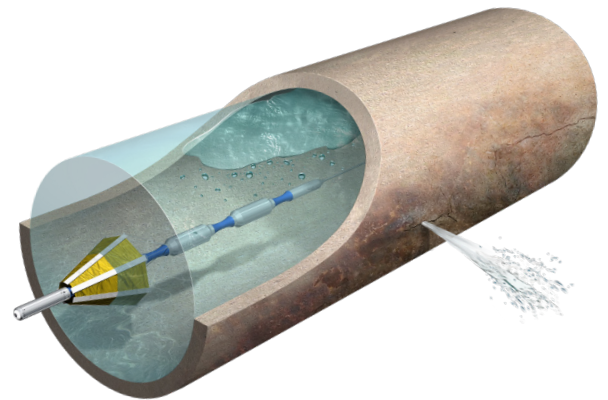


## AN INLINE, TETHERED TOOL FOR INSPECTING WATER PIPELINES

The Sahara® platform is a tethered inspection tool for assessing pressurized water pipelines. The platform detects leaks and air pockets, collects visual condition, and maps pipelines without disrupting regular service. Make informed rehabilitation and management decisions with precise data on the condition and location of buried assets.

Replacing pipelines based on age is inefficient and expensive when most pipes have significant remaining useful life. Xylem provides the data, technology, and expertise to help utilities prioritize investment in the pipes that need it most.

The Sahara platform is a valuable addition to a proactive pipeline management program. The tool detects leaks and air pockets and provides an internal visual inspection. This information enables utilities to reduce water loss and address problem areas before they result in larger failures. This data-driven approach extends infrastructure life, increases operational confidence, and reduces capital expenditures.



### SAHARA BENEFITS

- Locate small leaks and air pockets in real time with sub-meter accuracy
- Capture live footage of the pipe interior
- Collect multiple, actionable data points without disrupting service
- Deploy Sahara using existing access points
- Inspect complex water networks that require precision control and location accuracy
- Confirm pipeline location and alignment with other critical assets



**7,050+**  
Miles of pipeline  
inspection data



## ACTIONABLE INFORMATION

**Leak and Air Pocket Detection** – The platform’s highly sensitive acoustic sensor can detect leaks pinhole-sized and larger on all types of pressurized pipelines. This sensor also identifies the sound of trapped air, which can adversely affect pipeline flow and magnify the effects of transient pressure events.

**Mapping** – The Sahara platform can locate the pipeline with sub-meter accuracy, providing global positioning system (GPS) coordinates for points of interest. This platform can also generate a plan view of pipelines with unknown alignment by locating the pipeline at discrete points, features, and bends.

**Inline Video Inspection** – The Sahara platform is equipped with a closed-circuit television (CCTV) camera that displays real-time footage of the pipeline interior.

## OPERATIONAL EXCELLENCE

The Sahara platform can inspect pressurized water pipelines 12 inches (300 mm) and larger without disrupting regular service. It is possible to deploy the tool into a pipeline as small as 6 inches (150 mm) in diameter with special considerations. The Sahara platform is inserted through existing access points with full port valves 2 inches (50 mm) and larger. Using a small parachute, Sahara is drawn through the pipeline by the flow and collects condition information for up to 1 mile (1.6 km) per deployment. Operators have close control over the tethered tool throughout the inspection to confirm suspected leaks, air pockets, and other visual anomalies. Operators can mark the location of these anomalies above ground in real time.

## DELIVERY EXPERIENCE

Since 1997, utilities around the world have relied on the Sahara platform to inspect more than 7,050 miles (11,350 km) of pipeline and detect over 8,820 leaks. This operational experience ensures quality project management and professional inspection delivery.

For more information on data-driven pipeline management, contact us at: [puretech@xylem.com](mailto:puretech@xylem.com)



[www.xylem.com](http://www.xylem.com)