



Complex rail communications. Delivered with certainty.

From legacy transition and in-house core and RAN network integration to 24/7 onshore network operations and monitoring, BAI connects every stage through one accountable delivery model.

Rail operators are under pressure to maintain ageing mission-critical infrastructure while preparing networks for greater capacity, automation and resilience. Every upgrade must integrate with live operations, safety systems, rolling stock and emergency services, often across multiple technologies and suppliers. BAI brings the technical depth and delivery discipline to manage that complexity from first design through long-term operations.



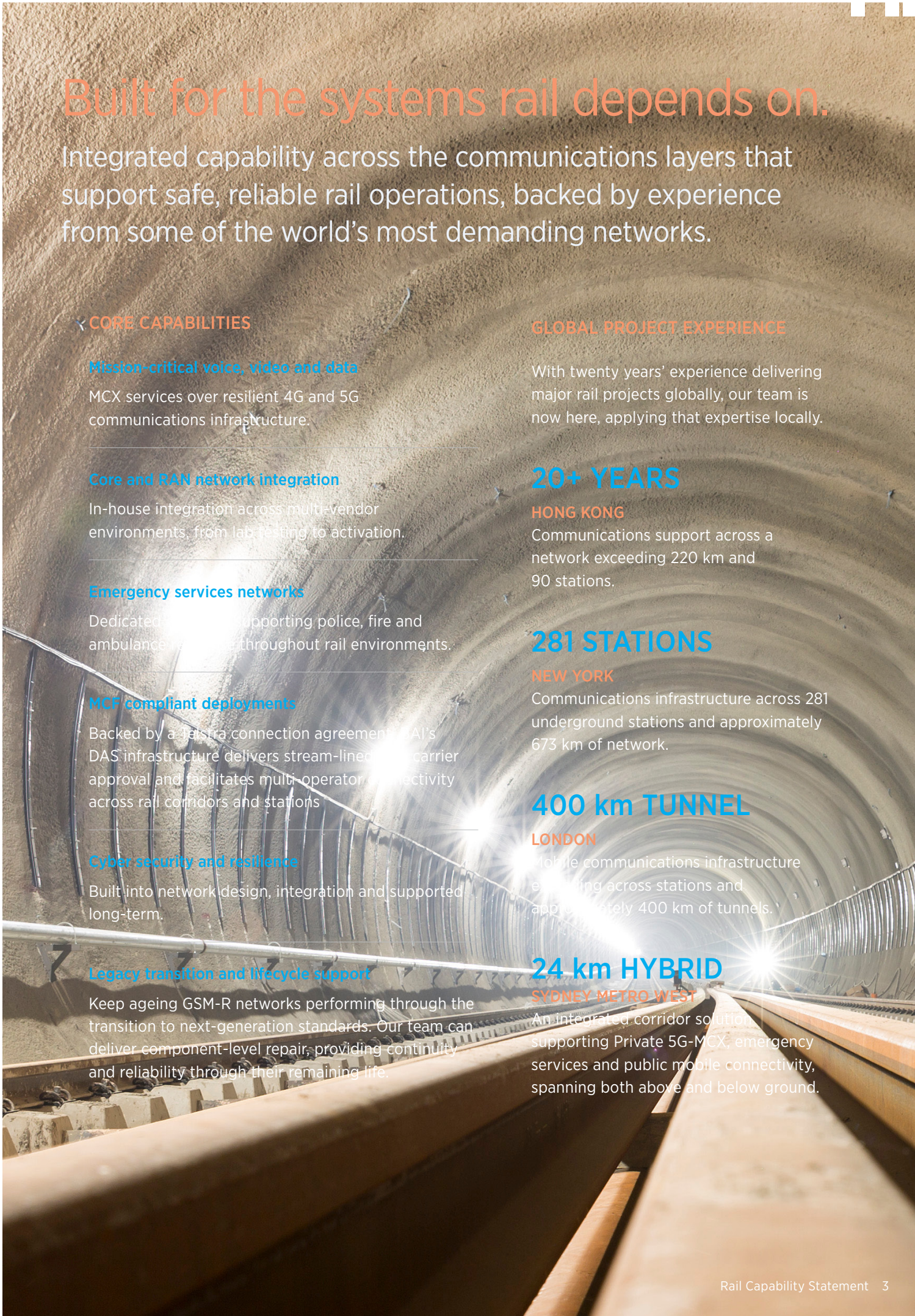
bai communications



One network partner.
End-to-end certainty.

Complex rail programs perform better when design, integration, migration and operations are considered together, with clear responsibility from the outset.

	Core and RAN network integration, in-house	BAI designs and integrates the network core and RAN with internal technical capability, reducing hand-offs and retaining critical knowledge throughout design, testing, activation and support.
	One partner, every stage	One accountable team connects advisory, design, delivery, integration, transition and 24/7 operations, helping decisions made at one stage perform across the full asset lifecycle.
	Global experience. Local delivery	Experience gained across major international rail networks is applied by Australian delivery teams, combining proven insight with local knowledge, in-country capability and 24/7 Australian network operations.
	Every rail environment	BAI supports passenger, freight and mining rail across underground and above-ground environments, from extending the life of legacy assets to activating modern communications infrastructure that supports high capacity signalling and FRMCS.
	24/7 Australian network operations centre	Every asset monitored and supported locally, the same centre running Australia's national broadcast infrastructure.



Built for the systems rail depends on.

Integrated capability across the communications layers that support safe, reliable rail operations, backed by experience from some of the world's most demanding networks.

CORE CAPABILITIES

Mission-critical voice, video and data
MCX services over resilient 4G and 5G communications infrastructure.

Core and RAN network integration
In-house integration across multi-vendor environments, from lab testing to activation.

Emergency services networks
Dedicated networks supporting police, fire and ambulance throughout rail environments.

MCF compliant deployments
Backed by a telstra connection agreement, BAI's DAS infrastructure delivers stream-lined carrier approval and facilitates multi-operator connectivity across rail corridors and stations.

Cyber security and resilience
Built into network design, integration and supported long-term.

Legacy transition and lifecycle support
Keep ageing GSM-R networks performing through the transition to next-generation standards. Our team can deliver component-level repair, providing continuity and reliability through their remaining life.

GLOBAL PROJECT EXPERIENCE

With twenty years' experience delivering major rail projects globally, our team is now here, applying that expertise locally.

20+ YEARS

HONG KONG
Communications support across a network exceeding 220 km and 90 stations.

281 STATIONS

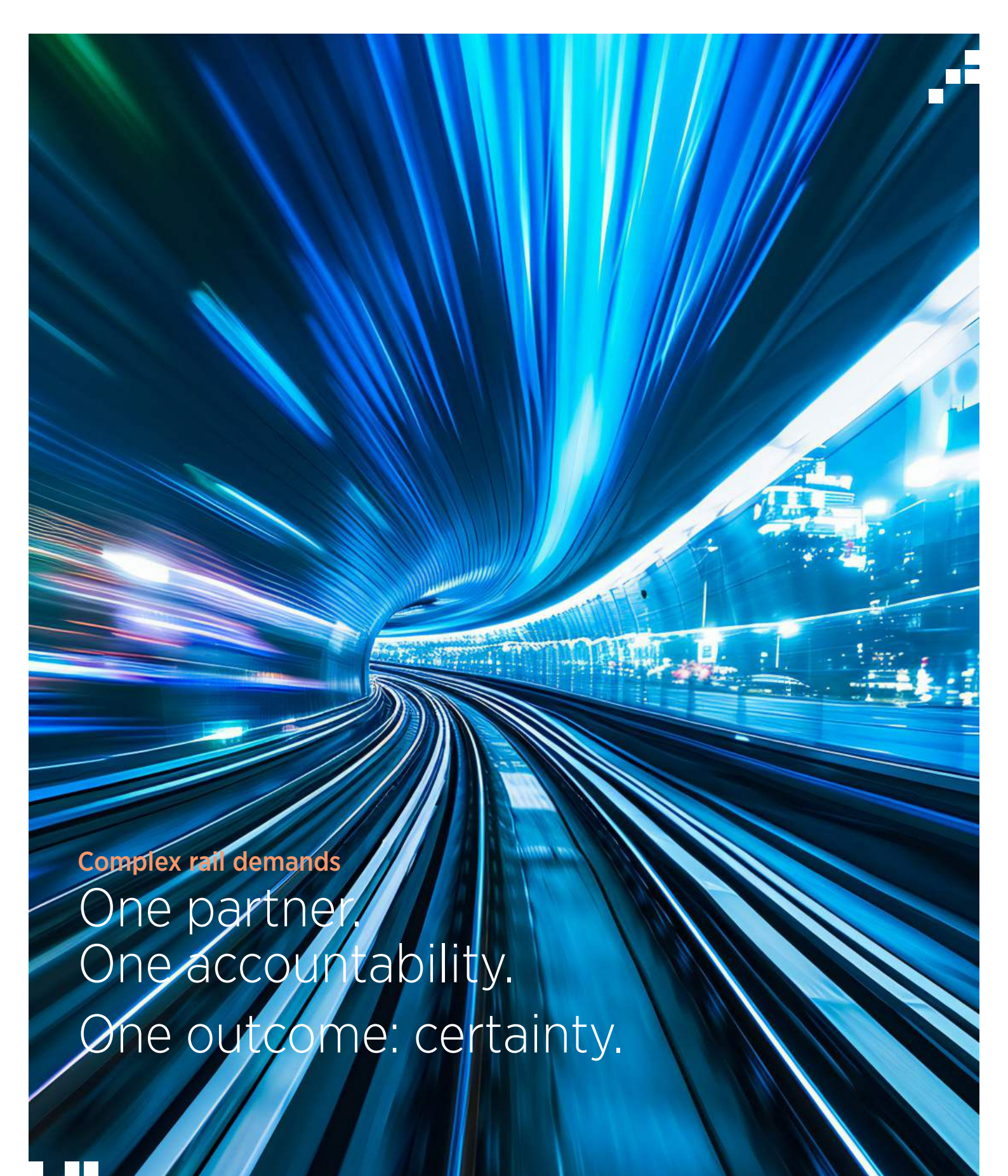
NEW YORK
Communications infrastructure across 281 underground stations and approximately 673 km of network.

400 km TUNNEL

LONDON
Mobile communications infrastructure extending across stations and approximately 400 km of tunnels.

24 km HYBRID

SYDNEY METRO WEST
An integrated corridor solution supporting Private 5G-MCX, emergency services and public mobile connectivity, spanning both above and below ground.

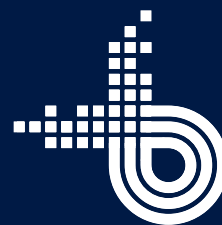


Complex rail demands

One partner.
One accountability.
One outcome: certainty.

Your complexity is our certainty.

Talk to BAI about the communications infrastructure behind your rail network.
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