VIV/VIS



Water Network Advanced Management and NRW Management



Director of Water Technology



WATER SOLUTIONS

Water Network Advanced Management and NRW Management

- **VIVAVIS**
- Challenges in Water Operation
- Solution for Advanced Water Management Systems
- What is AWM/NRW Non Revenue Management
- NPM Network Planner and Manager
- Live Demo of NPM









Challenges in Water Operation



NRW Non-Revenue Water

Water Losses (Physical and Commercial)



Operation Costs

(Energy, Operation, Maintenance)



Malfunctions

in the Network



Pressure Instability

High Pressure or Pressure Drop



Limited Water

Resources



Consumer Complaints

Service, Water Quality



Variable Consumption Demands

Nighttime, daytime, and seasonal consumption (summer, winter, holidays)



Non-digital and Unknown Assets in the Network

Ineffective intervention and management deficiencies



Lack of KPI System for the Overall Operation Status

Performance of the operation



Lack of Decision Support Systems

Operation planning investments



Lack of Unified Management Platform

Integrated with expert systems

Solution for Advanced Water Management System?



Digital Twinned Infrastructure

Pipe Network and Facilities



Modeled and Simulated Network

Operation Plans



NRW Non Revenue Water Management

DMA - District Metered Area



Operation and Energy Efficiency

Production and Distribution



Resource Management

Supply and Distribution



Reducing Malfunctions and Extending the

Economic Lifecycle of Infrastructure and Assets



Driving operational improvements

Refining Operational Planning



Advanced Event Management

Reporting, Anomaly Detection, Al-Driven Data Analytics



KPI Based Operation

Operational KPIs, Water Loss KPIs (ILI - Infrastructure Leakage Index, LPC - Leakage Performance Category, Loss/km/day, Loss/connection/day, etc.)



Unified Management Platform

Collects real-time data from various expert systems SCADA, GIS, HMS, AMR, AM, WFM





MNF (120m³/h) · 100











Live Demo Loading...







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