Case Study



Customer
Square Kilometre Array Observatory (SKAO)

Industry
Scientific Research & Radio Astronomy

Country
South Africa/Global

Products and Services
Dark Fibre Infrastructure, Colocation Services, Operations & Maintenance

> "The optical fibre solution forms a critical part of the backhaul route carrying up to 20,000 gigabits per second of astronomy data. The quality, uptime and availability of this route are essential to ongoing scientific observation and research."



Situation

SKAO required a resilient fibre network connecting the 197-dish telescope array in the Karoo to Bellville and the Science Processing Centre at iThemba Labs, capable of carrying enormous volumes of scientific data.



Solution

Liquid delivered 554.6 km of dedicated dark fibre, alternative routes, colocation services and ongoing operations and maintenance to provide secure, scalable connectivity.

The network supports up to 20,000 Gbps of astronomy data, enabling uninterrupted scientific observation, research and global collaboration.

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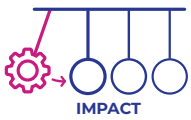
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Impact

Liquid enables one of the world's most ambitious scientific projects through resilient digital infrastructure that powers discovery and innovation, providing:

- Reliable transport of mission-critical scientific data
- Improved network resilience through route diversity
- Scalable infrastructure supporting future growth
- High availability for ongoing observation and research
- Secure connectivity supporting a globally significant scientific facility
- Enhanced collaboration between research and processing centres