NEXTDC

TRANSFORMING MINING & RESOURCES

UNLOCKING THE VALUE OF TECHNOLOGY FROM CORE-TO-EDGE

THE MINE OF THE FUTURE

Since the onset of COVID-19, the imperative for the mining and resources industry to build inherently flexible, scalable and integrated technology platforms that will support remote workforces, improve safety and improve operational efficiencies has only heightened. As the world undergoes significant change, the opportunity arises for mining and resources to adapt and evolve instep; ensuring you're best positioned to take advantage of the opportunities it presents.
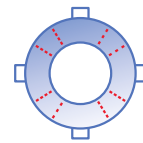
With smart mining operations expected to continue accelerating well in to the future, the mining and resources industry continues its trajectory of transformation and modernisation. As the sector pushes the boundaries of conventional processes, the underlying success factor is the ability to connect your workforce to your data and applications.
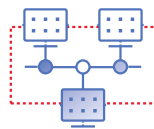
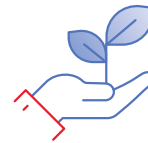**MINING AND RESOURCES IMPERATIVES**

OPERATIONAL STABILITY

ENHANCE SAFETY

REDUCE COSTS AND ACCELERATE TIME TO VALUE

INCREASE PRODUCTIVITY AND FLEXIBILITY

SUSTAINABLE BUSINESS OPERATIONS

NEXTDC's digital infrastructure platform facilitates the seamless unification of your people, data and digital workloads. Enabling you to focus on accelerating innovations that create safer, more productive and sustainable mining operations.

EDGE COMPUTING

CORE TO EDGE: THE NEXT TECHNOLOGY FRONTIER

The next frontier for the mining and resources industry is finding ways to capture the full value of technologies such as automation, IoT and machine learning. Extracting maximum value from technology to deliver optimal value to the business requires 'real time' operations and 'core to edge' thinking.

Core to edge is a holistic strategy that integrates the locations where your office-based teams are based (the core) with your operational sites (the edge) .

The seamless movement of data between the edge to the core form the fundamental foundations that enable you to process, inspect and analyse data to inform critical and real-time decision making.

Core to edge thinking

The edge is the real epicentre and critical lifeblood of your business and your purpose. For the edge to have maximum impact, it must be integrated with the core.

This is where intelligent technology must intercept with central intelligence teams, enabling them to draw insights and inform critical decision-making that yield productivity and safety enhancements.

There are two fundamental elements for your core to edge strategy achieving operational outcomes:

EDGE DATA CENTRE STRATEGY

A compute deployment that is close in proximity to edge operations. Facilitating access to cloud services and resources and a central point for delivery of high-speed network connectivity. Close proximity to edge locations facilitates significantly higher performance output, as well as cost efficiencies through interconnection solutions that remove the need to backhaul data over private carrier links to city-based central operations. These edge based services will enable your organisation to take the next steps in utilising technology to enable your core business strategies. Real-time decision making without these under pinning services will be difficult to achieve.

REMOTE OPERATIONS CENTRES

Remote Operations Centres (ROCs) form the 'nerve centre' of your business. Delivering real-time visibility over mine operations, ROCs will continue to play a crucial role in enabling growth in production and more streamlined efficiencies through more informed decision making. There are a number of routes to consider when implementing a ROC; the route you take and how the environment is integrated into a core to edge y strategy directly impacts the long term gains and future opportunity unveiled via this strategy.

NEXTDC'S CORE TO EDGE STRATEGY

EDGE DATA CENTRES IN AUSTRALIA'S REMOTE REGIONS

We are committed to our partnership with the mining and resources sector, especially when it comes to helping companies implement a core to edge strategy. We are building an ecosystem of edge-based data centres throughout the remote regions of Australia, bringing the cloud based experience closer to your operations and enabling your organisation to accelerate the integration of technology to enable highly automated and maximum integration into your operation.

Included in the edge network being deployed by NEXTDC are purpose-built data centres in the Pilbara region. These facilities are designed to support the emerging and rapidly evolving needs of the mining sector.

Remote Operations Centres

The criticality of system availability and uptime cannot be overstated when it comes to delivering operational transparency, efficiency and safety in mining and resources. Similarly, the importance of not just technology uptime but also staff capability in mission critical environments is increasingly becoming a business necessity in order to achieve critical operational imperatives.

NETXDC's MCX solutions are comprised of custom Mission Critical Space that leverages the scale, resilience, connectivity and security of our Tier IV completely fault tolerant data centres. Our MCX solutions are bespoke and fully customised to suit your environment and objectives. Each MCX environment is purpose-built to house and support mission critical teams, delivering a 100% uptime imperative to critical teams and tasks.

Creating a zero carbon mine

NEXTDC's data centres are designed with sustainability in mind. We deliver pre-engineered sustainable and energy efficient solutions that guarantee the most efficient use of power. calculating your carbon usage for reporting purposes and delivering accredited offsets that neutralise your output, all while ensuring performance is never compromised. NEXTDC's data centre platform creates a strong foundation to enable net zero targets for the mining and resources industry. Our digital infrastructure platform enables the full utilisation of technology so you can more easily realise the efficiencies and implementation of carbon neutral systems and fully sustainable power generation.

Partnering for long-term success

A vital pillar to your technology strategy is building an ecosystem of strategic partnerships.

We approach our partnership with core to edge thinking, and we work collaboratively with you to find solutions to complex problems.

Our priority is ensuring we align to your top line objectives and operational imperatives and support you in building a holistic core-to-edge technology strategy that will enable you to operate your mine of the future.

✓ Seamless unification of your people, data and applications, irrespective of your location.

✓ Significantly improve performance through dedicated, secure and low latency interconnection; easily adopt and scale the benefits of high-density compute applications such as machine learning and artificial intelligence and integrate automation at the core.

✓ Business continuity and resilience assurance from Australia's most resilient and reliable data centre infrastructure platform. Delivering 100% uptime to your infrastructure and critical operations.

✓ Bolster internal processes and maximise workforce safety, without impacting productivity.

✓ Supporting industry-wide digital transformation, investment and support we help you break down the silos that hold back the full capabilities of technology.

✓ Building a flexible and agile technology strategy that aligns to your corporate agenda.

RESILIENCE

- Highly redundant and resilient infrastructure.
- Engineered to deliver 100% uptime guaranteed

GREATER CHOICE

- Avoid vendor lock-in and long-term contracts. Source solutions best suited to your business from NEXTDC's ecosystem of> 640 ICT partners.
- NEXTDC's interconnection services support high bandwidth requirements without the need for long-term commitments.
- High-speed dedicated fiber interconnects and on-demand virtual interconnect options nation-wide.

ENHANCED BUSINESS INTELLIGENCE

- Seamless data center infrastructure management portal.
- Real-time environmental monitoring and intelligence reporting.
- Access management.

FLEXIBILITY AND SCALABILITY

- Tailored solutions to meet your individual requirements.
- Data center and interconnection solutions designed to scale with you.
- One national contract, one standard SLA, one standard price, one trusted partner.
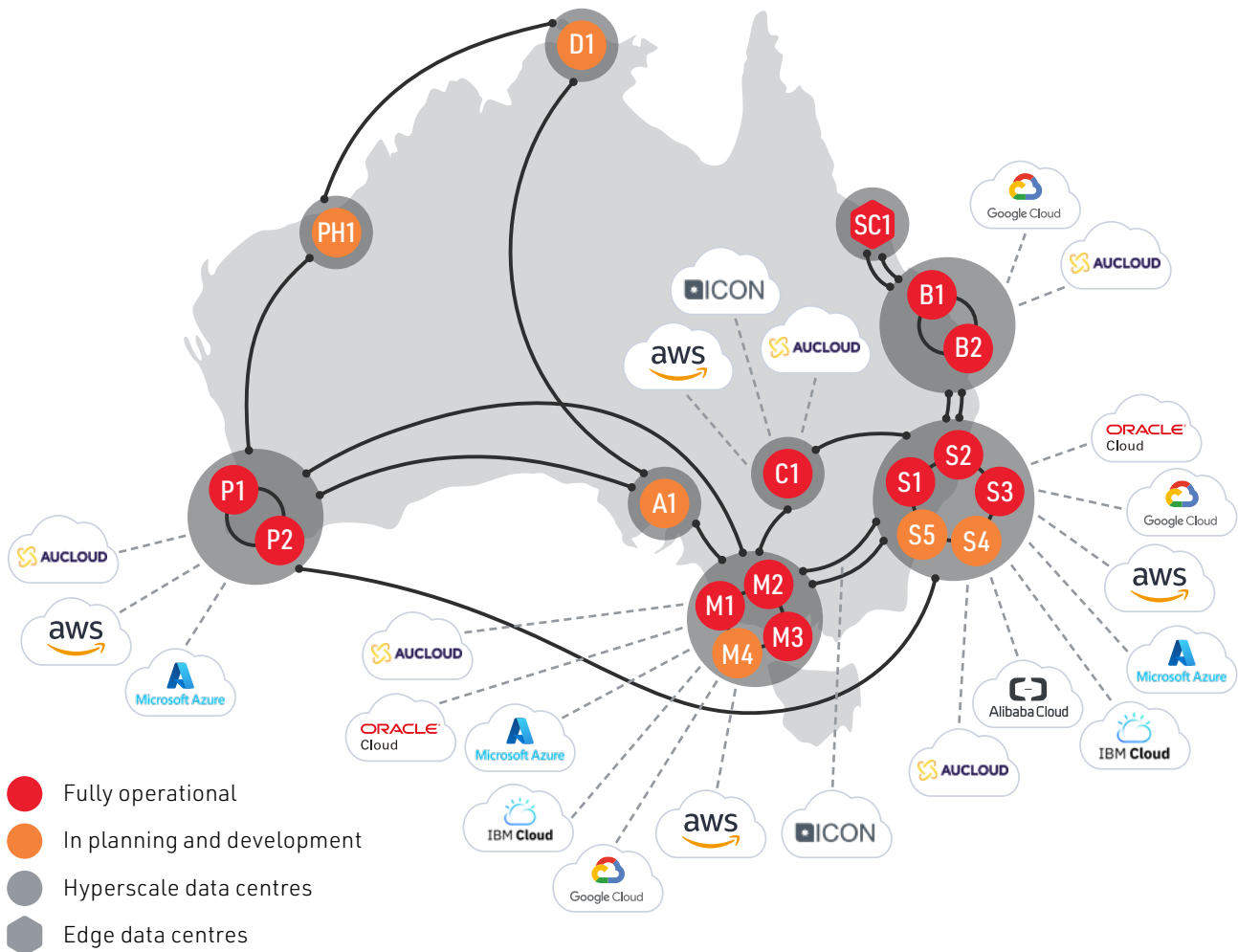
SUPERIOR PERFORMANCE

- NEXTDC houses the leading global public cloud platforms and the countries 'richest partner ecosystem.
- Real-time communications at sub millisecond connectivity to public cloud and ICT providers.
- Achieve up to 66% increase on performance to cloud and improve network jitter and user experience by up to 95% via NEXTDC's interconnection services.
- NEXTDC's data centers remove the distance between users, applications, and data, enabling a superior customer experience and competitive advantage.
- Reach new markets seamlessly with the leading public cloud platforms, service providers and major submarine cable infrastructure.

THE FOUNDATION FOR YOUR CORE-TO-EDGE STRATEGY IS YOUR INFRASTRUCTURE PLATFORM

Optimise your mine of the future with Australia's only provider of integrated edge data centre solutions.

Fully operational

In planning and development

Hyperscale data centres

Edge data centres

Success criteria

- Do you require 100% availability of your critical operations with no business interruptions?

- Are you investing significant capital to enable foundation technology services which your industry partners should fund and deliver?

- If technology is the next step in further cost reductions, increasing the safety of your people and reducing your carbon footprint, then how are you enabling technology to achieve this?

- Are you able to fully use your data to make real time decision making

- Are your mission critical operational teams located within one facility or in a single geographic area?

- If you think of your current strategy and partnerships, are they geared to easily fulfil the now, and support your future state?

Pivoting towards a core-to-edge technology strategy is achievable with the right technology partners, who encourage 'core to edge' thinking and offer flexible, agile digital infrastructure solutions. Building your mine of the future is dependent on unlocking the full value of your technology investments to ensure you're best positioned to take advantage of new opportunities as they arise.

NEXTDC work with you to unlock the value of your critical digital infrastructure and networks from the core to the edge. Our role is to ensure you're best positioned to take advantage of the opportunities the digital era presents.

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