solutions ?
- Decision Taking ?
- Soft Skills ?

#### 3. What is the right kind of exercise ?

- (Semi) Table Top (focus on soft skills & procedures)
- Multi Entity (focus on cooperation with stakeholders and authorities)
- (Semi) Live (focus on technical skills)

#### 4. Logistics, Teams, Facilities

- Area, Rooms, Catering, Phones, Flaps, Data....
- CMT, IMT, Exercising Staff, Response Board, Observers, Externs, Authorities

#### 5. Making the Plot, Script, Timeline, Injections

- Information & Interventions
- 6. Briefing, Go!!!, Debriefing

#### 7. Reporting

# **Exercising (Skills)**

#### Soft Skills

- Improve
- Calibrate
- Eliminate
- Test
- Check
- Understand
- Analyze
- Examine

- Decide
- Ensure
- Communicate
- Control
- Validate
- Change
- Demonstrate
- Restore

## **Exercising (Scope and Caracteristiscs)**

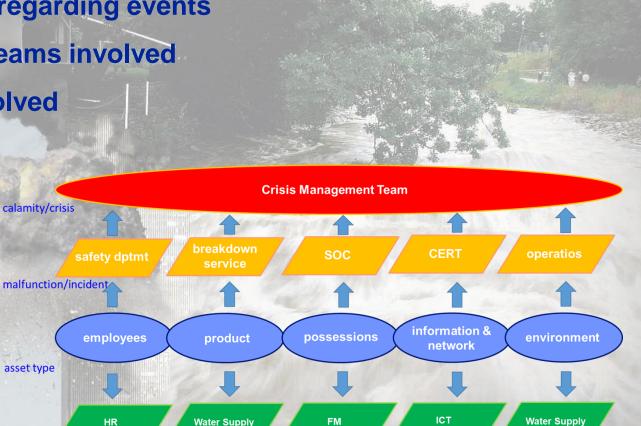
Full Scale - Semi Live - Field Exercise

Level of surprise regarding events •

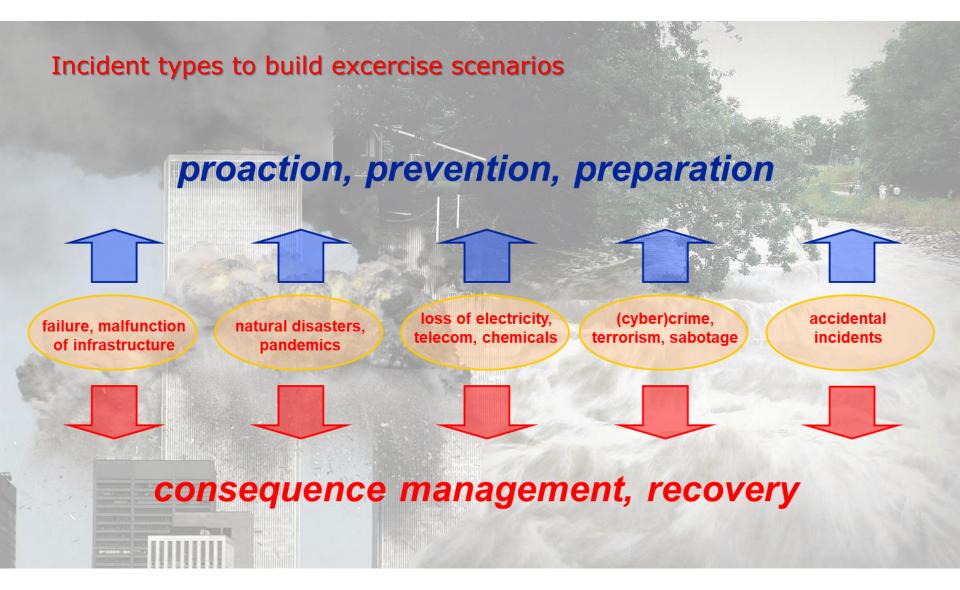
asset type

proces owner normal operation

- **Employees and Teams involved** •
- **Stakeholders involved** •
- Assets involved : •



## **Exercising (Threat Categories)**



#### **WSMART Exercise Preparation**

# **Exercising in Crisis management**

CILE Liège Eric Adamse W-SMART Taskforce Emergency Training & Exercising

