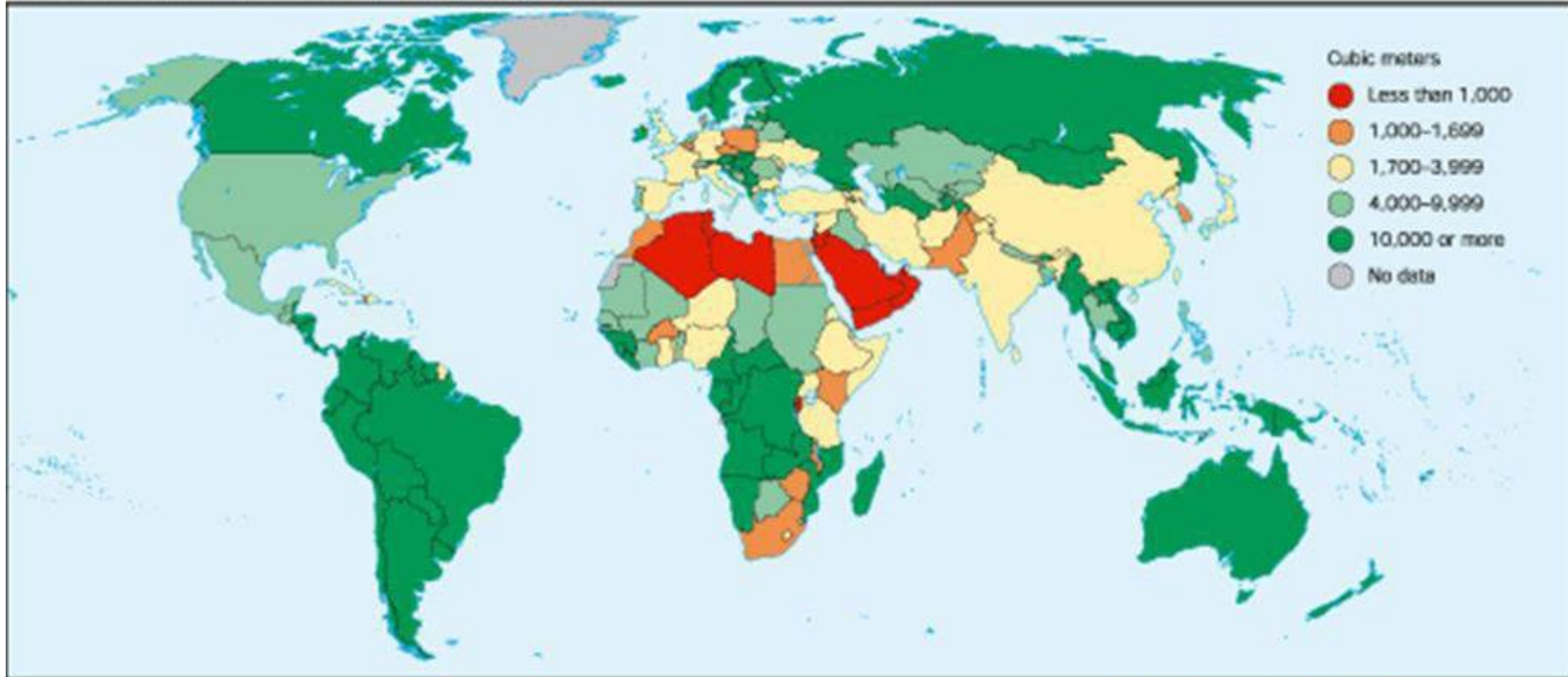


CASE STUDY – SAO LUIZ SECTOR SAO PAULO / BRASIL

Non Revenue Water Management Technologies

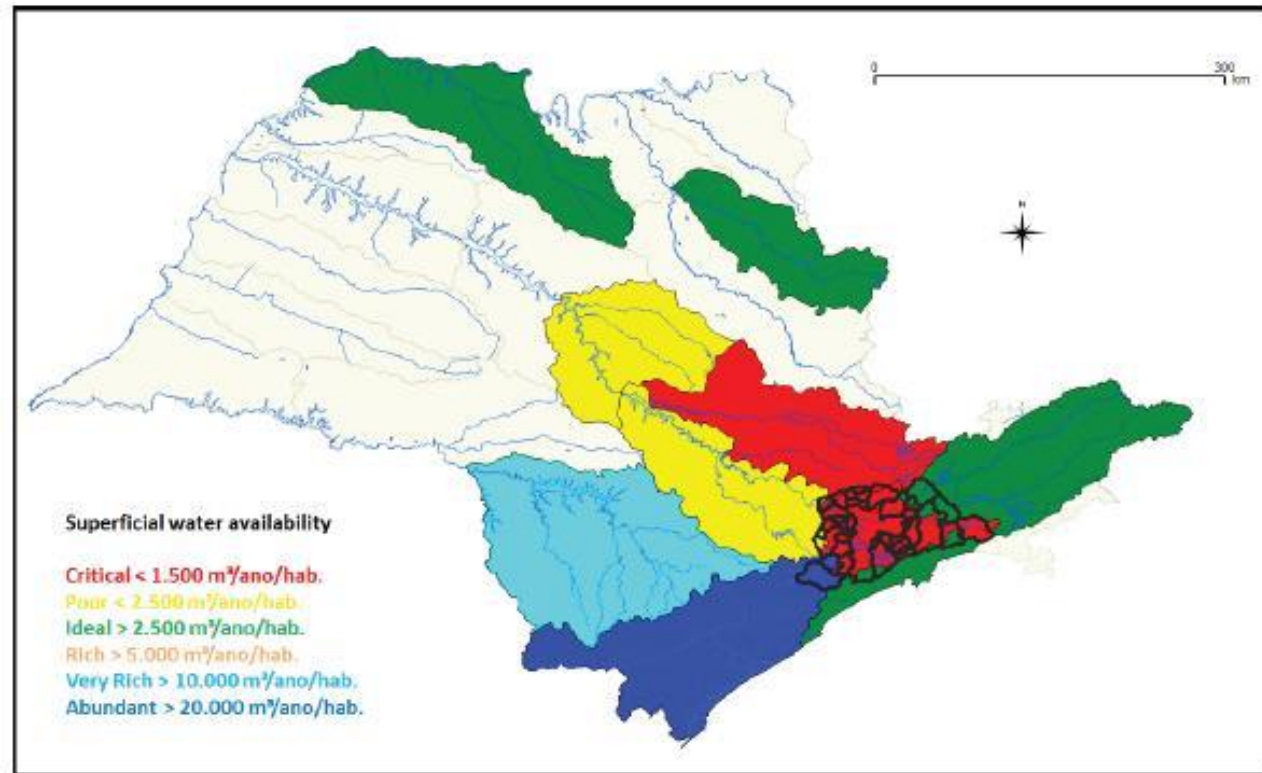
CRITICAL SITUATION IN SAO PAULO

Freshwater resources per capita, 2000



FONTE: WORLD BANK ATLAS

CRITICAL SITUATION IN SAO PAULO



Fonte: Adaptado de DAAE. Hidrografia da CPRM (www.cprm.gov.br/) Bacias de ANA (www.ana.gov.br/) e shapefiles RMSP a partir da página do IBGE (www.ibge.gov.br/).

CRITICAL SITUATION IN SAO PAULO



Fonte: CBH-AT (2014)

OPTIMIZATION OF THE WATER SUPPLY SECTOR JARDIM SÃO LUIZ - SABESP

• Sector Numbers

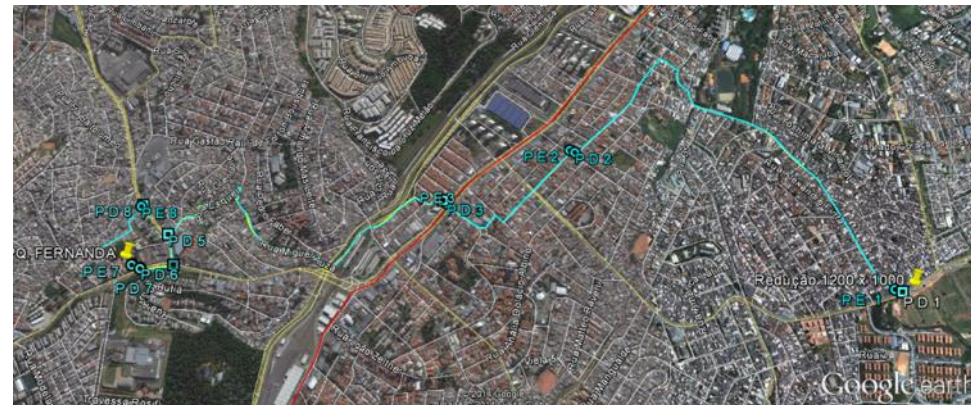
- Number of connections ~ 164.000
- Population ~500.000
- Mains extension ~1.000 km

• Deadline for implementation

- 18 months

• Water Loss Savings

- Goal: 680.035 m³/month
- Savings: 1.029.998 m³/month



1ST PHASE – INFRASTRUCTURE WORK

- Installation of 5 km of bulks mains (700 and 800mm) and a 15,000 m³ metal reservoir;
- New Pump Station with **SCADA and variable frequency drive**



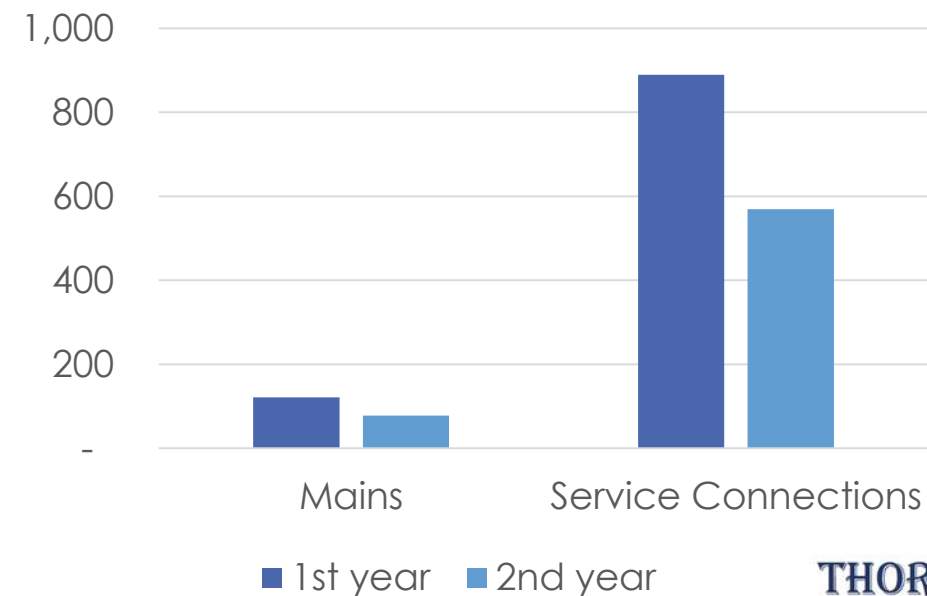
2ND PHASE – LOSS REDUCTION ACTIONS

- Sectorization of the distribution system (1,553m of new mains with permanent monitoring through **data loggers and telemetry**)
- Implementation of 16 PRVs with **advanced control and telemetry**
- Leak Detection using traditional acoustic methods and **advanced data logger technology**



REDUCED BURST FREQUENCY

Unreported Bursts	1st year	2nd year
Mains	121	78
Service Connections	889	569
Total	1.010	647
Nr of bursts / km	1,01	0,65
Burst frequency Reduction	-36%	



WATER SAVINGS

