

case study

Mobideo and AIS partner to enhance refinery turnarounds with R2S

James Fisher AIS partnered with Mobideo to deliver a digital twin solution that enabled a downstream energy company to access critical information across multiple refineries.

LOCATION: USA



START / END DATE:
MARCH – JUNE 2024

Our solution

The R2S Digital Twin combined visual data from laser scans and photogrammetry to create a detailed visualisation of the refinery. With this capability, the customer could access critical information such as equipment specifications and work orders within the digital model.

- Layered STO work pack data onto the 3D environment
- Offered valuable insights into the refinery's infrastructure and processes
- Reduced costs by enabling stakeholders to conduct virtual walkdowns and access essential data remotely
- Streamlined operations and significantly improved planning

Our impact

- Improved pre-planning and site assessments for all stakeholders
- Minimised delays by offering more accurate work packages and schedules
- Enhanced safety permit-to-work planning and cost-saving on travel for vendor walkdowns
- Reduced rework and ambiguity
- Enhanced communication and alignment among teams
- Improved emergency response and awareness of work areas
- Expedited post-turnaround evaluations, leading to better policies, procedures, and execution strategies

The challenge

Managing STO (shutdown, turnaround, outage) events across multiple geographically dispersed refineries was challenging for the customer due to fragmented data and disconnected software tools. This lack of integration resulted in limited plant visualisation, inefficiencies in planning, higher costs, and poor visibility for stakeholders.