

Mitigate risk of incidents with IIoT CUI prediction

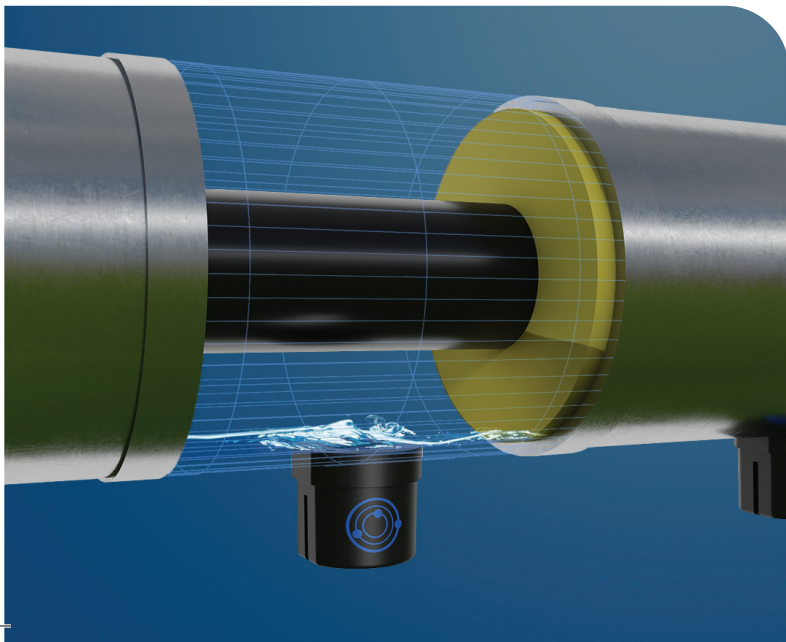


CirruSense is a CUI prediction solution purpose built for the process industry. With its data driven risk prediction capabilities and cost effective IIoT sensors, CirruSense makes it easy to become an even safer plant through subscription to insights.

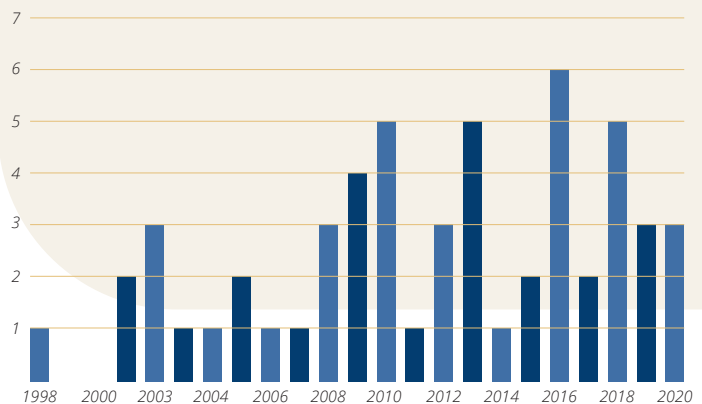
Small areas of corrosion can cause massive safety implications

Corrosion Under Insulation (CUI) poses a great threat to process plants with insulated piping. Not only can its consequences be catastrophic, but it is impossible to localise with the naked, human eye. With conventional, risk based (RBI) or periodic inspection models, cladding must be removed to find water intrusion, one of the main elements required to cause corrosion.

Where conventional CUI management leaves piping unmonitored and unaccounted for extended periods of time, the Trisense solution gives you complete and up-to-date information about wetting of every monitored asset.



CUI related hydrocarbon leaks reported to PSA



Safety made smart, convenient and cost efficient

By using smart IIoT sensors from Trisense to fuel CirruSense's algorithms, you make safety management at your plant easy and cost efficient.

- Continuous monitoring of actual wetting conditions
- Measurements enriched with weather data
- User friendly dashboards
- Actionable insights

Why CUI monitoring?

With conventional CUI monitoring, contributing factors such as piping age, coating and wall thickness as well as process temperature are analyzed to inform maintenance plans. What is not included in this analysis is the most impactful factor: actual wetting levels.

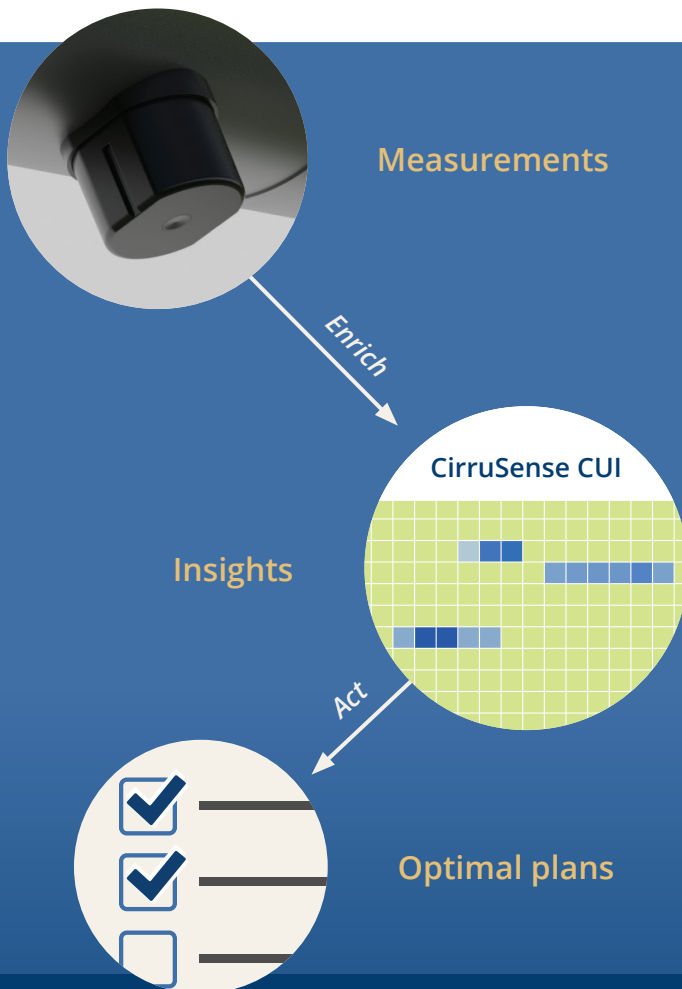
Data driven maintenance plans

Using CirruSense, you will know both the duration and extent of wetting on your different assets. You will also understand where wetting is caused by rain, and where water is able to desiccate during hot periods. Alerts about new water intrusions are delivered as soon as an anomaly is detected.

With this knowledge, you can confidently optimize maintenance planning based on the real state rather than assumptions.

Four-fold value creation

- Mitigate risk of incidents with IIoT CUI prediction
- Reduce cost by optimizing maintenance resources
- Save climate impact by avoiding waste from unnecessary replacements
- Optimize energy usage by replacing wet insulation



Our CUI sensors are mounted through the cladding of insulated piping to detect water at or in the vicinity of the sensor. Using cellular technology, the measurements are transferred to the CirruSense platform where it gets structured, enriched and presented in our web-based dashboard to provide an instant overview of your entire plant, with the ability to drill down into the details. The whole CirruSense solution is acquirable as a subscription service.

Fusion 310 Sensor

- Temperature, RH, surface wetting
- Cellular connectivity without gateways
- Quick sensor installation with NFC
- 15+ years of battery life
- Ex II 2G Ex ia IIC T4 Gb -40°C≤Ta≤+80°C