

Managing process reliability and safety with TÜPRAŞ

Sector: Oil & Gas
Client: Tüpraş
Module: SIFpro
Timeframe: 10+ years

THE NEED

Operating four oil refineries, with a total annual crude-oil processing capacity of approximately 30 million tons, Tüpraş is a leading producer in Turkey's refining sector and the country's largest industrial enterprise.

Tüpraş manages its safety instrumented functions using SIFpro and supports its operations with reliable, high-performing safety software that works for each site, as well as making risk performance accessible company-wide with one interface for all refineries.

THE ASSIGNMENT

As a multi-faceted and comprehensive program, SIFpro enables Tüpraş to review and analyze more than just SIFs.

From instrument failure rates and maintenance Task Interval Optimization to LOPAs and SILs.



"Each of our refineries has between two and three thousand safety instrumented functions (SIFs) in place to protect our people and equipment. Cenosco's program is robust and easy to use – it eliminates daily problems and gives us peace of mind.

Doğuş Uzun

Process Control Superintendent at
Tüpraş İzmir Refinery

THE APPROACH

Throughout the collaboration between Tüpraş and Cenosco, the teams have worked together to create valuable feedback –upgrade cycle.

This ensures that the software always meets Tüpraş's needs as well as complying with all international standards, including IEC 61508/61511.

THE RESULTS

The SIFpro software shows users all the key information they need on a single dashboard and provides clear links between process safety and reliability issues.

Moreover, the latest versions of SIFpro are hosted on a central server, avoiding any delays in downloading or uploading information.

Tüpraş has been using SIFpro for more than a decade.

THE FUTURE

The teams at Tüpraş and Cenosco are planning to grow their partnership, with more upgrades in the pipeline.

The overall goal is to increase the visibility of the intricate relationships between safety processes and equipment maintenance and reliability.

"Cenosco listens to our feedback and understands our concerns.

Safety processes are paramount, but better safety is closely linked to maintenance cost optimization, reduced downtime, and other efficiencies.

Over the years, we've provided a lot of feedback on the different features of the program and on the overall dashboard, and with every upgrade we can see how it has all been taken into account.

SIFpro is constantly being improved, so, even if our processes change, we know we can rely on the software.

SIFpro has long been essential to our daily operations at Tüpraş. That's a big advantage in our eyes!"

Doğuş Uzun

Process Control Superintendent at
Tüpraş İzmir Refinery

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

