

Risk Assessment for Critical Pipelines – Technology and Case studies

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Advanced Infrastructure Analytics

XYLEM

Sewer Pipeline Replacement Decision

QUEENSLAND, AUSTRALIA

CHALLENGE

Queensland Urban Utilities (QUU) needed support to decide if their sewer rising main would last until 2035

SOLUTION

Xylem provided EM and Advanced Engineering services to determine the location of any damaged pipes and estimate the remaining useful life of the pipe

RESULTS

Remaining useful life was extended to beyond 2035, investments were planned accordingly

Confirmation of Containment for Waternet's Pipelines

Amsterdam, the Netherlands

CHALLENGE

Given the critical location of Waternet's lines, they were required to prove that they can detect leaks of at least 1 l/min

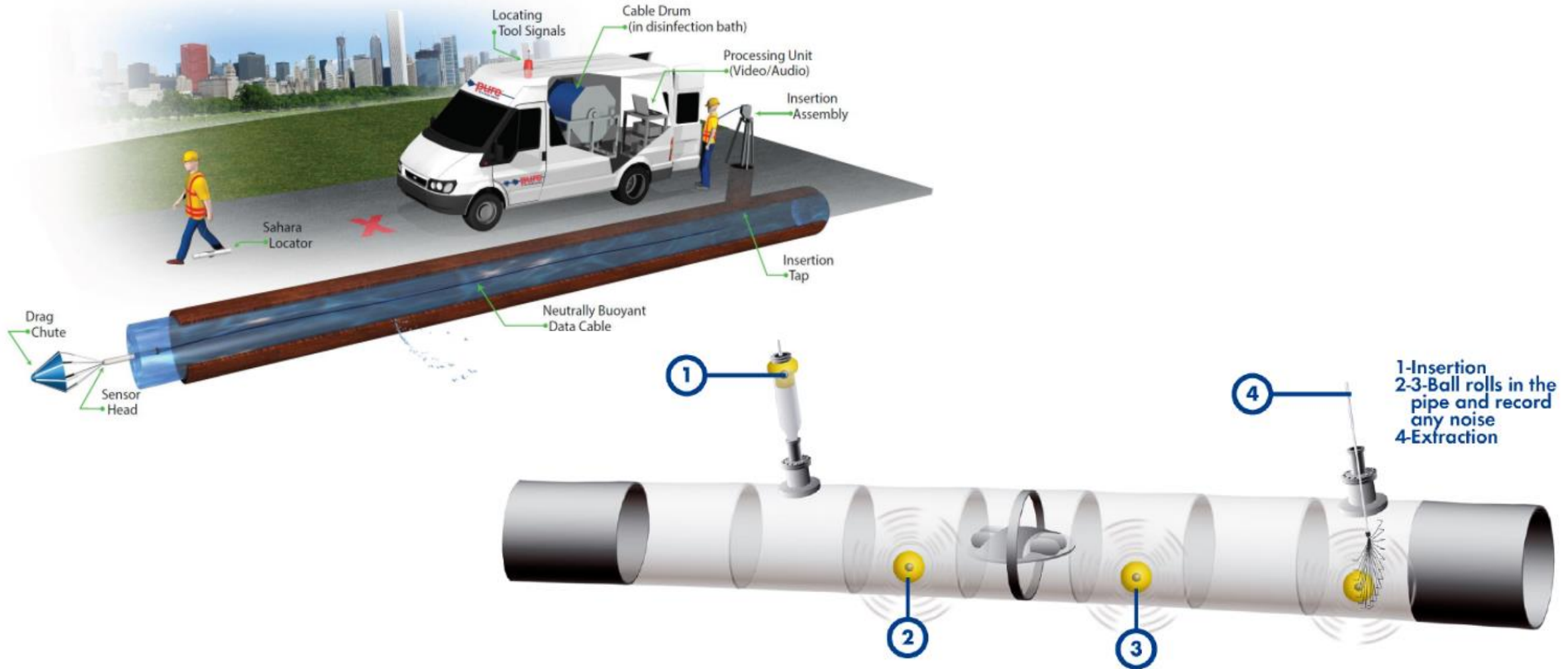
SOLUTION

In 2012 performed validation tests with SmartBall proving it would meet (and go beyond) their targets and since then, every 2 years, have been running inspections to cover the most critical sections

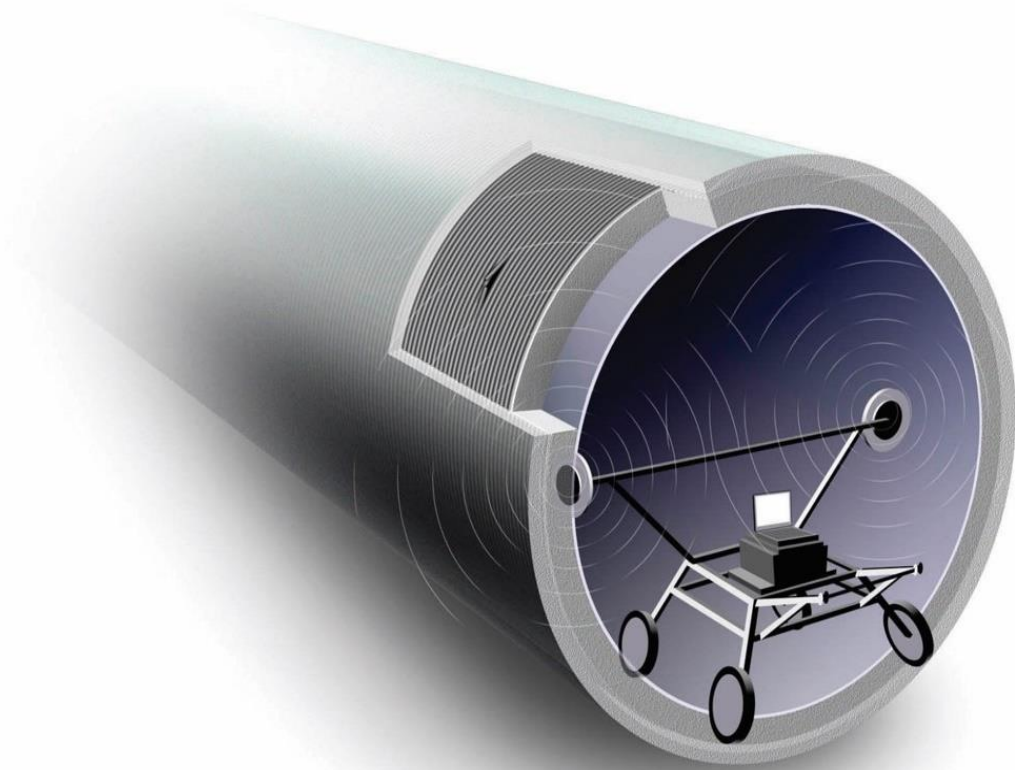
RESULTS

All inspections have been successful, the very limited number of leaks detected have been validated and promptly repaired

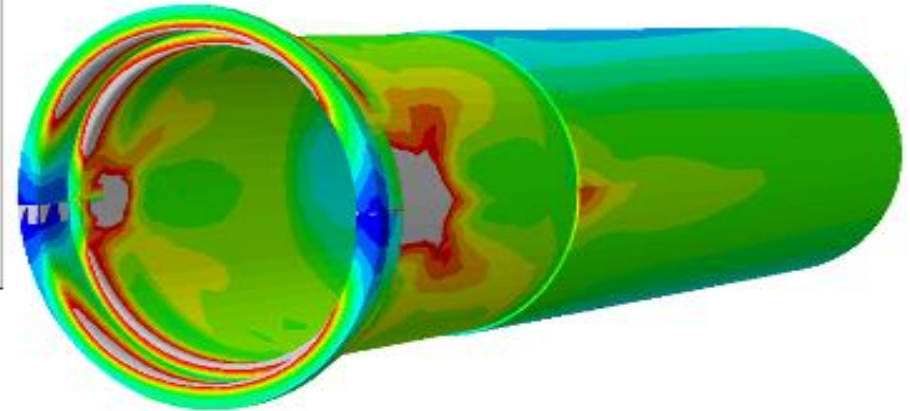
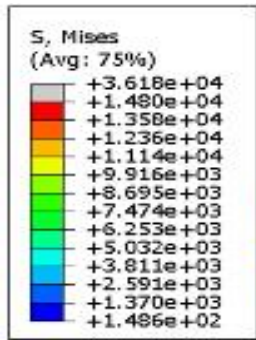
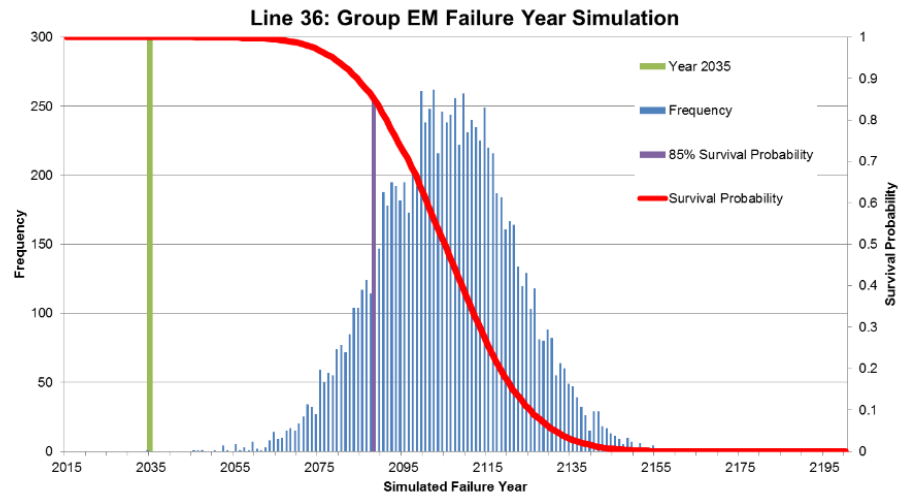
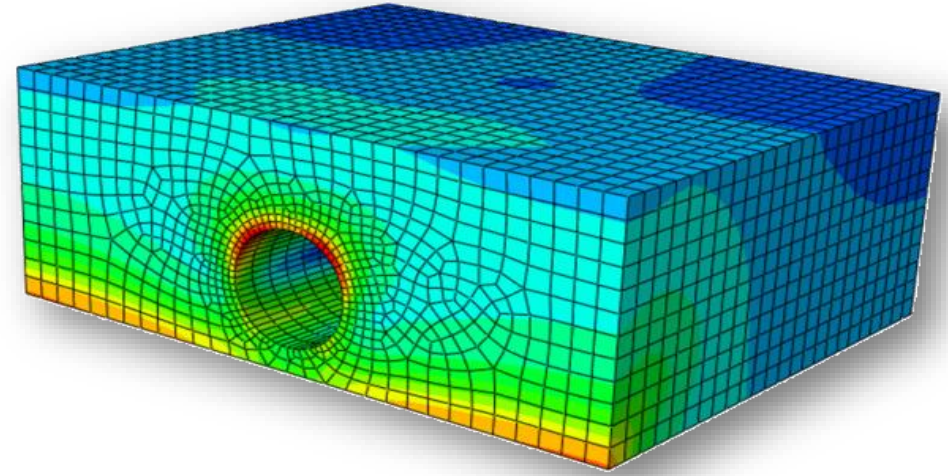
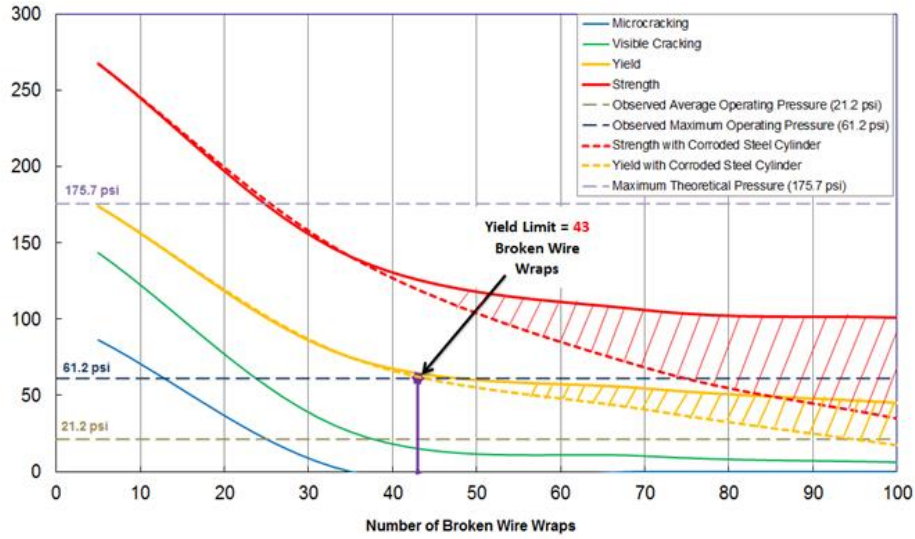
Technology – Leak Detection



Technology - EM

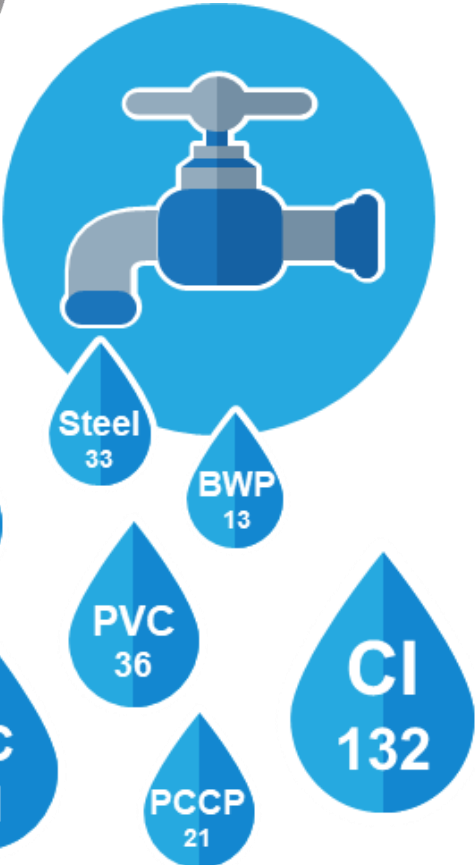


Advanced Engineering Assessment

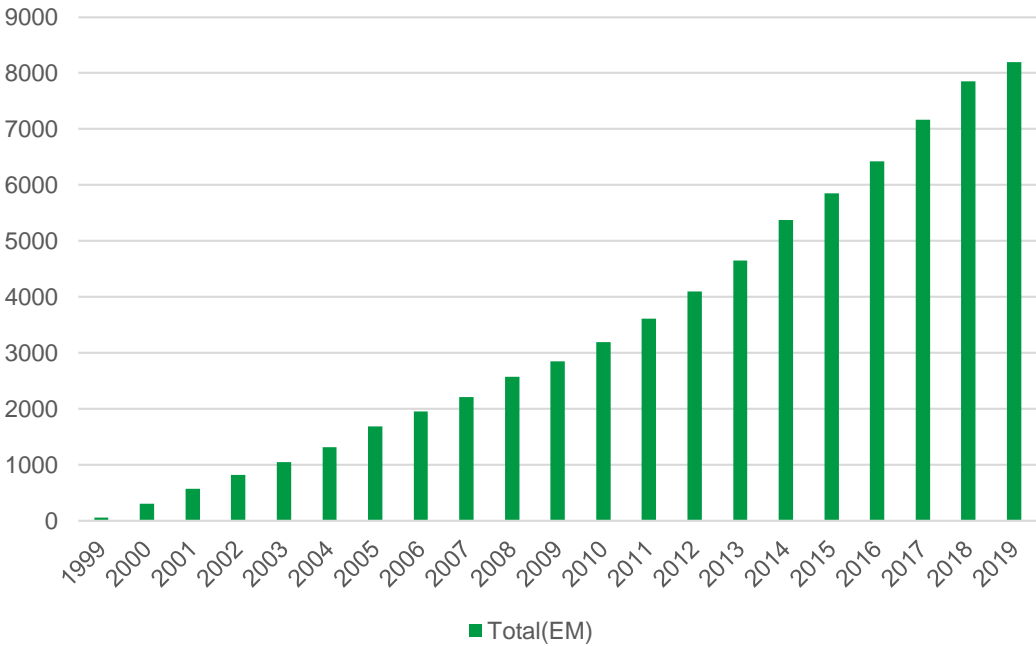


References

>10 000 km of Water And Sewer Pipes



Cumulative Distance (km)





Let's Solve Water