



BUSINESS CASE

Enhanced Inspection Efficiency and Cost Savings with IMS PEI

Product: IMS PEI
Sector: Oil & Gas
Subsector: Downstream

THE NEED

Thaioil is one of Thailand's leading integrated petroleum and petrochemical companies. The company's primary business activities include crude oil refining, petroleum product manufacturing, and the production and distribution of petrochemical products.

Thaioil derived value from Cenosco across three different areas. Firstly, there was room for improvement in their inspection management system, which had multiple modules and tools spread across different areas. Secondly, Thaioil wanted to transform their manual inspection planning processes and execute them more efficiently. Lastly, the company wanted to balance the volume of inspections during routine operations and major turnaround (MTA). These areas presented opportunities for enhancing their inspection management processes, optimizing resources, and further improving operational effectiveness, which Cenosco successfully addressed.



THE RESULTS

To address the areas of improvement identified by the company, the proactive inspection team at Thai Oil recommended considering the implementation of Cenosco's IMS PEI, a cloud-based software solution for Pressure Equipment Integrity.

Centralized inspection management system

By implementing IMS PEI into their operations, Thairoil's inspection team was able to benefit from a comprehensive, fully digitalized, and integrated system. The introduction of this system provided them with advanced capabilities, including accurate corrosion prediction and monitoring. The utilization of IMS PEI enhanced their ability to proactively identify and mitigate potential risks, leading to improved operational reliability and safety within their facilities.

Efficient Digital inspection test planning

Upon introducing a Digital Inspection Test Plan within IMS, the company achieved cost savings by streamlining their inspection processes and optimizing resource allocation. This efficiency gain allowed Thairoil to allocate their resources more effectively and focus on other critical tasks. Finally, the adoption of IMS PEI enabled faster inspection execution, which allowed Thairoil to respond swiftly to severe Corrosion Under Insulation (CUI) problems.

Balanced inspection volume during routine and MTA

Thairoil implemented IMS PEI's s-IDAP (Shell Inspection Data, Analysis, and Plotting) and EVA (Extreme Value Analysis) solutions, which resulted in improved inspection effectiveness and optimization in the inspection scope. The integration of s-IDAP within IMS PEI allowed for optimum inspection work scope.



Cenosco and the IMS Suite

INTEGRITY MANAGEMENT SYSTEMS

Cenosco is the leading provider of asset integrity management software.

For over 20 years, we have been leading the way in product innovation across asset-heavy industries, including Oil and Gas, and chemical manufacturing. Our IMS Suite of solutions was designed to support users in making smart inspection and maintenance decisions to increase safety, maximize asset availability, and optimize asset management costs.

Meet IMS

IMS is a unified asset integrity management solution suite for all your equipment types and processes. The range of IMS products can be deployed individually or together, and each component complements the others seamlessly.



IMS PEI

Pressure Equipment Integrity

Manage equipment integrity using RBI methodology and advanced corrosion calculations.



IMS RCM

Reliability Centered Maintenance

Optimize preventive maintenance plans based on risk and take advantage of our library of maintenance strategy templates.



IMS SIS

Safety Instrumented Systems

The perfect solution for your end-to-end Safety Life Cycle analysis.



IMS FCM

Flange Connection Management

Manage critical flanges with a strict guided maintenance protocol.



IMS PLSS

Pipeline and Subsea Systems

Manage pipeline and subsea system integrity, performing In-Line Inspections (ILI) and Fit-For Service (FFS) calculations.



IMS CIVIL

Manage Civil Structures

Manage equipment integrity with RCM and RBI methods adapted for civil degradation dynamics.

[Learn More](#)



Why IMS?

The IMS Suite of solutions was designed to support users in making smart inspection and maintenance decisions to increase safety, maximize asset availability, and optimize asset management costs. Our domain expertise goes deep into the assets, and with our fully integrated software, you can centralize your maintenance and inspection efforts.

- ✓ Keep your people safe
- ✓ Gain control over your assets
- ✓ Manage your assets with ease
- ✓ Comply with regulations
- ✓ Avoid leaks and other disasters
- ✓ Exclusive Methodologies and Libraries

OUR SOLUTIONS ARE USED GLOBALLY

We're deployed in over 40 countries across the globe.

11,000+

ACTIVE
USERS

200+

DEPLOYED
ASSETS

20+

YEARS OF
EXPERIENCE

Proven Results

- ✓ 20% Inspection cost reduction
- ✓ 30% Turnaround time reduction
- ✓ €100K - € 100M Savings per leak prevented

Trusted by world leaders

