



## **INTRODUCTION OF THE SOFTWARE SOLUTION**

By integrating multiple utility data sources, Itron's Water Operation Management solution provides a holistic view of your water distribution operations, enabling you to gain insights and additional value from your existing data and systems. With the Operational Visibility solution, Itron integrates data from field sensors, SCADA, hydraulic modelling software, geographic information systems (GIS), and customer information systems (CIS) into a single platform that visually presents relevant available information of the water supply system. When these technologies converge, they greatly reduce the time and effort needed to gain insights and act.

## **OPERATIONAL VISIBILITY MODULE**

Water Operational Visibility Module will be delivering results in a dashboard :-

1. Automatic DMA wise/Zonewise Water Balance (Monthly/Weekly/Hourly)
2. Automatic Segregation between Real & Apparent Loss
3. Online demand forecasting of Pressure & Flow for next 48 hours
4. Event alarms related Pressure, Flow, Water Quality and Tank Water levels based on actual sensor data and forecasted values with data intelligence.
5. All information of project area with DMA boundaries on Google API layer or GIS Layers on single screen.

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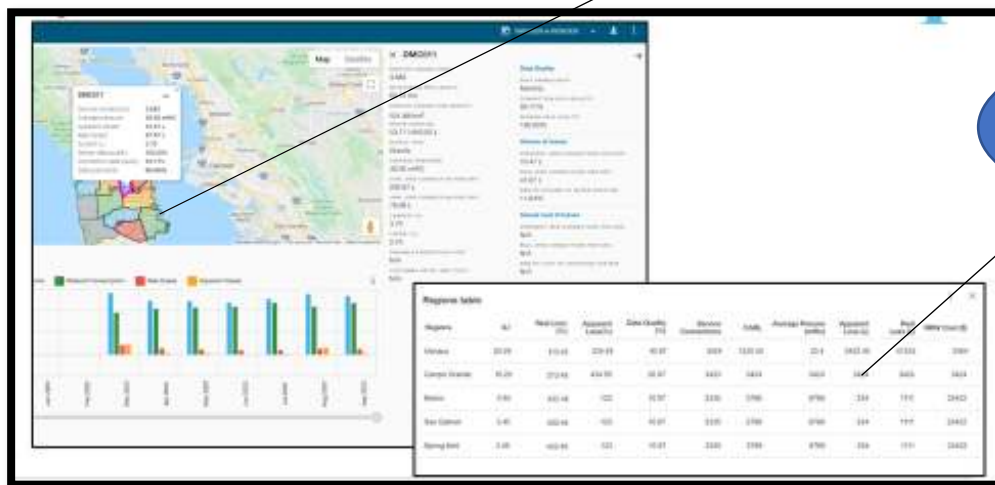
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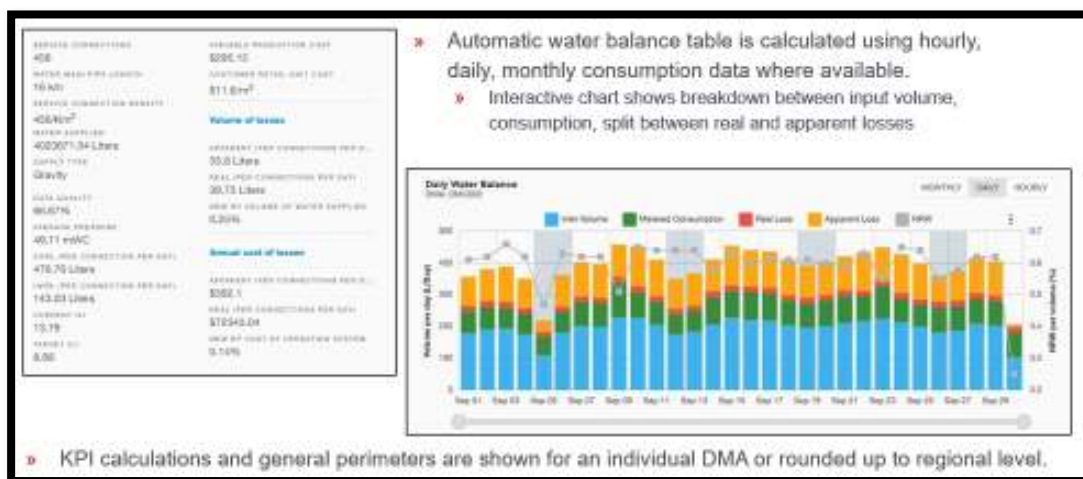
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DMA view with color codes based on water loss



DMA Parameters/KPIs



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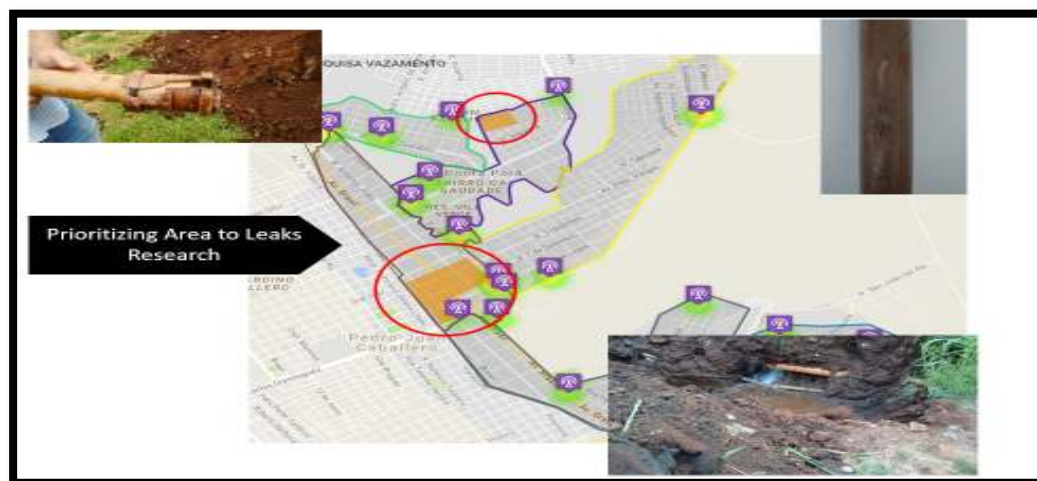
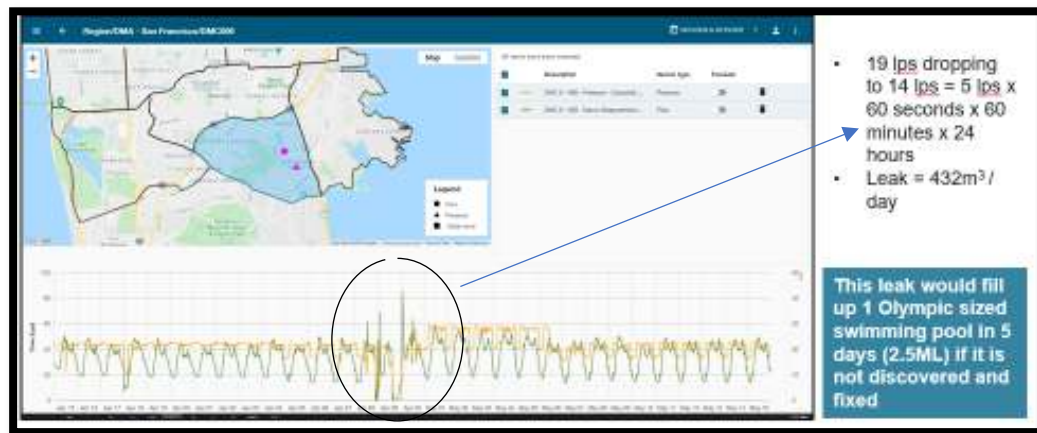
## SOFTWARE DASHBOARDS FOR OPERATIONAL VISIBILITY

### LEAKAGE MANAGEMENT MODULE

The Leakage management module works on data provided from field sensors such as pressure & flow transmitters and base hydraulic modelling. The leakage analysis can be of two types :-

- Existing leakage analysis
- Predictive leakage analysis

The module predict & pre-localize the leakages and estimate existing leakage amount in the system.



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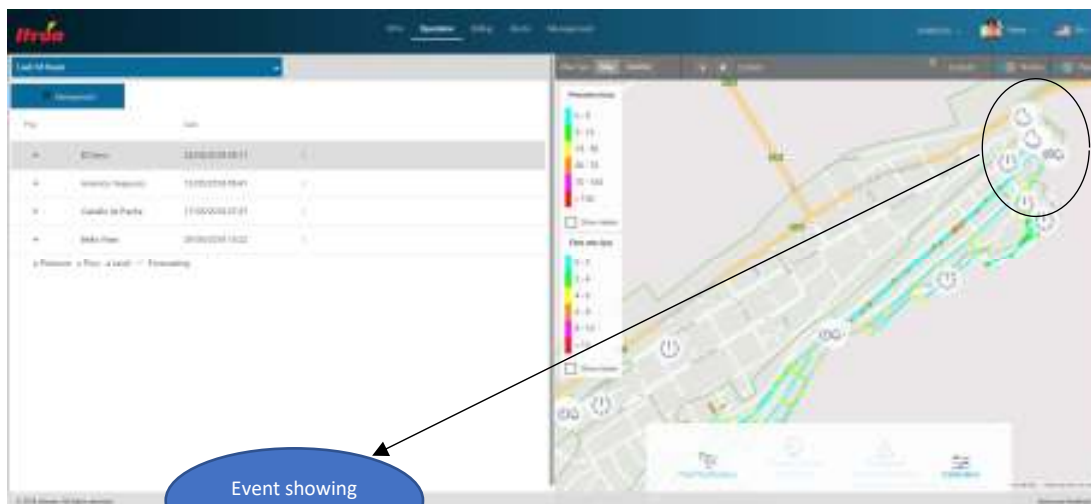
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## **PRESSURE MANAGEMENT & HYDRAULIC SIMULATION MODULE**

This module reports abnormal pressure in the system calibrated with design pressure. It can display actual pressure data over hydraulic model in the software application. User can also run simulation to know the effect of disruption of water supply in particular area in the hydraulic model. User can also use real time pressure and flow data to understand events such as low pressure, shortage of water supply and illegal tapplings etc. User can also calibrate hydraulic model using SCADA imported data values on the software.



Event showing  
water shortage

Water Network  
simulation  
based on  
actual field  
data

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## PRICING SUMMARY

| SNO | ITEM DESCRIPTION  | UNIT      | QTY | PRICE (in INR) |
|-----|---|-----------|-----|----------------|
| 1.  | Supply & Installation of SaaS license at each SCADA Control room /Centralized location with term validity of 10 years for maintaining continuous data streaming from SCADA server   | Each      | 01  | 3,75,00,000.00 |
| 2.  | Supply of Operational Visibility Module dashboards for Water Operation Management with Annual Support Charges. This provides following outcomes:-<br><br>a. Automatic Water Balance and Water loss Analysis DMA wise/Zone wise.<br><br>b. Water flow & Pressure forecasting<br><br>c. Event alerts alarm for flow , pressure, and water level.<br><br>d. Automatic Water loss Segregation into Real & Apparent. | Per Annum | 01  | 75,80,000.00   |
| 3   | Supply of leakage management Module dashboards for Water Operation Management with Annual Support Charges. This provides:-  | Per Annum | 01  | 38,90,000.00   |

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|    |  |           |    |              |
|----|--|-----------|----|--------------|
|    | <p>a. Existing Leakage localization with estimated volume loss.</p> <p>b. Pipe stress Analysis and illegal tapping detection</p>   |           |    |              |
| 4. | <p>Supply of Pressure Management &amp; Hydraulic Simulation Module dashboards for Water Operation Management with Annual Support Charges.</p> <p>a. Energy Management with efficient pressure management in water system</p> <p>b. Simulation of Water shortage and low-pressure scenario on actual data &amp; design data</p> | Per Annum | 01 | 41,00,000.00 |

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