VoiceGuard
Public Warning and Notification System
COLSYS
Professional tool for protection of human lives , health and properties

Introduction

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COLSYS s.r.o.

- Czech ownership
- 26 years on the market
- Experience with WIS - more than 10 years
- 230 employees
- 33 mil. EUR revenue

PROTEKTA d.o.o.

- Local partner

Modern Warning and Information System against Floods, Chemical Accidents and other Emergencies - Czech Experience

by Leos Nevole, Colsys s.r.o.

Content

1. THREATS
2. DESCRIPTION OF THE SYSTEM
3. BENEFITS AND FINANCING

Threats

Natural disasters

- Phenomenon of last decades - climate changes

Threats

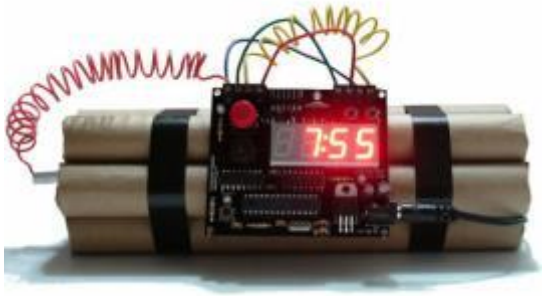
Industrial threats

- Leakage of dangerous substances

Threats

Terrorist threats

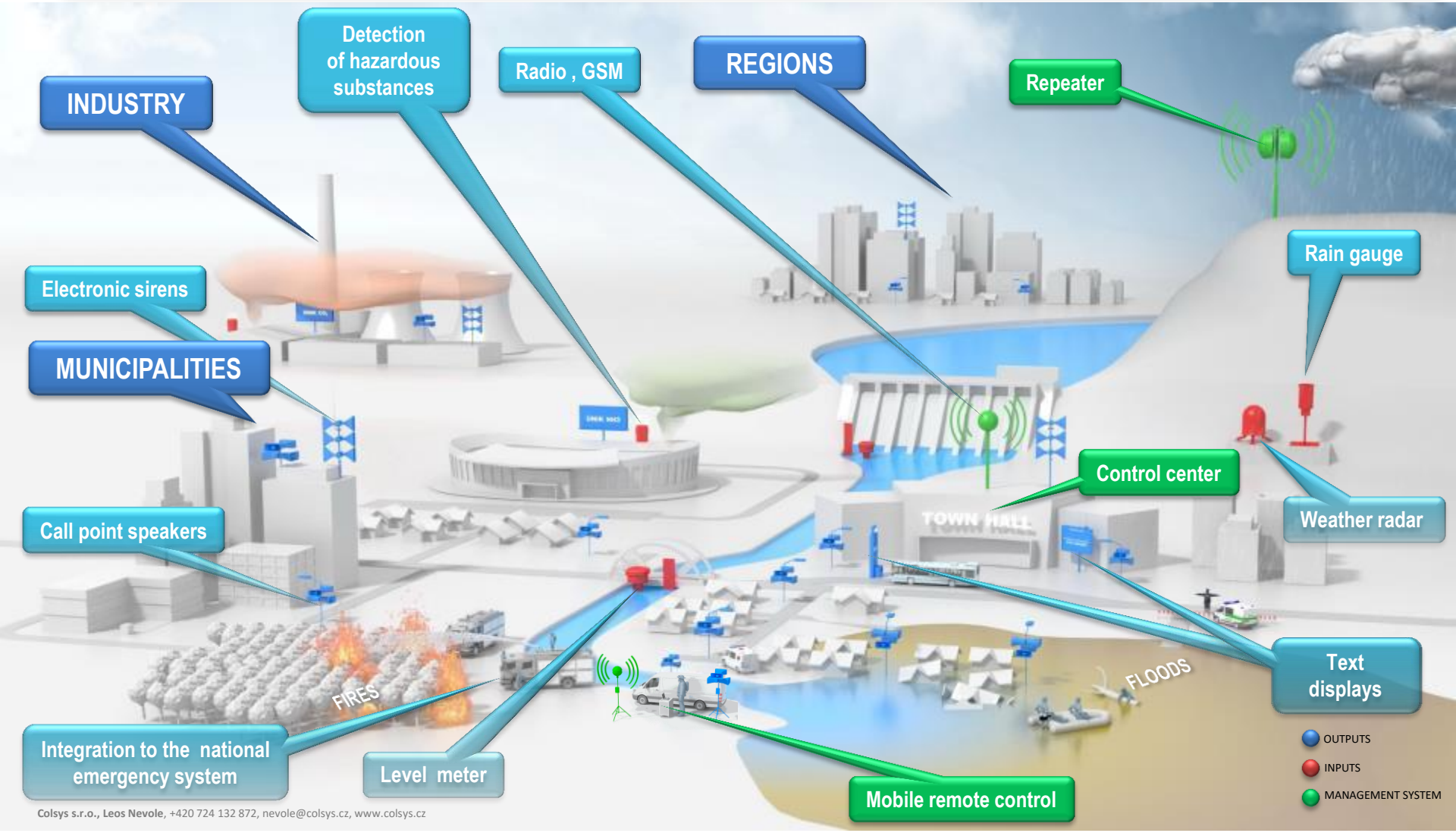
- Alerting and informing in case of an terrorist attack



Consequences

- Losses of human lives
- Significant economic losses
- Blackouts
- Failures of GSM networks

System Overview



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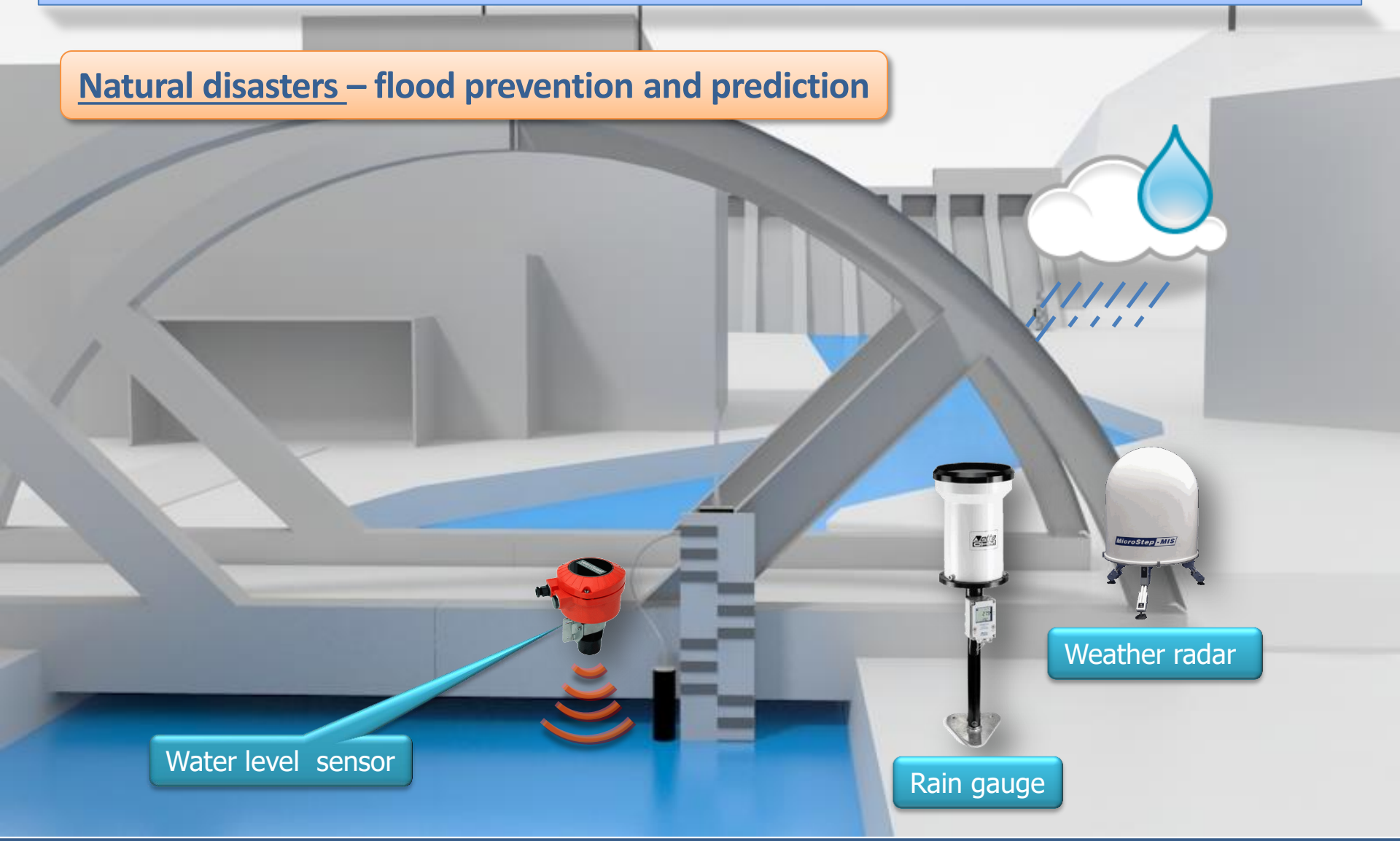
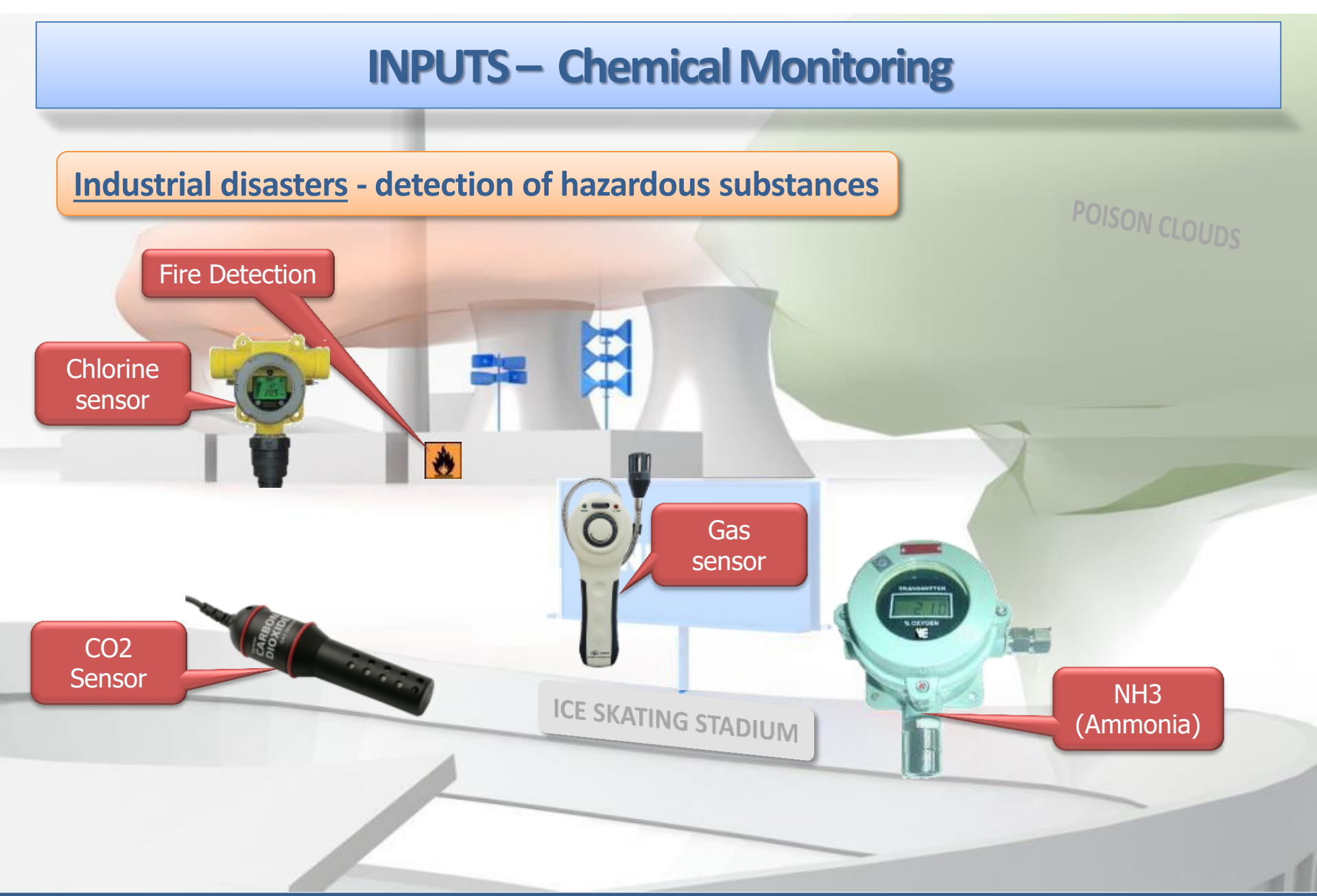
INPUTS – Environmental Monitoring

Natural disasters – flood prevention and prediction



INPUTS – Chemical Monitoring

Industrial disasters - detection of hazardous substances



OUTPUTS for Alerting and Notification

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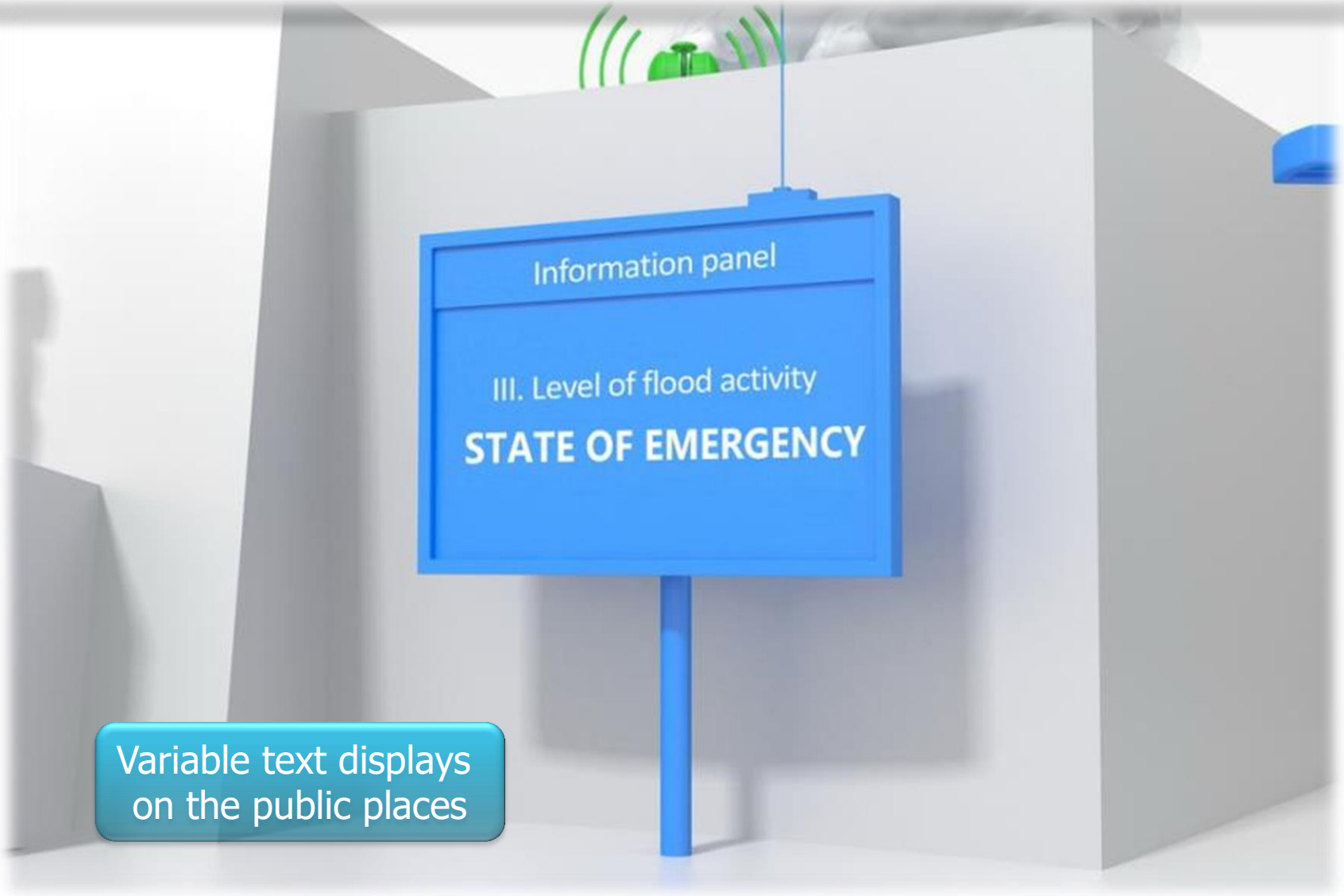
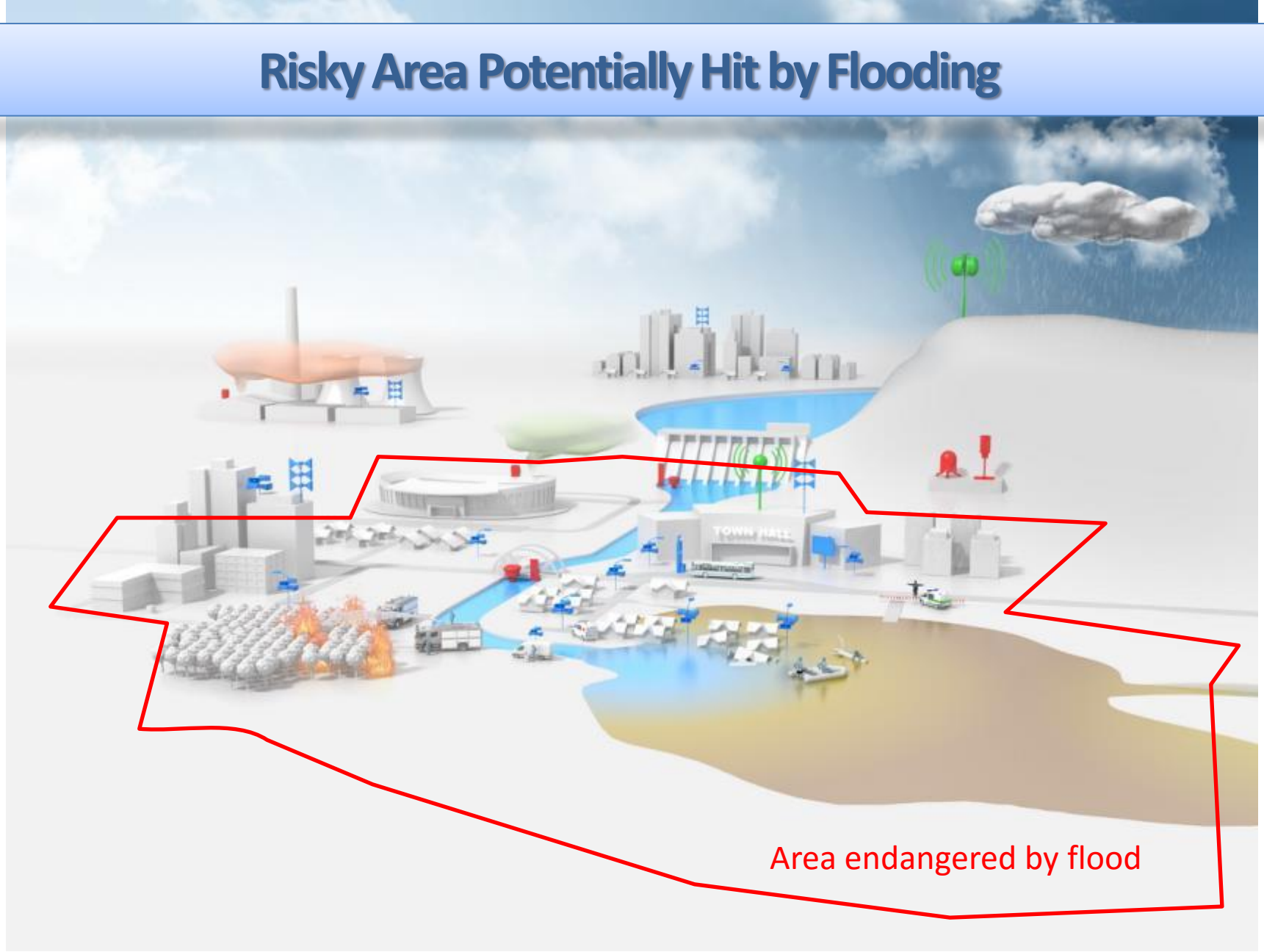


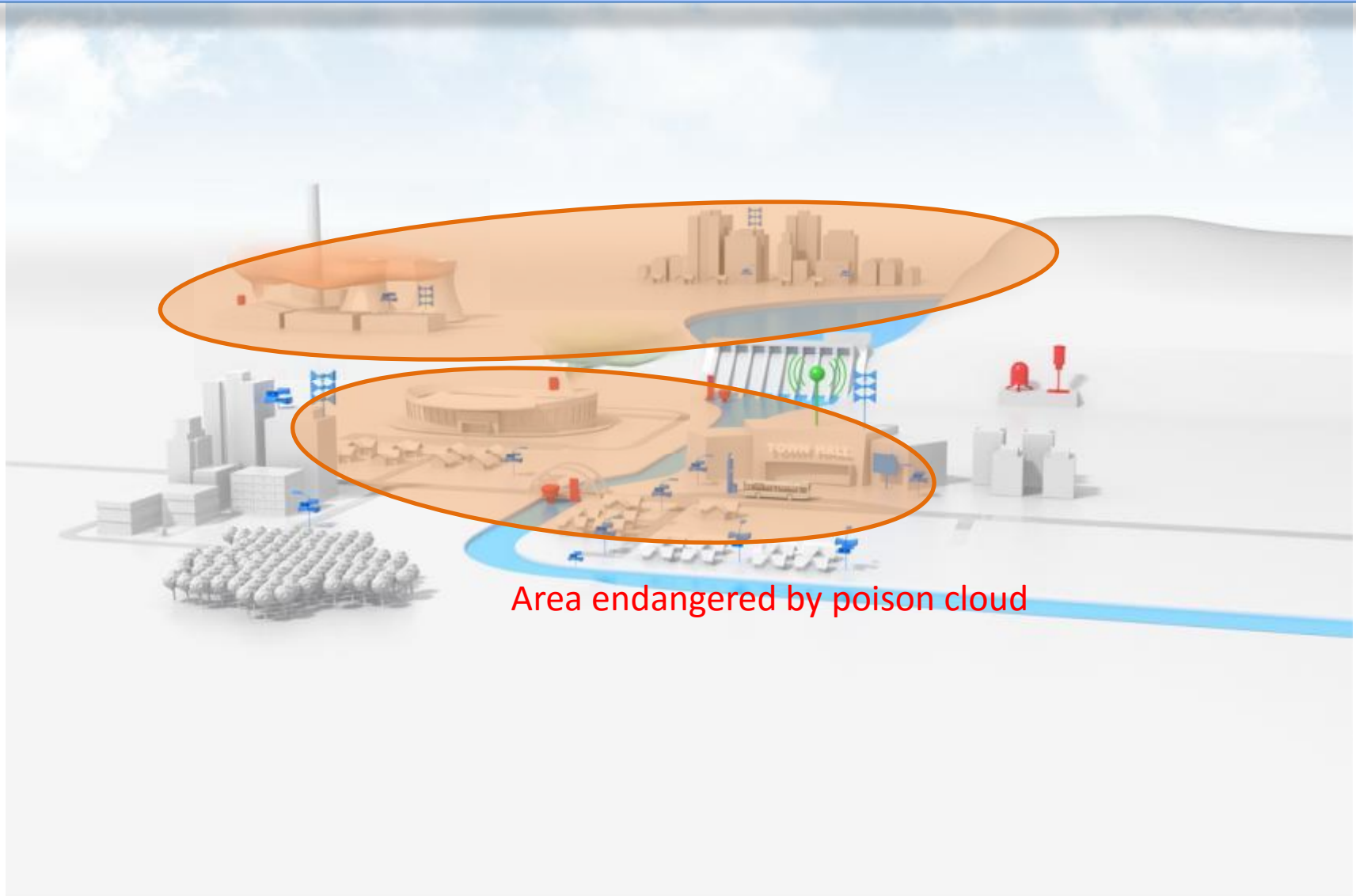
Variable text displays on the public places

OUTPUTS for Alerting and Notification

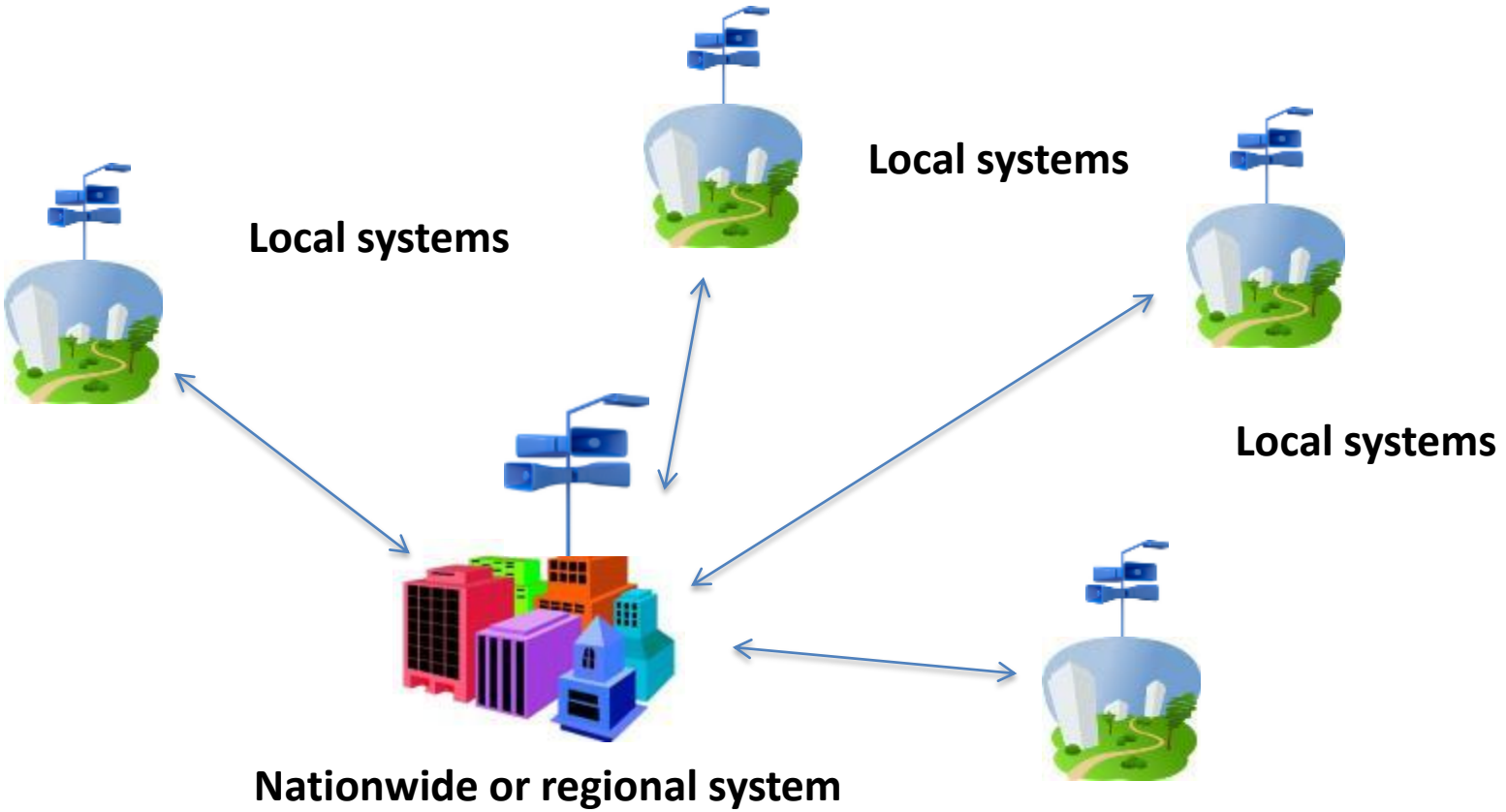
Risky Area Potentially Hit by Flooding



Risky Area Potentially Hit by Poison Cloud



Levels of the Warning and Information System



Operational Center

- Emergency operational center

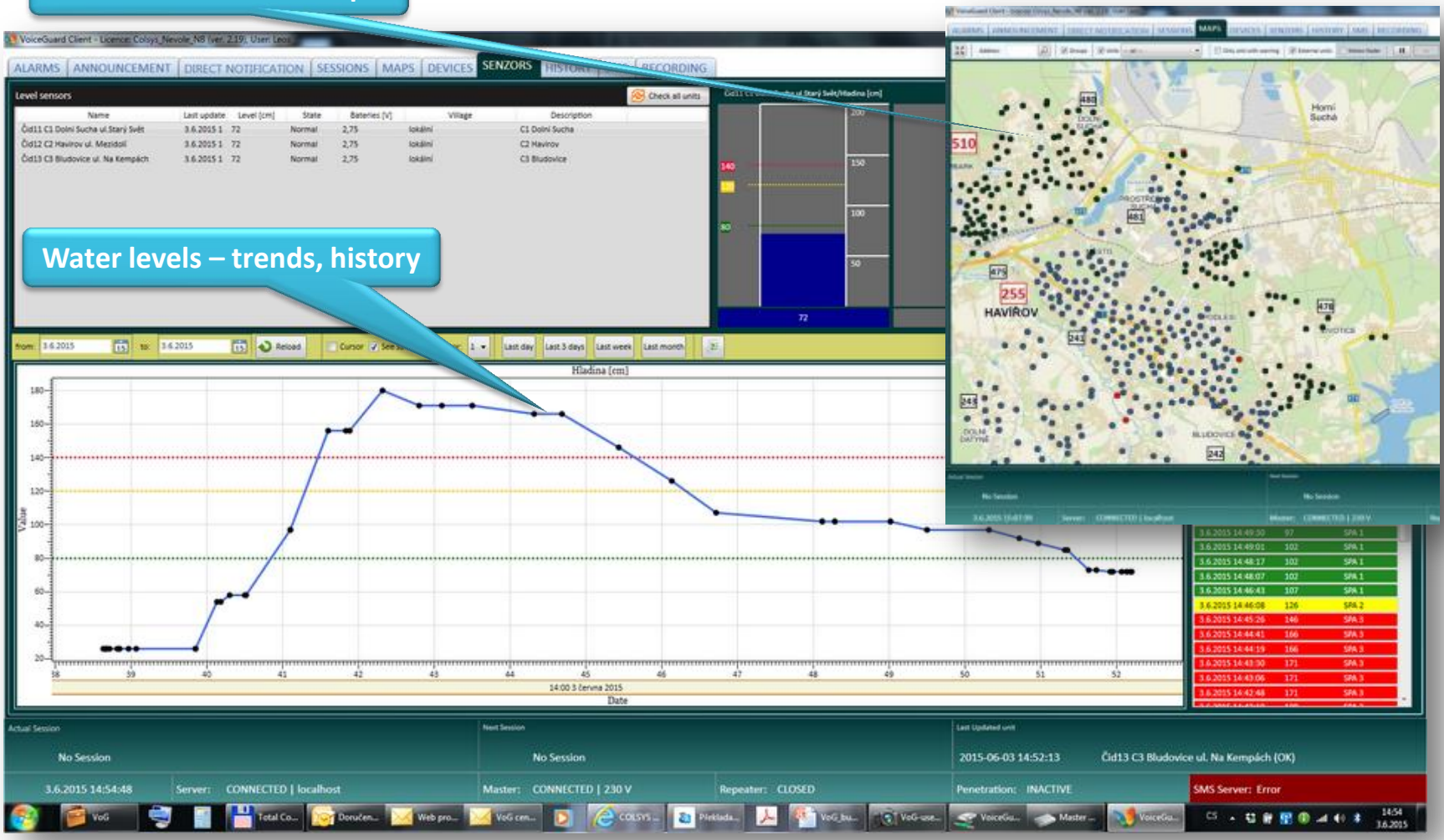
- single client

- master unit

Management System Interface

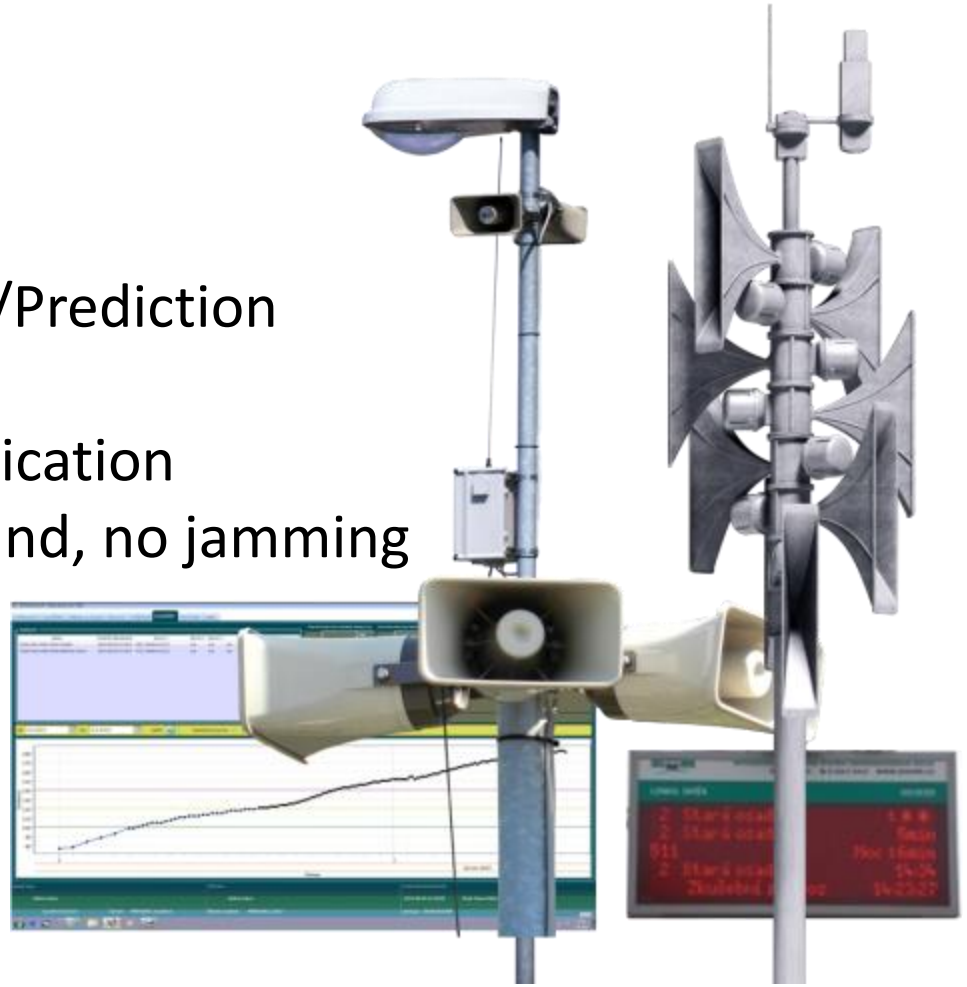
On-line info on the maps

Water levels – trends, history



Main Features

- Monitoring/Prevention/Prediction
- Zoning/Targeting
- Wireless radio communication
- Dedicated frequency band, no jamming



Benefits

- professional tool for protection of human lives , health and properties
- in advance early warning
- high quality and understandability of verbal warning information
- independent on commercial networks (e.g. GSM)
- on-line operational information and alarm data
- integration to the national early warning system
- can be used as municipality voice information system

Users & Financing

- **Typical users:**
  - Municipalities
  - Regions
  - Dam administrators
  - Emergency services
  - Industry

- **Financing, grants**
  - In the Czech Republic 70% subsidy from EU funds

REFERENCES in the Czech Republic

- **over 300** installations in municipalities and industry sector
- Sales **18mil. Euro**
- IVVS Zlin Project
  - regional application
  - **390k** population
  - **13 integrated local WIS**
  - **2068** call point speakers
  - **30** sirens
  - **53** water levels
  - **1** meteo radar

Call for Action

- Preliminary feasibility study
  (Technical report, specification, map, schematics and rough budget)
- FREE for the first five serious candidates!

Thank you for your attention

Any questions?