

Antea THE FIRST IN ASSET INTELLIGENCE

Contact Us

Visit Our Website

Why choose Antea?

100%

Customer Retention

In over 34 years of business managing millions of assets on every major continent, we have never lost a customer. We are globally validated by major regulatory bodies like Bureau Veritas.

Industry Exclusive

The only AIM provider in the industry with:

- The most advanced mobile capabilities in the industry, enabling hands-free inspections and remote collaboration
- Technology partnerships to deliver: Optical Gas Imaging, Leak Detection and Repair, Predictive Corrosion Monitoring, and more

The name Antea is derived from the Latin term Antea which means "prior, proceeding, something that came first, prior to the others." Since 1989, that is what we have done: be first to market with innovative, digital solutions for mechanical integrity programs.

In the 80s, we were the first with a digital MI software. In the 90s, the first to introduce 3D modelling. Today, the first and only asset integrity management software with Digital Twin 2.0.



COMPETITIVE ADVANTAGES

One of the profound key strengths of our platform is its ability to integrate to existing legacy systems into one central platform. This unique ability coupled with the ability to import 3D models and 3D point cloud data creates an end-to-end Digital Twin that is bidirectionally connected to intelligent P&IDs, PFDs, Plot Plans, Google maps, and more. Our 3D modelling is not just on the asset level but also on the component and even sub-component level, enabling you to click once on any component and instantly access all current and historical data.

A holistic, single version of the truth with real-time access to actionable intelligence. We are the only software with Digital Twin 2.0 offering real time visualizations of assets and people in an operating facility.



LOWEST COST, HIGHEST ROI

The pricepoint of our products and services cannot be matched by any of our competitors. We offer the most cost-effective solutions on market with the highest ROI.

RAPID CUSTOMIZATION

Our products are designed and developed inhouse, and can be customized to your company's unique needs with rapid turnaround on new tailored features.

DEDICATED ENGINEERING

Antea is not an IT software company but rather a small engineering firm focused on developing digital solutions for real-life problems. What does that mean for you? A focused team of engineers dedicated to solve your unique problems with rapid response times.

HOLISTIC, ONE-STOP SOLUTION

Rather than the myriad of single-focus solutions that require multiple different systems, Antea is a holistic asset integrity platform that manages the entire process, improving safety while prolonging asset lifecycles.









MONITORED ASSETS



240+ ASSET TYPES



O CLIENTS LOST ■ Smart P&IDs

Antea is the only AIM software on market with Smart P&IDs and Digital Twin 2.0 for unprecedented visualization into real-time asset conditions.

Smart P&IDs allow for easy access to asset data by simply clicking on asset location on the P&ID. Icons superimposed on the P&ID to allow for visual indicator of upcoming or overdue schedules for inspection and maintenance activities, as well as follow up recommendations to resolve anomalies.









Users are able to annotate the P&ID, which helps facilitate the P&ID revision and redlining process.

Users can also access asset documentation such as drawings, datasheets, etc directly from the P&ID.

With Antea's use of geospatial indexing using specific coordinates, such as an element's X, Y, Z position, in a georeferenced space as its index, it becomes no longer necessary to know *what* something is in order to find it. Instead, simply knowing *where* it is helps an operator quickly find and retrieve any pertinent data related to it.

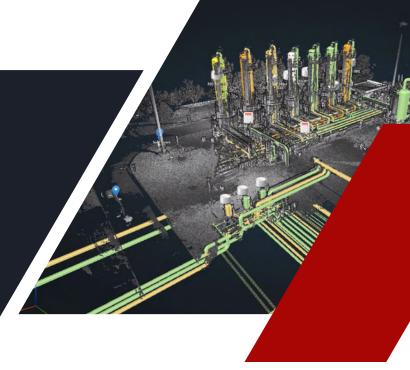
Finally, users are able to create links on one P&ID to another P&ID. This allows the MI professional to continue analysis on relevant P&IDs without having to search extensively. Just simply click the link and continue analysis on the next P&ID.

In a recent case study (which can be provided separately), the total annual savings delivered by these features averaged more than **\$3.2 million per year**, *per site*. Those savings are multiplied in accordance with the number of sites.

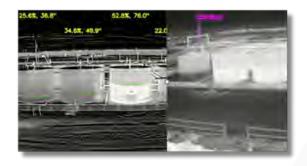
Digital Twin 2.0

Digital Twin 2.0 refers to the bidirectional integration of AIM Digital Twin with several other advanced and emerging technologies via strategic technology partnerships, enhancing and expanding the data fed to the AIM software from the assets.

It provides unprecedented levels of autonomous visual inspection, remote condition monitoring, and instant detection of conditions that could lead to critical failure. Antea is the only software on market offering these integrations.







Optical Gas Imaging. Detect gas leaks that might not be visible to the naked eye. By integrating OGI with digital twin, companies can continuously monitor assets in real-time and instantly detect, identify, and quantify fugitive emissions, reducing the risk of hazardous incidents and environmental contamination.

Liquid Leak Detection and Repair. Real-time, continuous, and autonomous (Al-driven) monitoring and detection of liquid leaks.

Tank Level Monitoring. Non-invasive tank level monitoring makes it possible to visually monitor tank levels from within the digital twin without ever having to open the thief hatch.

Virtual Gate Guard & PPE Detection uses advanced cameras and sensors to monitor work sites, improving safety and security.

Corrosion Under Insulation (CUI) Monitoring. Advanced CUI sensors that are mounted under insulation to remotely, continuously monitor for moisture and conditions that could lead to corrosion. When these sensors are integrated with Digital Twin 2.0, operators can unlock true Predictive Corrosion Management (PCM).

Who are our **Customers?**

Exxon became our first customer when Antea developed the firstever-to-market digital software solution for mechanical integrity back in 1989.

Since then, our customer list has expanded to include major operators across the globe -and we have never lost a client.



UNIVERSITIES

M'hamed Bougara University **Qatar University** Università degli Studi di Padova

PETROCHEMICAL

Arlanxeo - Texas USA Arlanxeo - Ontario Canada LCY Elastomers - Texas LyondellBasell - Italy **Egypt Basic Industries** Corporation Versalis S.p.a. -

International Sasol S.p.a - Italy Potash Corp. - PCS Nitrogen - USA Yara - Italy Texmark - USA

Ineos Manufacturing Italia San Joaquin Refining Co.

Inc.

Sonatrach FCP **Lotte Chemical INEOS Composites** Deltech

UTILITIES

Snam Rete Gas Ripalta Bordolano Brugherio Cortemaggiore Piacenza Fiume Treste Minerbio Sabbioncello Settala

Redengas Sun EdisonGilardoni S.p.a Donegani Anticorrosione

Eurallumina S.p.a Anonima Petroli Italiana

Enipower S.p.A.

Società Enipower

Lukoil ERG S.p.A.

Nalco Italiana S.p.A. Force Technology

Servizi Porto Marghera Ravenna

Servizi Industriali S.p.A. Priolo Servizi Industriali S.p.A.

MEMC Eco-Center

OIL & GAS

ENI E&P

ENI Petroleum - U.S.A. **ENI Australia ENI Congo** ENI Norge - Norway ENI Zubair - Iraq **ENI Turkmenistan** Adriatica Idrocarburi - Italy Padana Energia - Italy Ionica Gas - Italy Enimed - Italy

Eni Italian Fields (UGIT)-

ITALY

Goliath - Norway Eni Mozambique Eni KPO – Kazakhstan Eni Zohr – Egypt Eni Abu Rudeis - Egypt Eni Mexico Tag Tag Operating Company LTD AGIP KCO - NCPOC

ENIPAKISTAN

ACT - China

GSA Sonatrach - Agip -Algeria

Nigeria AGIP Oil Company -

NAOC

NAPIMS - NNPC

Anonima Petroli Italiana - API **ENI Refining &**

Marketing and Chemicals

ENI Robassomero Lubricants

Robassomero

(TO) - Italy

Lukoil - ex ERG

S.p.a ExxonMobil

ESSO Augusta Refinery IPLOM S.p.a

Tamoil S.p.a Pertamina Petroineos

ILBOC (Iberian Lube Base Oils

Company, S.A.) **Pakistan Refinery**

Limited

Saras S.p.A. Vår Energi Cardon IV

NSRP

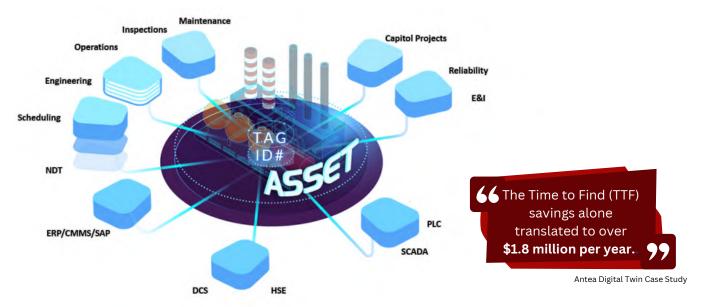
EPIC Y Grade Logistics



Inspection Data Management (IDMS)

Antea IDMS is the only inspection data management software with Digital Twin 2.0. It bidirectionally links all asset data sources into a real-time virtual replica, giving you real-time access to all current and historical asset data for smarter, data-driven decision making. This eliminates information silos, which are created when each department is managing its own data separately from each other -- leading to critical errors in maintenance planning, excess time to find information, and in worst cases, critical failure or shutdowns.

Antea IDMS eliminates information silos by centralizing all sources of asset data input into one digital, collaborative database from which every department can access a single version of the truth.



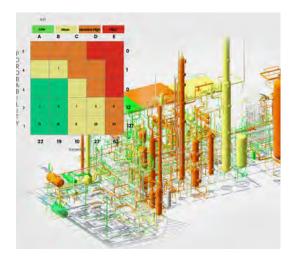
Instantly visualize the site within the software. Apply color-coding filters to quickly identify which assets are due for inspection and which are most at risk.

Eliminate information silos and reduce time to find (TTF) critical data from days down to seconds. Optimize inspection and maintenance. Reduce incidents up to 77%. Lower inspection costs up to 65%.









Risk Based Inspection (RBI)

Antea RBI is the only RBI software with industry-leading digital twin for complete interactive visualization – including a dynamic, virtual replica of your plant. RBI data is overlaid onto the digital twin and colored by risk level, providing an instant overview of asset health.

With real-time access to risk data, it is the only RBI software enabling "RBI on the Fly."

Antea RBI has been validated by major global and internationally accredited certification bodies including Bureau Veritas as compliant with API 580 and 581. Additionally, it has built-in Weibull analysis calculations for PSV RBI analysis.

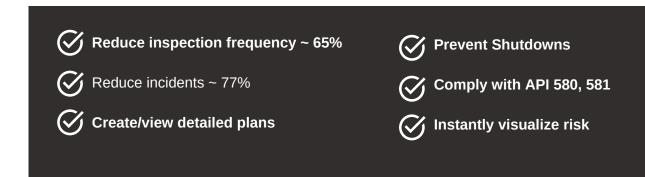


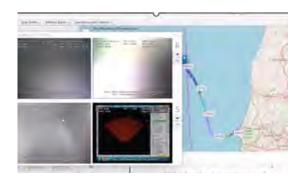
Antea RBI is easily customizable to any preferred risk model to suit different methodologies and damage mechanisms.

Instantly visualize risk levels throughout your plant with one-click of a button.



- Antea RBI Case Study



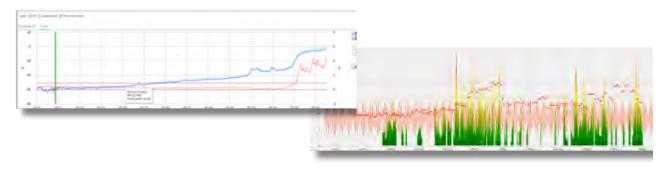


Pipeline Integrity Management (PIMS)

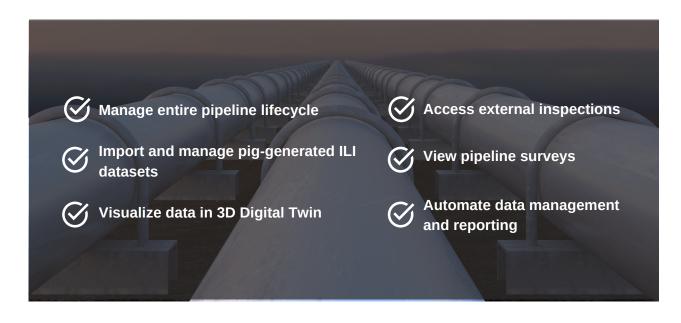
Antea PIMS protects the health and reliability of your assets for the entire pipeline lifecycle.

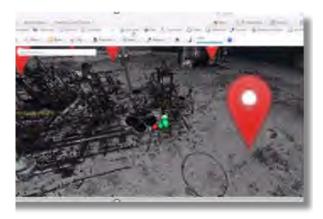
Manage onshore or offshore pipeline integrity from pre-construction through to design, engineering, operations and decommissioning. Antea PIMS strategically centralizes information and integrates technology to optimize proper monitoring of the pipeline condition.

Unlike other PIMS software, Antea PIMS leverages unique 3D visualization and digital twin integration so you can literally see the live condition of your pipeline — including geographic presentation of geophysical data, video inspections, bathymetric data, and more.



It collects all operations performed before and after pipeline laying, importing huge volumes of data from files and automatically populating the system. Antea PIMS also supports operators with efficient RBI analysis.





Integrity Operating Windows (IOW)

Antea IOW is the only IOW software that integrates fully with the OT environment to continuously detect when an integrity window is about to be breached or currently being breached, delivering instant alerts so you can take preventative action.

Rather than simply being process driven, Antea IOW uses live data. It also trends IOW data to enable understanding of the extent to which damages have occurred, what they are based on, what the asset might have been exposed to, and the length of time that it was exposed.

This enables predictive maintenance where you can act instantly and proactively before an incident occurs -- instead of reactively after excessive damage and costs have already amassed.

Antea IOW enables seamless regulatory compliance to standards like API 584.



Receive instant alert notifications the second that an asset's limits have been breached.

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Antea Mobile Apps

Navigate your entire plant's assets from your cellphone or tablet. View data, attachments, schedules, and all pertinent information for each asset via 3D digital twin.

Antea Mobile delivers the most efficient and versatile methods of accessing actionable intelligence on the market, and is capable of integration with Connected Worker wearable technology. The result? Fewer onsite resources. Instant access for data-driven decision making on the fly.

Applications Include:

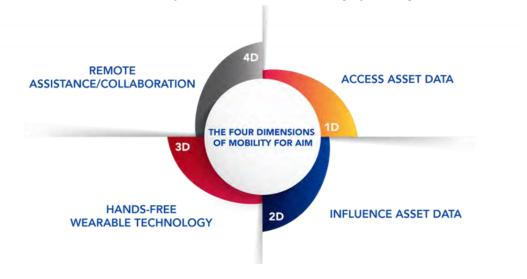
Asset Tracker | Scan a QR code and instantly access all maintenance history, search and add items to the asset registry, or associate position via GPS sensor.

Operator Rounds | Provide on-field operators the ability to view their work list, execute visual operations, and then upload the data directly to your database via mobile.



T Data | Perform accurate thickness inspections on the go and then seamlessly upload all of the results directly into the asset integrity database – all from your phone or tablet.

Anomalies | Register anomalies and findings on plant assets with a detailed description and priority. Monitor, record, and report anomalies within and separately from the inspection report. As a result, all recorded anomalies are automatically loaded into the asset integrity management software.





Reliability Centered Maintenance (RCM)

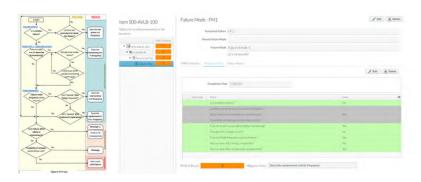
Reliability centered maintenance is a concept of maintenance planning that ensures systems operate according to user requirements in their present operating context.

Successful implementation of RCM will lead to increase in cost effectiveness, reliability, machine uptime, and a greater understanding of the level of risk that the organization is managing.

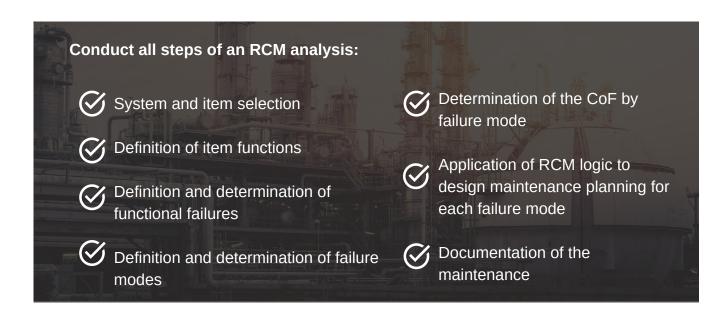
Antea RCM is inspired by many standards, including: JA1012, ISO14224 and by support of University of Seville.

Connection with IDMS and RBI tool allows to have all the items lists, technical data and historical data connected in one system.

Every item can be divided into may components and analysis can be performed at different levels (item or component).



A library of functional failures (FF) and failure modes (FM) can be created into the system, facilitating failure mode and effects analysis (FMEA) as well as failure mode and effects criticality assessment (FMECA).





Root Cause Analysis

Analyze the malfunctions that have occurred with an asset and ascertaining the root cause of the problem in order to prevent a repeat occurrence with Root Cause Analysis (RCA).

Antea RCA module delivers instant access to all critical information surrounding the malfunction or error, helping facilitate the RCA process. Create tasks, assign personnel, create due dates, and track progress throughout the RCA process.

Antea RCA is built-in to the platform, allowing you to manage all methodologies of RCA. Instantly access an overview of all relevant RCA data -- methodologies, assignments, deadlines, follow-ups, and more -- enabling transparency and accountability for each department's responsibilities with the RCA.

Risk Assessment

Antea Risk Assessment module elevates the impact of RBI to a new level by empowering you with the ability to customize an RBI methodology according to a specific asset type.

Calculate risk levels according to customized rules that you assign for selected assets. Define threats and organize them into hierarchal categories for smart and simple risk mitigation.



Then, automate inspection plans for the assets according to parameters set – all in a user-friendly interface that is easy to operate. Visualize the risk levels throughout your plant with Antea's 3D digital twin.



Fire & Safety

Antea's Firefighting and Safety (F&S) module enables you to view and access all data for assets like extinguishers, monitors, fire detection and water extinguishing systems.

It is the only software on market for these asset types to provide the visual autonomous inspection benefits of Digital Twin 2.0.

View the entire system on a topographical map, click on any asset of interest, and immediately access the full history or inspection scheduling. Organize datasheets easily and optimize inspections with 3D scans.

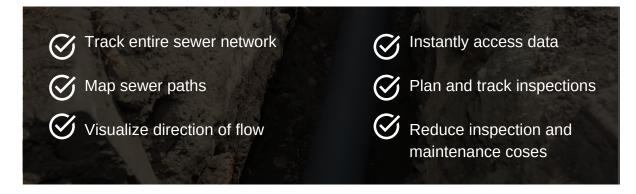
Waste Management Systems

Elevate the efficacy of your asset integrity management (AIM) program with a module that is tailored to the unique needs of civic and industrial wastewater assets.

Improve the mechanical integrity and inspection data management of sewers, inlets, sewer circuits, reservoirs, and more. Antea Waste Management Services (WMS) is tailored to the unique needs of these asset types.

Instantly access actionable information with complete visualization of your entire sewage network in 3D digital twin.









Digitalizing asset management, workflows and processes can seem like a daunting task. The key to effective results and ROI is strategic, scalable implementation.

Our team of experts has been facilitating digital transformation for companies for over three decades. We provide strategic consulting services to guide your team on every step of the journey.



Data Management



Analysis & Strategizing

Experts assess the current state of your facility data and customize strategize for fast, affordable implementation.



Implementation

We migrate and populate all data into a digital AIM database, bidirectionally linking all sources of input into a Digital Twin.



Ongoing Data Management

Data entry, management and analysis services provided on-premise, remotely, or in hybrid. Robust training onsite and online.

Implementation:

Level 1

Asset lists upload

(Pressure equipment, piping, PSVs, machines, packages, circuits, instruments, valves, etc.)

Hierarchy structure

(Site and functional unit)

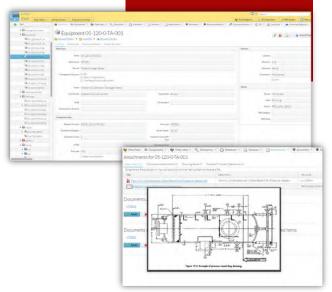
Technical data

(Operation/Design temperature and pressure, fluid, material)

Technical attachments

(Any format)

General inspection reports



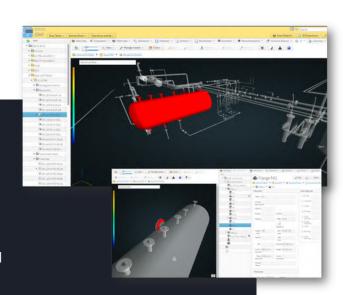


■ Level 2

- Upload of P&IDs and link between asset list and P&IDs
- Thickness measurements without 3D model
- Activity plan

Level 3

- 3D Modeling of equipment (manual drawing)
- 3D model for piping (external 3D model conversion and upload)
- Thickness measurements with 3D model





Let's Get In Touch

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