

Cloud-Based Pipeline Integrity Management

Harness the full potential of your pipeline assets through the power of data with THEIA, Penspen's Pipeline Integrity Management Solution. Developed as part of Penspen's ongoing commitment to digital transformation, THEIA provides energy, oil, and gas operators with the critical pipeline integrity insights required to optimize performance of assets.

INTEGRITY ASSESSMENT



Digitising primary industry standards into logical modules enables integrity engineers to run defect assessments in minutes rather than days. Assessment features such as Corrosion Growth Rate, Remnant Life, Mill Defects, Dents, Data Alignment, and Feature Matching allow for segmenting and variable design factors across the whole pipeline network.

RISK ASSESSMENT



Focusing on quantitative methods enables engineers to collate and process data to perform risk assessments via an intuitive and flexible interface. With API 581 as a digital risk module, the model allows for collaborative working between team to enhance progress, results and inspection plans. Dashboards allow teams to understand the health of the assets and where to prioritize efforts.

DATA MANAGEMENT



A powerful data management tool, compatible with a wide range of document, image and video formats, allows engineers to hold historic and current data in a centralized, searchable location. The flexible structure empowers users to define the location and flow of pipeline data management.

DATA MAPPING



The mapping module offers an interactive overview of the pipeline length to plan and prioritize digs and inspections. Insights to data, such as; inline inspection, construction and operations, external inspection, and CP data with zoom-in functionality of specific areas, unlocks valuable information.

ASSET INTEGRITY KNOWLEDGE



THEIA offers two knowledge and education modules, eLearning and Corrosion Wiki, to provide technical knowledge. The modules work in tandem to serve and support engineers at all levels with educational and referencing tools to further develop their integrity capabilities.

SOFTWARE DEVELOPMENT



With the capability to integrate with existing systems, THEIA offers an extensive range of software development and architecture skills alongside comprehensive pipeline integrity domain knowledge to effectively align with digital industry requirements.

CAPTURE THE VALUE OF YOUR DATA - EMPOWER YOUR INTEGRITY TEAM