

## **Water Management Division**

*Implementation of NRW Reduction Program  
in the Distribution Network of ATI 3 Valle Umbria Servizi*

Innovative solutions for water  
and energy efficiency



## Customer: ATI 3 Umbria

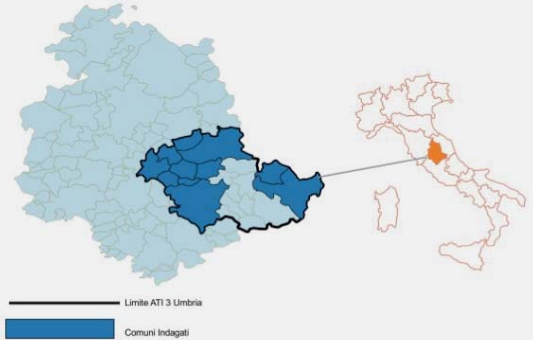
Location: Spoleto and other municipalities (Italy)  
Budget: 620.000 €

Year : 2015



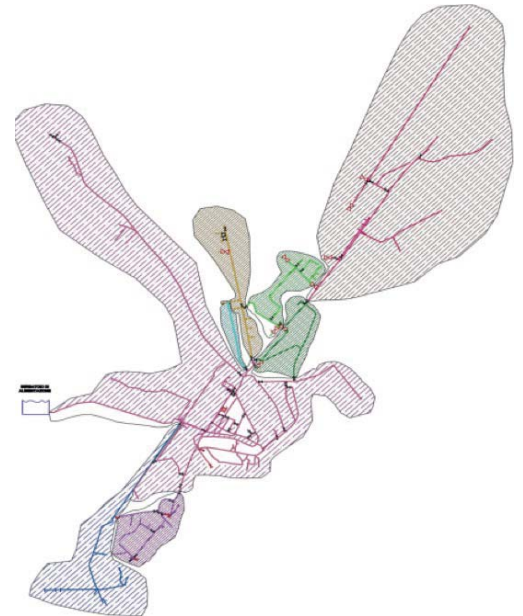
## PROJECT OBJECTIVES

- Leakage reduction
- Pressure optimization
- Operation & Maintenance plan



## PROJECT TASKS

- Water network preliminary analysis and study of the hydraulic scheme
- Topographic survey and GIS
- Measurement of flow and pressure
- Design and implementation of Pressure Control
- Air Control Interventions
- DMA (District Metering Area) design and implementation
- STEP TEST Analysis to find most critical areas
- Leaks detection and pinpointing
- Repair Strategy and measurement of water recovered



## RESULTS

- Water recovered: **135 l/s (4.257.360 m<sup>3</sup>/year)** equal to **63% of leakage**;
- **850.000€ /year** saved

Equivalent to the water consumption for **77.000 people**

