# Smart Water Network

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Government of South Australia

SA Water

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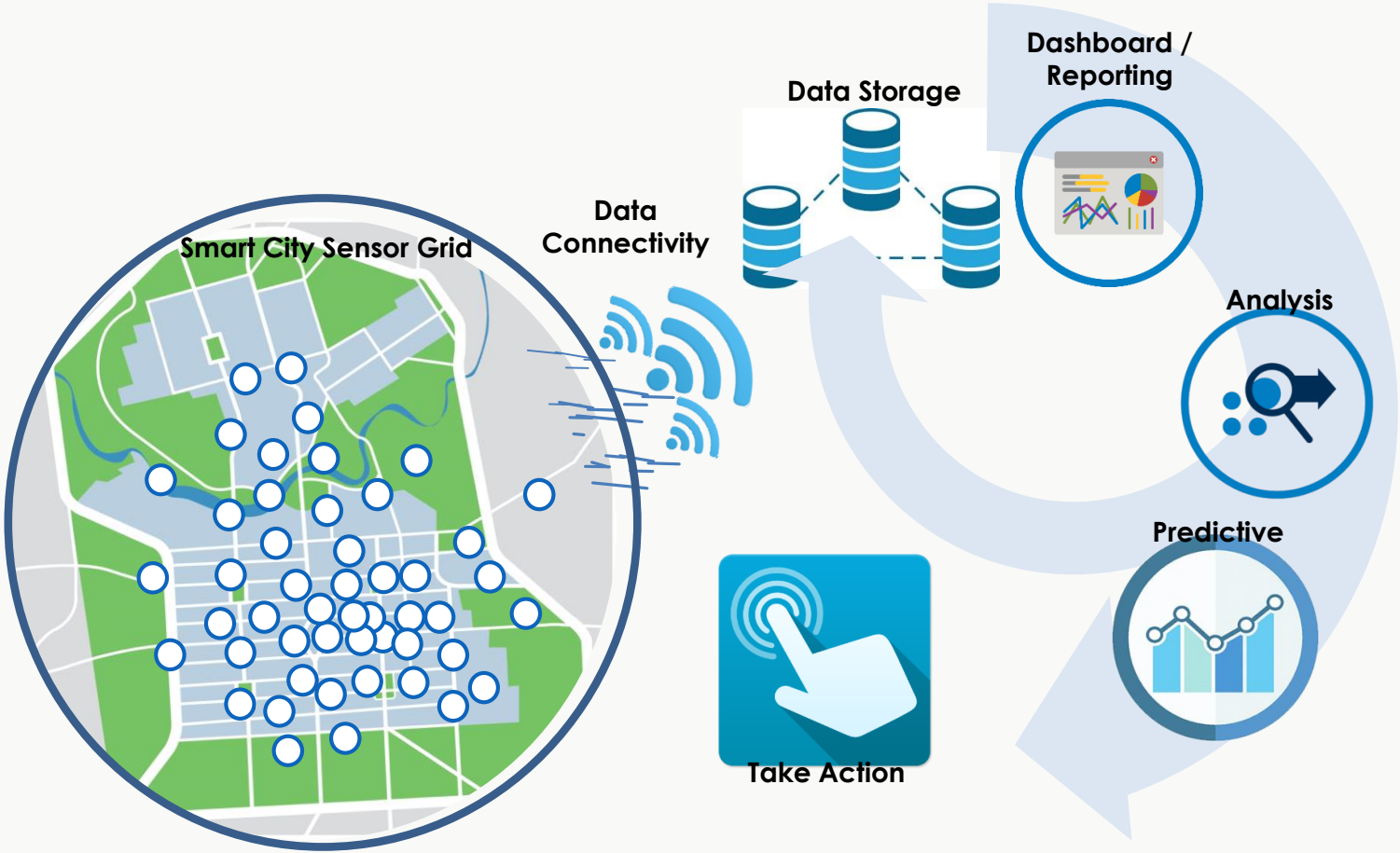
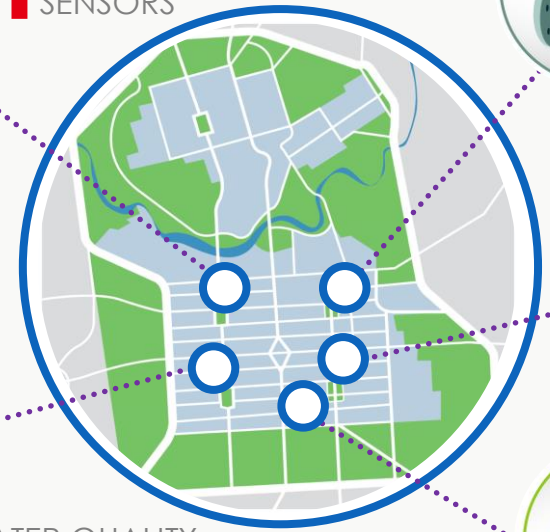
PEDESTRIANS
PEDESTRIANS WATCH YOUR STEP


Smart City Sensor Grid
Data Connectivity
Data Storage
Dashboard / Reporting
Analysis
Predictive
Take Action

**31** PRESSURE SENSORS

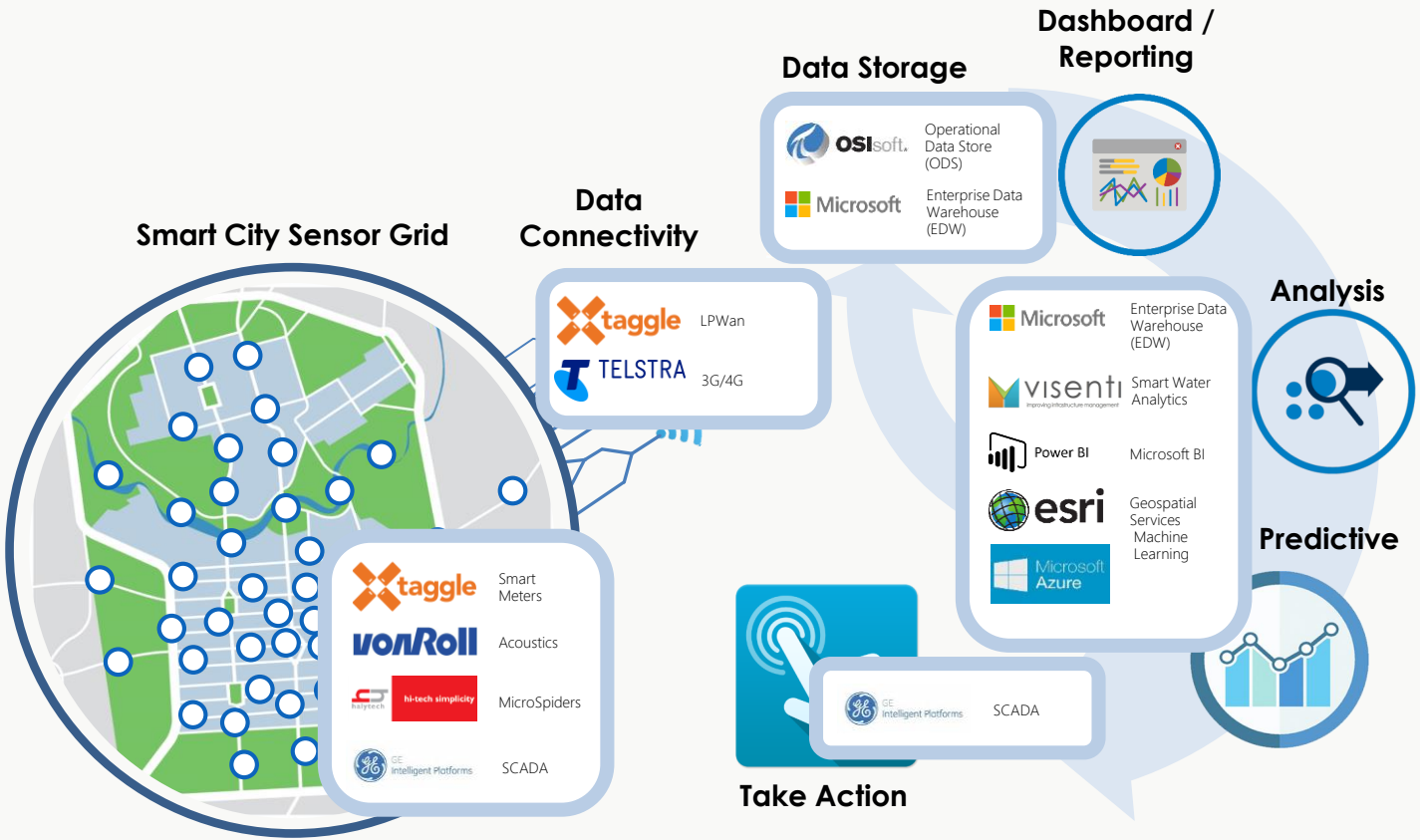
**11** MASS FLOW METERS

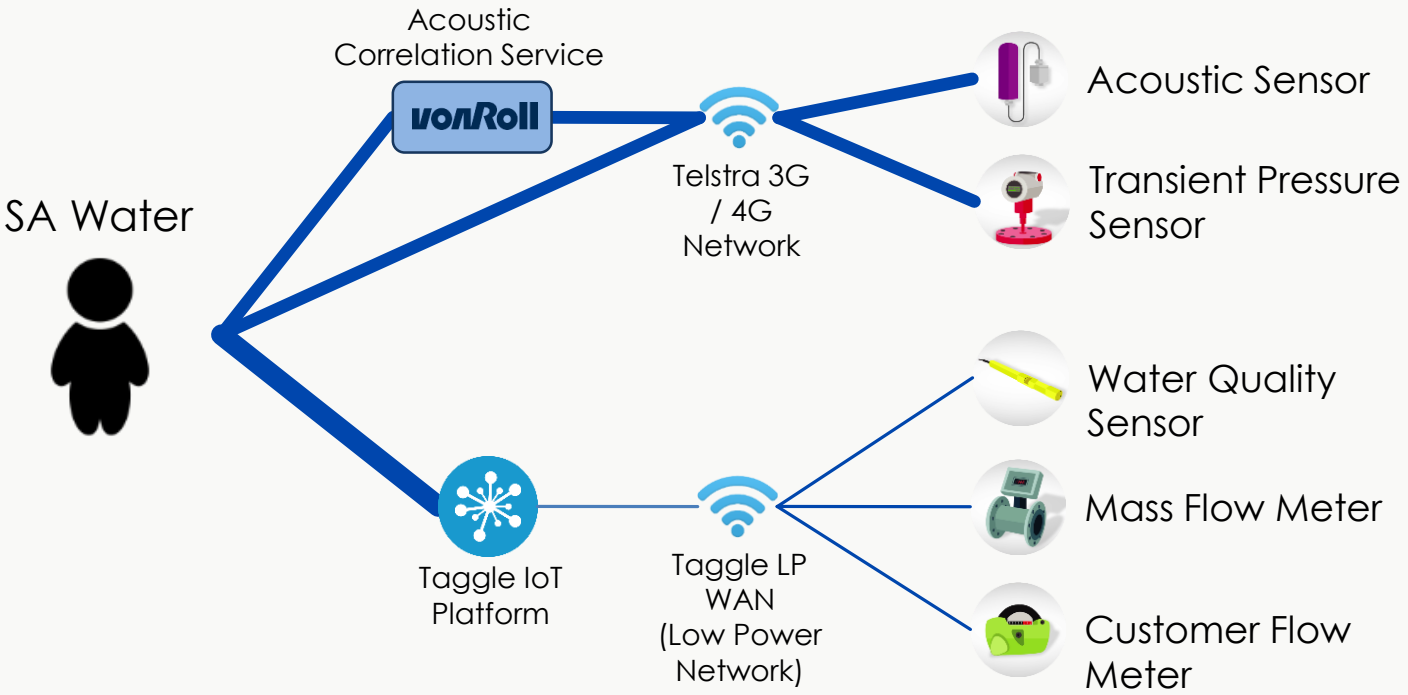


**305** LEAKAGE SENSORS

**3** WATER QUALITY SENSORS

**100** SMART METERS


Dashboard / Reporting
Data Storage
OSIsoft. Operational Data Store (ODS)
Microsoft Enterprise Data Warehouse (EDW)
Data Connectivity
Smart City Sensor Grid
taggle LPWan
TELSTRA 3G/4G
Analysis
Microsoft Enterprise Data Warehouse (EDW)
visenti Smart Water Analytics
Power BI Microsoft BI
esri Geospatial Services Machine Learning
Microsoft Azure
Predictive
taggle Smart Meters
vonRoll Acoustics
hi-tech simplicity MicroSpiders
GE Intelligent Platforms SCADA
GE Intelligent Platforms SCADA
Take Action


Acoustic
Correlation Service
vonRoll
SA Water
Telstra 3G
/ 4G
Network
Acoustic Sensor
Transient Pressure
Sensor
Water Quality
Sensor
Mass Flow Meter
Customer Flow
Meter
Taggle IoT
Platform
Taggle LP
WAN
(Low Power
Network)

Problem statement
Options evaluated
Test approach
Final approach

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Options evaluated
Test approach
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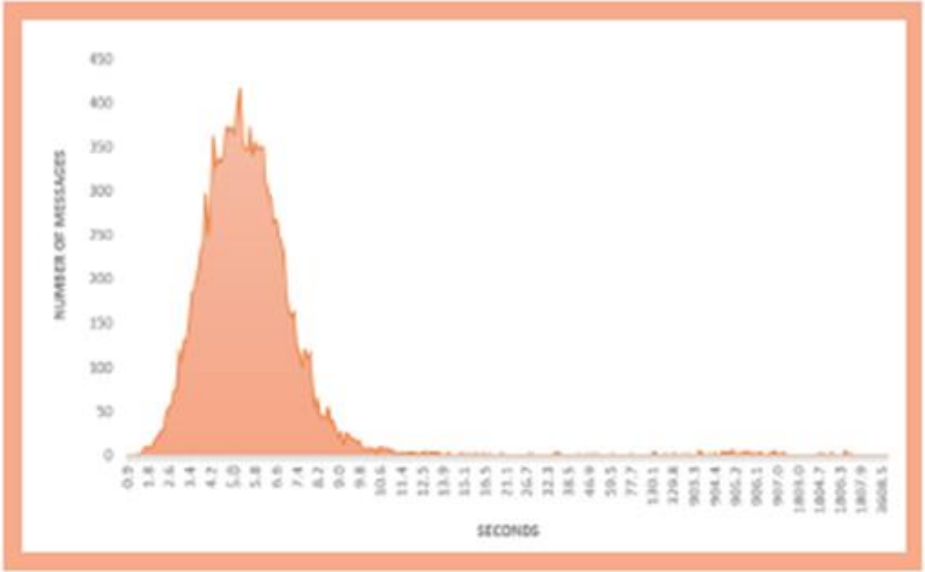
Final approach




| Distribution | | Messages | % |
|---|---|---|---|
| Extremely Fast | (0 - 1s) | 1 | 0% |
| Very Fast | (>1 - 3s) | 576 | 4% |
| Fast | (>3 - 4s) | 1,870 | 13% |
| Average | (>4 - 6s) | 6,990 | 49% |
| Below Average | (>6 - 8s) | 3,944 | 27% |
| Slow | (>8 - 9s) | 432 | 3% |
| Very Slow | (>9 - 10s) | 178 | 1% |
| Extremely Slow | (>10s) | 387 | 3% |
| **Total** | | **14,378** | **100%** |

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