Product Overview

PipeFusion

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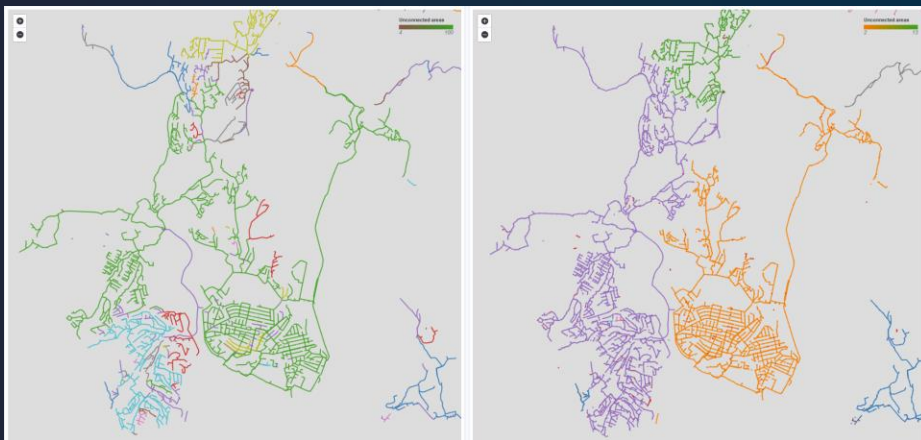
PipeFusion

Smart water managers require the best data

PipeFusion is a secure, cloud-based data analytics software for water utilities, delivering solutions to critical data challenges in supply and wastewater asset management.

As the foundation of our Data Intelligence Platform for supply and wastewater, PipeFusion connects, corrects, and validates utility network data to 99%+ accuracy, in real-time from any data set or network device.
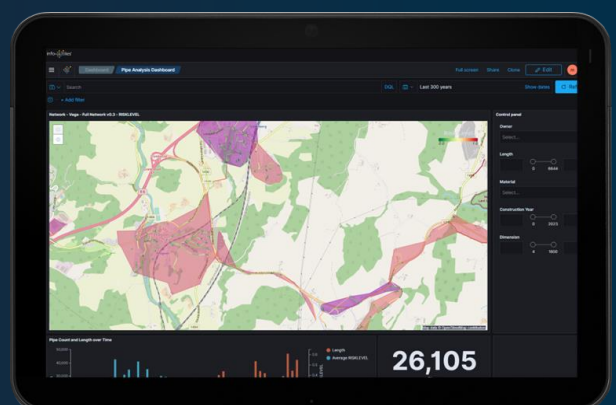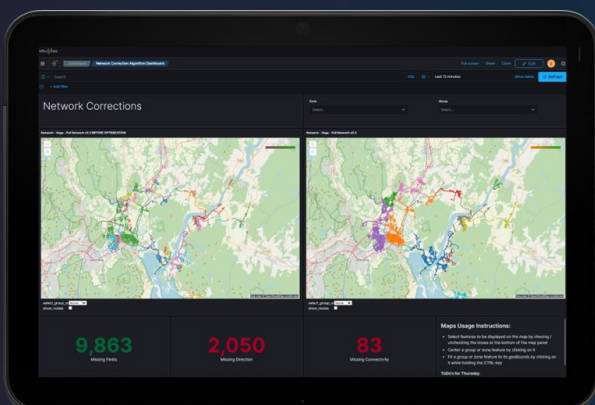
Key Features

Real-time device integration

Rapidly deployed and secure cloud integration providing real-time data streaming compatible with any device or data set from across utility network assets.

Data cleaning and correction

Automatically enhance your water network data to achieve over 99% accuracy in real-time with proprietary machine learning built specifically for water networks.

Scalable asset management

Network-wide asset monitoring and visual dashboards providing streamlined operational analysis and simple compliance reporting scalable to thousands of devices.

Key Outcomes

Reduce costs and time to value

Dramatically reduce upfront and long-term investment costs while accelerating digital transformation efforts, unlocking the value of water data in days not months.

Simplify compliance and reduce risk

Streamline regulatory compliance and reporting while reducing the risk of fines and environmental damage from network operations with better data.

Improve operational decision-making

Enhance data-driven decision making, remote network management and stakeholder collaboration to improve operational efficiency and outcomes.

8x
Faster time to value
and at lower cost

14-20%
Total reduction in
corresponding OpEx

Customer Impact

Rapid deployment delivered in 2 weeks

121
missing wastewater zones identified

12,167
missing connections detected

99%+
network connectivity boost

- 2 700 km of Pipe Monitored
- 348 Devices Monitored
- 103M Events Analysed and Growing
- 107M m^3 of Water Transported
- 123 Leaks Detected
- 8.87M m^3 of Ingress Detected
- 14 353 Network Map Corrections
- 116 Blockages Detected

Lillestrøm kommune

Customer Impact

"We used to spend 8-12 months with internal and external resources just to take dump of the network data, fix it (not solve the problem). With PipeFusion, we get constant correction and validation of the data across our network. Now we can finally start talking about digital twins and real-time hydraulic modelling.

This solution gives us new insight into existing data and shows context we have not seen before. It saves a lot of resources."

Asgeir Hagen
Water Wastewater Engineer
Lillestrøm Municipality

Lillestrøm kommune

Frequently Asked Questions

What data is required and how much time is needed to see results?

PipeFusion utilises data that the majority of utility networks already have available for analysis. Typically, it will take 1-3 hours of work from your IT department or provider. The wait time (and time to value) often depends on the wait time for data approval and adaptation to a new data model or source systems. In practice, this can be done in 1-2 days. From there, the algorithm runs in minutes and will maintain the corrected data without additional input.

What do we receive with the results of PipeFusion?

Once data is integrated or uploaded and corrected with PipeFusion, utilities can extract a file with all the network errors and changes to be made, as well as a prioritised list so that the highest value data tasks can be addressed first.

Does PipeFusion automatically update the source data in our database?

Currently, real-time data is only available in PipeFusion with a database integration and two-way updates using tools like Azure Data Factory. Otherwise, we provide the results as flat files with all the errors and corrections, as well as a prioritised list to correct the data in your existing database. These can be imported to any GIS system. If you have a source system with particular rules and format for import, our team is available to help standardise the data to your needs.

What level of data quality is needed for PipeFusion to work?

PipeFusion works on both historical and current data, and even relatively poor-quality data is enough to deliver results. PipeFusion is able to achieve results even with poor data because our data models are constantly improved through anonymised learning from all of our customers.

How does PipeFusion know what data to correct and verify?

PipeFusion uses multiple advanced logical tests and statistical analyses, meaning it is able to add the missing information with higher accuracy than is possible using any other method or human intervention.

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