





Design for water: wise cities – Performance contract cases in Brazil

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# Cities are facing increasingly challenging environments



50% of global population lived in cities in 2007

66% will live in cities in 2050



**Competing** to attract visitors, residents, businesses & investments

**Globalization** has internationalized the competition



**Budget** constraints due to the economic & financial crisis

Higher expectations of the population in terms of budget management and governance / transparency

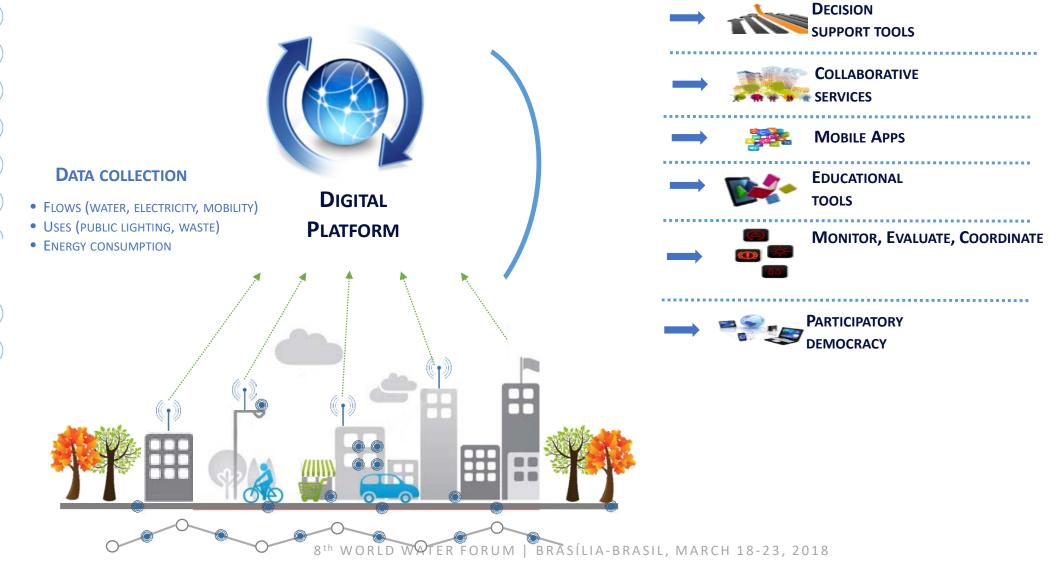


Citizens expect real improvements in their quality of life

**Urban space** as a place for personal development and entertainment



# Towards smart cities





## Context – Water loss

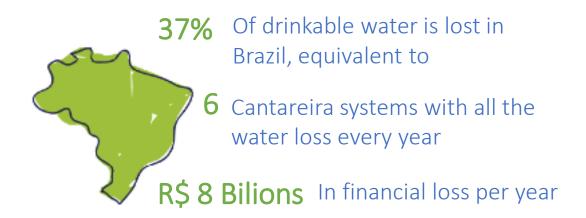
### Today non revenue water represent:



35% Of drinkable water in the world

**9 Bilion** M³/ year of water

US\$ 14 In financial loss per year Bilions





# Benefits of performance contracts



Audit and project; Implementation of Infrastructure; Implementation of the Loss Reduction Program.



Long term benefits

#### Sucess stories in for all contracts

Atractive for the market

### Optimized management processes

repair, etc.

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# Performance contract

Two diferent phases to certify the sucess with performance option Phase 1

#### Study

- •Ensures an appropriate response to the needs and characteristics of each specific case through:
  - Definition of the minimum scope and steps to be followed
  - Estimating cost of services for the minimum scope
  - Estimation of the potential for recovery of losses in water volume and reduction of maintenance costs with the system

#### Phase 2

### Implementation of the contract

- Phase pre operation
- Implementation of Minimum Scope **Interventions**
- Complementary studies
- Settings

- Performance score
- System Monitoring
- Variable remuneration

Contract remuneration

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# Preformance contract of SUEZ in Brazil



## 8 performance contracts (loss management)



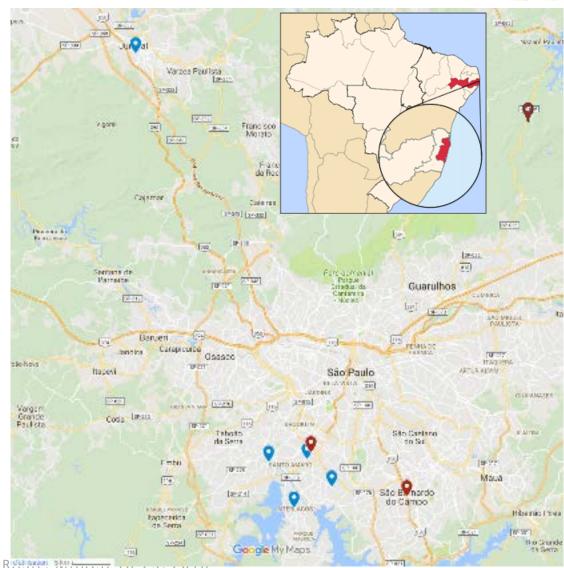
#### On going contracts:

- 1. Chácara Flora 2, São Paulo
- 2. São Bernadro dos Campos, São Paulo
- 3. Olinda, Pernambuco



#### Sucessful contracts

- 4. Chácara Flora, São Paulo
- 5. Vila Cacilda, São Paulo
- 6. Americanopolis, São Paulo
- 7. Jardim São Luís, São Paulo
- 8. Interlagos, São Paulo





## **Emblematics Case studies**

## JARDIM SAO LUIZ – SAO PAULO (BRAZIL)



#### Water loss reduction

Optimization of the water supplyin Jardim São Luiz in the South and West sectors.

- Number of conexions~ 164.000
- Approximate population~500.000
- Network extension ~1.000 km

#### Water economy

- Target: 680.035 m³/mês
- Obtained: 1.029.998 m<sup>3</sup>/mês

### **OLINDA (BRAZIL)**



#### Water loss reduction

Renew and recover assets, implement DMA's with telemetry in Olinda city

- Number of conexions ~ 74.000
- Approximate population ~245.000
- Network extension ~426 km

#### Remuneration

- Goods and services + Bonus; revovered water
- An expected reduction of 48.500.000 m3 in 4 years



# Thank You very much



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