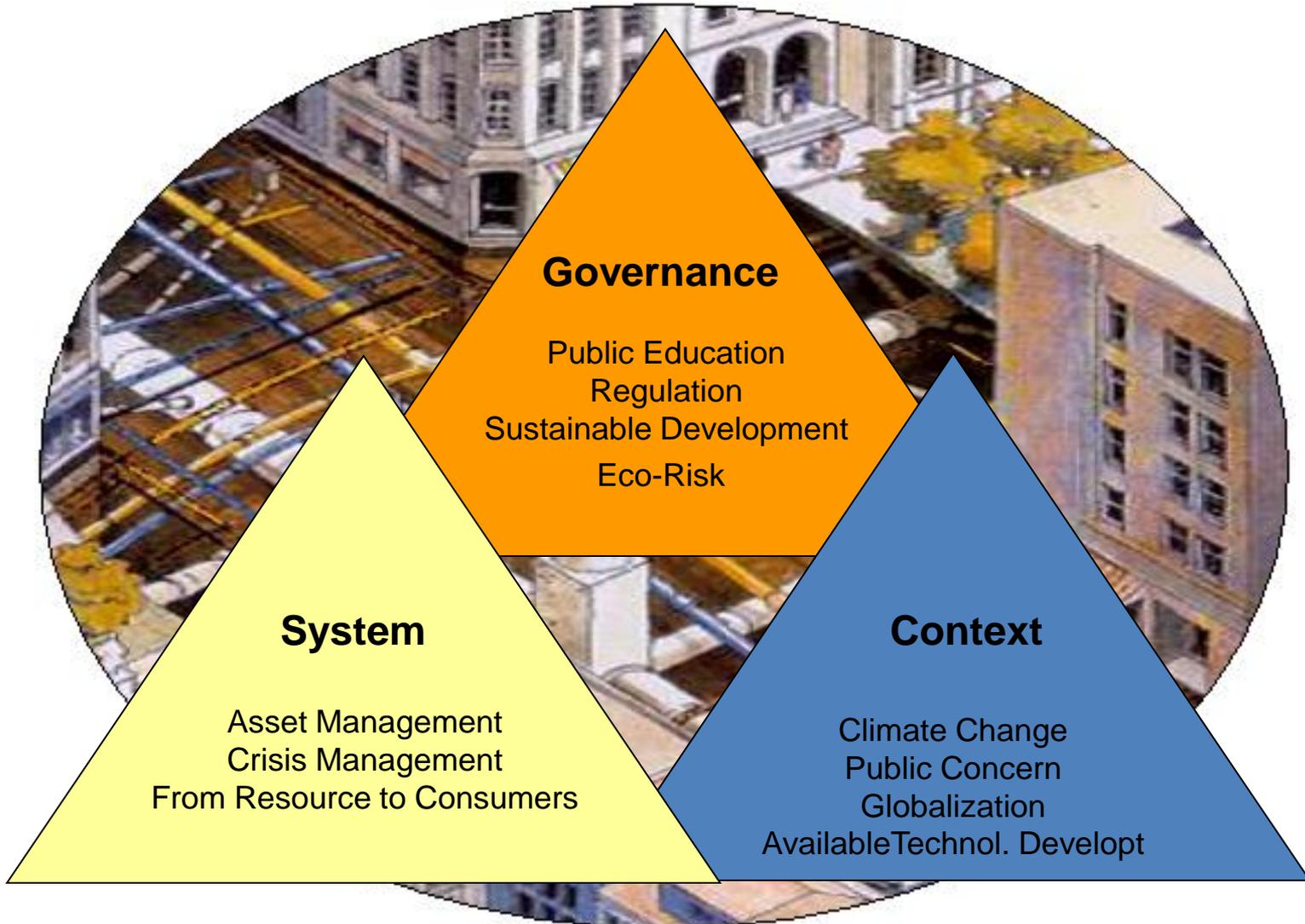




# Strategic Assets Management for Integrated Security, Safety & Sustainability

May 13, 2011 Den Haag

Bruno Nguyen, Director of Operation, Eau de Paris



***Risk analysis: Cross assessment of 3 dimensions System-Context-Governance***

## THE CLEANSING DEPARTMENT OF PARIS

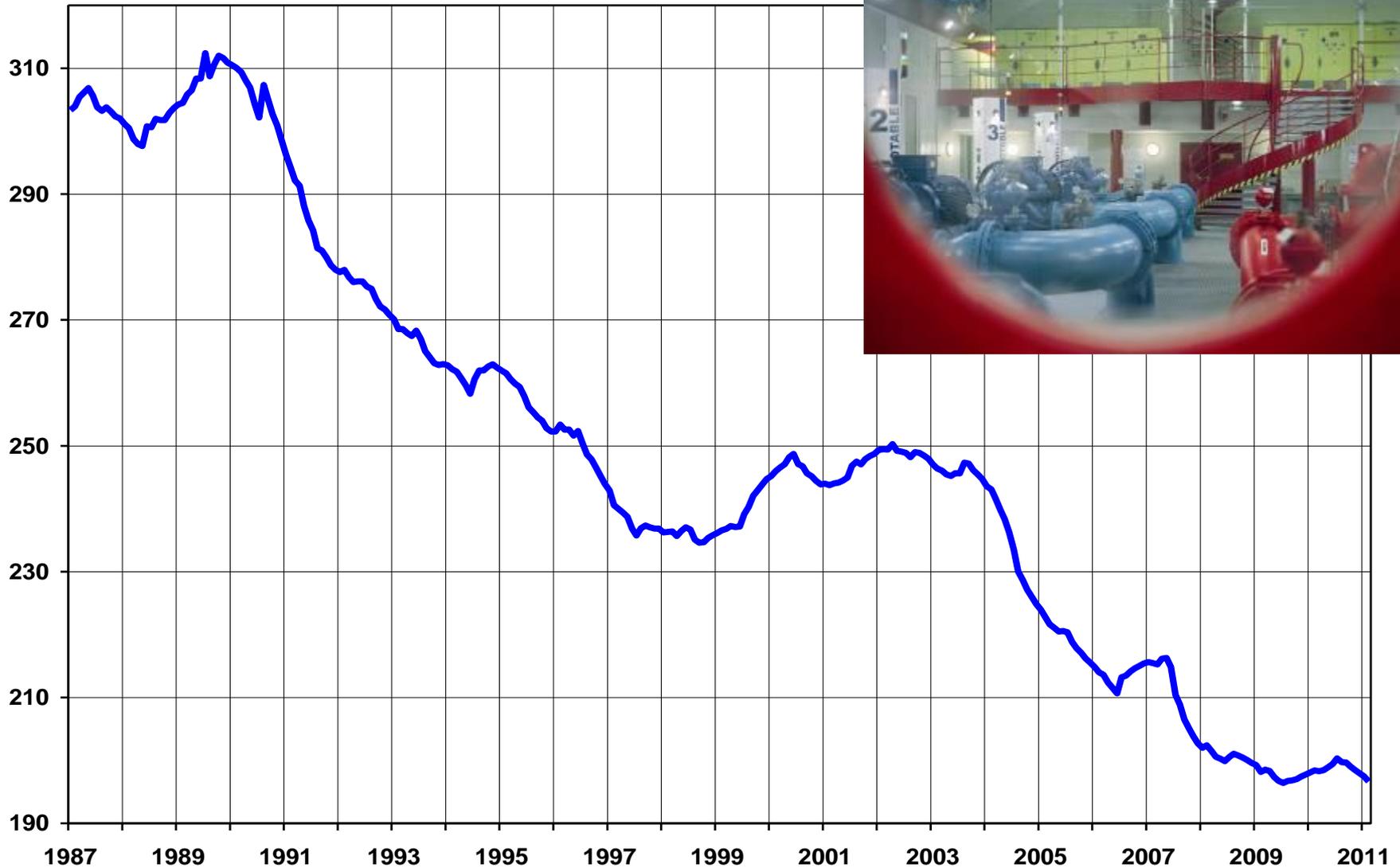


12,000  
Washing  
Outlets



## Drop of production volumes since 1990

Millions de m<sup>3</sup>



**Growing public demand** for reliable, affordable, safe, and environmentally sustainable metropolitan systems.

**Rising concerns** with regard to growing threats and uncertainties of climate change impacts.

**Urban Challenges** of economic globalization, growing environmental concerns, increasing financial constraints in public infrastructure investments.

**Growing needs** for promoting priority issues and concerns of local governments at the global and/or national level to effectively affect current trends in emerging environmental sustainability policy and regulations



*Natural Disaster – Tsunami Indonesia*



*Smart Buildings for Sustainable Energy*

## What is the limitation of the current state practice and the business case for Smart Grids ?

- Optimization of **Operational Management** (operator's performance)
- Redefinition of **Asset Management** – best choice with uncertainties assessment (operator's performance)
- Efficient **Master Planning** – best investment in larger context prevision (system performance)

## What are the challenges and priority needs for which Smart Grids is useful ?

- **Water losses** reduction in the distribution pipe network by active leakage detection and repair;
- **Pipe burst** prevention and reduction of their social costs by efficient renewal of the conduits;
- Reduction of **water quality** defaults identified by sampling analysis and customer's complaints;

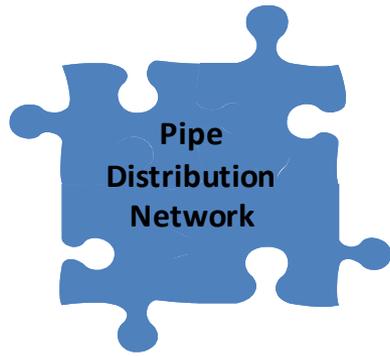
## Strategic Assets Management for Integrated Security, Safety & Sustainability

### GOAL:

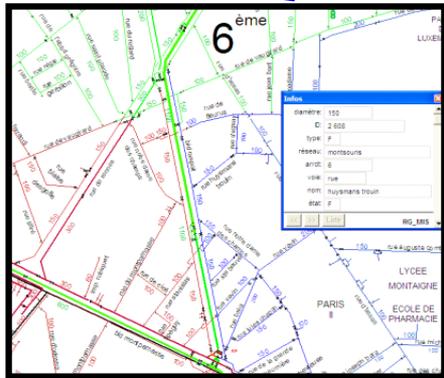
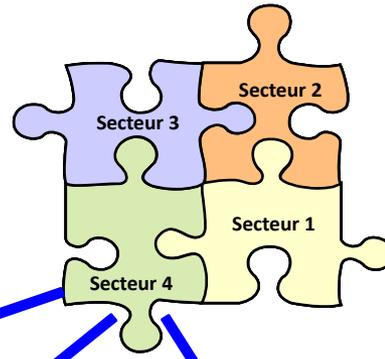
*Development, Assessment & Demonstration of Intelligent City Network Models, Innovative Technology Solutions & Smart Infrastructure Management Systems for Upgrading the Reliability, Efficiency, Resiliency, Security, and Eco-Sustainability of Critical Urban Systems.*



*Facing Emerging Challenges of Eco-Sustainable Urban Development*



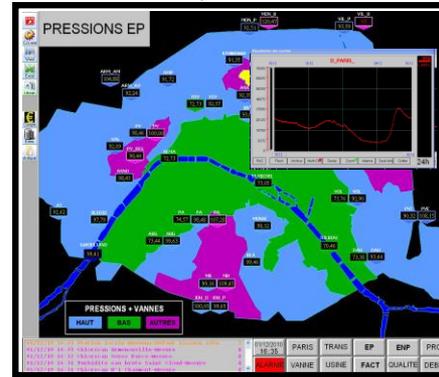
DMA



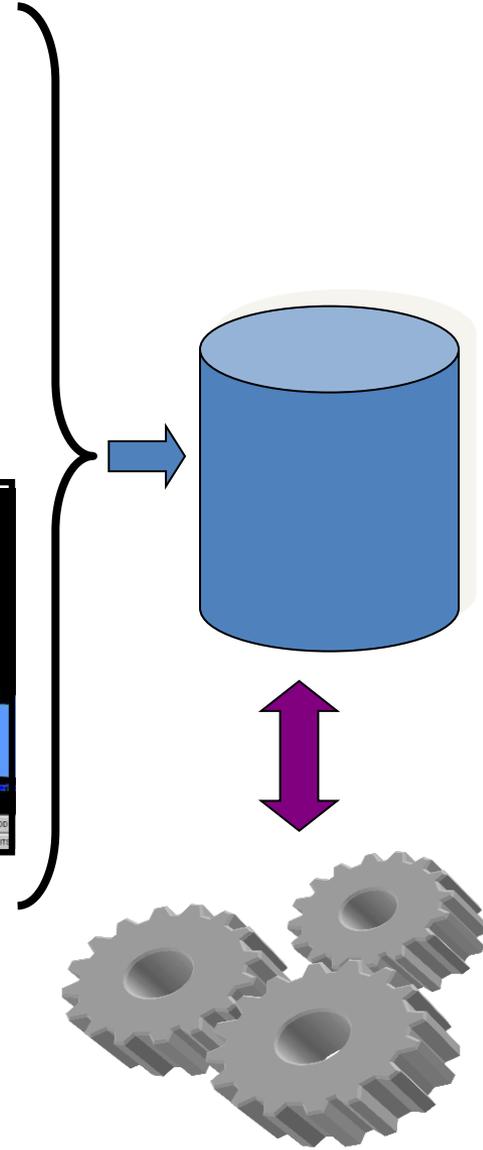
GIS



AMR



SCADA



## Roadmap

- **Added values** for short, medium & long term ?
- How to **benchmark** ? Which indicators ?  
(economic, ecologic, sociologic...)
- Development of **integrated system modeling**
- Where to **start** ?



Pour tout savoir sur l'eau potable à Paris ?

All'eau de Paris



N Indigo 0 820 012 012

Thank you for your attention

