

CUSTOMER CASE STUDY

BUILDING THE DIGITAL BACKBONE FOR A 40-YEAR LNG OPERATION

In LNG megaprojects, even small data errors can cause costly delays.

A consortium developing one of the world's largest export terminals needed a governed system to manage engineering and operational documentation over a 40-year lifespan.

Assai DMS became the project's digital backbone - a cloud-based environment delivering secure access, full traceability, and readiness for Digital Twin integration across the asset lifecycle.

CHALLENGE

Operating at this scale demanded complete control over data and compliance.

- Multiple partners and remote sites under stringent regulatory oversight
- Fragmented systems led to duplication and version conflicts
- The project required an auditable framework to ensure long-term asset integrity

RESULT

Area	Outcome
Document retrieval & review time	↓ 60%
Rework due to version errors	↓ 70%
Audit preparation effort	↓ 65%
Return on investment	< 12 months



THE ASSAI SOLUTION

Deployment and adoption were completed within six months across all partner organizations. Assai DMS replaced disconnected legacy tools with one governed environment.

Key capabilities:

- Structured workflows for revisions, approvals, and transmittals
- Full audit trail and traceability for every document
- Role-based permissions safeguarding data integrity
- Secure browser-based collaboration across all project locations
- Integration-ready architecture for CMMS, and digital twin systems

This architecture provides the foundation for future Digital Twin integration, ensuring that every piece of project information remains synchronized between physical assets and their virtual counterparts.

PROJECT INSIGHT

Assai DMS strengthened data confidence and reduced administrative overhead, enabling faster reviews, smoother collaboration, and reliable handovers between engineering and operations.

STRATEGIC VALUE

Assai DMS serves as the control and compliance backbone of the LNG project, ensuring every document remains secure, traceable, and accessible across decades of safe, efficient operation.