Unlocking potential with Australian Al

Industry Capability Report

THE HAT ENERT



About Austrade

The Australian Trade and Investment Commission (Austrade) is Australia's national trade and investment promotion agency.

Austrade connects global businesses to Australian opportunities, including supporting international businesses seeking to source Australian artificial intelligence (AI) products and services, or to invest in the local Australian AI industry. Through tailored assistance, Austrade can connect you with leading AI and data-centre companies, research

institutions, and emerging startups, provide market intelligence on capabilities and trends, and guide you through collaboration, trade and investment opportunities.

To explore opportunities in Australia's Al ecosystem, visit www.Austrade.gov.au. Our team is ready to help you tap into the potential of Australian Al and data-centres and build impactful international partnerships.



About CSIRO

This report was developed by CSIRO in partnership with Austrade. CSIRO is Australia's national science agency, solving the greatest challenges through innovative science and technology. We are one of the largest and most multidisciplinary mission-driven research organisations in the world, creating a better future for Australia.



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Acknowledgement of Country

We acknowledge the Traditional Custodians of lands throughout Australia and pay our respects to their Elders past and present. We recognise the enduring connection of First Nations people to land, sea and waters, and their deep care for Country over 65,000 years. We honour the enormous contribution First Nations cultures and traditions make to the visitor experience in Australia, and commit to protecting and nurturing these cultures in partnership with First Nations communities.

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Why Australia for AI?

As global AI spending approaches \$970 billion by 2028¹, international businesses require AI technologies that deliver performance while maintaining reliability, security, and ethical governance. Australia has positioned itself as a strategic partner in this market, offering AI solutions built on robust regulatory foundations and validated across diverse commercial applications.

Australia has developed comprehensive technical strengths across the broad spectrum of core Al technologies, encompassing computer vision for image and video analysis, natural language processing for text and speech understanding, robotics and autonomous systems for intelligent automation, predictive analytics for forecasting and optimisation, reinforcement learning for decision-making, and generative AI for content creation. These capabilities demonstrate excellence through real-world applications such as healthcare diagnostics systems deployed across thousands of global facilities, worldleading mining automation including autonomous rail networks and AI-powered operations across major sites, sophisticated financial risk modelling, and precision agriculture innovations that have reduced chemical usage and operational costs. Australia's focus on domain-specific AI ensures technologies are tailored to sector needs, creating strong commercial opportunities and supporting export potential.

Australia's AI export capability is anchored by comprehensive governance frameworks. The country's privacy and data protection standards represent global best practices, while AI ethics principles promote transparency and explainability requirements that position Australian solutions for international deployment where algorithmic accountability is essential. This regulatory foundation supports a commercially mature sector demonstrating measurable outcomes. Ranked 10th in the Global Index on Responsible AI, Australia combines cutting-edge innovation with practical, commercially oriented approaches.

This strength is reinforced by significant government investment in workforce development, industry transformation, and commercialisation. The \$47 million Next Generation Graduates Program is building a pipeline of job-ready graduates with skills tailored to AI and emerging technologies².

The \$15 billion National Reconstruction Fund (NRF) is providing targeted investments to diversify and transform Australian industry, including a dedicated \$1 billion allocation for critical technologies such as Al³. In addition, the government is investing \$392 million in the Industry Growth Program to support innovative SMEs undertaking commercialisation or scale-up projects aligned with NRF priority areas⁴.

Australia's Research and Development (R&D) Tax Incentive further complements this ecosystem, with \$478 million in AI-related projects, including computer vision and machine learning, supported in 2022–23 alone⁵. Australia's AI industry demonstrates significant growth momentum. Australia attracted \$700 million in private AI investment in 2024, with the domestic market showing robust growth over five years⁶. The ecosystem comprises more than 1,100 private AI companies and over 400 public firms developing or actively deploying AI solutions, supported by increasing demand for AI talent and strong R&D growth⁷.

With deep technical expertise, proven sectoral applications, and strong regulatory and investment foundations, Australia is well placed to compete in global AI markets. Its combination of innovation capability, commercial maturity, and trusted governance positions it as a partner of choice for international businesses seeking high-performance, responsible AI solutions.

Snapshot of Australia's growing Al industry



Growing business ecosystem

- Over 1,100 private
 Al companies and over 400
 public firms developing or actively deploying Al solutions⁷
- Over 100 private AI companies founded in 2023–24 alone⁷



Robust R&D activity

- Australia's Al-related patents nearly quadrupled between 2015 and 2024⁷
- Al research publications increased by 136% over 2015-2023⁷



Market growth and economic potential

- Al could contribute up to \$115 billion to the Australian economy and create 200,000 jobs by 20308
- Australian businesses are embracing AI at pace with estimates exceeding 50% of organisations reporting AI adoption⁹⁻¹³
- The Australian population is also a rapid adopter, with 49% already using GenAl, a figure higher than the US and UK¹⁴





Investment in AI capability

- In 2024 Australia attracted \$700 million in private Al investment, ranking among the world's top 20 nations^{6,15}
- Recent deals include
 \$32 million for Harrison.ai,
 \$24 million for Relevance AI, and
 \$16.6 million for Heidi Health,
 driving commercial scale-up¹⁶
- With major investment commitments such as Amazon's \$20 billion data centres expansion (2025–2029)¹⁷ and Blackstone's \$24 billion AirTrunk acquisition largest ever data centre deal¹⁸, global confidence in Australia's Al infrastructure is growing
- In 2021, 33 Australian Al companies went public, marking increasing investor confidence in Al technologies⁷



Expanding AI workforce

- In 2024 over 1,500
 organisations (3.8% of hiring organisations) sought workers with Al-related skills up from under 500 (2.7%) in 20157
- The share of job postings requiring AI skills has grown more than **4-fold** between 2015 and 2024⁷



Government commitment

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- The National AI Centre is working to provide clear guidance and build national AI capability and confidence in the adoption of AI
- A network of Al Adopt
 Centres is supporting SMEs
 in integrating Al into their
 operations and engage in
 Australian regional centres

Al clusters: driving Australia's export advantage

Australia has cultivated a dynamic and growing system of AI innovation clusters across its major cities⁷, with over 800 AI companies concentrated within these key geographic centres. Each cluster offers distinct advantages and specialised expertise, creating vibrant ecosystems where academia, industry, and government collaborate to drive AI development and commercialisation (see Figure 1).

Figure 1. Al clusters across Australia's major cities.

Perth: Driving Al for resources and energy

Global hub for industrial AI, driven by its strengths in mining and energy.

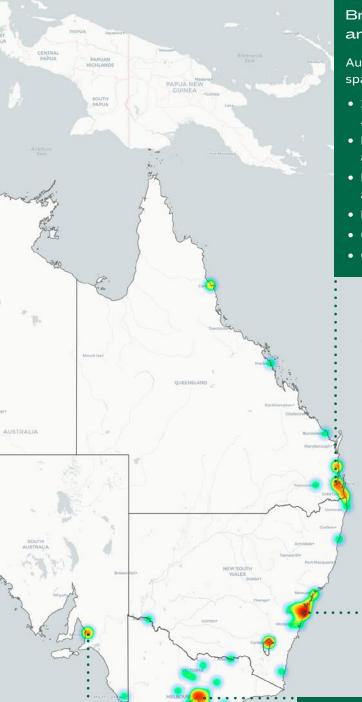
- Over 85 Al companies in West Perth
- 59% focused on energy, raw materials, and utilities
- Al applications include autonomy, maintenance, geospatial, and environmental analytics
- Strong research links with UWA and Curtin University
- Major resource firms support talent pipelines and sector-specific innovation



Adelaide: Defence, space, and machine learning excellence

Specialised AI hub with strengths in defence, space, and machine learning.

- 50+ Al companies in the CBD cluster
- Anchored by AIML at Lot Fourteen, with strong industry collaboration
- Focus on Al for space, defence, industry, and diagnostics
- Supported by major investment and institutions like the Australian Space Agency
- Lot Fourteen drives Al innovation in IoT, intelligence systems, and HealthTech



Brisbane: Al for business innovation and robotics

Australia's third-largest AI hub, with a dynamic ecosystem spanning business innovation, robotics, and creative tech.

- 100+ Al companies in enterprise software, robotics, AgriTech, and creative sectors
- Mining and energy base drives AI for safety and sustainability
- Mix of startups and established firms in logistics, automation, and asset management
- Robotics and AgriTech backed by QUT research
- Queensland AI Hub connects industry and academia
- Creative precincts foster AI in content and advertising

Sydney: The deep tech powerhouse

Sydney is Australia's leading AI hub, combining research excellence, industry depth, and strong government support.

- 200+ Al companies across dense innovation clusters
- Global financial centre driving FinTech and InsurTech innovation
- Strengths in enterprise software, cloud, and cybersecurity
- Tech Central backed by NSW Government investment
- Anchored by UTS and the University of Sydney
- Supports collaboration among startups, corporates, and researchers

Melbourne: Innovation and data centre capital

Key hub for Al innovation, supported by a diverse economy, strong research, and major infrastructure investment.

- 180+ companies across multiple sectors
- Strengths in enterprise AI for analytics and customer support
- Expanding activity in finance and insurance
- 30+ healthcare AI firms in HealthTech and MedTech
- Backed by leading research at Melbourne and Monash universities
- Boosted by Fishermans Bend data centre project

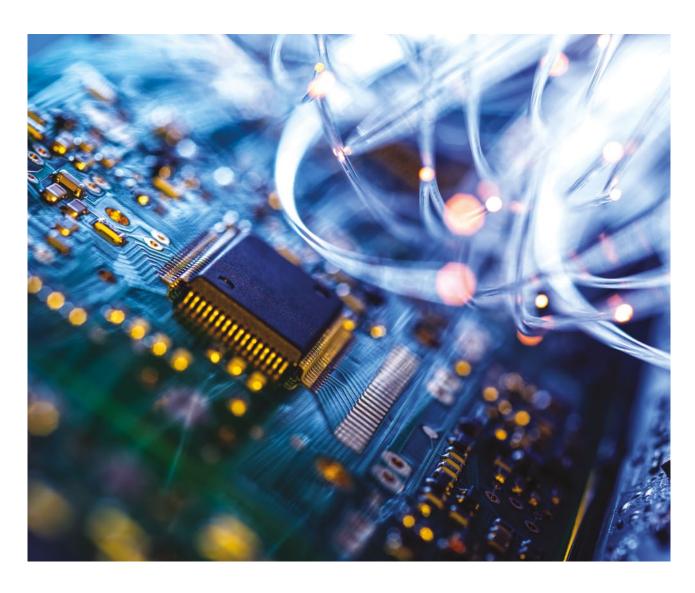
This strong geographic concentration of AI capabilities has positioned Australia's major cities as centres of excellence, with each contributing unique strengths to the national AI landscape and enhancing the country's AI export capabilities^{7,19,20}.

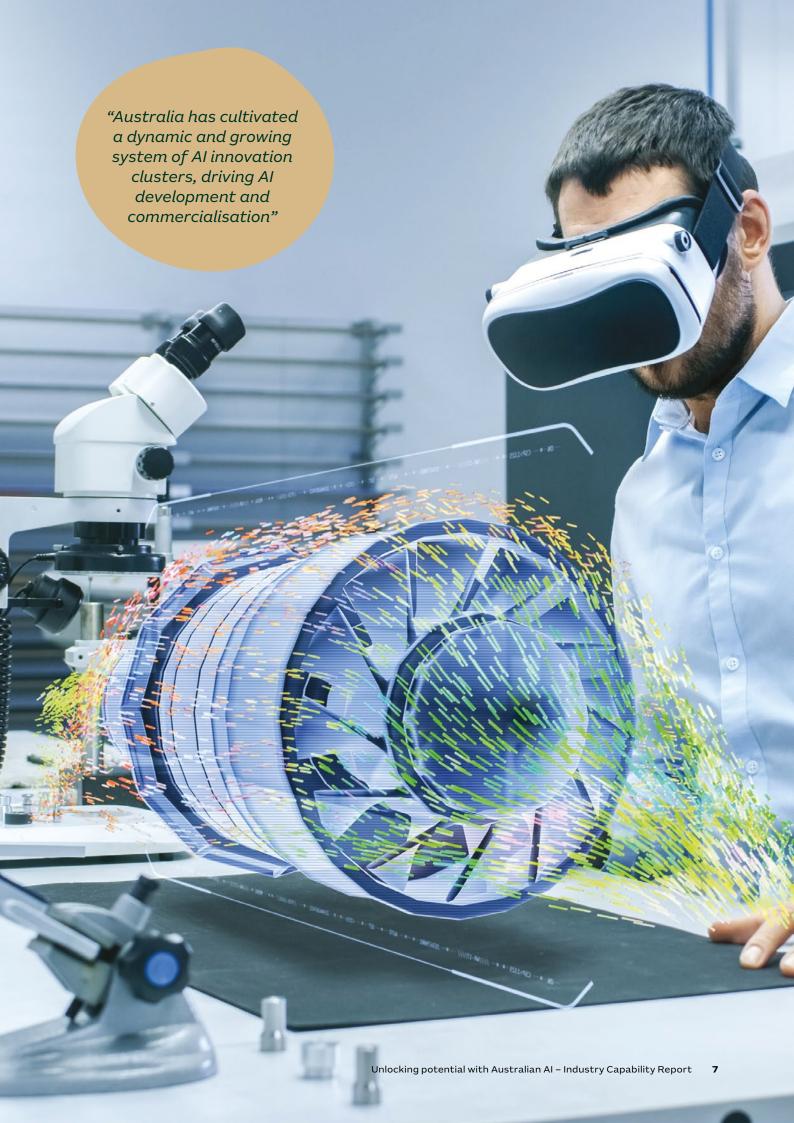
Australia's Al innovation extends beyond major capitals to dynamic hubs, where specialised clusters thrive by leveraging local industry strengths and lifestyle appeal. In the Australian Capital Territory, Canberra's AI cluster specialises in government, security, and defence applications, supported by proximity to national institutions and the Australian National University's expertise in policy and cybersecurity. Tasmania hosts a small but growing cohort of AI companies focused on environmental monitoring, agritech, and health, often connected to the University of Tasmania's research base. In the Northern Territory, Al activity is emerging around Darwin, with applications in remote health, resource management, and public service delivery.

While smaller in scale, these jurisdictions contribute important sector-specific capabilities to Australia's broader AI export potential.

Some regional clusters also show growing potential. For example, the Sunshine Coast has developed a distinct focus on AI for media, marketing, and social platforms, showing how digital-first industries can grow in lifestyle-driven regions. Further south, Newcastle is building a niche in environmental and CleanTech AI, applying intelligent systems to sustainability and the circular economy, underpinned by its industrial base and strong university research⁷.

Together, these decentralised but highly specialised AI clusters position Australia as a globally competitive ecosystem for innovation, offering sector-specific strengths, deep research capabilities, and strong pathways to AI technology exports.





Australian Al specialisation

Al industry and company highlights

Al in mining, energy, and resources



Australia's mining, energy, and resources sector is globally competitive and increasingly Al-enabled, offering exportready technologies that

improve efficiency, safety, and sustainability. Home to a dense cluster of mining equipment, technology and services companies and world-leading innovators⁷, Australia is advancing AI solutions in predictive maintenance, autonomous operations, mineral exploration, and smart energy systems. With proven deployments across major international markets and strong researchindustry collaboration, Australian AI capabilities are well-positioned to support global transitions in resource efficiency, electrification, and digital mining operations.

• Predictive maintenance and asset optimisation: Al-driven analytics process equipment sensor data to predict failures and optimise maintenance, reducing downtime and maintenance costs.

- Autonomous operations: Australia is a global pioneer in deploying AI-powered haul trucks and drilling rigs. These systems enhance productivity and safety by operating autonomously in hazardous conditions.
- Al in mineral exploration: Machine learning models help locate new deposits faster and more accurately.
- Smart grids and renewables: All enhances system stability by helping balance the impact of distributed energy resources, the accuracy of demand forecasting, and effectiveness of integrating battery storage with solar and wind²¹.
- Environmental sustainability: Al tracks emissions, water use, and land rehabilitation to support environmental compliance.

Case Study:

Energy Exemplar

Advanced energy modelling with AI-powered insights

Energy Exemplar illustrates the international competitiveness of Australia's technology sector. Founded in Adelaide, the company has grown from a university PhD project into a global provider of energy modelling and simulation software. Its core platform,



PLEXOS®, together with Aurora and Adapt2, supports decision-making across the power, gas, and water sectors. The solution is used by more than 600 organisations in over 90 countries. Energy Exemplar's clients span regulators, utilities, market operators, consultants, and more, who rely on its AI-enhanced technology to plan for cleaner, smarter, and more resilient energy futures.

A major milestone came in 2015 with the 1,000th installation of PLEXOS, establishing it as one of the world's most widely used energy market software at that time. The company now operates nine offices worldwide and continues to expand its footprint through international partnerships, including collaborations with Indian businesses to support renewable energy targets. While PLEXOS is a powerful modelling platform at its core, Al-powered features like PLEXOS Intelligence help clients move from simulation to confident, data-backed decisions even faster. The result: reduced bottlenecks, accelerated workflows, and smarter planning.

AI in agriculture



Australia's AI capabilities in agriculture are export-ready, addressing global demands for more productive, sustainable, and resilient food systems. From

precision cropping to livestock monitoring and supply chain optimisation, Australian AI solutions are transforming farm operations and supporting food security. With a strong research base, ethical data frameworks, and commercially deployed technologies, Australia is well-positioned to contribute AI-driven innovation to agricultural markets worldwide⁷.

- **Precision agriculture:** Al combines satellite imagery, drones, and IoT sensors to optimise crop nutrition, planting, irrigation, pest control; and enhance soil health.
- Agricultural robotics: AI-enabled robots can transform labour and chemical use, especially in broadacre cropping systems.

- Livestock monitoring: Al-powered wearables and vision systems track animal health and behaviour in real time²².
- **Biosecurity:** Detects pests and diseases early using image recognition and predictive models to support rapid response.
- Remote infrastructure management: Alenabled systems monitor water tanks, pumps, and gates, improving efficiency in remote operations.
- **Supply chain and logistics:** Al reduces spoilage and improves food traceability for export.
- Research collaboration: CSIRO Research Stations, University of New England's SMART Farms²³ and the University of Sydney's Ag-robotics research²⁴ are advancing real-world applications.

Case Study:

SwarmFarm Robotics

AI solutions for sustainable agriculture

SwarmFarm Robotics is a standout example of Australia's Al-enabled agritech with rapidly expanding global reach. The company designs and manufactures autonomous SwarmBots — a robotic platform that integrates seamlessly across diverse farming systems, from broadacre and row crops to orchards and horticulture.



Through its SwarmConnect ecosystem, SwarmFarm enables third-party developers to create and deploy applications directly on the robotic platform. This open approach broadens functionality and export potential, with proven use cases in precision spraying, mowing, slashing, spreading, and planting.

Founded by farmers in Central Queensland, SwarmFarm has taken a soil-up approach to autonomy, building technology that improves productivity while reducing chemical use. To date, over 200 SwarmBots have been deployed across Australia and the US, covering more than 10 million acres in 360,000 operating hours and displacing more than 7.5 million litres of chemicals.

SwarmFarm is now firmly positioned as an export-ready solution for the future of digitally enabled and sustainable agriculture.

AI in health and medicine



Australia is leveraging AI to drive innovation across healthcare, from diagnostics and personalised treatment to telehealth and system efficiency. Over 60 private

Al companies have entered the sector in the past five years⁷, supported by strong research capabilities and ethical AI frameworks. Australian solutions are already used globally, from radiology and reproductive health to virtual care and hospital decision-support tools. With proven deployments globally, a robust translational research base, and growing commercial momentum, Australia's medical AI sector is well placed to contribute to global health and digital health system transformation.

- Medical diagnostics: Australian Al supports X-ray, MRI, CT, and pathology interpretation with high accuracy^{16, 25}.
- Remote monitoring and telehealth: Al enables real-time insights from wearable devices and supports virtual consultations²⁶.
- Drug discovery: Al accelerates molecule screening and toxicity prediction^{27, 28}.
- Personalised treatment: AI tailors care based on patient history, lifestyle, and genomics29.
- Operational efficiency: Al automates records, scheduling, and documentation, improving hospital and clinic workflows^{12, 13}.
- Research leadership: Institutions such as La Trobe's ACAMI, Monash Medical AI Group, and Macquarie's Centre for Health Informatics support globally exportable solutions³⁰.

Case Study:

Harrison.ai

Harrison.ai: Smarter radiology

Harrison.ai is an Australian health technology company that develops advanced artificial intelligence solutions for medical imaging, with regulatory clearance in 40 countries.

Their comprehensive AI-powered products help clinicians rapidly and accurately interpret chest X-rays and head CT scans, enabling faster diagnoses, prioritisation of critical cases, and improved patient outcomes across healthcare systems worldwide.

Harrison.ai chest X-ray solution detects up to 124 findings on chest x-rays and Harrison.ai Brain CT solution detects up to 130 radiological findings on non-contrast head CT studies in under a minute. Harrison's Al models are trained on



some of the world's largest and most rigorously annotated medical imaging datasets, with input from over 150 qualified radiologists. The company's products have received regulatory clearances in multiple regions and are robustly validated in real-world clinical settings.

Al in creative and media industries



Australia's creative and media industries are rapidly adopting AI to enhance content creation, personalisation, and accessibility, positioning the country as an

emerging exporter of creative AI technologies. With over 250 firms operating in this space⁷, Australia is developing scalable tools for image generation, video editing, and storytelling that are already reaching global audiences. From platforms like Leonardo. Ai and Clipchamp to AI-driven captioning by Ai-Media, Australian innovations are shaping the future of digital media and creative production worldwide.

- **GenAl:** Tools generate high-quality imagery, music, and text for gaming, design, and media^{31, 32}.
- Video editing and automation: Al simplifies content production and editing at scale³³.
- Audience engagement: AI-driven recommendation engines and attention analytics support personalised advertising³⁴.
- **Media accessibility:** All is used for live captioning, transcription, and translation³⁵.
- Cultural and ethical innovation: National broadcasters are trialling ethical AI to ensure content accuracy and inclusivity^{36,37}.

Case Study:

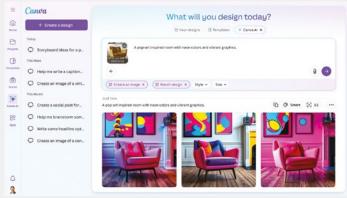
Canva

Scaling Australian creative Al for global impact

Canva, a global design platform founded in Australia, demonstrates the international reach and commercial success of Australian creative AI. With over 240 million monthly active users in 190 countries and content available in more than 100 languages, Canva integrates AI across its Visual Suite, including documents, presentations, whiteboards, video, websites, and more, to support content creation at scale. A key component of this capability is Leonardo. Ai, a generative AI platform for high-resolution image creation tailored for industries such as gaming, architecture, and media.

Leonardo. Ai enhances Canva's design offering by enabling users to produce high-quality visual content quickly and intuitively.

Canva's regional teams in Brazil, India, Europe, and Southeast Asia are focused on



Source: Canva



Source: Canva

adapting tools to local markets, empowering small businesses, educators, and content creators. This localisation strategy, combined with AI-driven innovation, highlights how Australian technology companies can build export-ready platforms that respond to global demand for creativity, productivity, and digital communication.

AI in law, finance, and regulation



Australia is developing a strong base of AI capabilities in legal, financial, and regulatory services, with technologies increasingly adopted both domestically and

overseas. With over 60 AI firms concentrated in major financial centres⁷, local companies are advancing tools for legal automation, fraud detection, compliance, and customer engagement. Many of these solutions, ranging from document review platforms to AI-driven chatbots and RegTech applications, are cloud-based and internationally deployable, positioning Australia as a contributor to digital transformation in global financial and legal systems.

- Legal AI: Tools automate contract review, litigation discovery, and client intake.
- Fraud and credit analytics: Al supports realtime risk modelling and behaviour-based fraud detection.
- Conversational agents: Voice and chatbot interfaces improve customer service and reduce operational costs.
- RegTech and compliance: Al tools automate monitoring of regulatory updates, risk scoring, and reporting.

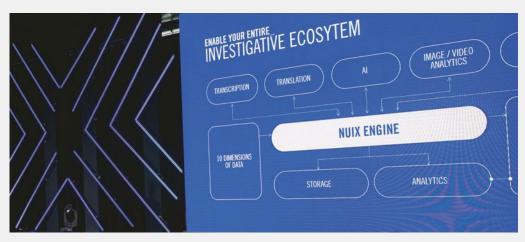
Case Study:

Nuix

Exporting Australian AI for complex data investigations

Nuix is an Australian company specialising in investigative analytics and intelligence software, with more than two decades of international market leadership. Headquartered in Sydney, the company operates 11 offices across North America, Middle East and Africa, and Asia-Pacific, and is supported by a global partner network of over 150 organisations. Its technology is used by government agencies, regulators, law enforcement bodies, and corporations globally.

At the centre of Nuix's offering is the Nuix Neo, with a patented processing technology capable of extracting and analysing text and metadata from thousands of data types and formats. The platform applies machine learning and data visualisation to support efficient, high-volume data analysis at scale. This capability is particularly relevant in digital forensics, cybersecurity, and regulatory compliance contexts. Nuix Neo is enhanced with AI capabilities including responsible AI that is explainable and defensible, with a Deep Learning Framework enabling Semantic Search. Nuix demonstrates the export potential of specialised Australian AI in high-trust, high-stakes domains.



Source: Nuix

Australian Al infrastructure: scalable, secure, and sustainable data centres



Australia's AI ecosystem is underpinned by a growing network of world-class data centres that provide the compute power, security, and sustainability essential

for Al innovation and global deployment. Domestic and international providers are investing heavily in infrastructure aligned with AI industry needs. Data centres across Australia support low-latency, high-performance AI compute, while maintaining data sovereignty and IP protection — key factors for international clients. Increasingly, data centre operators are also partnering with Australian innovators, such as UNSW and Green Critical Minerals, to enhance operational efficiency through Al-driven optimisation³⁸.

Australia's data centres are also leading in sustainability, with providers leveraging abundant solar and wind resources and efficient cooling systems. Operators are targeting green energy use and improved power usage effectiveness to ensure responsible growth.

Together, this infrastructure offers international businesses a secure, scalable, and environmentally responsible platform to deploy and expand AI technologies — reinforcing Australia's position as a trusted destination for AI-driven innovation.

Case Study:

NEXTDC

Powering global AI with Australian built data centres

NEXTDC is one of Australia's leading data centre operators, with 17 operational facilities and nine more in various stages of development. Headquartered in Brisbane, the company is rapidly expanding its APAC footprint, underpinned by Tier IV facilities in Kuala Lumpur and approved projects in Bangkok and Tokyo. Recently, construction commenced on TK1 Tokyo, NEXTDC's first data centre in Japan.

With over \$6 billion in funding capital, the company is accelerating its growth strategy to scale its future-ready data centres across APAC, driven by growing demand for AI factories and highly resilient and interconnected cloud infrastructure.

NEXTDC's facilities are purpose-built for AI workloads, supporting GPU deployments with





advanced liquid cooling, and ultra high-density power designs. As a certified NVIDIA partner, NEXTDC are uniquely positioned to design and deploy AI -Factories which employ proven AI-ready architectures to support NVIDIA platforms, to enable high performance computing and AI capabilities.

Featuring extreme-speed interconnectivity and NABERS 5-star energy ratings, NEXTDC delivers scalable, sustainable infrastructure, demonstrating Australia's capacity to export AI-optimised and resilient infrastructure at globally recognised scale.

AI R&D capabilities



Australia's Al research ecosystem is world-class, driven by top universities, national agencies like CSIRO, and specialised research centres. This foundation

underpins the country's growing reputation for high-impact, multidisciplinary Al innovation with global relevance.

• Between 2015 and 2024, Australia's Al-related patent filings grew nearly fourfold (from 170 to 629), while academic output more than doubled, reaching 93,302 AI-related publications.

- The share of AI publications rose from 5.3% of total research output in 2015 to 11.6% in 2024. In 2023 alone, AI-related publications increased by 136% compared to 2015.
- Al research is multidisciplinary: 16% of AI publications are in medicine and 10% in engineering, highlighting broad sectoral application.
- Al patents rose from 1.3% of total filings in 2015 to 4.9% in 2024, with strengths in machine tools, electronics, and media production⁷.

Examples of Australia's AI research excellence

- The Australian Artificial Intelligence Institute (AAII) at UTS conducts foundational and applied research in machine learning, computer vision, and data science, supporting both academic advancement and commercial partnerships.
- The Australian Institute for Machine Learning (AIML) at the University of Adelaide collaborates with government and industry on applied AI projects in space, defence, and industrial automation.
- La Trobe University's ACAMI, launched in 2024, focuses on AI for personalised medical treatments, including Al-driven immunotherapies, mRNA platforms, and cancer vaccines.
- CSIRO applies Al across domains such as biosecurity, drug discovery, bushfire detection, wound care, and precision agriculture, offering high-impact tools for both domestic and export applications.

These institutions represent just a few examples of the broader national research ecosystem. Across Australia, a wide network of universities, research centres, government agencies, and businesses actively contribute to AI research and development. This collective effort forms a robust innovation engine that not only drives progress at home but also positions Australia as a trusted global contributor of high-quality, export-ready AI technologies.



Start your journey with Australian Al

Engaging with Australia's advanced Al sector is a strategic opportunity that combines innovation, reliability, and a strong foundation in ethical practice. The Australian Trade and Investment Commission (Austrade) is your key partner in navigating this dynamic landscape.

Austrade connects global businesses to Australian opportunities, helping foreign investors and buyers do business with Australia. Austrade helps companies around the world source Australian goods and services for their global supply chains, as well as identify and capitalise on investment opportunities in Australia.

Australia actively welcomes international collaboration in AI development and deployment. Whether you are looking to procure AI products and services, partner with Australian universities and CSIRO on research initiatives, invest in highgrowth startups, or engage in talent exchange, there are numerous pathways to participate in the country's thriving AI ecosystem.

The Australian Government also offers key resources to support your engagement. The National AI Centre (NAIC) offers visibility into the ecosystem and guidance on responsible AI use. Its Al Directory is a useful starting point for discovering AI capabilities across Australian businesses and industries39. The Digital Transformation Agency (DTA) sets Al policy for Australian government agencies and co-develops national AI frameworks for governments across Australia that may serve as global benchmarks. Other government departments can assist with sector-specific opportunities in areas such as agriculture, healthcare, or defence.

To discover opportunities in Australia's Al sector, visit www.austrade.gov.au. Our team is ready to help you tap into the potential of Australian AI and build impactful international partnerships.



References

- 1. IDC, Worldwide spending on artificial intelligence forecast to reach \$632 billion in 2028, according to a New IDC Spending Guide. 2024, BisinessWire (19 August 2024).
- 2. DISR, The National Artificial Intelligence Centre is launched. 2021, Department of Industry, Science and Resources News (14 December 2021).
- 3. NRFC, National Reconstruction Fund Corporation: What we do. 2025, National Reconstruction Fund Corporation.
- 4. Riley, J., Chalmers stumps up \$392m for new Industry Growth Program. 2023, InnovationAus (9 May 2023).
- 5. Swanson Reed, March 2025 Federal Budget update: No material R&D tax incentive changes, strategic R&D review still underway. 2025, Swanson Reed News (March 2025).
- 6. Maslej, N., L. Fattorini, R. Perrault, Y. Gil, V. Parli, N. Kariuki, et al., The Al Index 2025 annual report. 2025, Al Index Steering Committee, Institute for Human-Centered AI, Stanford University: Stanford,
- 7. Bratanova, A., S. Hajkowicz, D. Evans, H. Chen, S. Bentley, H. Pham, et al., Australia's artificial intelligence ecosystem: Growth and opportunities (the 2025 update). 2025, National Artificial Intelligence Centre, Australian Government Department of Industry, Science and Resources, CSIRO.
- 8. TCA, AI to create 200,000 jobs in Australia by 2030. 2024, Tech Council Australia Newsroom (2 July 2024).
- 9. AiGroup, Technology adoption in Australian industry: Commercial, workforce and regulatory drivers. 2024, Australian Industry Group.
- 10. Park, K., Relevance Al raises \$24M to help businesses build AI agents. 2025, TechCrunch (6 May 2025).
- 11. Governance Institute of Australia, 2025 AI Deployment and governance survey report. 2025, Governance Institute of Australia.
- 12. Lee, C., Heidi secures \$16.6M series A to scale AI-powered medical scribe globally. 2025, AsiaTechDaily (4 March 2025).
- 13. Knowles, C., Heidi raises USD \$16.6m to ease clinician workloads. 2025, IT Brief Australia (7 March 2025).
- 14. Silva, M., Al adoption in Australia: New survey reveals increased use & belief in potential. 2025, Google Australia Blog (22 January 2025).
- 15. Parliament of Australia, The Senate: Select Committee on Adopting Artificial Intelligence. 2024.

- 16. NRFC, NRFC invests \$32 million in lifesaving medical artificial intelligence provider Harrison.ai. 2025, National Reconstruction Fund Corporation News (29 January 2025).
- 17. Amazon, Amazon investing AU\$20 billion to expand data center infrastructure in Australia and strengthen the nation's Al future. 2025, AWS News (14 June 2025).
- 18. Blackstone, Blackstone announces agreement to acquire AirTrunk in a A\$24B transaction. 2024, Blackstone News (4 September 2024).
- 19. Bratanova, A., H. Pham, C. Mason, S. Hajkowicz, C. Naughtin, E. Schleiger, et al., Differentiating artificial intelligence activity clusters in Australia. 2022, Technology in Society, 71: p. 102104.
- 20. Hajkowicz, S., A. Bratanova, E. Schleiger, and C. Naughtin, Australia's artificial intelligence ecosystem: Catalysing an Al industry. 2023, National Al Centre, CSIRO.
- 21. CSIRO, AI for flexible electricity system. 2023, AI for Missions CSIRO: Projects (28 May 2023).
- 22. Egan, G., How AI is helping us understand animal behaviour. 2024.
- 23. UNE, Smart Farms. 2025, University of New England Research (26 June 2025).
- 24. University of Sydney, Can robots and AI help address the world's food security issues? 2022, The University of Sydney News (2 November 2022).
- 25. ArtifInHealth, Annalise AI is increasingly being used for Radiological image analysis in hospitals. 2025, RArtiflnHealth (17 May 2025).
- 26. Unite Healthcare, AI in virtual consultations: Transforming the future of digital healthcare. 2025, Unite Healthcare Website (26 June 2025).
- 27. CSIRO, Al for drug discovery: Our focus on emerging infectious diseases. 2023, CSIRO AI for Mission Program News (4 April 2023).
- 28. Argenica Therapeutics, About Argenica Therapeutics: Commercialising the novel neuroprotective therapeutic ARG-007 to reduce the damaging effects of stroke and other acute CNS injuries. 2025, Argenica Therapeutics Website (28 June 2025).
- 29. PR Newswire, Prospection & medical data vision to improve patient treatment access. 2022, AiTechPark (6 September 2022).
- 30. Collyer, T., AI enhances dementia detection in hospitals, Monash University study shows. 2025, Inside Ageing (18 May 2025).
- 31. Canva, About Canva: Empowering the world to design. 2025, Canva Website (23.06.2025).

- 32. Weatherbed, J., Canva adds a new generative Al platform to its growing creative empire. 2024, The Verge (30 June 2024).
- 33. Wiggers, K., Microsoft acquires web-based video editor Clipchamp. 2021, VentureBeat (7 September 2021).
- 34. Amplified, Yahoo partners with Amplified to bring attention measurement to programmatic buying in market first. 2023, Amplified News (3 October 2023).
- 35. ABNetwork, Al-media's LEXI voice boosts engagement by breaking language barriers. 2025, AVNetwork (21 June 2025).

- 36. ABC, Navigating the possibilities and perils of Al. 2024, ABC Innovation Lab (1 August 2024).
- 37. Meade, A., News Corp bets big on AI tools but journalists voice concerns. 2025, The Guardian (20 June 2025).
- 38. Davidson, J., Green Critical Minerals inks data centre deal with target of Swiss private equity bid. 2025, HotCopper (23 April 2025).
- 39. NAIC, Al Directory: Discover Australian businesses with Al capabilities across industries. 2025, National Al Centre, Department of Industry, Science and Resources.

