Antea
Millions of Data Points
Thousands of Assets
Hundreds of Decisions
One Solution
The Most Feature-Rich, Asset-Intelligent,
RBI-Driven Asset Integrity Management Solution

Antea

33 years of Excellence

Antea is at the forefront of the asset integrity industry with cutting edge technology for plant operations.

$160 BILLION+

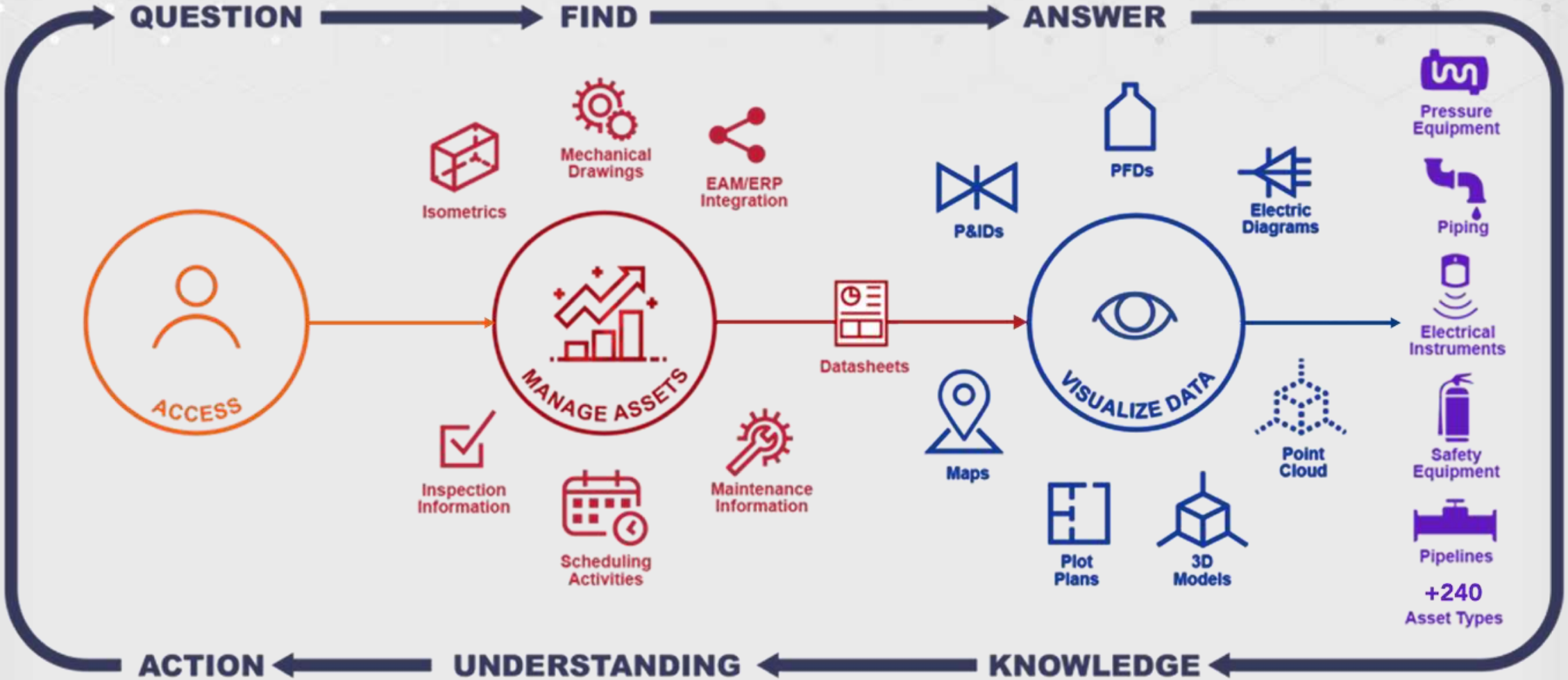
Under Management

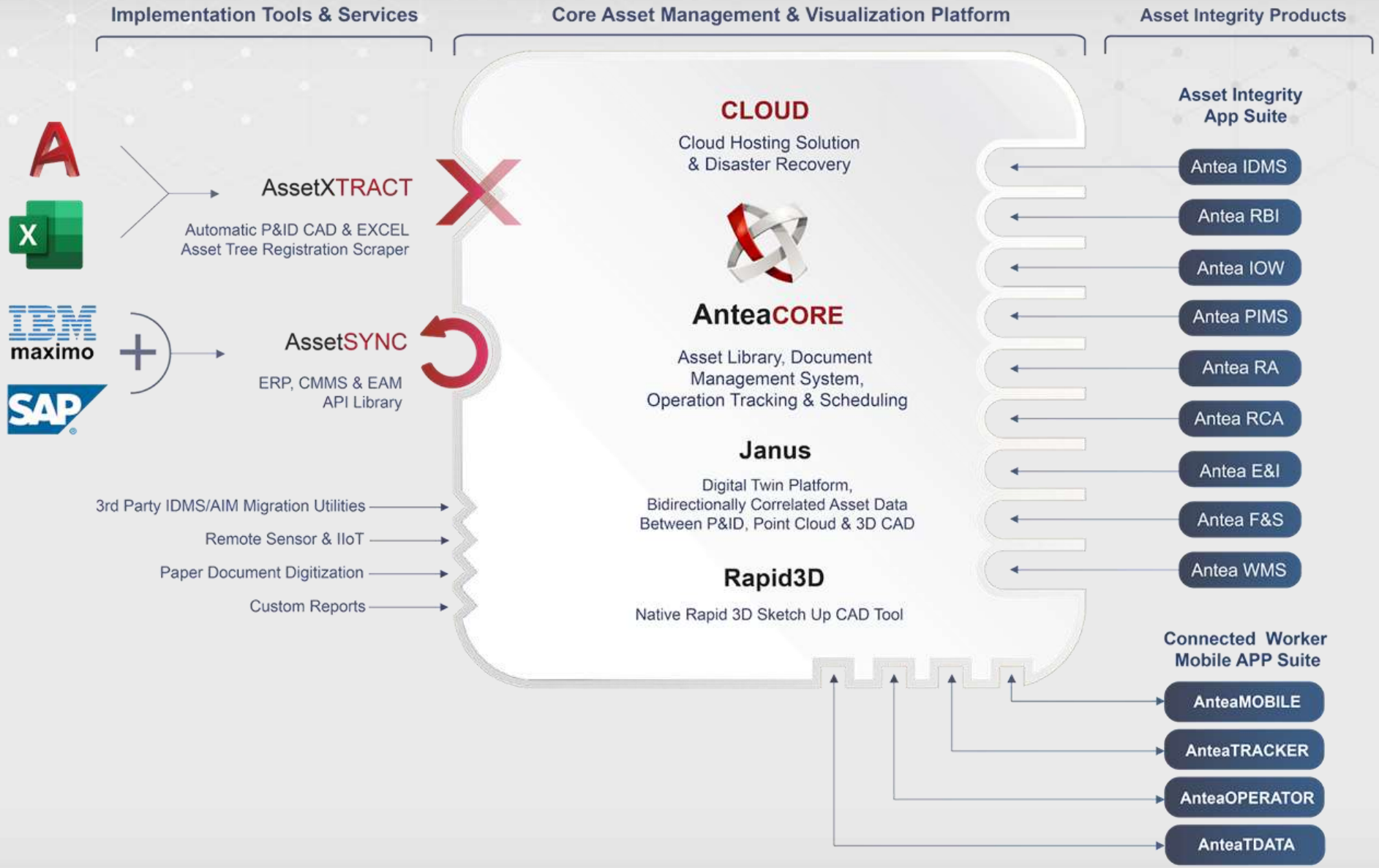
6 MILLION+

Monitored Assets

240

Asset Types

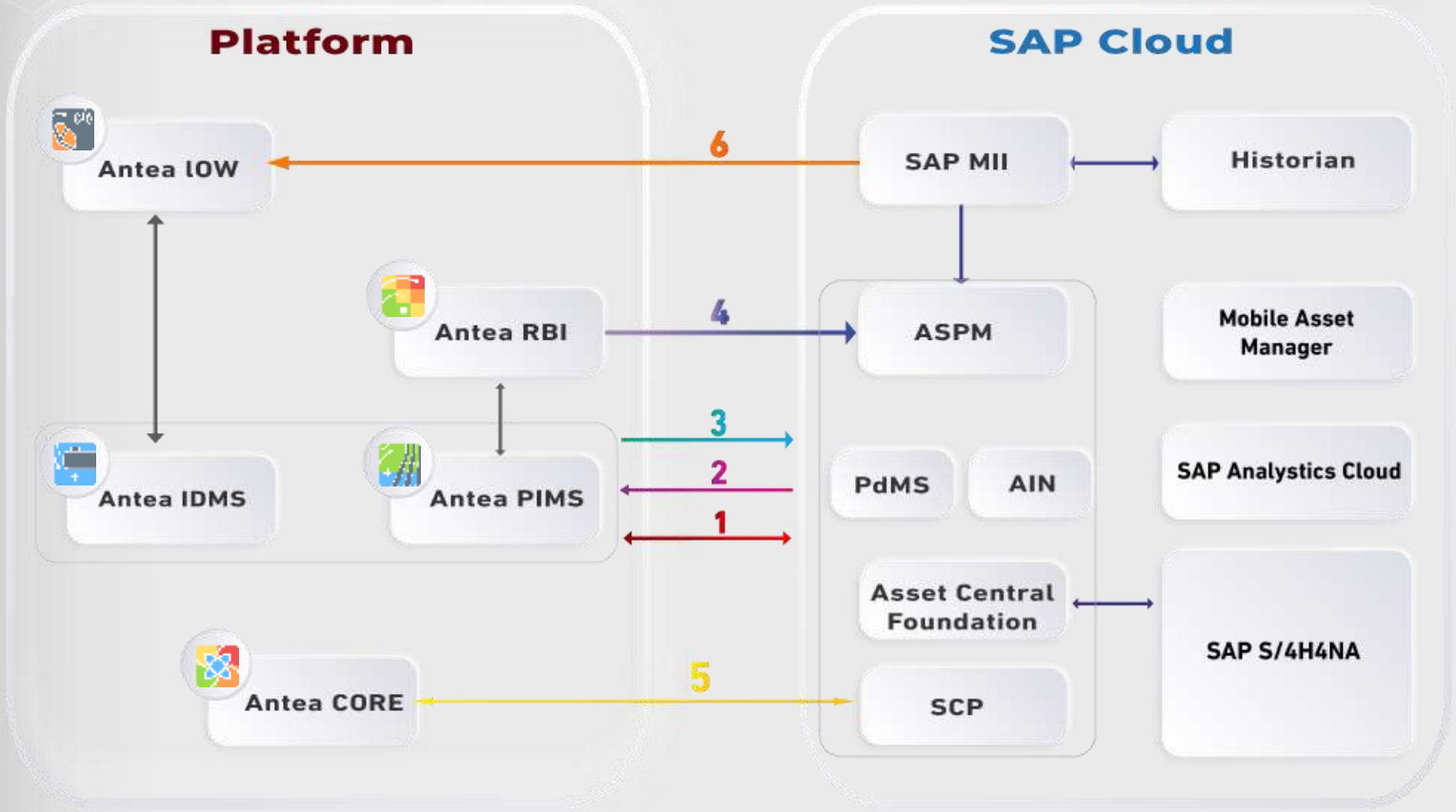

QUESTION
FIND
ANSWER
ACCESS
MANAGE ASSETS
VISUALIZE DATA
Isometrics
Mechanical Drawings
EAM/ERP Integration
Inspection Information
Scheduling Activities
Maintenance Information
Datasheets
P&IDs
Maps
PFDs
Electric Diagrams
Plot Plans
3D Models
Point Cloud
Pressure Equipment
Piping
Electrical Instruments
Safety Equipment
Pipelines
+240
Asset Types
ACTION
UNDERSTANDING
KNOWLEDGE


Implementation Tools & Services
Core Asset Management & Visualization Platform
Asset Integrity Products
AssetXTRACT
Automatic P&ID CAD & EXCEL
Asset Tree Registration Scraper
IBM maximo
SAP
AssetSYNC
ERP, CMMS & EAM
API Library
3rd Party IDMS/AIM Migration Utilities
Remote Sensor & IIoT
Paper Document Digitization
Custom Reports
CLOUD
Cloud Hosting Solution
& Disaster Recovery
AnteaCORE
Asset Library, Document
Management System,
Operation Tracking & Scheduling
Janus
Digital Twin Platform,
Bidirectionally Correlated Asset Data
Between P&ID, Point Cloud & 3D CAD
Rapid3D
Native Rapid 3D Sketch Up CAD Tool
Asset Integrity
App Suite
Antea IDMS
Antea RBI
Antea IOW
Antea PIMS
Antea RA
Antea RCA
Antea E&I
Antea F&S
Antea WMS
Connected Worker
Mobile APP Suite
AnteaMOBILE
AnteaTRACKER
AnteaOPERATOR
AnteaTDATA

OneAPM

Platform

SAP + Antea



ASPM **Equipment** will be mapped to Antea Components, ASPM **Locations** will be mapped to Antea Items.

ASPM **Work Orders** will be mapped to Antea IDMS Due Dates. Uses Apache Kafka to push WO changes.

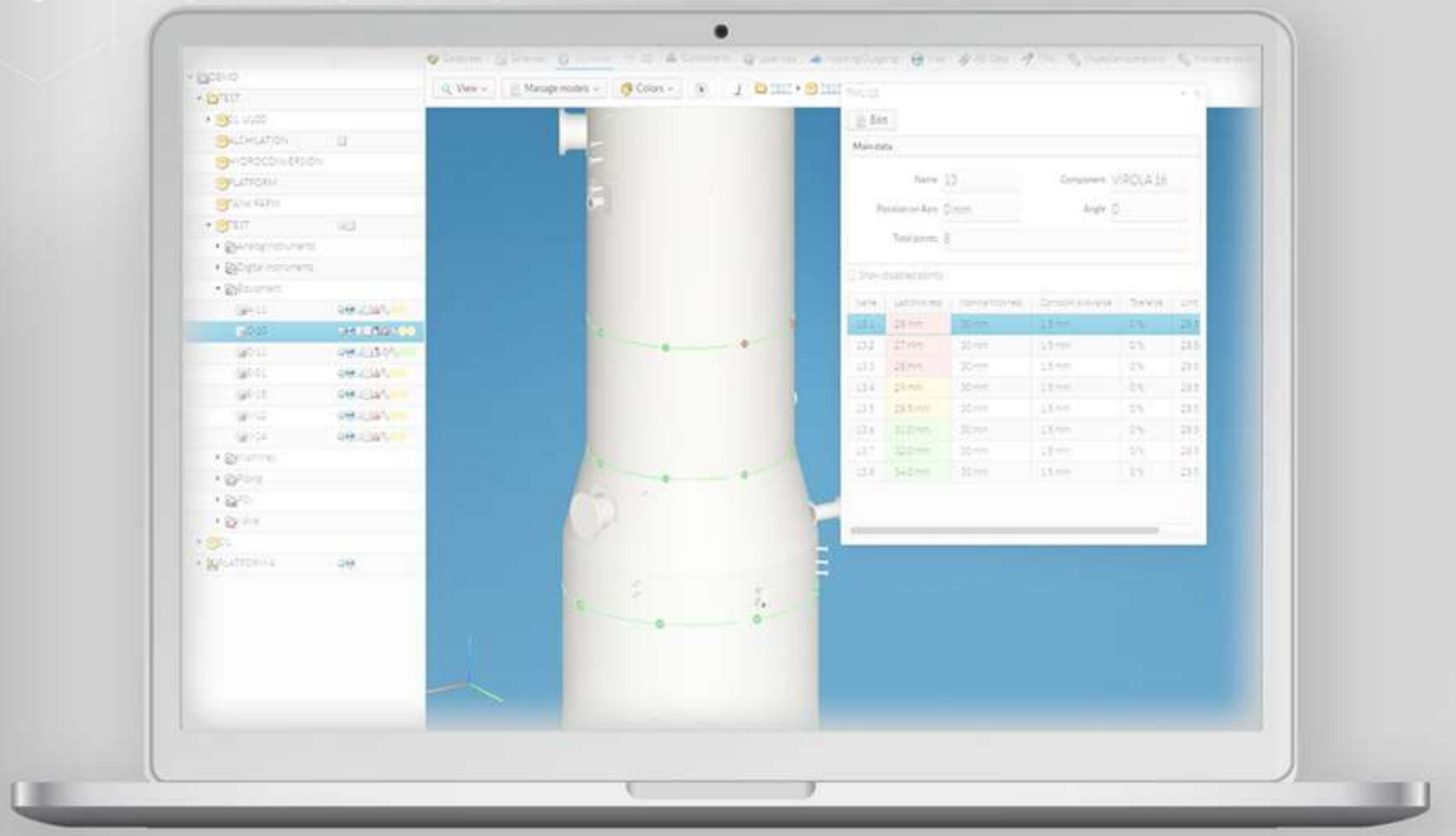
Due Dates completion will be pushed back to ASPM using REST APIs

Inspection Plans as RBI output back to ASPM as **Recommendations**. Using ASPM REST APIs.

Documents and attachments will be retrieved just-in-time from ASPM using REST APIs.

Time-series data may be fetched from an historian to Antea IOW.

IDMS | Inspection Data Management System



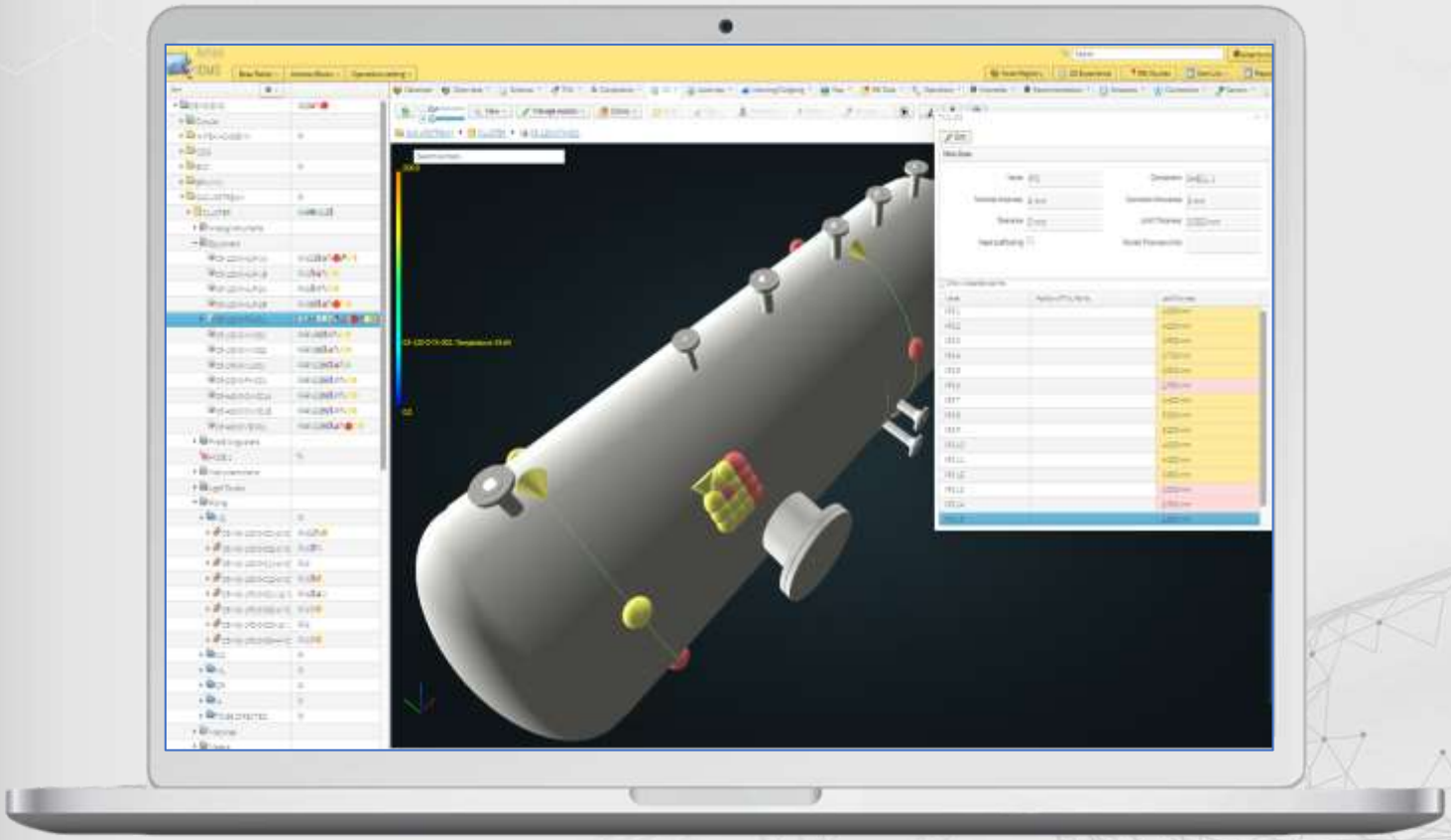
Video

Hundreds of Assets. One Solution.

Seamlessly integrated with Antea CORE, **Antea IDMS** allows you to focus on the management of your pressure equipment, plant pipelines, pressure safety valves and more.

- ✓ Manage all equipment, datasheets, reports and more using color-coded 3D models.
- ✓ Generate inspection or engineering maintenance reports quickly and easily, whenever needed.
- ✓ View individual assets or the entire plant with color-coded 3D models.
- ✓ Schedule inspections or routine maintenance with ease.

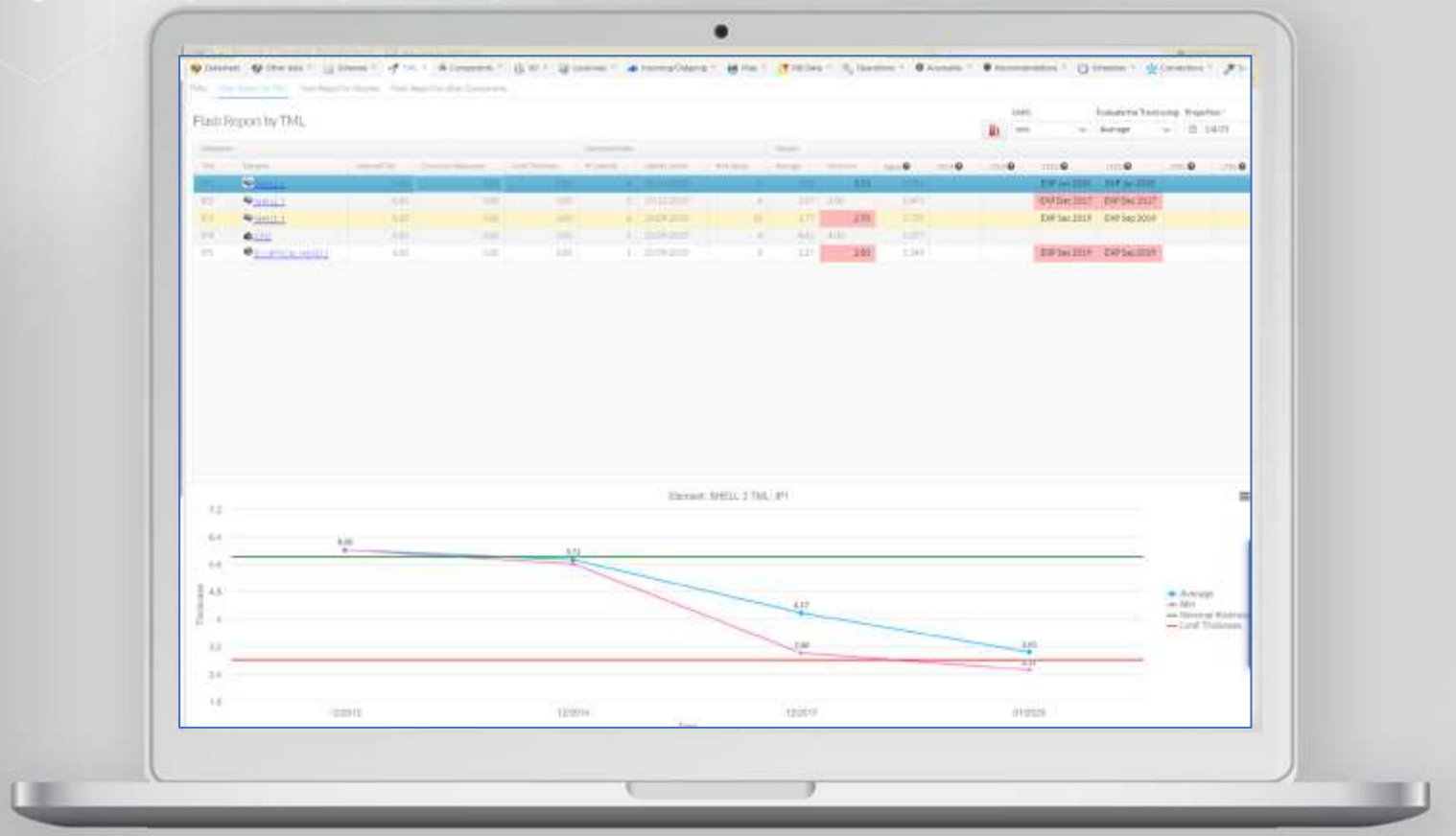
CORROSION MONITORING | Complete solution



Corrosion rate from different source

Corrosion monitoring module allow the comparison of corrosion rate coming from different analysis

- ✓ NDT analysis
- ✓ Corrosion Probes & coupons (CMP)
- ✓ Laboratory analysis



Thickness inspection data

The trend of corrosion will be reported in a graph.
It will be possible to consult it for each TML or for each 3D component (available only if 3D model is present) considering the medium or the minimum thickness values.

These data can be calculated:

S.T.C.R. = Short Term Corrosion Rate

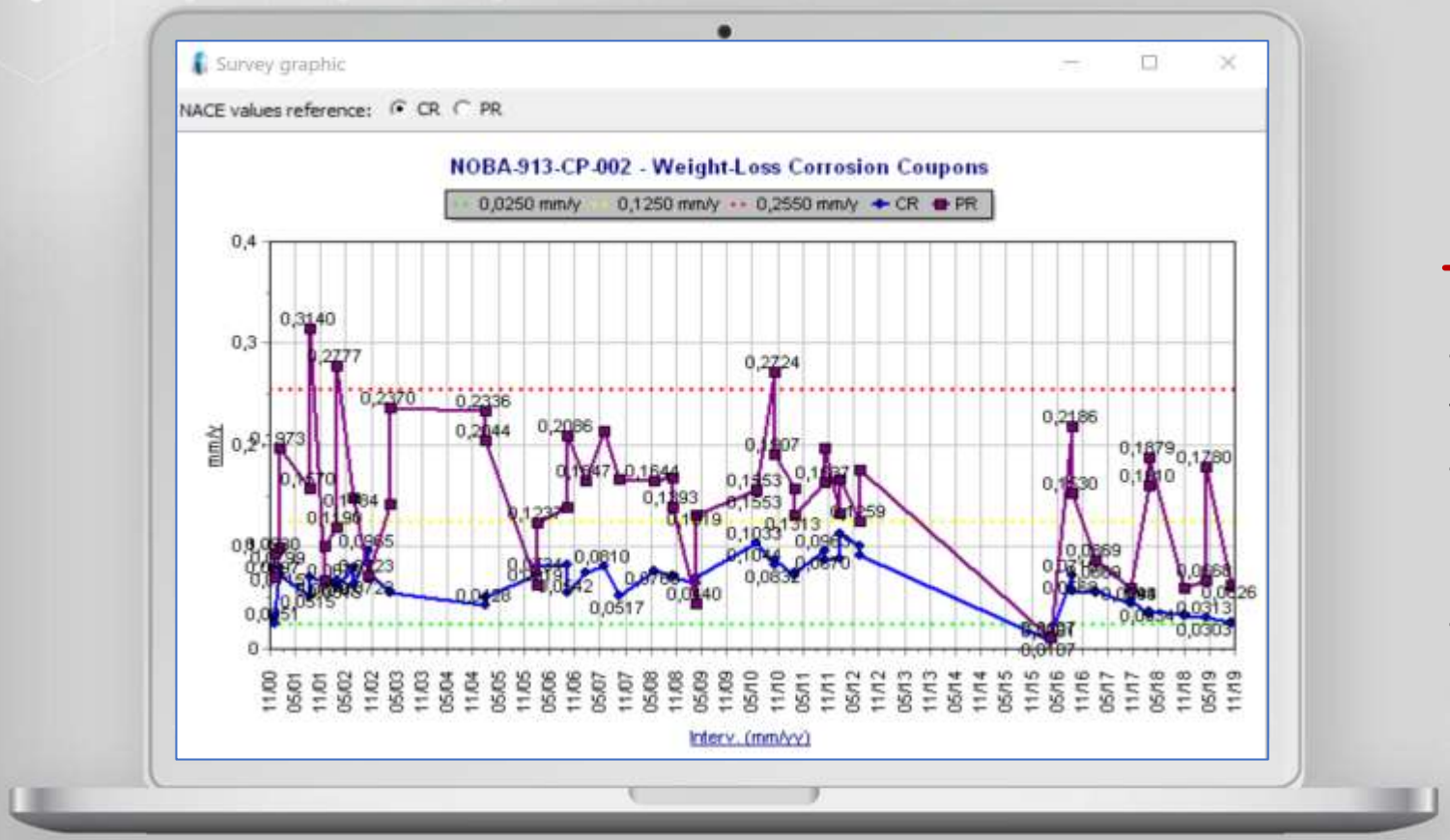
L.T.C.R. = Long Term Corrosion Rate

S.T.E.D. = Short Term Expiry Date

L.T.E.D. = Long Term Expiry Date

S.T.R.L. = Short Term Residual Life

L.T.R.L. = Long Term Residual Life

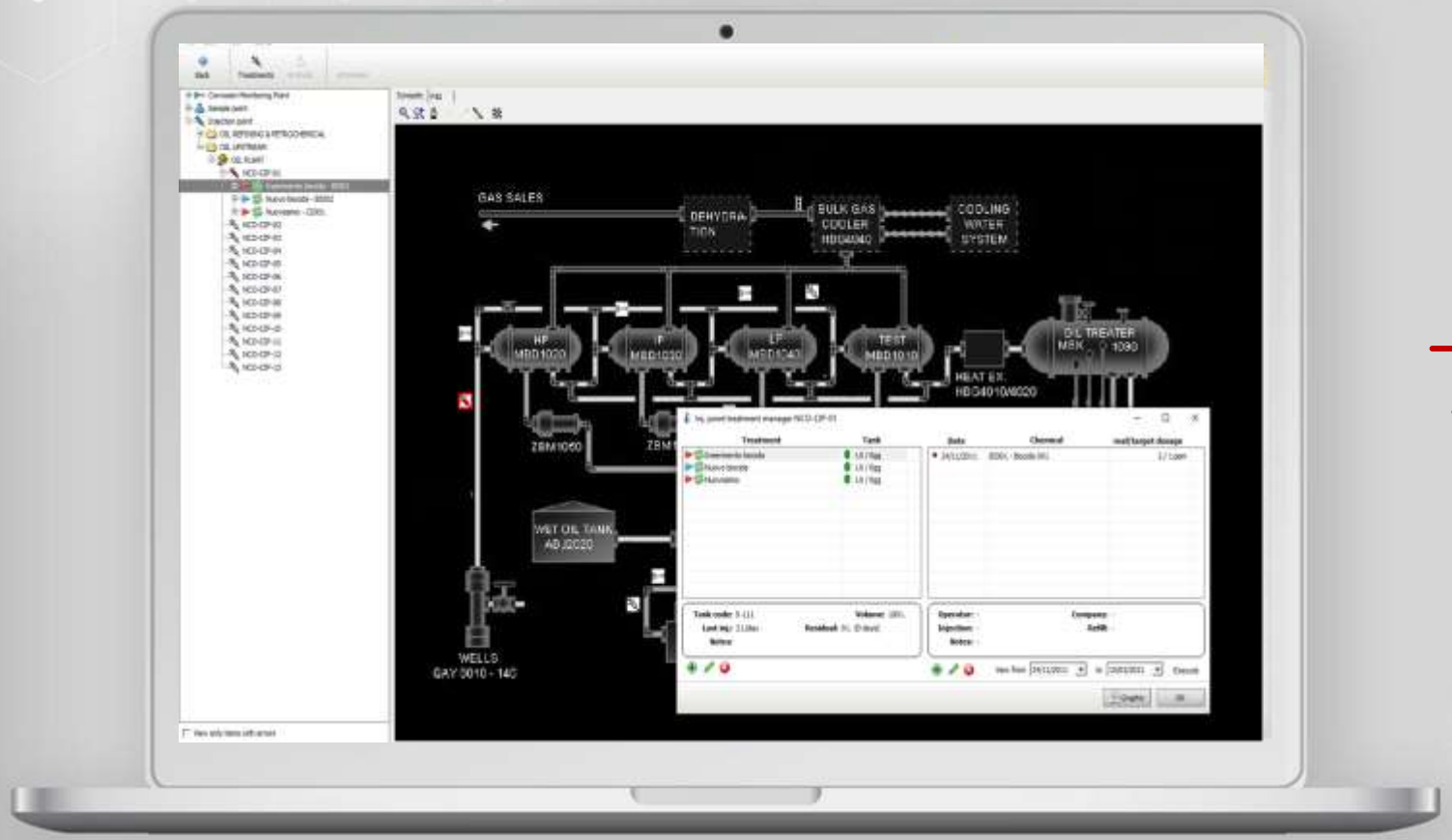


Corrosion Monitoring Points

The trend of inspections will be reported in a graph, both for corrosion rate (CR) and pitting corrosion rate (PCR).

The horizontal stippled lines will be according to NACE Standard RP0775 for corrosion rate and pitting corrosion rate. See table below for reference values.

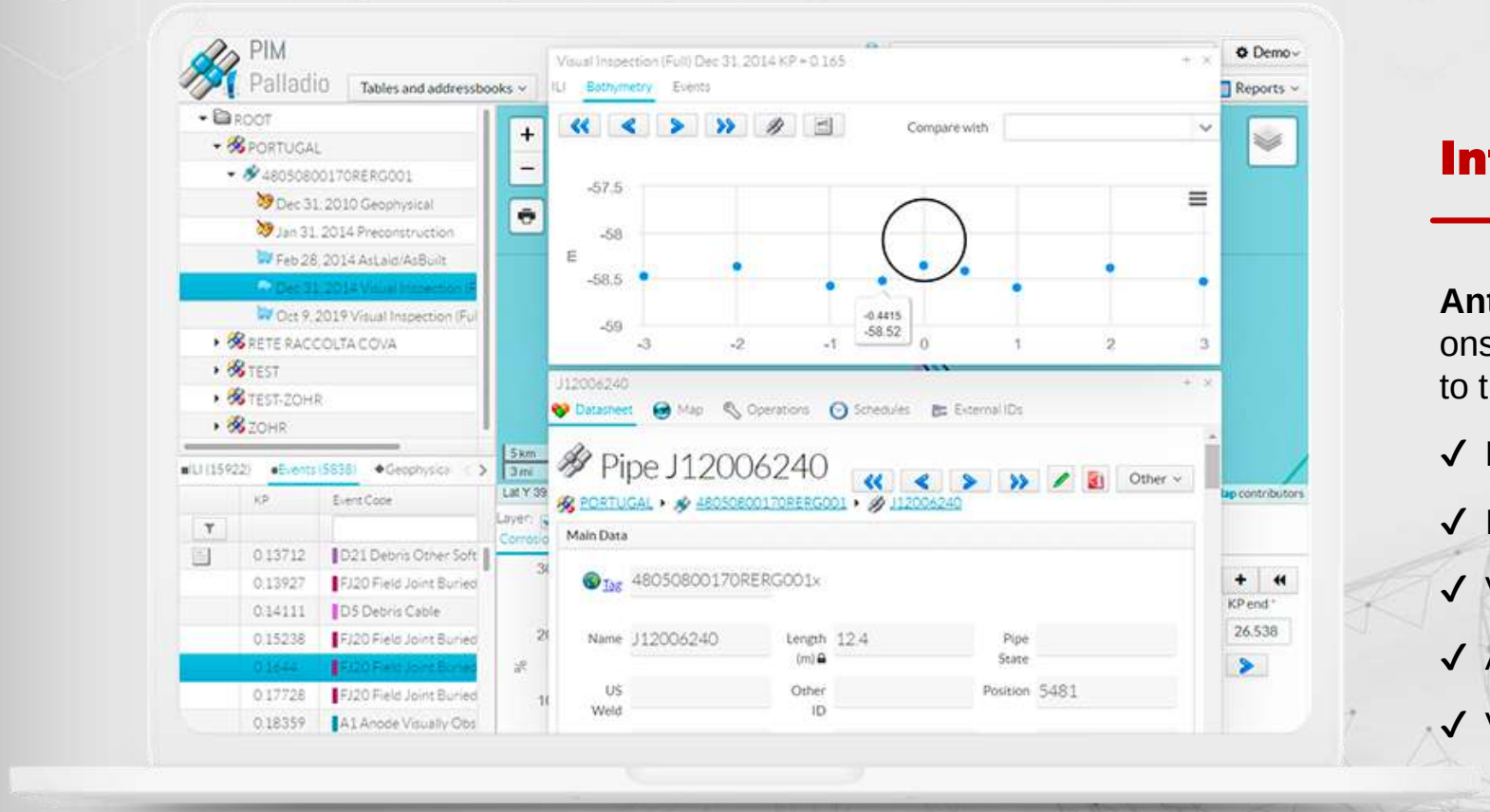
The data can be retrieved also online in realtime



Production Chemicals Management (under development)

The platform can manage all laboratory analysis keeping track of all the corrosion inhibitor treatments and monitoring the stock

PIMS | On-shore/Offshore Pipeline Integrity Management System



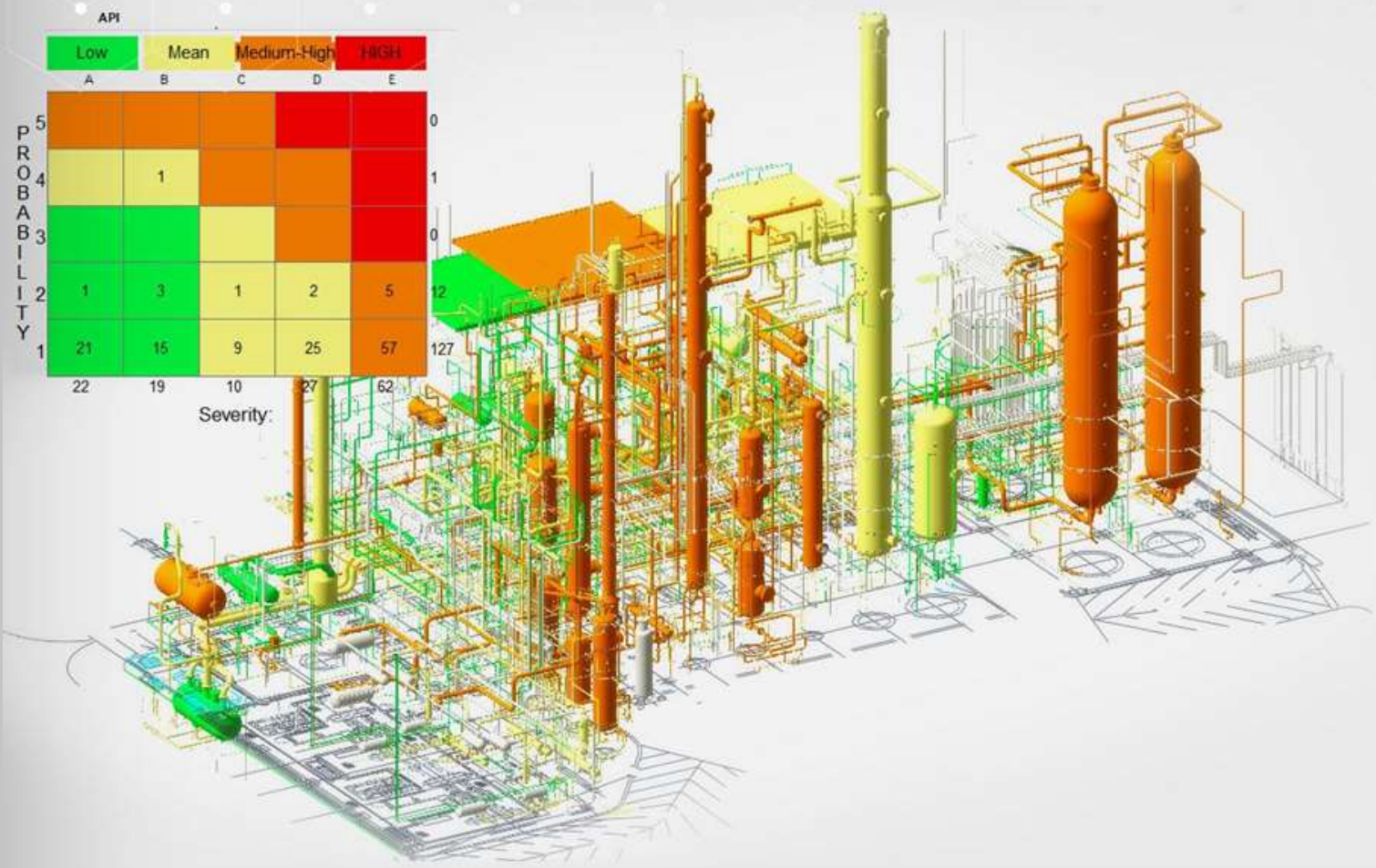
Video

Integrity from Beginning to End

Antea PIMS provides complete management of your onshore or offshore pipeline integrity from pre-construction to the operating phase.

- ✓ Manage entire pipeline lifecycle
- ✓ Import and manage Pig-generated ILI datasets
- ✓ Visualize data in various formats
- ✓ Access external inspections
- ✓ View various pipeline surveys

RBI | Automated Risk Based Inspection Calculation



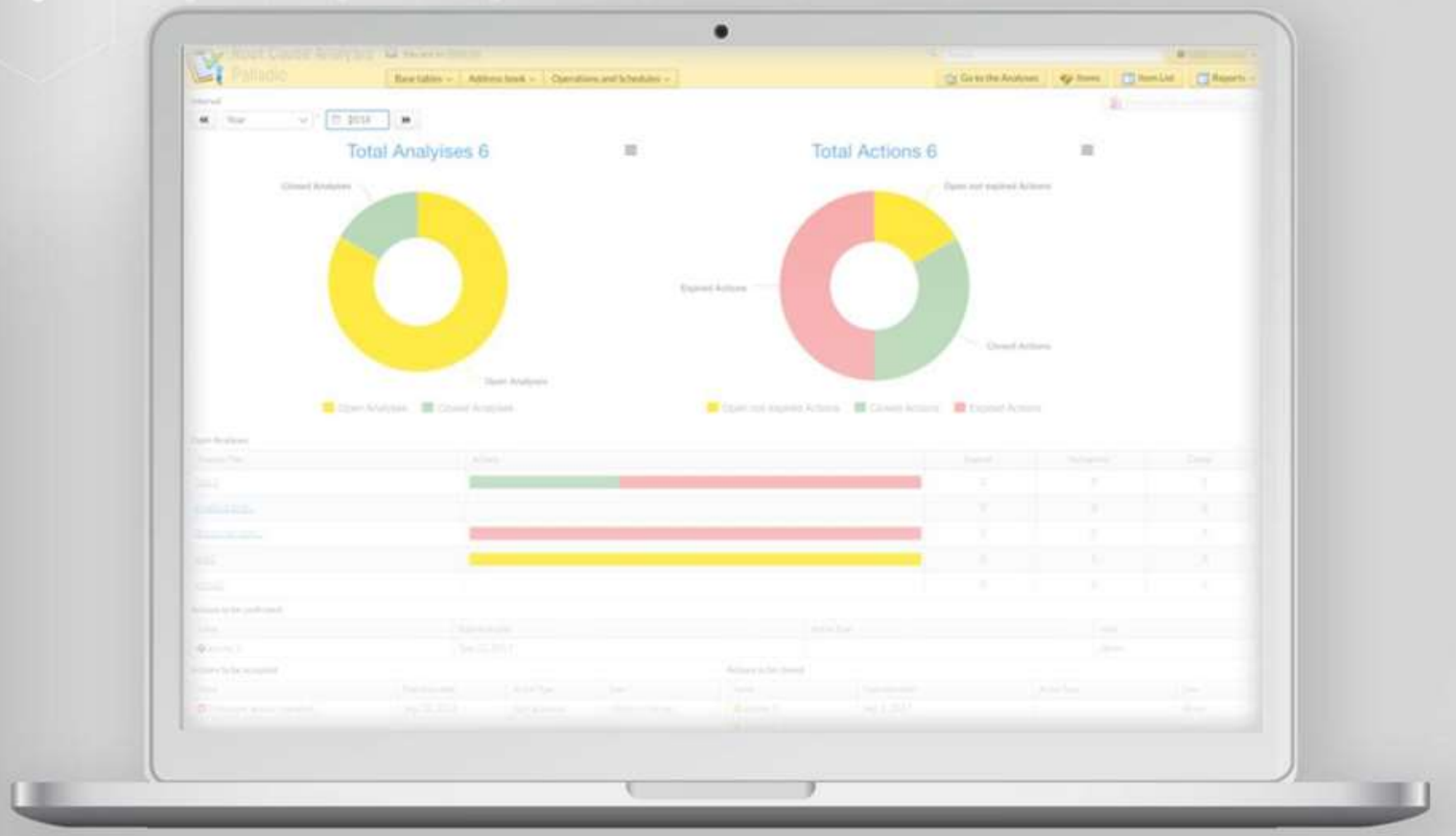
Video

Improving Your Reliability

Antea RBI performs qualitative, semi-quantitative and quantitative risk-based analyses to evaluate the probability and severity of failures in your plant.

- ✓ Compare RBI matrices
- ✓ Immediately identify critical items
- ✓ Detailed inspection plans provided
- ✓ Prevent future incidents
- ✓ API 581 compliant

RCA | Root Cause Analysis



Video

UNDERSTAND THE PROBLEM

Gain instant access to critical information regarding malfunctions with **Antea RCA**.

- ✓ Track entire analysis process
- ✓ Manage all work progress
- ✓ Assign responsibilities and send alerts

Real-Time Data, Real-World Results.

Antea IOW displays real-time data, allowing you to monitor the limits your assets can operate under.

- ✓ Visualize real-time data
- ✓ Create custom-defined rules
- ✓ Manage sensor locations
- ✓ Color-coded digital twin
- ✓ Automated notifications
- ✓ Based on API RP 584

Video

ASSET INTELLIGENCE IN THE FIELD

The Antea mobile app suite allows you to access Antea modules conveniently through your phone or tablet. Visualize the hierarchical structure of items, attachments, statuses, 2D schematics and the item's location on the point cloud provide various tools to help connect field technicians, equipment and data.

- **ANTEA MOBILE**
- **T-DATA**
- **OPERATOR ROUNDS**
- **ASSET TRACKING**

*Antea mobile apps work also on **Atex** tablets that are commonly used in plants.*

They can be easily used online and offline.

Video

ANTEA MOBILE

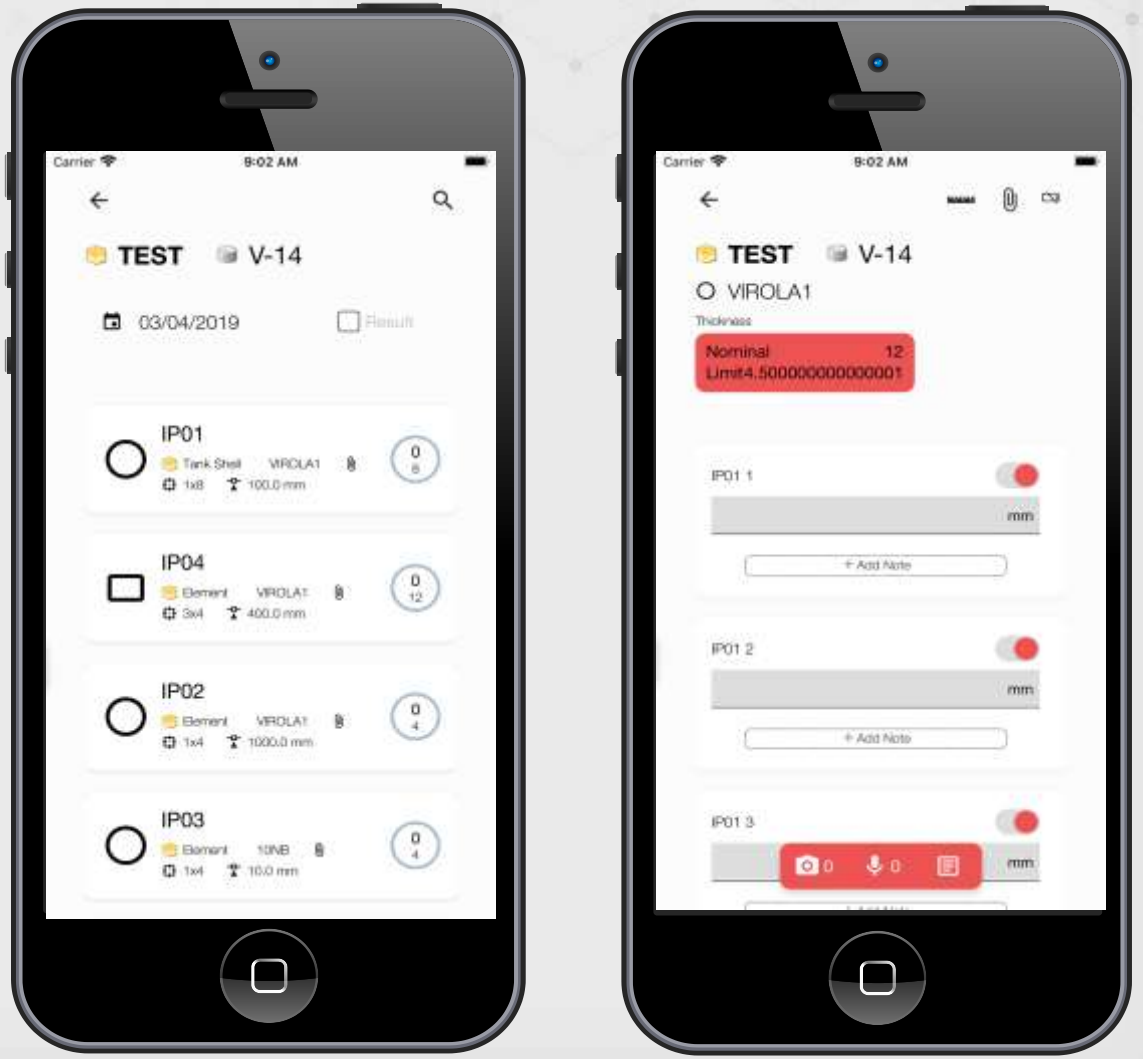
Antea Mobile provides mobile navigation of all your plant's assets and easily view data, attachments, 3D models and more.

- **View data, attachments and schedules**
- **View position in P&ID and in your plant**
- **View 3D models and point clouds**

T-DATA

T-Data is engineered for accurate thickness inspections, allowing for a seamless upload of results directly to your database.

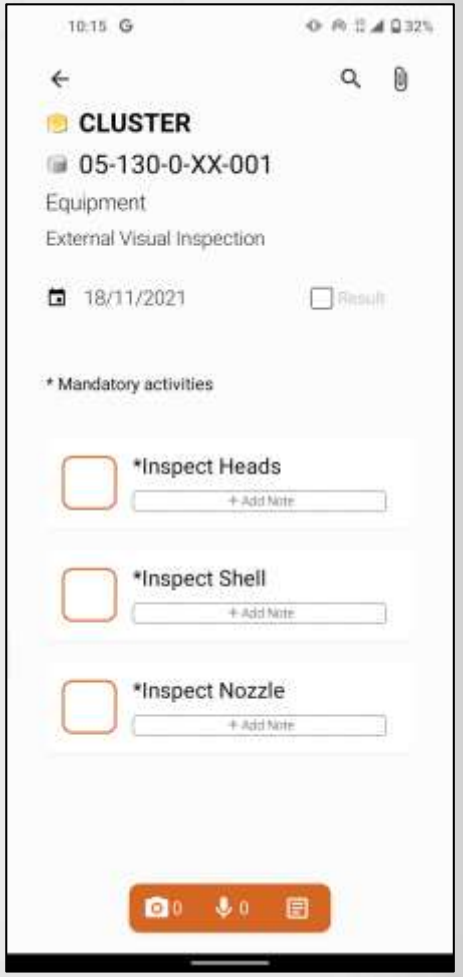
- **Perform accurate thickness inspections**
- **Seamlessly upload results to database**



OPERATOR ROUNDS

Operator Rounds is designed to help you execute your visual inspections and tasks, providing on-field inspectors the list of activities to perform and allows for data to be directly uploaded to your database.

- **Execute visual operations**
- **Provides workers with a to-do list**
- **Upload data directly to database**



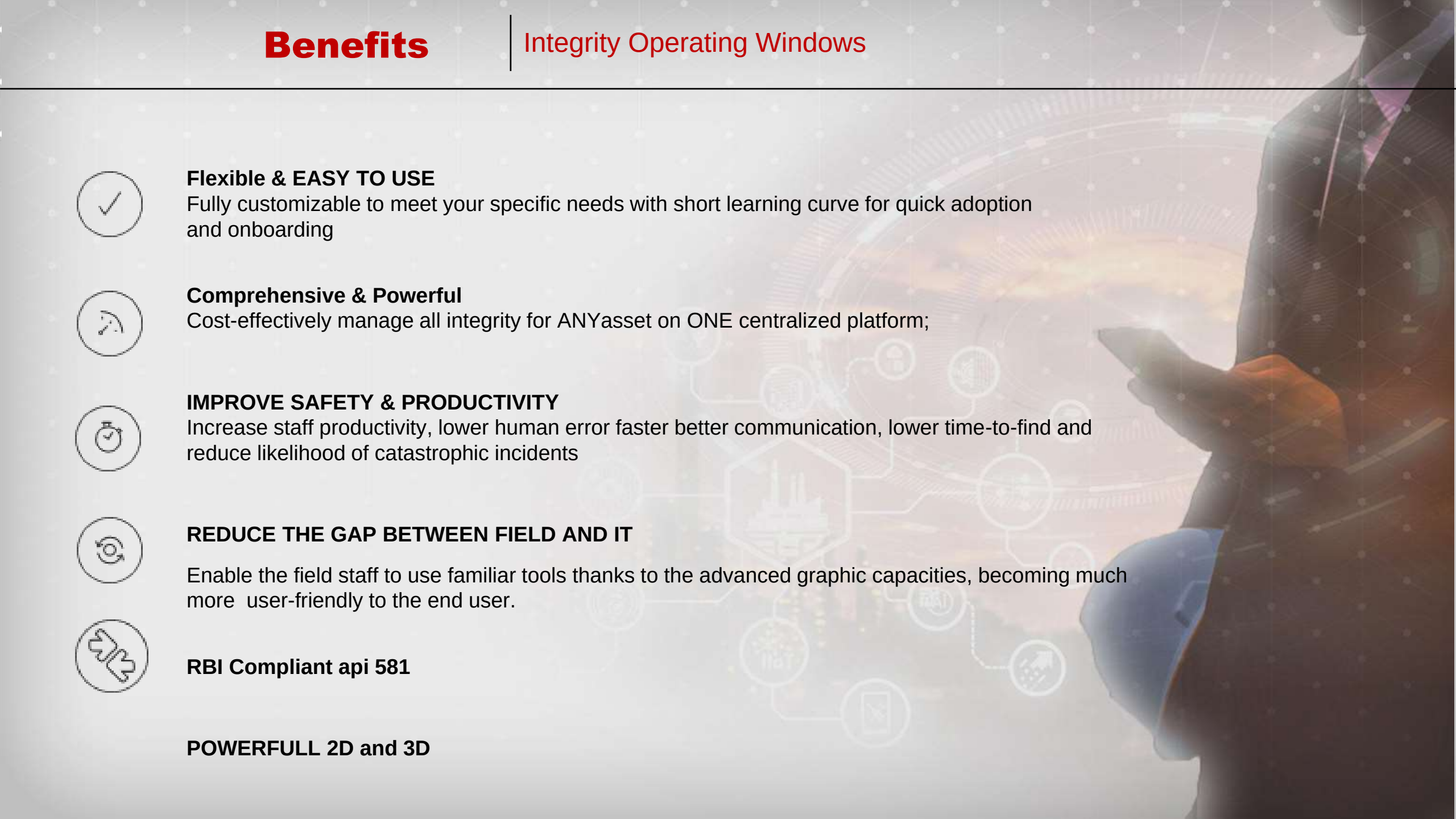
ASSET TRACKING

Asset Tracking scans QR codes and provides complete asset information, including all maintenance history, allowing seamless access to information.

- **Search and add items in asset registry**
- **Associate position through GPS sensor with items**
- **Take photos and attach to items**

Benefits

Integrity Operating Windows



Flexible & EASY TO USE
Fully customizable to meet your specific needs with short learning curve for quick adoption and onboarding

Comprehensive & Powerful
Cost-effectively manage all integrity for ANYasset on ONE centralized platform;

IMPROVE SAFETY & PRODUCTIVITY
Increase staff productivity, lower human error faster better communication, lower time-to-find and reduce likelihood of catastrophic incidents

REDUCE THE GAP BETWEEN FIELD AND IT

Enable the field staff to use familiar tools thanks to the advanced graphic capacities, becoming much more user-friendly to the end user.

RBI Compliant api 581

POWERFULL 2D and 3D

Antea

Supervisor	Franco Gambato	
Name of file	Antea Presentation	
Revisions		
R04 16/12/21		
R05 21/11/21	Diletta Realdon	Update
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