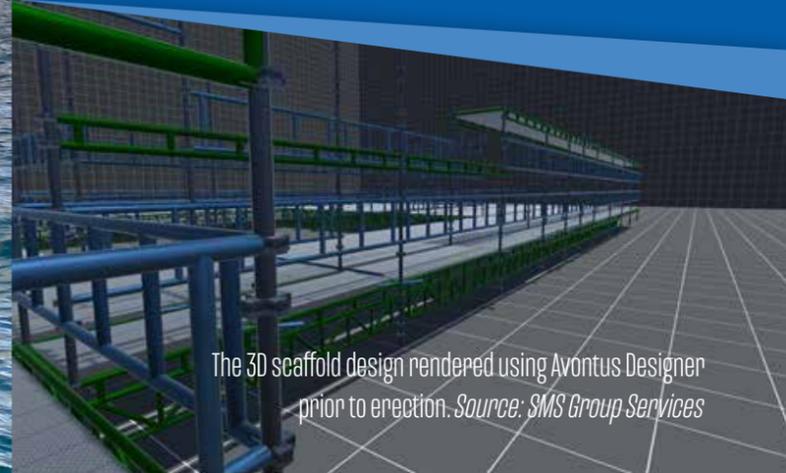


The hanging scaffold on the underside of the Kwinana Jetty. Source: SMS Group Services

Scaffolding Services Specialist



The 3D scaffold design rendered using Avontus Designer prior to erection. Source: SMS Group Services

Operated by Fremantle Ports, the 500m-long Kwinana Bulk Terminal Jetty houses Kwinana Bulk Berth 2 (KBB2) and is one of Australia's major bulk cargo ports.

The jetty is often bustling with ships loading and unloading various bulk products including grain, mineral sands, coal, iron, gypsum, bauxite, sulphur, iron ore, liquid petroleum gas, and several other commodities.

The underside of the jetty needed maintenance and repair due to years of heavy usage, corrosion and damage from weather and the ocean. However, reaching the underside is challenging as it requires safe access that is well-protected from large ships and harsh weather conditions.

SMS Group Services, a Western Australian scaffolding company established in 2001,

had an existing maintenance contract with Fremantle Ports and was enlisted for the project. With over 20 years' experience, SMS offers a full range of scaffolding services including access management, engineered access solutions, shutdown and sentry services, and more.

This project was challenging and unique from the beginning and the only option for the build was the HAKI Universal System Scaffold. HAKI would provide the crew with safe access to the underside of the jetty, meet the safe working load design requirement, and ensure that the port was still functioning as normal during the scaffold build.

Prior to building the scaffold, SMS Group developed the HAKI design using Avontus Designer.

With this industry-leading scaffolding

system and design software, they were able to visualise how the scaffold would tie into the jetty, and how to navigate the difficult build areas.

Using HAKI's adaptability and the Avontus software, they could also easily identify any safety hazards prior to erection to avoid project delays during the build phase. The plan came together in detailed 2D and interactive 3D models, easily amended if the scope of work changed.

SMS staff said Avontus Designer and HAKI equipment, together, provided an edge over competitors. "We can provide a defined scope of what we're going to build, giving our clients a clearer understanding of the project delivery plan, even in the concept stage. The engineers can efficiently review our work, enabling them to certify that the design will not only be compliant with legislation but also engineered to specifically

fit the project's needs," they said.

SMS selected the HAKI Scaffolding System for the project because of the efficiency and ease that the system provides.

With HAKI, SMS achieved tight target hours during the build by utilising the system's flexibility, light and durable equipment, and reduced material tonnage.

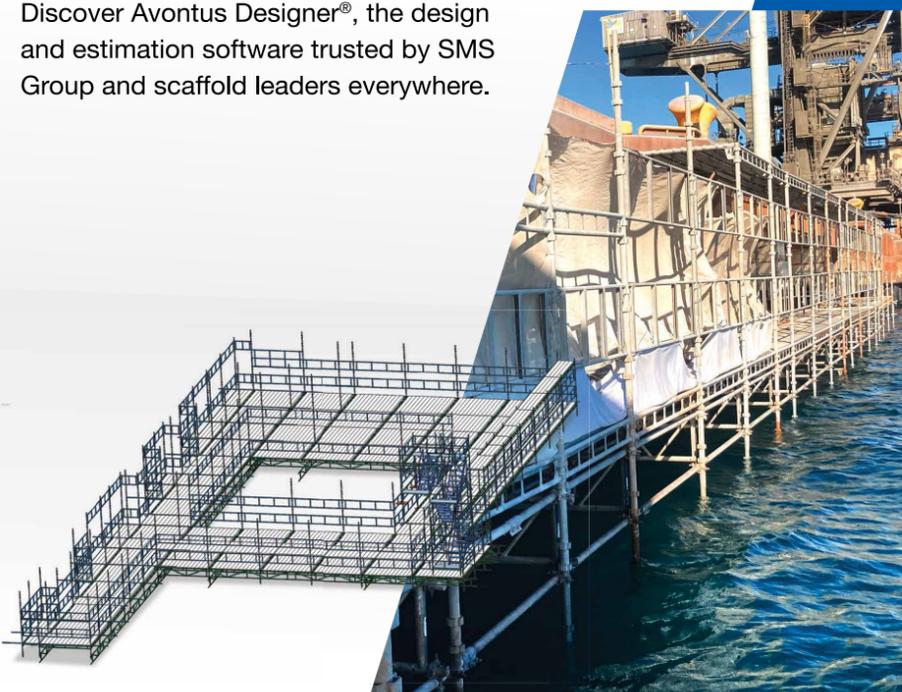
The result was a large hanging scaffold on the underside of the jetty that allowed for full functionality of the facility during the erection phase.

By using HAKI Universal and Avontus Designer, SMS Group was able to maintain high efficiency targets during limited build windows and overcome the safety challenges when accessing difficult areas of the jetty. **AMR**



WHAT YOU PLAN IS WHAT YOU GET

Discover Avontus Designer®, the design and estimation software trusted by SMS Group and scaffold leaders everywhere.

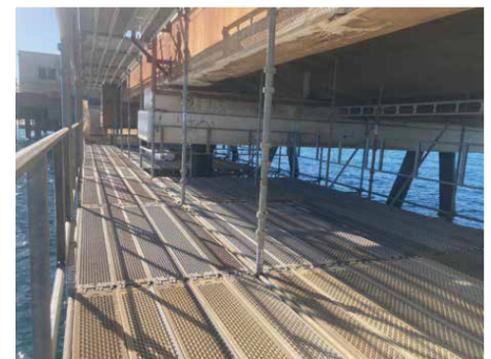


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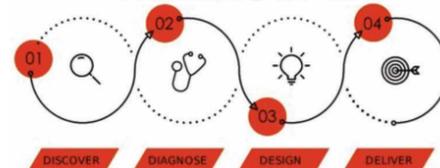
SMS Group Services allows you to access all areas with HAKI Universal and Avontus Designer.

- Discover
- Diagnose
- Design
- Deliver



HAKI is ⇨	✓ LIGHTER by:	✓ FASTER by:	✓ SAFER by:	✓ MORE COST EFFECTIVE by:
Tube & Clip	24.0%	76.7%	38.4%	76.7%
Kwikstage	21.0%	61.6%	31.0%	61.6%
RingLok	9.2%	32.0%	13.8%	32.0%

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