ACTUAL, ACCURATE & RELIABLE DATA

• Actual data collected from connected meters & devices “on the fly”
• Configurable frequency of data messages per day, based on the need to obtain metered values (consumption, pressure, temperature etc…) or current status of devices, meters or monitored objects
• Elimination of human errors

DIFFERENT SOURCES

• Collecting, processing & analysing data from various water utility elements through IoT devices (sensors)
• Water meters, water sources, water distribution hydrants, sewage network, pumping stations, other water utility objects and assets

DEVICE MANAGEMENT

• Add, delete, change & configure the IoT devices
• Adding several description and information fields to each device (metadata assignment)
• Add starting consumption value for each connected water meter
• Group, filter and batch operations with all IoT devices on one place

OPERATOR & CONSUMER PORTAL

• Overview of all devices, their actual status, location and last (consumption) values they sent
• Daily water consumption evolution and daily, weekly and monthly averages per consumer
• Grouping of devices to see summaries & identify non revenue water (for example losses per district)

MORE USE CASES BRINGING MULTIPLE BENEFITS

• Use cases applicable for several water utility business and operations segments with benefits for the water utility companies as well as water consumers
• Replacement of manual meter reading, water loss & leaks detection, unauthorized water consumption identification, objects and assets status monitoring and actual consumption info and analysis for consumers
• More actual, accurate and reliable data, increased operational efficiency, possibility to offer new services for consumers and higher customer satisfaction
TECHNOLOGY

CERTIFIED DEVICES
• Various types of certified connected IoT devices with up to 10 years battery life available
• Reading sensors for most used water meters, no need to change installed meters
• Ability to read forward & reverse water flow
• Water level sensors, water flow metering, flooding sensors, fire detection sensors, hatch open/close sensors, people detection sensors, pressure and temperature sensors available
• Simple and fast installation, support during the device lifetime

SIGFOX / LPWAN NETWORK
• Simple network in non-licenced band (868 MHz), low power demand, very good penetration and coverage
• Limited amount of transferred data allowing to communicate with many devices from one base station
• Authentication of communication with each device
• Encrypted communication in ultra narrow frequency bandwidth with frequency hopping – high security and noise resistance

LOTT IOT APPLICATION SOFTWARE
• Multi-tenant and multi-vendor architecture
• Scalable and flexible infrastructure for advanced data analytics
• Modern & responsive web based user interfaces supporting access and consistent look & feel from PC and mobile devices

INTEGRATION & RELIABILITY

INTEGRATION
• Ready for integration with existing systems used by the water utility companies:
  - Customer Information Systems
  - Operations Management / Dispatching Desk systems
• Synchronisation of consumer, devices inventory and consumption data with existing systems
• No changes in usage of the existing assets inventory and customer invoicing processes needed

AVAILABILITY AND RELIABILITY
• Available in private cloud (preferred), on-premises installation possible
• Compliant with security and data privacy standards
• 24x7 monitoring and support provided
• Tailored SLA