



Artificial Intelligence

[Australia's Economic Accelerator](#) (AEA) is a \$1.6 billion Australian Government investment aimed at transforming Australia's research translation and commercialisation landscape. AEA grants support the Australian Government identified priority areas for the economy (outlined in the [National Reconstruction Fund Corporation \(Priority Areas\) Declaration 2023](#)). Within these priorities, the first round of grants will prioritise projects that align with one or more of 6 focus areas, including advanced manufacturing, artificial intelligence, digital agriculture, quantum, sustainable fuels, and critical and strategic minerals processing.

AI encompasses technologies that enable autonomous systems to solve problems and complete complex tasks such as prediction and object detection, with an initial focus on language processing, computer vision and support for robotics.



Enabling capabilities

> National priority

Fast-moving enabling technology area with considerable benefits to early-mover adoption and investment. AI aligns with the national priority areas by supporting commercialisation of transformative advanced technologies that drive cross-sectoral productivity and support national interests.

- [List of Critical Technologies in the National Interest](#)

Advantage

Australia possesses strong AI research capability alongside diverse, secure, and unique sources of data with significant downstream industry demand for AI tools.

Opportunity

To apply existing research capability to uplift general productivity and produce application specific AI products that can support industries and scale up and out internationally.

> Research strength

Australia's rank in the OECD calculated using 2018-2022 bibliometric data from Elsevier's SciVal. AI was defined using custom search terms.

7th

Output: number of scholarly papers



2nd

Impact: field-weighted citation impact



1st

Quality: share of publications in the top 10% of most-cited journals

> IP potential

Australia's share of publications cited in patent applications compared to the OECD average expressed as a percentage.

Refers to 2018-2022 patent and publication data in the Lens database.



95%

> Market opportunity assessment

- Australian market size of **AU\$2.5 billion** in 2024¹
- Predicted compound annual market growth of **13.4%** from 2024-2029²
- Global market size of **AU\$118 billion** in 2022³
- Predicted global compound annual market growth of **21.4%** from 2022-2030⁴

> Example industry problems

AEA aims to provide developmental support for promising research commercialisation projects at the proof-of-concept or proof-of-scale level (TRL stages 3-7). Successful projects will scale up to meet emerging industry needs.

Industry Problem	Opportunity	Impact
Expanding demand for sustainable critical mineral extraction requires new and precise mineral discovery methods.	Developing AI tools to accelerate discovery and location of mineral deposits using existing geoscientific and mining data.	Add value to pre-existing data resources and enable efficient expansion of critical mineral industries.
Land and asset management is costly and time-consuming, particularly in remote areas and for industries with geographically dispersed assets.	Utilise computer vision and image classification techniques to enable satellite, drones or other platforms to conduct inspections and assess conditions or detect faults.	Expand capability to monitor vast areas and dispersed assets, with an added sovereign capability for conservation, disaster response, and defensive monitoring.
Demographic pressures and demands for new forms of care (e.g. mental health) require new modes of service delivery.	Development of AI tools to improve the delivery of frontline services, enable remote care, and improve the efficiency of support services.	Impacts could include a reduction in delivery costs and/or improved health outcomes delivered sooner.
Developments in AI both challenge and assist cybersecurity objectives across numerous areas including defence, financial services and telecommunications.	Developing software and product solutions that can make use of or counteract AI to maintain cyber assets, as well as hardware with AI on-device or in the cloud to improve performance.	Counteract existing and emerging risks of financial fraud, identity theft, social engineering and data breaches, and protect sovereign IP and data assets.

> Other public investment options

- [ARENA & the Future Made in Australia Innovation Fund](#)
- [Industry Growth Program](#)
- [The National Reconstruction Fund](#)

1 [IBISWorld 2023, Artificial Intelligence in Australia](#)

2 [IBISWorld 2023, Artificial Intelligence in Australia](#)

3 [GlobalData 2023, Thematic Intelligence: Artificial Intelligence](#)

4 [GlobalData 2023, Thematic Intelligence: Artificial Intelligence](#)