

# PermaNET+

Leif Koch - October 2017



## PermaNET+ saves millions of kroner for Denmark's largest utility company



**Fixed network:** combines leak noise sensors and telemetry technology

**On-screen tracking:** works in conjunction with Google Maps

**Precise logging:** establish noise profile for immediate leakage alarm

Danish specialist Leif Koch A/S has used PermaNET+ to save millions of kroner for Denmark's largest utility company.

PermaNET+ allowed Leif Koch, for the first time, to install 185 data loggers in Copenhagen on a permanent basis over a five-year period.

The permanent installation enabled the company to quickly find out when and where a leak occurs. Previously Leif Koch had used a 'lift and shift' method and changed the location every 48 hours.

On just the second day of the project, the leak detection team identified a leak. Instead of tackling the leak, they decided to leave it to investigate how many days would elapse before the water reached the surface.



After 10 days in which nothing happened, the team dug down to the leak and discovered that the water was running directly into the sewer.

Kim Roar from HOFOR explained that **"If we had conducted a study of this particular area using our old method a week before the leak began it would have been three years before we returned to this area and discovered the leak"**.

**"The leak would have been continuously running into the sewer for three years. By our rough calculations, this leak alone would have cost us 1.2m krone (£116k)".**

Kim Roar, HOFOR

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL



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