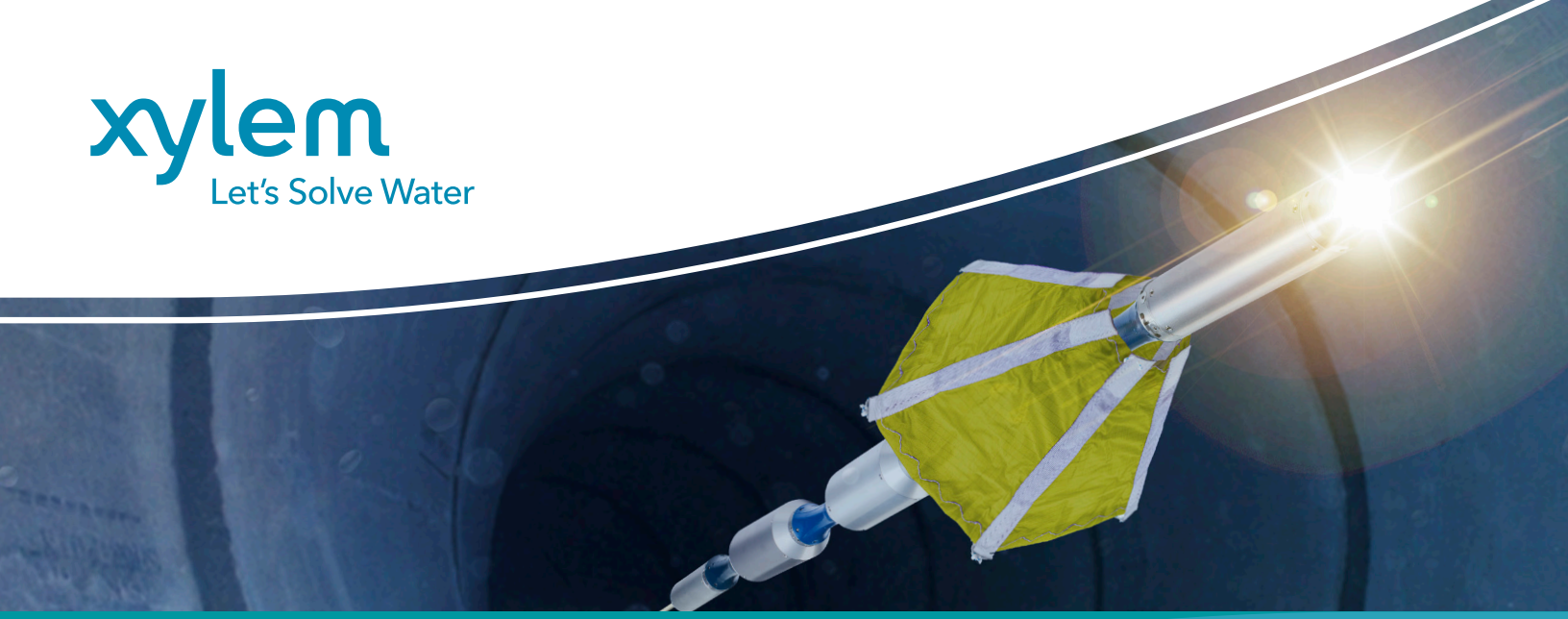
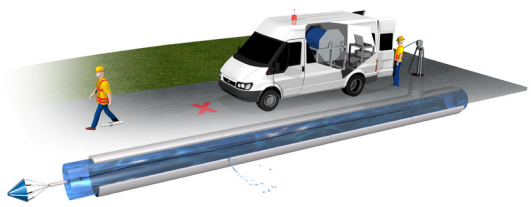
xylem
Let's Solve Water



Sahara® Platform

A TETHERED TOOL FOR INSPECTION OF COMPLEX WATER AND WASTEWATER NETWORKS



How Sahara works?

The Sahara® platform is a tethered tool for the assessment of pressurized water and wastewater pipelines 6 inches and larger. It is ideal for the inspection of complex pipeline networks that require close tool control and precise location accuracy.

The tool is inserted into a live pipeline through an existing tap and travels with the product flow for up to 0.9 miles (1.5 kilometers) while collecting pipeline condition information. A small parachute uses the flow of water to draw the sensor through the pipeline while it remains tethered to the surface. The tool allows the operator close control during inspections and does not disrupt regular pipeline service.

Applications

Owners of water and wastewater pipelines deal with a variety of infrastructure challenges; the Sahara platform can collect a variety of pipeline condition information in a single deployment that helps owners manage their assets more effectively.

pure TECHNOLOGIES
a xylem brand

Leak Detection

The Sahara platform is equipped with a highly sensitive acoustic sensor that can detect pinhole-sized leaks on pressurized pipelines. The tool has been able to identify leaks as small as 0.005 gal/min (0.02 liters) and has a typical location accuracy of within 1.5 feet (0.5 meters). Because the tool is tethered and can be winched back and forth by the operator, it can precisely mark leak locations in real time.

Gas Pocket Detection

The acoustic sensor is also able to identify the sound of trapped gas within pressurized mains. The presence of trapped gas can adversely affect pipeline flow or lead to degradation of the pipe wall in sewer force mains.

Mapping

Sahara can locate the pipeline with sub-meter accuracy, providing GIS coordinates for all points of interest. Pipelines with unknown alignment can be located at discrete points, features, and bends to generate a sub-meter accurate plan view of the pipeline.

Inline Video Inspection

The Sahara tool is also equipped with a CCTV camera that displays real-time footage of the inspection, providing pipeline owners with a visual of internal pipe conditions, and helping to avoid unknown features such as offtakes.

Inspection Benefits

- Easy to deploy through existing pipeline features
- No disruption to regular pipeline service
- Highly sensitive acoustic sensor that can locate very small leaks
- Close operator control allows for real-time verification of leaks
- Can identify features relevant to the operation and mapping of the pipeline
- Indicates the position of leaks, and gas pockets relative to known points

xylem
Let's Solve Water

Xylem
1234 Street Address
City, ST 12345
Tel +1.123.456.7890
Fax +1.123.456.7890
www.xylem.com

pure TECHNOLOGIES