



USE CASE

# Upstream Mechanical Integrity



## Key Takeaways

- *All asset integrity data in a single platform, agnostic to the source technology and format.*
- *Easy integration with the system of record to ensure continuity across workflows*
- *Own your data and standards by securely enabling Inspection Vendors with your standard processes.*

## Challenge

Plant turnarounds account for 5% of the operating time, yet 40% of unexpected equipment failures occur during associated shutdowns and startups. Since there is a limited time a plant can be shut down, teams must work quickly to perform necessary maintenance and repairs, often with incomplete information. Without NDT technology and IDMS systems to standardize information in one place, asset condition was often obfuscated.

NDT technology is advancing at an astonishing rate, delivering hugely beneficial inspection efficiency; it also delivers a massive amount of data, resulting in data aggregation and management challenges, as well as complexity in garnering insights. This includes individual assets and the complex operating ecosystem of connected assets. Now factor in the loss of experienced personnel to navigate this data deluge in an environment with ever increasing regulatory requirements, and you have the perfect storm to threaten upstream efficiency.

Capacity, capability, and competency within the inspection industry are key areas of concern for asset owners and operators to ensure the mechanical and regulatory integrity of their assets. Non-standardized data formats within isolated or proprietary operating systems that don't directly integrate with the system of record can easily result in delayed actions that can have dire consequences.

## Solution

HUVR's inspection data management software (IDMS) platform can streamline your upstream asset inspection workflow. All inspection data, regardless of source and format, can be hosted on the platform, which can serve as the link between service providers using state-of-the-art NDT technology and your system of record. HUVR's IDMS provides dashboards and analytics

for immediate insight about an asset's health, enabling quick classification and reporting of any visual or data-driven finding, facilitating timely action to investigate further or immediately remediate.

## Outcome

By using the HUVR IDMS platform to handle your upstream asset inspection data, leveraging the benefits of robotics, visual data or NDT measurements is seamless. Consequently, the choice of inspection provider based on capacity, capability or competence becomes less of an issue—plus, cybersecurity concerns are greatly reduced. Furthermore, data aggregation and management constraints are loosened, enabling you to finally leverage the true benefits of your system of record with the elimination of manual intervention.

With the removal of these fundamental barriers, your mechanical integrity and compliance teams can focus on the inspection findings and not data management, devoting more of their time to managing asset performance, which results in safer and more productive assets. The invaluable information gathered can now be evaluated, not only specific to the individual asset, but also in the context of the connected asset ecosystem. This reduces downtime and improves turnaround efficiency thanks to reduced unplanned-for equipment failures. This results in the ability for stakeholders to recognize trends once hidden in discrete silos, save money, and increase the bottom line safely.

Two supermajor O&G companies have adopted the HUVR IDMS platform as their system of record for inspection data specific to their global production and refining assets, with the usage in the inspection and integrity management of unique and specialized asset components. While the actual value and dollar amount saved varies by application, HUVR can help you realize the result.

**Interested in learning more about HUVR?**  
Schedule a 1-on-1 demo.

Contact [sales@huvrdata.com](mailto:sales@huvrdata.com) to schedule today