

THE RESPONSIBLE AI INDEX

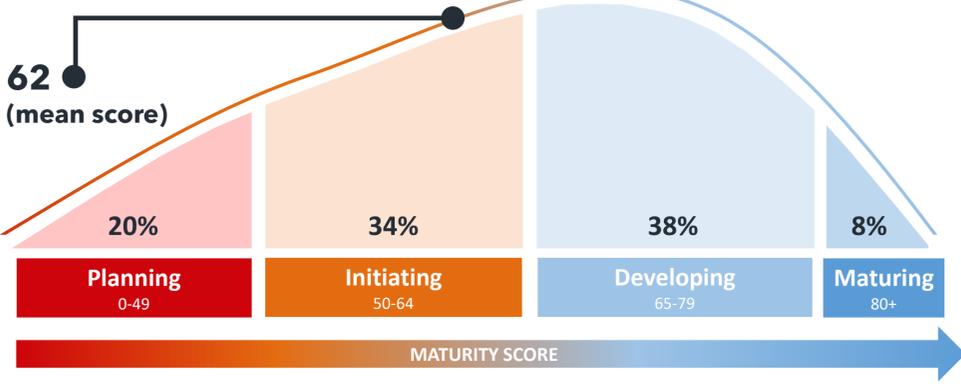


Bridging The Responsible AI Gap

Fifth Quadrant, Ethical AI Advisory and Gradient Institute have partnered to create the inaugural Responsible AI Index, sponsored by IAG and Telstra.

The Index measures how well organisations are designing and deploying AI systems in a way that minimises any potential negative effects and optimises individual and societal benefits. It is based on a survey of over 400 executive decision makers responsible for AI development and deployment.

The mean Responsible AI Index score for Australian-based organisations is 62 out of 100. With only 8% in the maturing segment, this demonstrates there is significant room for improvement, and raises a concern that many organisations are not yet including responsible practices and ethics into the design and deployment of their AI systems.



THE RESPONSIBLE AI SEGMENTS



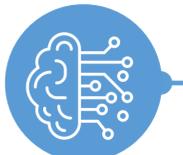
Planning

- Early stage of AI deployment
- Focused on quickly reaping commercial benefits of AI automation without pausing to factor in ethical implications



Initiating

- Lack confidence to deploy AI
- Lack of knowledge about Responsible AI
- Lack leadership support



Maturing

- Implemented auditing processes for AI
- Strong focus on the moral and ethical implications of using AI technologies
- Uses external specialists and advisors



Developing

- Developed guidelines for responsible use of AI
- Strong culture of data protection and security

COMPARING THE SEGMENTS

The difference between the **leading (top two) segments** and **the following (bottom two) segments** are reflected in the extent to which AI is embedded into their organisational strategy and their awareness of the Department of Industry's AI Ethics Principles.

MORE MATURE (65+) VS **LESS MATURE (0-64)**

ORGANISATIONAL STRATEGY

The less mature groups need to transition from opportunistic and tactical AI decision-making to a more strategic orientation.

Has a strategy for the development of AI that is tied to the wider business strategy across all divisions

69%

35%

AUSTRALIA'S AI ETHICS

The more mature segments have a greater familiarity and level of agreement with the set of ethics principles developed by the Department of Industry.

Aware of Australia's AI Ethics Principles

64%

51%

HUMAN PRINCIPLES

Throughout their lifecycle, AI systems should...

% Agree with principle

WELLBEING
... benefit individuals, society & the environment

95%

68%

INCLUSIVITY
... be inclusive & accessible and should not involve or result in unfair discrimination

96%

70%

FAIRNESS
... respect human rights, diversity and the autonomy of individuals

96%

74%

DATA & TECHNICAL SECURITY

Throughout their lifecycle, AI systems should...

PRIVACY PROTECTION & SECURITY
... respect and uphold privacy rights and data protection and ensure the security of data

95%

72%

RELIABILITY & SAFETY
... reliably operate in accordance with their intended purpose

96%

67%

INTEGRITY

PRIVACY PROTECTION & SECURITY
There should be transparency and responsible disclosure to ensure people know when they are being significantly impacted by AI and can find out when an AI system is engaging with them

94%

76%

RELIABILITY & SAFETY
When an AI system significantly impacts a person, community, group or environment, there should be a timely process to allow people to challenge the use or output of the AI system

93%

76%

ACTIONS TAKEN TO DEVELOP AND DEPLOY RESPONSIBLE AI

Despite broad agreement with Australia's AI Ethics Principles, this is not reflected in the actions organisations have taken to develop and deploy AI responsibly, indicating a gap between beliefs and behaviour.

% Taken action

Reviewed AI algorithms for potential bias

50%

16%

Reviewed global best practices and frameworks

42%

19%

Have identified and assessed the risks and opportunities for human rights

45%

15%

Hired a more diverse workforce

31%

17%

Set up recourse mechanisms (i.e., if an AI negatively affects a member of the public)

38%

12%

Consulted with subject matter experts

46%

23%

Conducted impact assessments

48%

33%

HOW TO BRIDGE THE AI RESPONSIBILITY GAP

1. Stakeholder Consultation

Consult widely with stakeholders to identify the harms the system may cause, then determine ethical objectives to control these harms and ensure the AI system achieves them.

4. Continually Monitor AI Systems

Continually monitor AI systems against their business and ethical objectives, search for unintended harms, and build in mechanisms for review, redress and mitigation.

2. Risk Identification

Identify the people at-risk of being systematically disadvantaged by the AI system and ensure that special consideration is given to protect them.

5. Staff Training

Train staff on the novel risks of AI systems and their roles in controlling those risks.

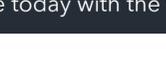
3. Document AI Systems

Document AI systems that can affect the lives of people: their purpose, risks, key design decisions and justifications, performance and who is responsible for them.

6. Risk Management

Extend existing risk management frameworks to incorporate risks introduced or potentially amplified by the use of AI systems.

Get your score today with the free Responsible AI self-assessment tool



Download The 2021 Responsible AI Report Today

FOR MORE INFORMATION, PLEASE CONTACT:

Dr Steve Nuttall
Director - Fifth Quadrant
snuttall@fifthquadrant.com.au

SPONSORED BY:



Dr Catriona Wallace
Founder & CEO, Ethical AI Advisory
catriona.wallace@ethicalai.ai

To learn about our Board, Executive and Developers training programs in Responsible AI, please contact: info@ethicalai.ai