



# RESPONSIBLE AI INDEX 2022: REPORT



Sponsored By  

# CONTENTS



## 1. BACKGROUND

2. THE RESPONSIBLE AI INDEX

3. THE STATE OF AI IN AUSTRALIA

4. AI ETHICS PRINCIPLES

5. PRINCIPLES IN PRACTICE

6. BRIDGING THE GAP

The 2022 Responsible AI Index is grounded in a robust quantitative methodology.

## Objectives

### Research Aim

To provide a comprehensive assessment and to track the status, in Australian-based organisations, of:

- 1) AI maturity and,
- 2) the extent to which AI is being deployed responsibly to mitigate potential risks, and
- 3) to make recommendations as to how organisations may use AI responsibly

### Topics covered

MATURITY SEGMENTS

AI USAGE

AI ETHICS PRINCIPLES

ATTITUDES

ORGANISATIONAL STRATEGIES

ACTIONS TAKEN OR PLANNED

## Audience

### Sample

The sample for the study was made up of:

- Organisations based in Australia
- AI Strategy Decision Makers (e.g., CIOs, CTOs, CDOs, heads of data etc) working in organisations with 20 or more employees
- Covered a range of businesses by size, industry and location
- Organisations that had deployed AI in their business or were planning to do so in the next 12 months

### Sample Size

N=439 RESPONDENTS

## Methodology

### Source

B2B online panel

### Methodology

10-minute online survey

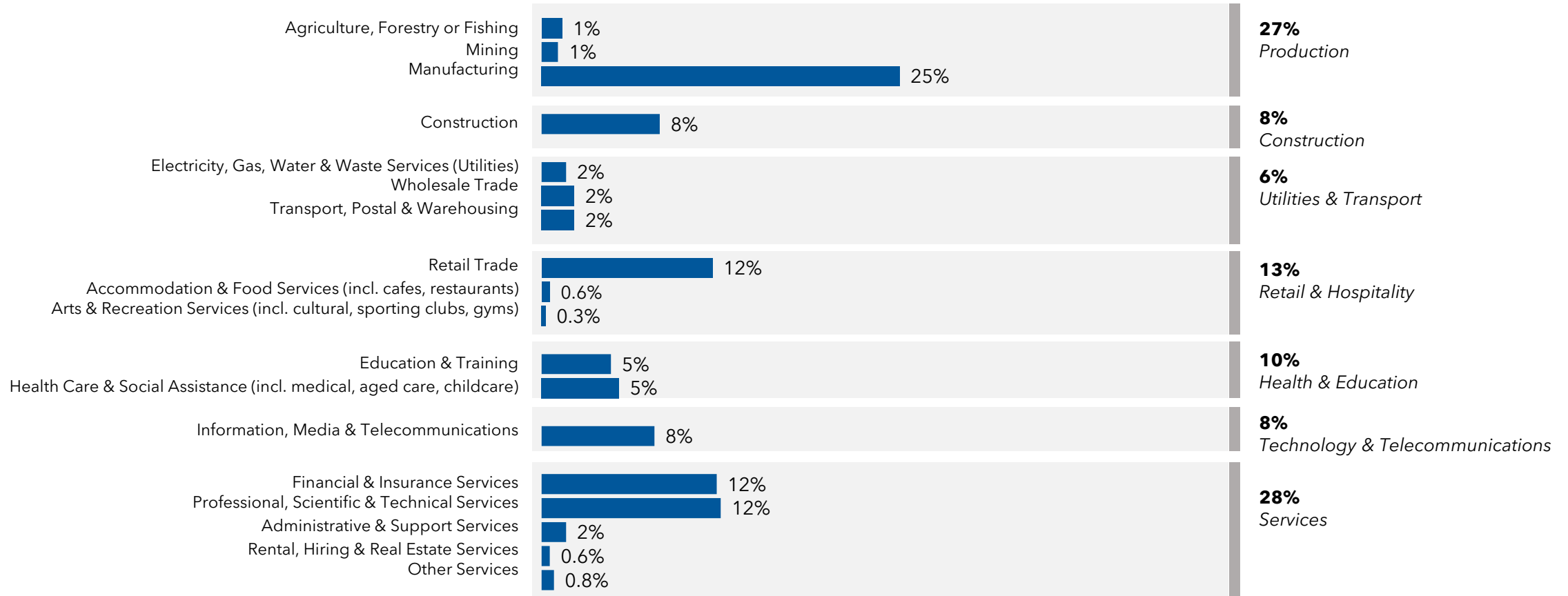
### Timing

Fieldwork was conducted 24<sup>th</sup> October - 9<sup>th</sup> November 2022

# INDUSTRY PROFILE

Respondent organisations represent a range of industries which have been organised into seven different groups.

## INDUSTRY GROUPS

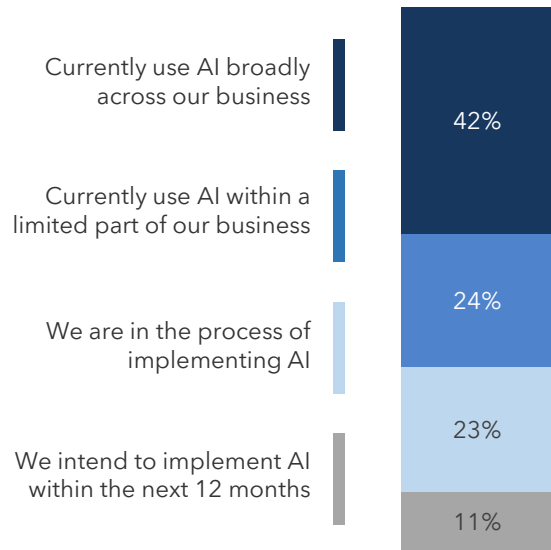


Please note that due to an overrepresentation of respondents in the Technology & Telecommunications sector in the 2022 sample, the sample has been weighted back to the 2021 sample to enable comparability between the 2021 and 2022 Responsible AI Index.

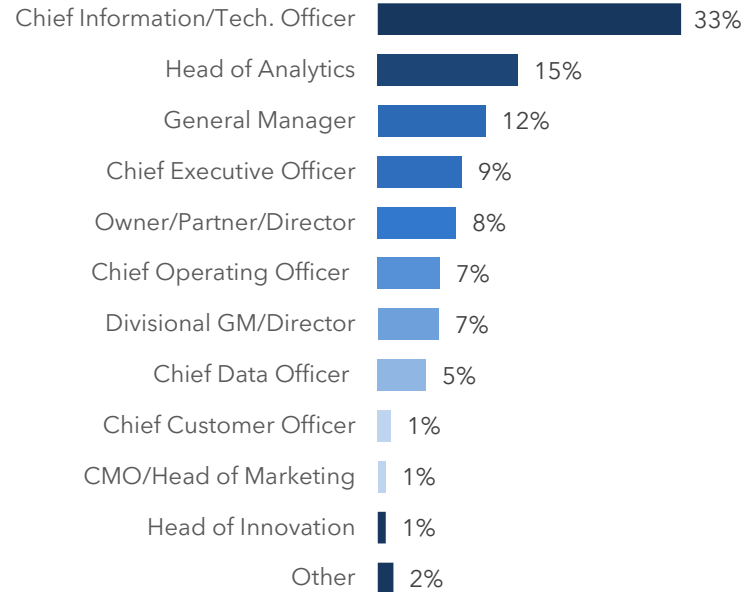
# SAMPLE PROFILE

The sample is based on roles with significant influence over the AI strategy of organisations with at least 20 employees. The sample covers a range of organisation sizes and locations, with a mix of AI usage. All organisations were either using AI or planning to implement AI in the next 12 months.

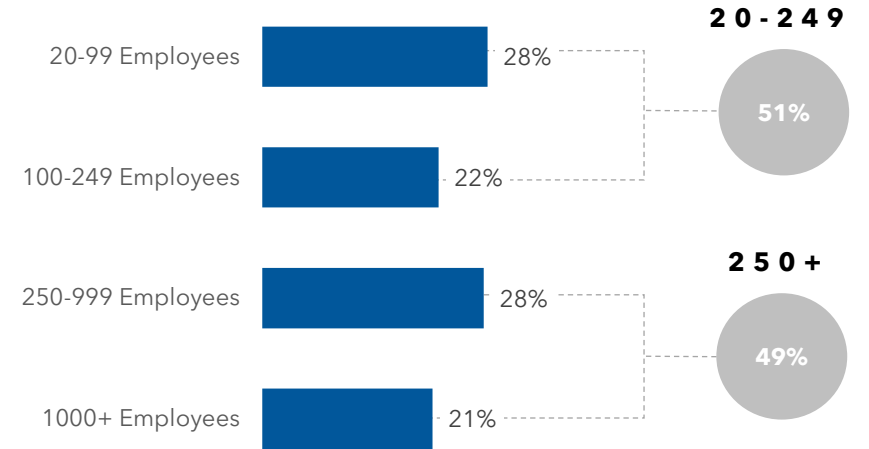
## USE OF AI



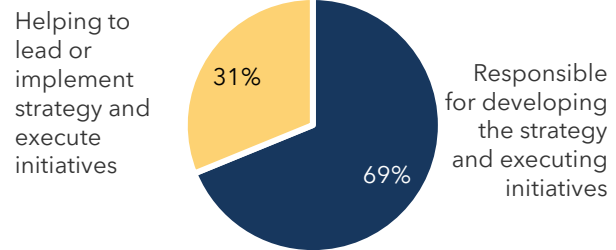
## JOB TITLE



## BUSINESS SIZE



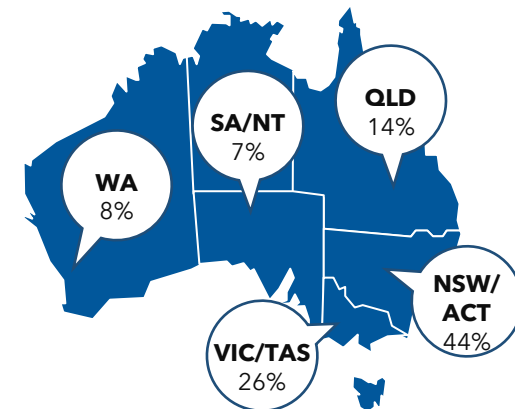
## LEVEL OF INVOLVEMENT



## GENDER



## BUSINESS LOCATION



# CONTENTS



1. BACKGROUND
- 2. THE RESPONSIBLE AI INDEX**
3. THE STATE OF AI IN AUSTRALIA
4. AI ETHICS PRINCIPLES
5. PRINCIPLES IN PRACTICE
6. BRIDGING THE GAP

# INTRODUCING THE RESPONSIBLE AI INDEX

To understand how organisations are using and developing AI in a responsible manner, a maturity model was created based on how respondents rated their organisation across a battery of statements about responsible AI and actions taken to implement AI in a responsible way, combined to provide a total score out of 100.

## MATURITY MODEL

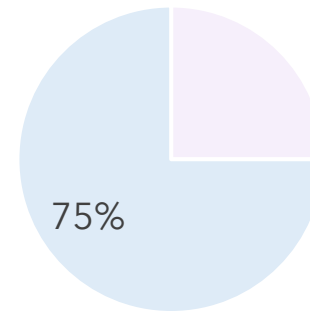
The maturity model is built on:

1. Self-assessed performance on 16 statements about Responsible AI across five categories:
  - i. Strategy & Leadership
  - ii. Governance
  - iii. People & Skills
  - iv. Data & Security
  - v. Monitoring & Review

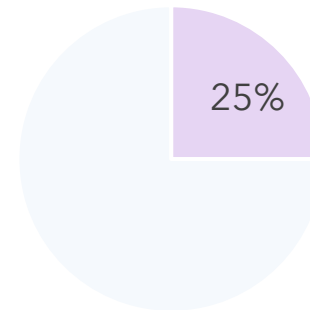
2. A tally of the number of actions taken to implement AI responsibly from a total list of 13 actions

## MODEL WEIGHTING

**Weighted to account for  $\frac{3}{4}$  of the model:**

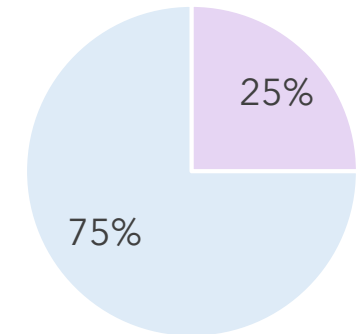


**Weighted to account for  $\frac{1}{4}$  of the model:**



## MODEL SCORE

**Combined to provide a final score out of 100:**



# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: PERFORMANCE ASSESSMENT

The performance assessment component of the model is based on a self-assessed rating of performance (score 0-10) on the following categories:



## STRATEGY & LEADERSHIP

- Having a leadership team that is clearly accountable for the impact of AI systems
- Having a leadership team that is demonstrably committed to the responsible use of AI
- Having a strategy in place for the responsible use of AI which stays up to date with emerging best practice and international frameworks, and is reviewed on an ongoing basis
- Having formal organisational routines (for example rewards, recognition, etc.) to incentivise responsible use of AI



## GOVERNANCE

- Having appropriate mechanisms in place to allow individuals materially impacted by an AI-driven decision to understand and/or challenge that decision
- Scrutinising the systems and processes used by potential AI suppliers to ensure they are designed to not harm, deceive or cause unfair treatment of individuals, communities or groups
- Having robust processes to ensure all AI systems are compliant with relevant regulation and laws
- Having an ethical (or equivalent risks) framework in place to ensure AI-systems are formally assessed consistently against clear standards that account for its impacts on individuals, communities and groups



## DATA & SECURITY

- Having robust systems and processes in place to ensure personal information used or created by AI systems is appropriately protected
- Reviewing underlying databases for potential bias to help ensure AI systems do not result in unfair treatment of or discrimination against individuals, communities or groups
- Having documented policies and processes in place to quickly respond to and resolve any adverse customer outcomes caused by the unauthorised use of AI systems



## PEOPLE & SKILLS

- Including both technical and non-technical consultants or professionals (e.g. social scientists, psychologists, ethicists, legal experts) as well as customer representatives to review AI systems for the potential for harmful outcomes to customers
- Hiring/engaging a diverse (different cultures, genders, etc.) workforce to consider broader perspectives and consideration of risks into the development process
- Ensuring AI system designers and developers are appropriately skilled and knowledgeable about the ethical implications of their work, including risks of discrimination and bias and techniques to address these



## MONITORING & REVIEW

- Routinely monitoring AI systems using clear metrics designed to trigger suitable corrective or remediation action when AI systems are not working as intended, for example monitoring of bias and the accuracy of decisions
- Where decisions have a material impact on individuals, communities or groups conducting a regular, independent peer review of all aspects of AI-systems and their impact



# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: PERFORMANCE ASSESSMENT

The behavioural component of the model is based on the number of actions taken by the organisation out of the 13 possible options below. This component corrects any over-rating by respondents of their self-assessed performance:



## STRATEGY & LEADERSHIP

- Reviewed global best practices and frameworks
- Engaged your leadership teams on issues around responsible AI



## GOVERNANCE

- Reviewed the systems and processes used by AI vendors
- Evaluated the risks and opportunities for human rights
- Developed materials to aid decision making processes



## DATA & SECURITY

- Reviewed underlying databases for potential bias



## PEOPLE & SKILLS

- Hired technical consultants or professionals
- Consulted specialists in ethical AI
- Hired a more diverse workforce
- Hired non-technical consultants or professionals

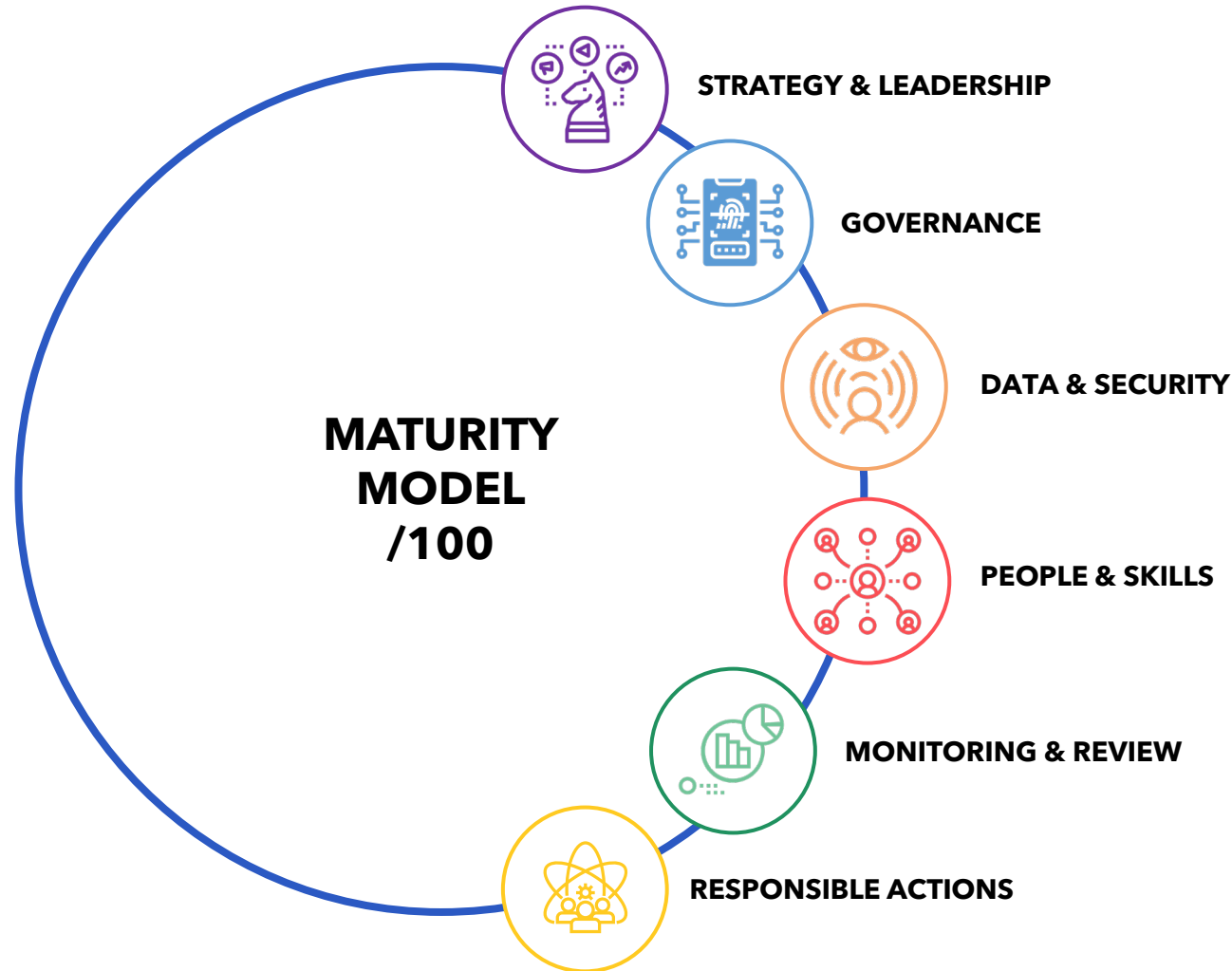


## MONITORING & REVIEW

- Reviewed AI algorithms for potential bias
- Monitored outcomes for customers or employees
- Sourced legal advice around potential areas of liability

# BUILDING THE MATURITY MODEL

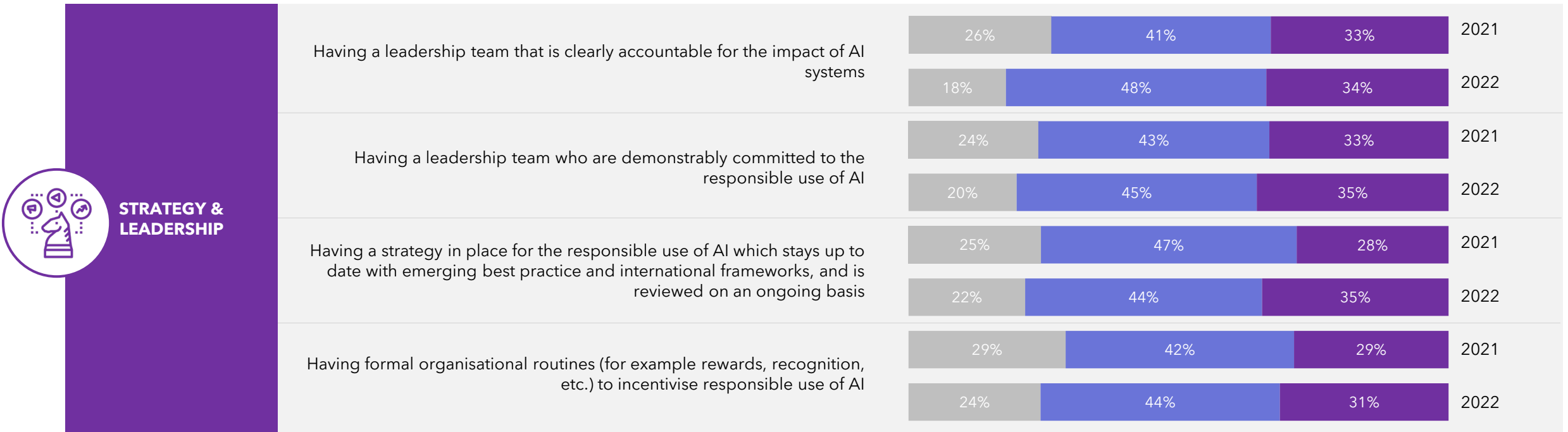
While the first five dimensions were given equal weight to each other in the model to represent the attitudinal component, the sixth behavioural dimension is weighted to be  $\frac{1}{4}$  of the total score to reflect the importance of actions according with self-reported behaviours. After calculation, the total score was rebased to 100.



# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: PERFORMANCE ASSESSMENT

Respondents rated their organisation's performance from 0-10 on the Strategy & Leadership dimensions through individual statements, with results in 2022 showing a similar distribution of scores across each attribute, with top 2 box scores typically higher than those in 2021.

% of respondents who rated themselves (0-6) / (7-8) / (9-10) in each area

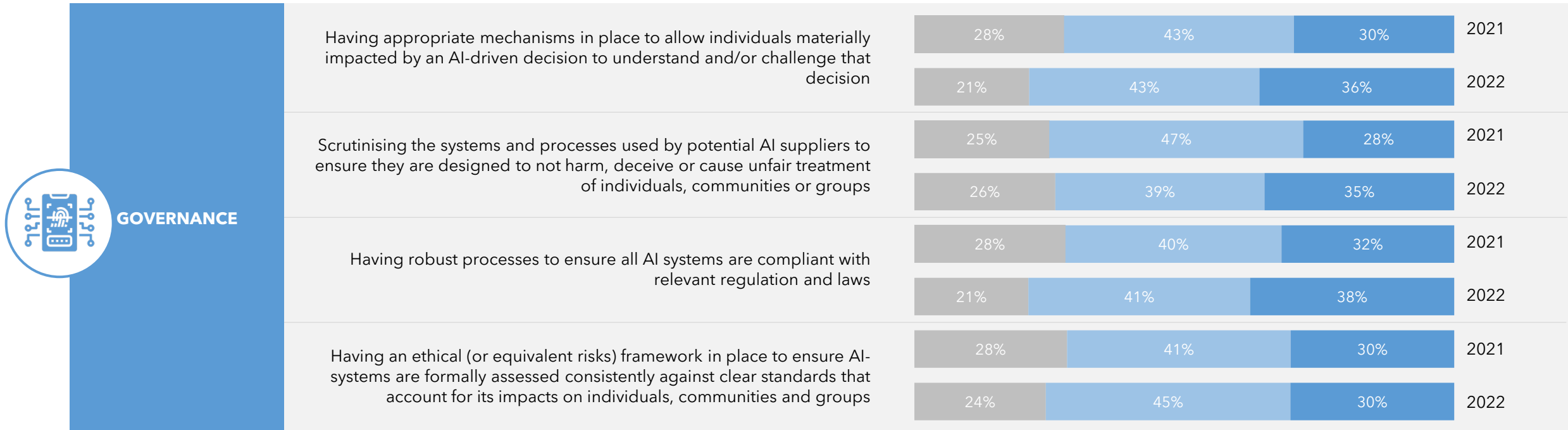


The most notable uplift in performance is in having a regularly reviewed strategy in place for the responsible use of AI.

# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: PERFORMANCE ASSESSMENT

Respondents also rated their organisation's performance on Governance dimensions, showing similar distributions across statements in 2022, again typically higher than 2021 results, except having an ethical framework in place.

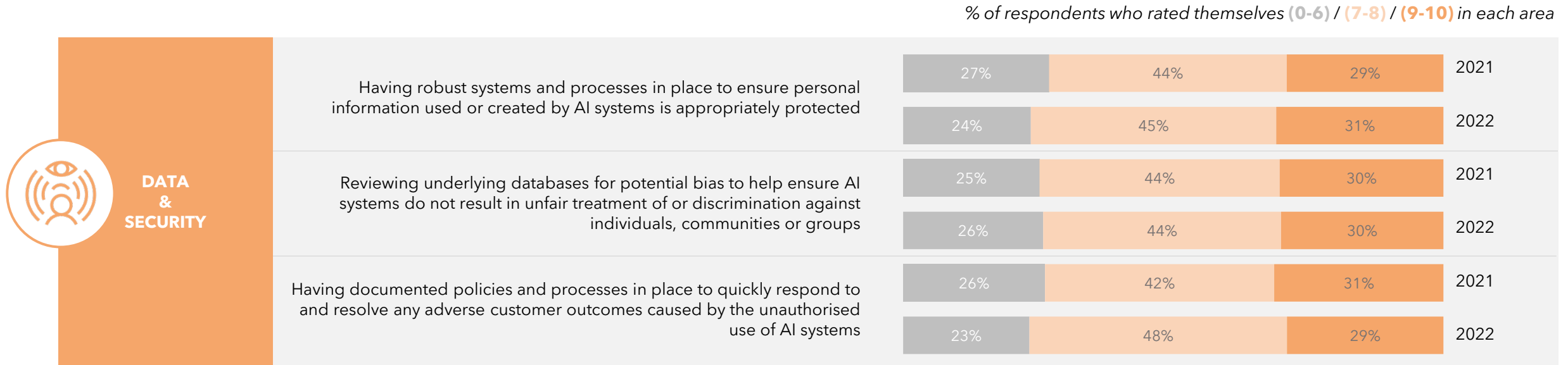
% of respondents who rated themselves (0-6) / (7-8) / (9-10) in each area



The most notable uplift in performance is in scrutinising the systems provided by AI vendors to ensure they do not cause harm or unfair treatment.

# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: PERFORMANCE ASSESSMENT

Respondents rated organisational performance on the Data & Security dimensions in 2022 similar to 2021 results.



Given recent high profile data breaches, it is concerning that around a quarter of organisations give themselves a relatively low score, below seven out of ten, on criteria relating to data and security.

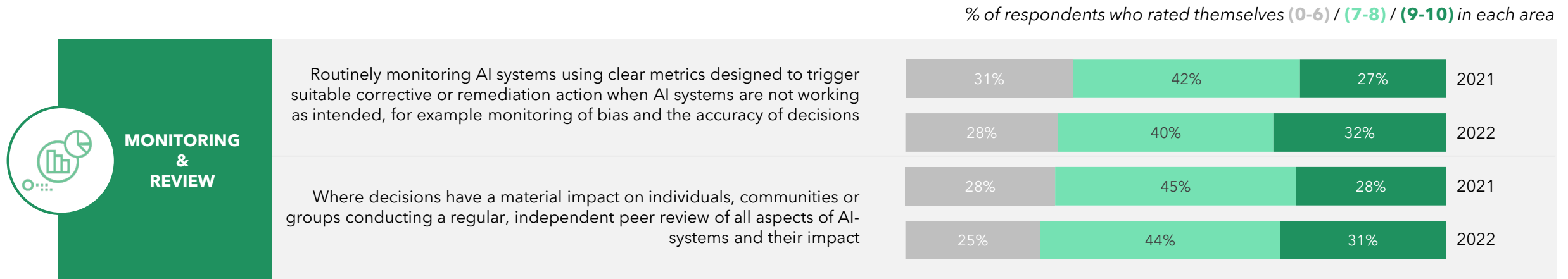
Respondents rated organisational performance on the Data & Security dimensions similar to 2021.

% of respondents who rated themselves (0-6) / (7-8) / (9-10) in each area



This relatively stagnant performance on people and skills may reflect the challenging labour market conditions during the COVID-19 pandemic with restrictions in place on the hire of international talent.

Monitoring & Review dimensions showing positive improvement in scores compared with 2021.



The most notable uplift in performance is in routinely monitoring AI systems using metrics to trigger remedial action when systems are not working as intended.

# THE RESPONSIBLE AI MATURITY ASSESSMENT FRAMEWORK: ACTIONS TAKEN

The behavioural component of the maturity model takes into account a range of practices that can be taken to support the responsible deployment of AI. Concerningly, fewer organisations are employing these practices in 2022, when compared to 2021 results.

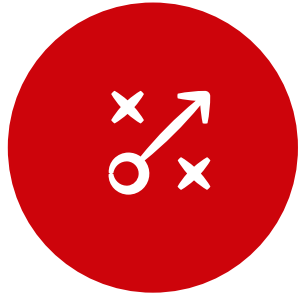


This may indicate an appreciation of the challenges involved when developing AI responsibly and points to a need for resources to guide organisations towards frameworks and tools which can help them deploy AI systems responsibly.



# RESPONSIBLE AI MATURITY SEGMENTS

The Index identifies four levels of maturity regarding an organisation's approach to Responsible AI.

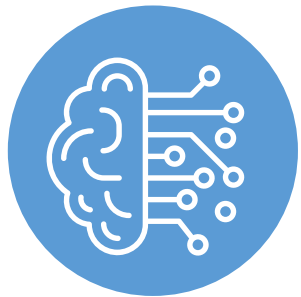


## Planning

- 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

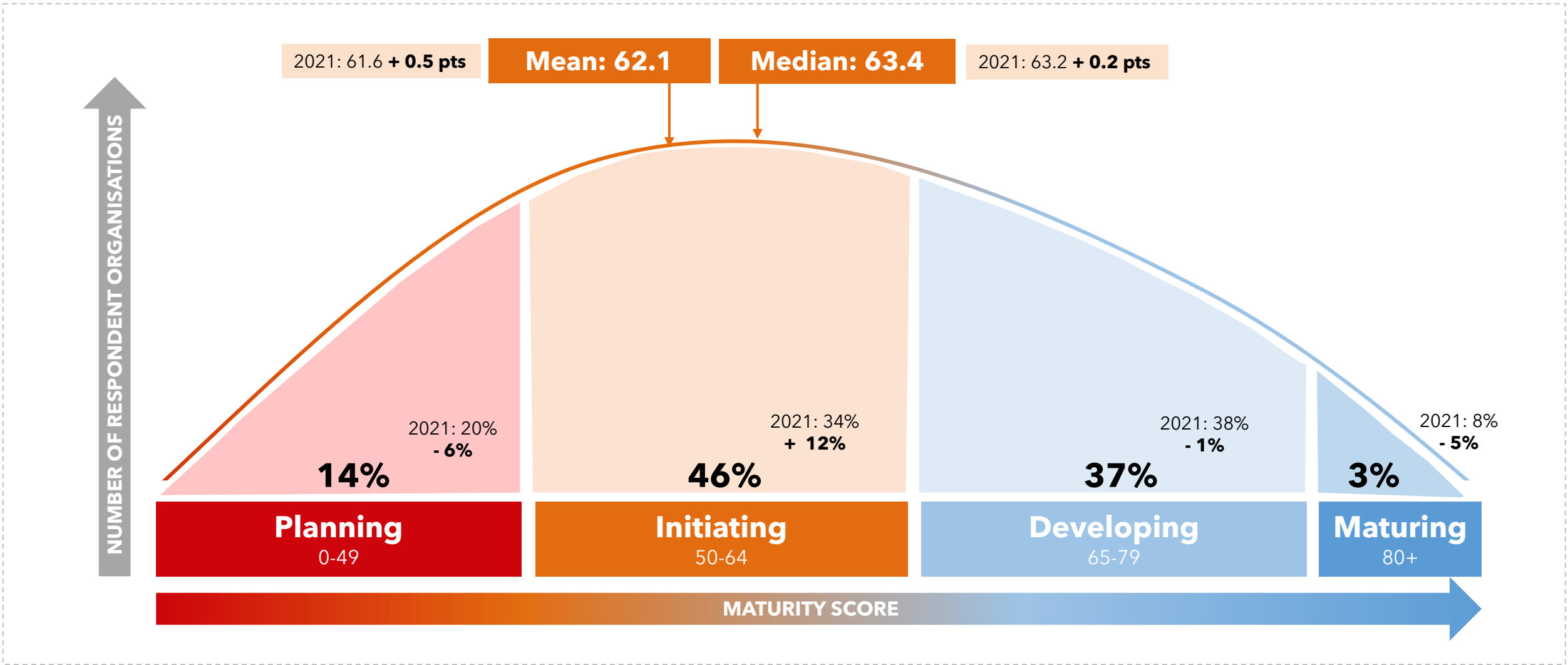
## Developing

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



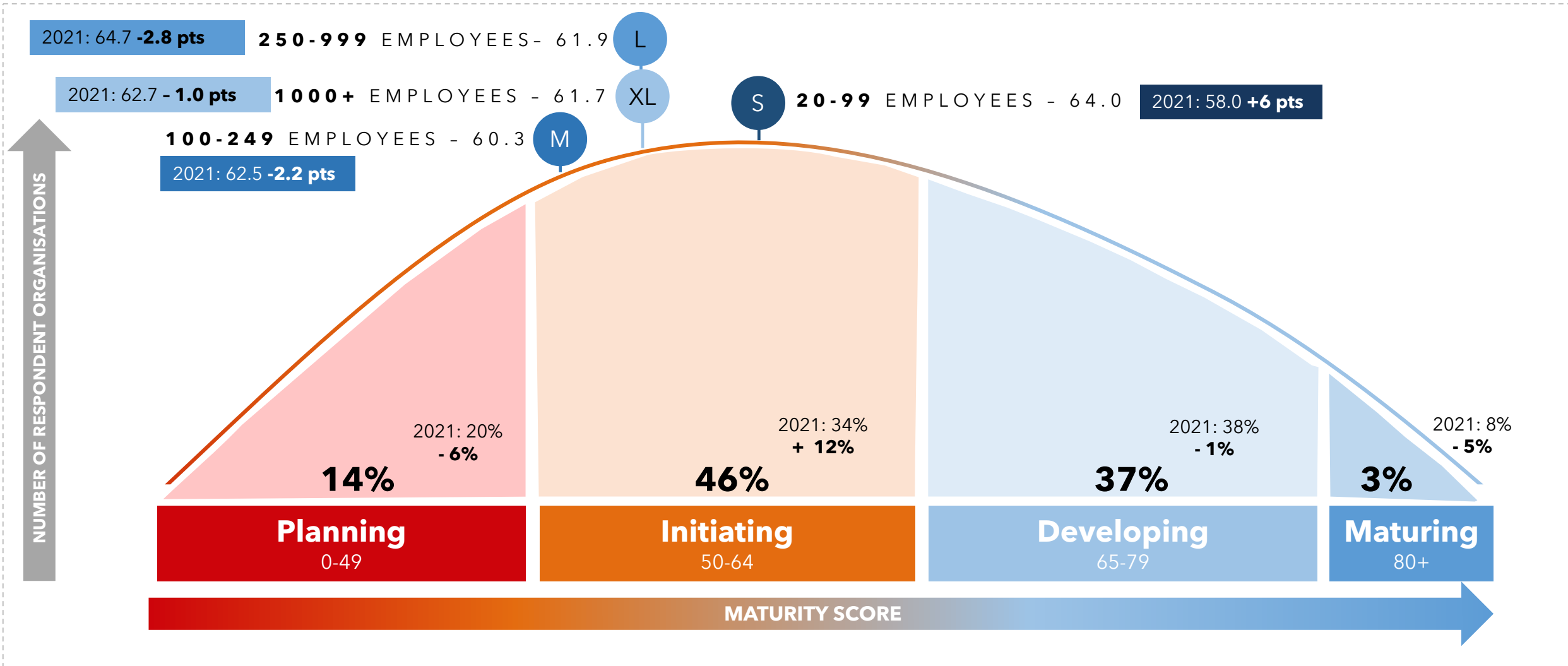
# RESPONSIBLE AI MATURITY INDEX

Most organisations sit within the Initiating and Developing groups. In 2022, the strongest shift is from Planning to Initiating, and there is a decline in the size of the Maturing group.



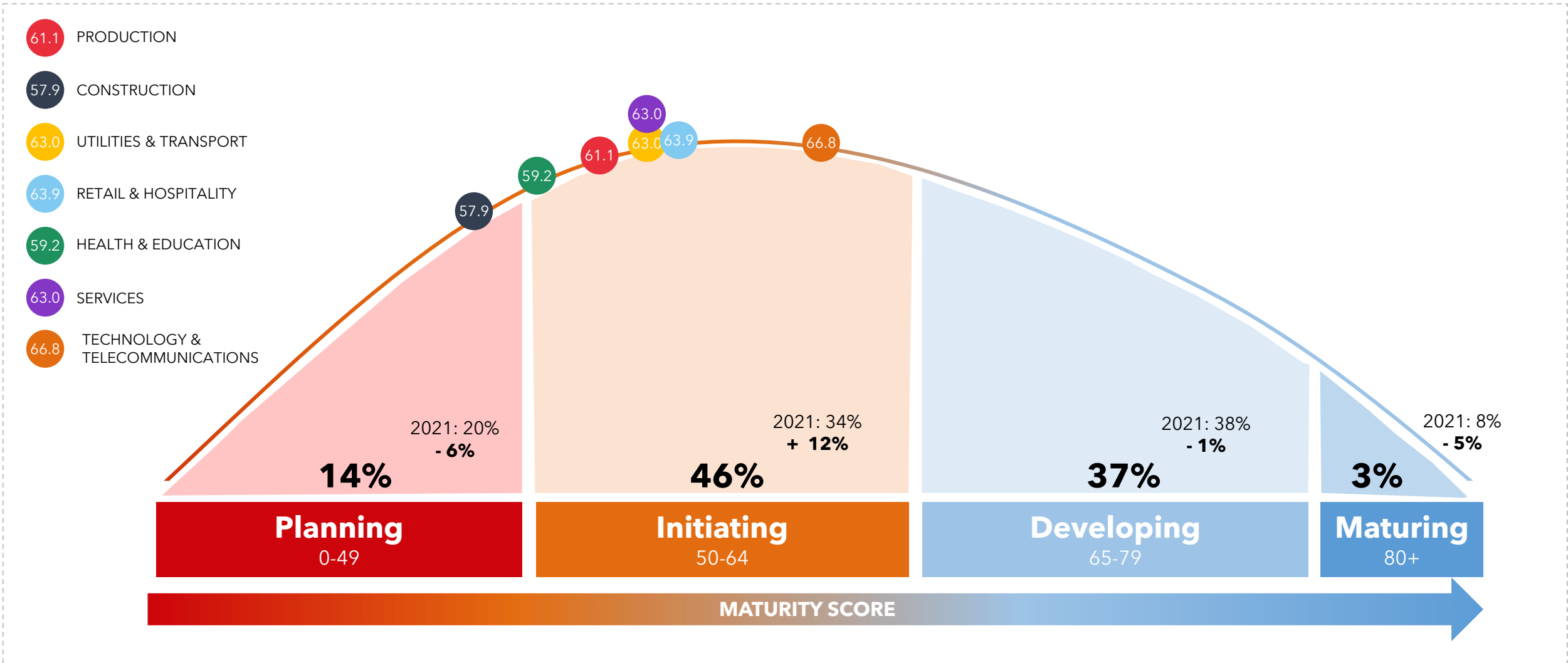
# RESPONSIBLE AI MATURITY INDEX BY BUSINESS SIZE

As with 2021, business size is not a strong indicator of maturity. Smaller companies are taking a more mature approach to Responsible AI, now with the highest maturity score overall.



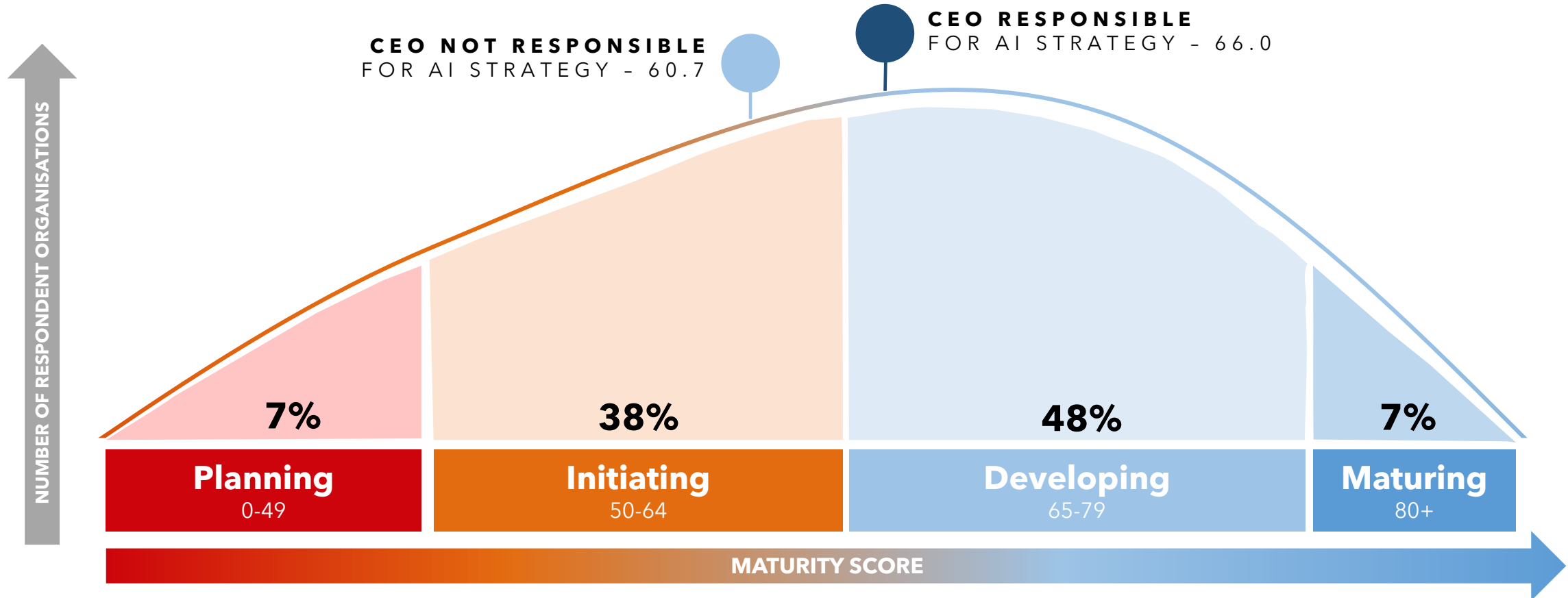
# RESPONSIBLE AI MATURITY INDEX BY INDUSTRY

The Technology & Telecommunications industry shows a higher level of maturity compared to other industries, whilst Construction companies are the least mature, showing a higher likelihood to be planning their approach to Responsible AI, rather than initiating.



# RESPONSIBLE AI MATURITY INDEX BY CEO INVOLVEMENT

Organisations where the CEO is responsible for driving the AI strategy are more mature than those where the CEO is not taking the lead. More of these organisations are in the Developing and Maturing phase, compared to organisations overall, therefore showing a higher likelihood to be already deploying and using AI.

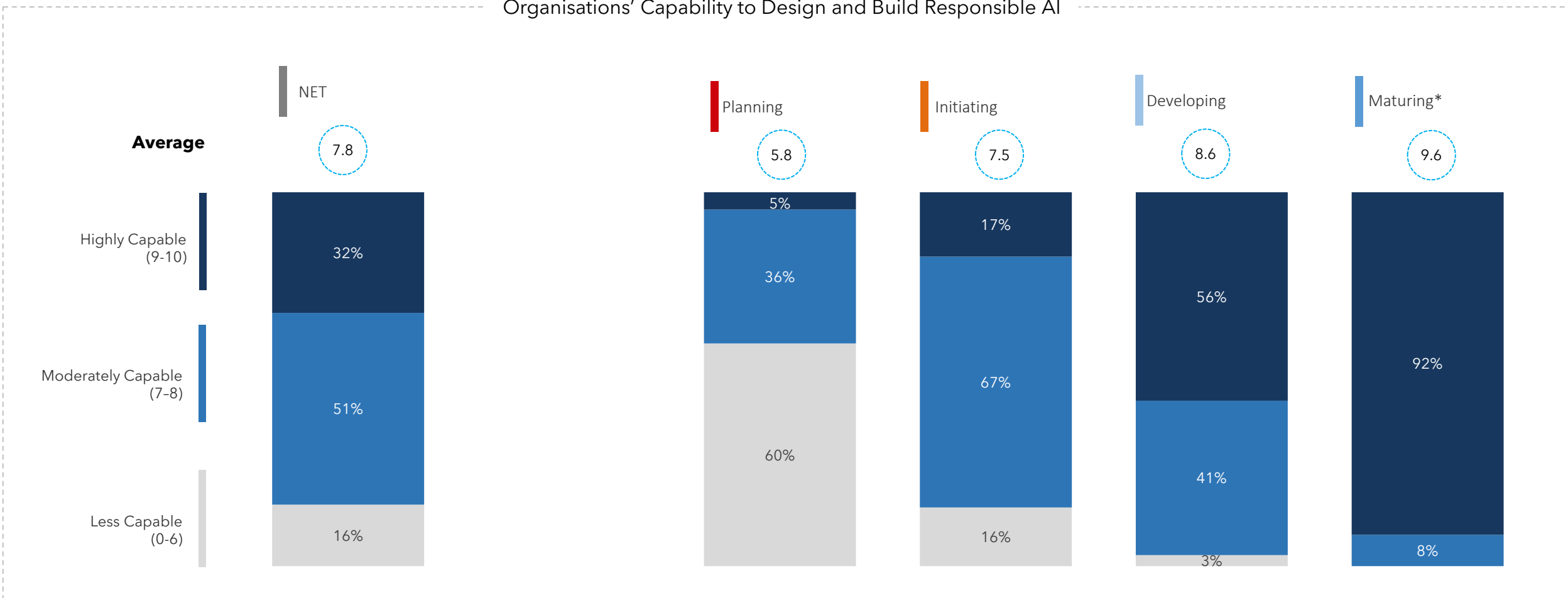


Organisations that have the CEO leading the AI strategy are more likely to invest in developing their culture and governance processes so as to elevate RAI practices to a level of standard routine.

# CURRENT CAPABILITY TO BUILD RESPONSIBLE AI

The Developing and Mature segments highly rate their ability to design and build a responsible AI system.

Organisations' Capability to Design and Build Responsible AI



Australian organisations that are Planning to deploy AI recognise there are gaps in their capabilities to do this ethically and responsibly, whilst those Initiating are less unsure, but are still not completely confident. Those in the Developing and Maturing segments show more confidence in their capabilities.

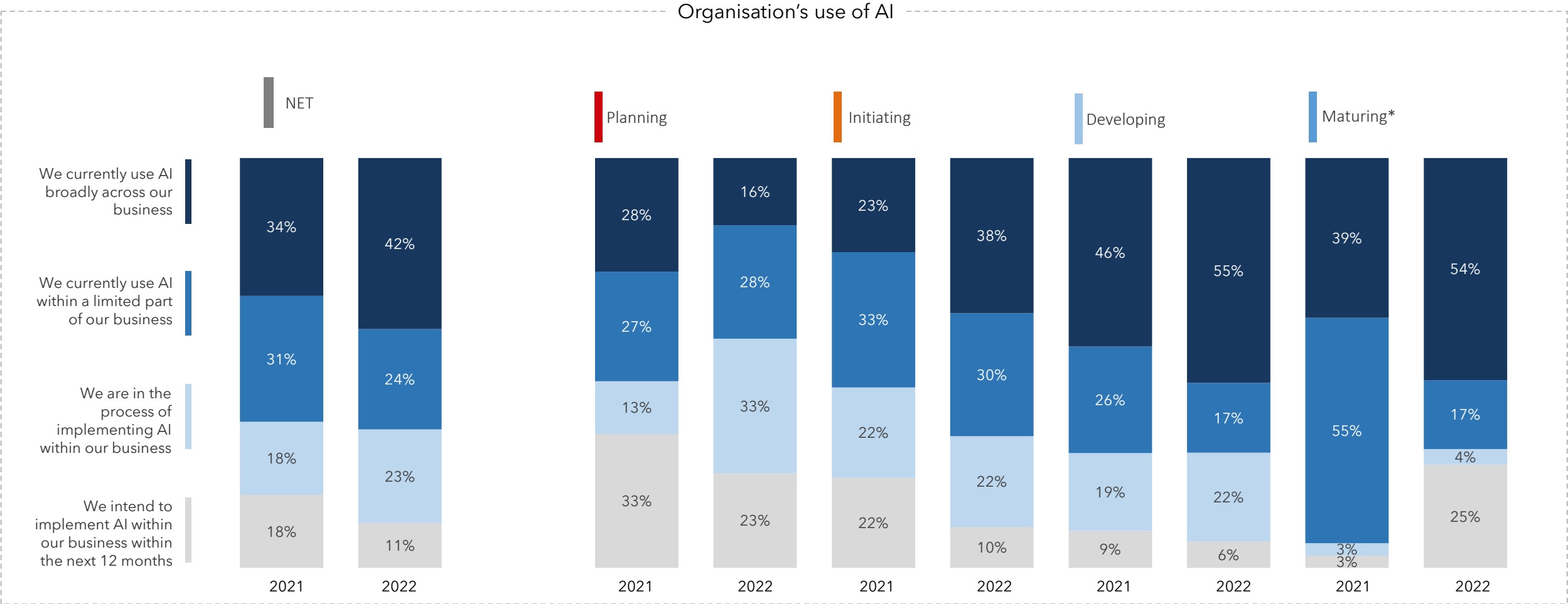
# CONTENTS



1. BACKGROUND
2. THE RESPONSIBLE AI INDEX
- 3. THE STATE OF AI IN AUSTRALIA**
4. AI ETHICS PRINCIPLES
5. PRINCIPLES IN PRACTICE
6. BRIDGING THE GAP

# USE OF AI

Overall use of AI in organisations is in line with 2021, but its now less limited to parts of the business, with more organisations using it broadly. This is especially true amongst the Developing cohort.

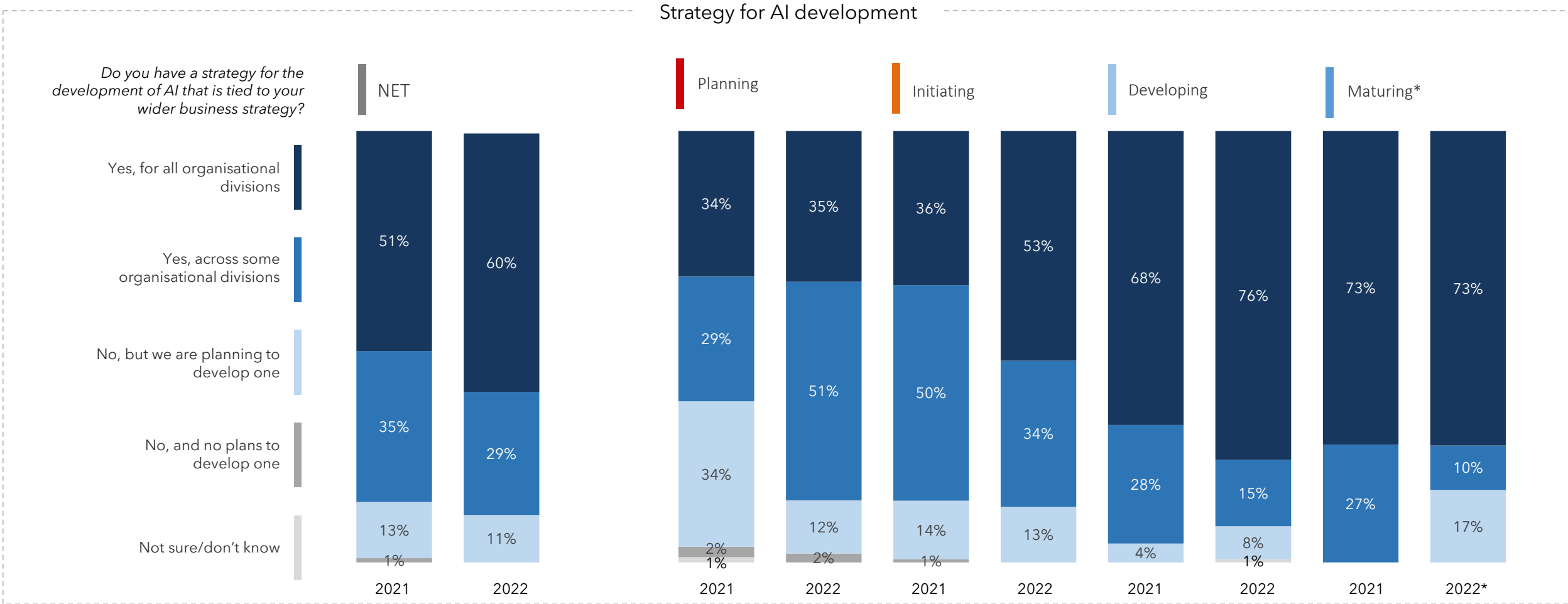


The Initiating cohort is becoming more confident in its ability to deploy AI responsibly before the technology becomes more widely deployed across the business.



# ORGANISATIONAL STRATEGY FOR AI

6 out of 10 organisations now have an enterprise-wide AI strategy, with the Planning cohort shifting from recognition of need to developing AI strategies for specific business functions, whilst the Initiating cohort is now taking a more holistic business-wide view.

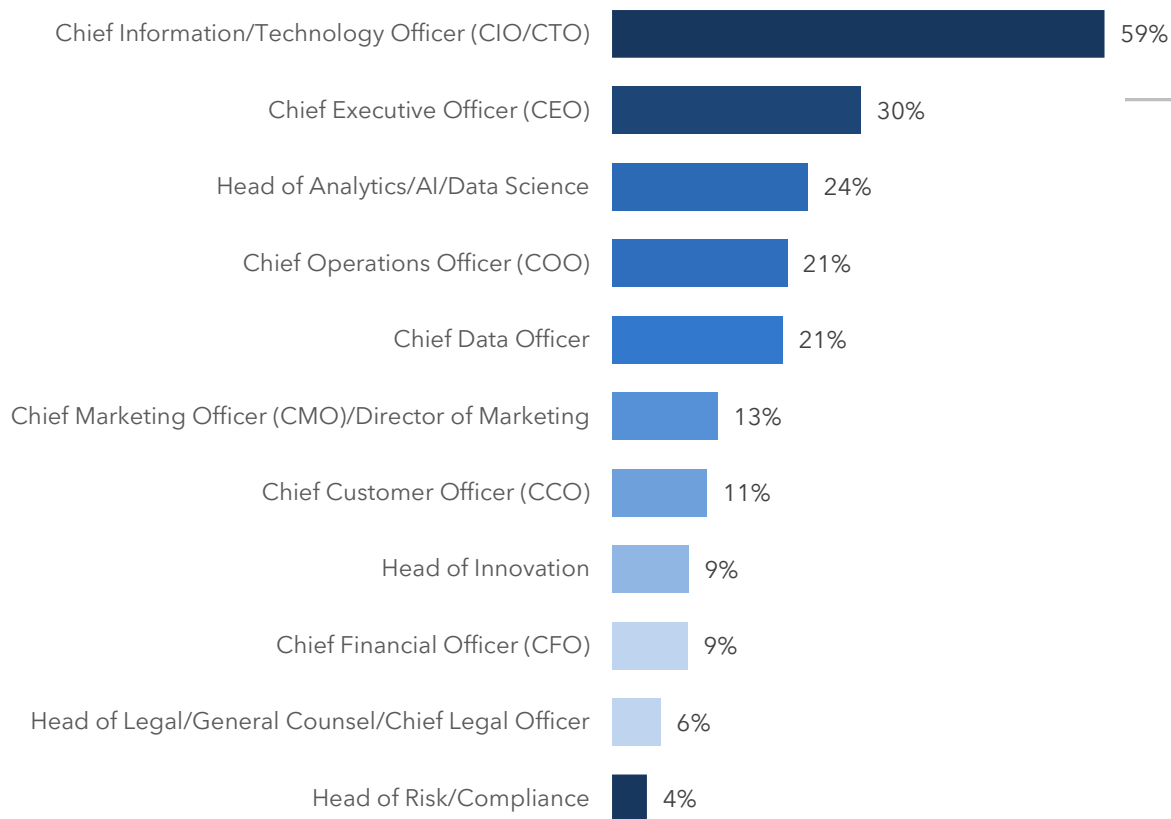


The Initiating cohort need to continue the transition from opportunistic and tactical AI decision-making to a more strategic orientation.

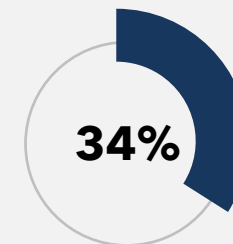
# KEY ROLES FOR DRIVING AI STRATEGY

Chief Information Officers remain the key figure in an organisation responsible for driving the AI strategy, but businesses with their CEO driving the AI strategy are much more likely to have an enterprise-wide AI strategy and as indicated previously, score higher on the RAI Index.

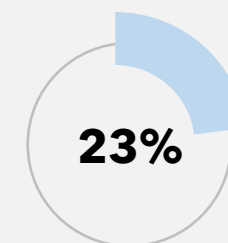
Who in your organisation is responsible for driving the organisation's AI strategy?



**Organisations that have an enterprise-wide AI strategy tend to have a CEO personally invested in driving AI strategy**



of organisations that have **AI strategy tied to all divisions** say their **CEO drives AI strategy**

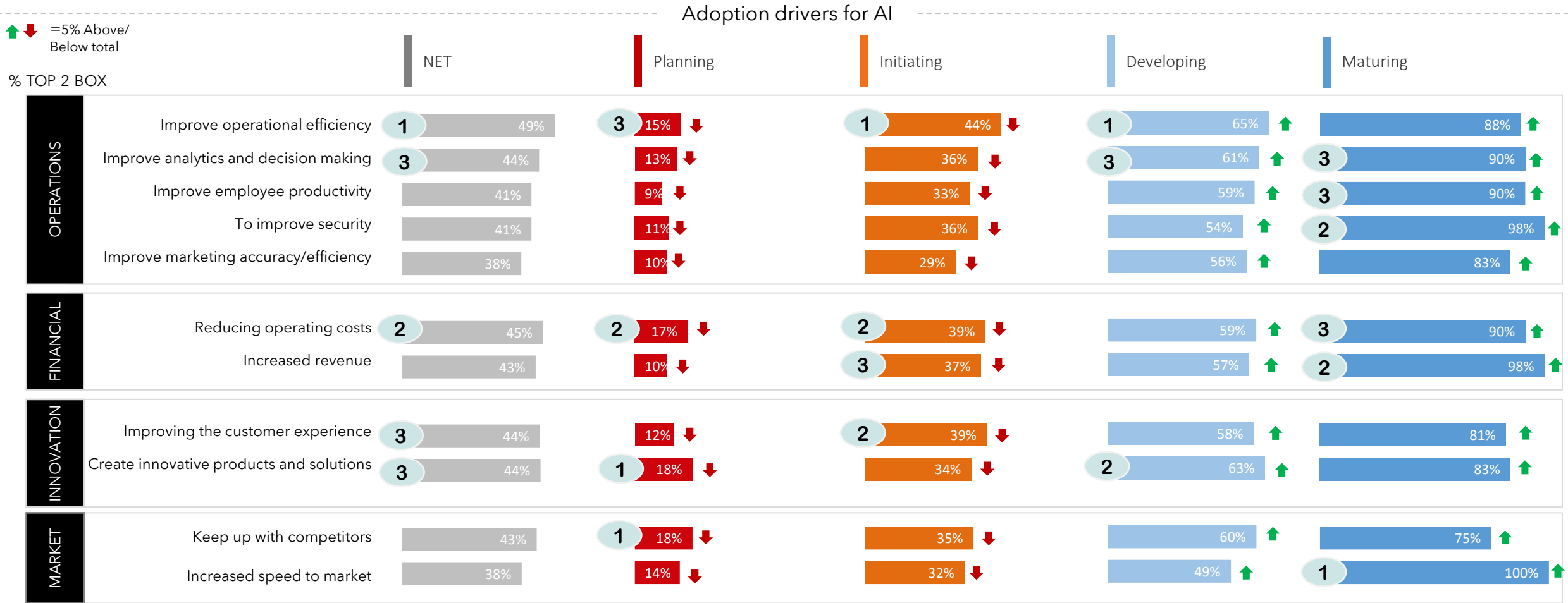


of organisations that have **AI strategy tied to some divisions** say their **CEO drives AI strategy**

Having a CEO driving AI strategy ensures accountability and a more strategic AI orientation across the business.

# KEY ADOPTION DRIVERS FOR AI

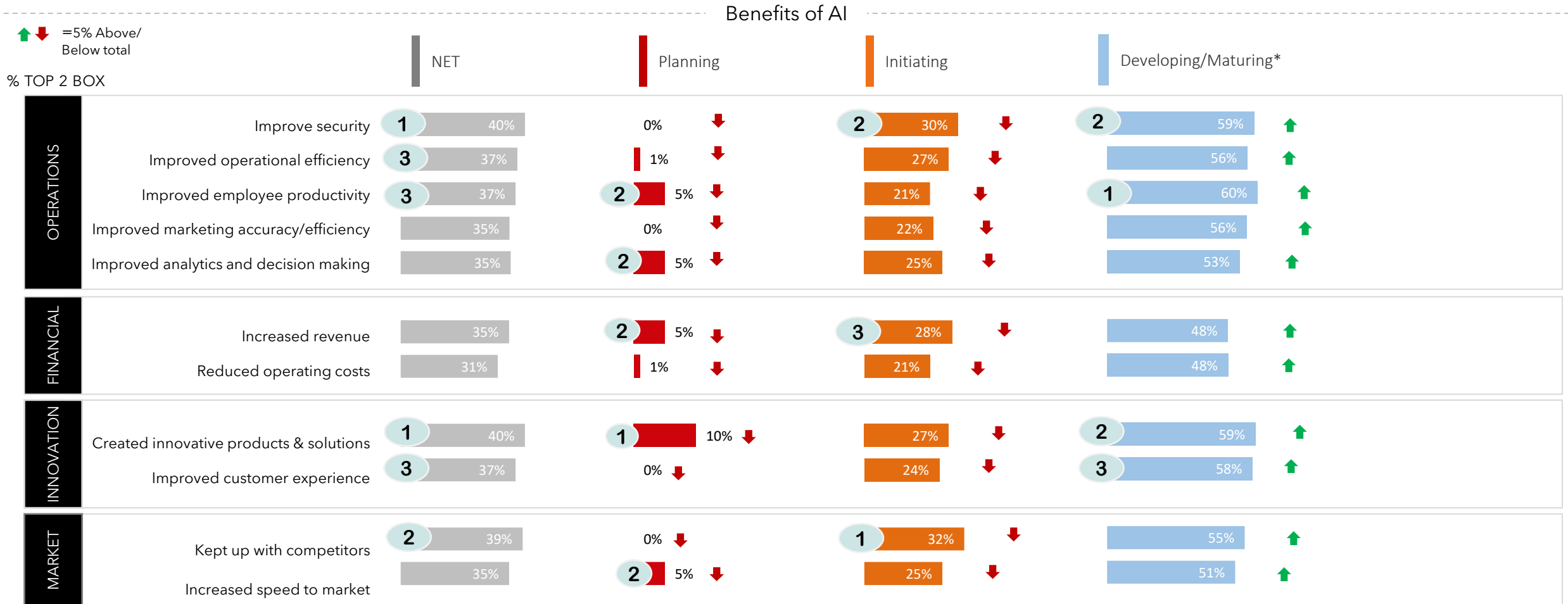
Organisations are investing in AI in order to improve operational efficiency and reduce costs, with the more mature groups seeking to improve multiple facets of their whole business, including increased security.



The AI use cases for the less mature segments may be more limited, though they may also not fully understand the full benefits of AI to their business.

# OUTCOMES OF AI

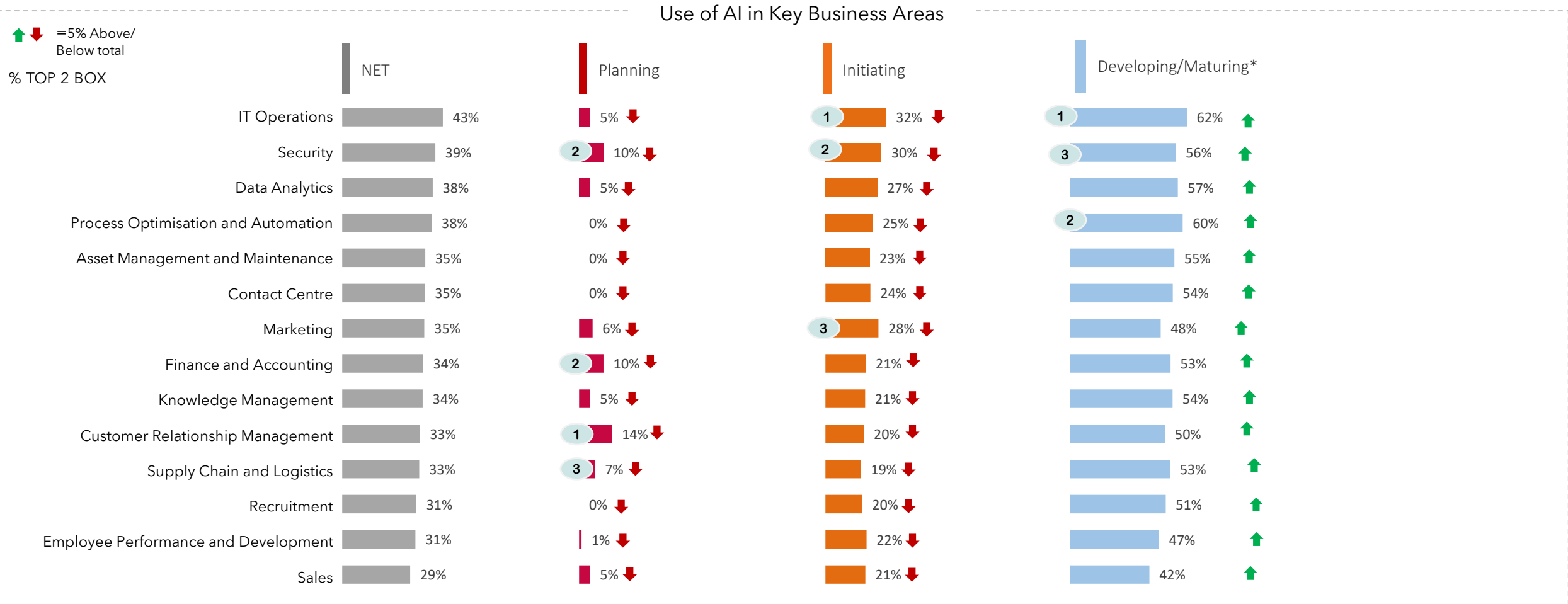
Organisations are discovering multiple benefits of AI, especially in improving security, enabling product and service innovation to help them keep pace with their competitors.



The achievement of security outcomes is important in the context of recent data breaches. However, those in the planning stage do not see this as an outcome for the business which reflects their inexperience. This group may benefit from case studies about how a responsible approach to AI can improve data security and privacy.

# USE OF AI ACROSS BUSINESS AREAS

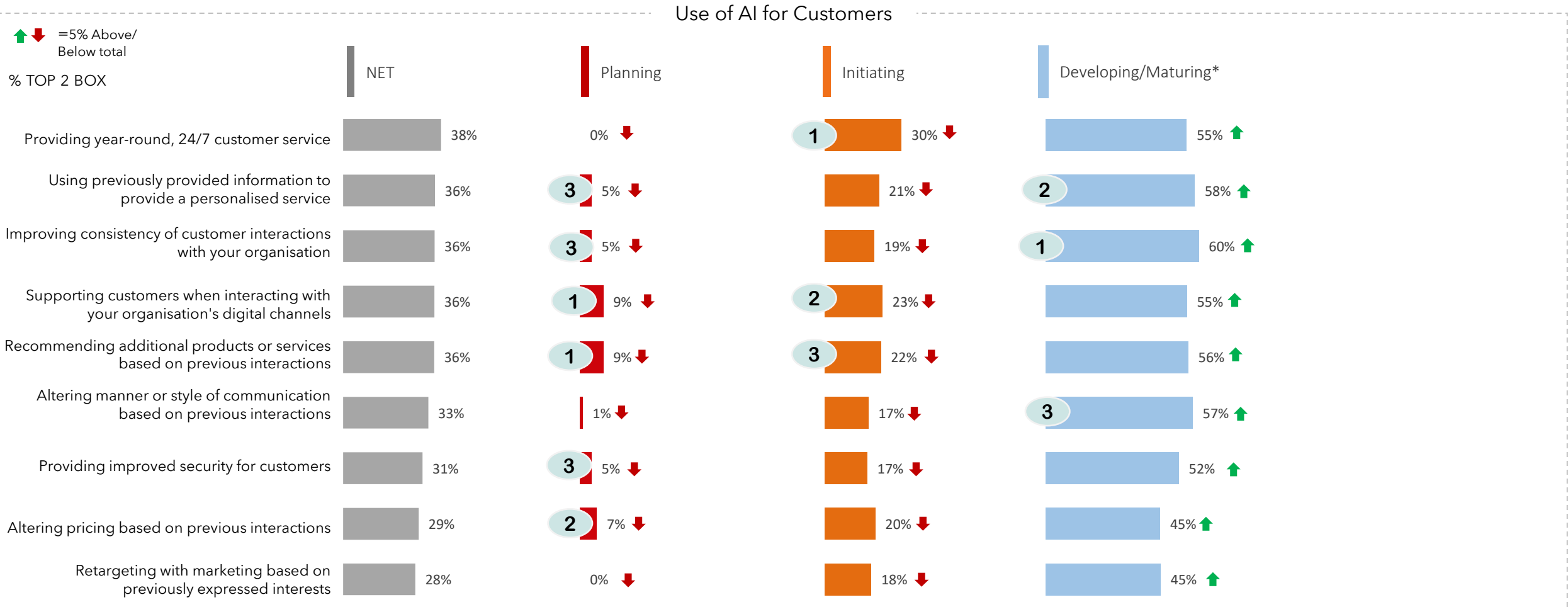
AI is most commonly used in IT, security and analytics; with both Developing and Maturing segments significantly more likely to be using AI to support all areas of their organisation than less mature groups.



The main applications for in AI are in business functions which have processes that can be easily automated and scaled, such as analytics. AI is used less frequently in other areas which require more human interactions, such as CRM, HR and sales.

# AI USE CASES FOR CUSTOMERS

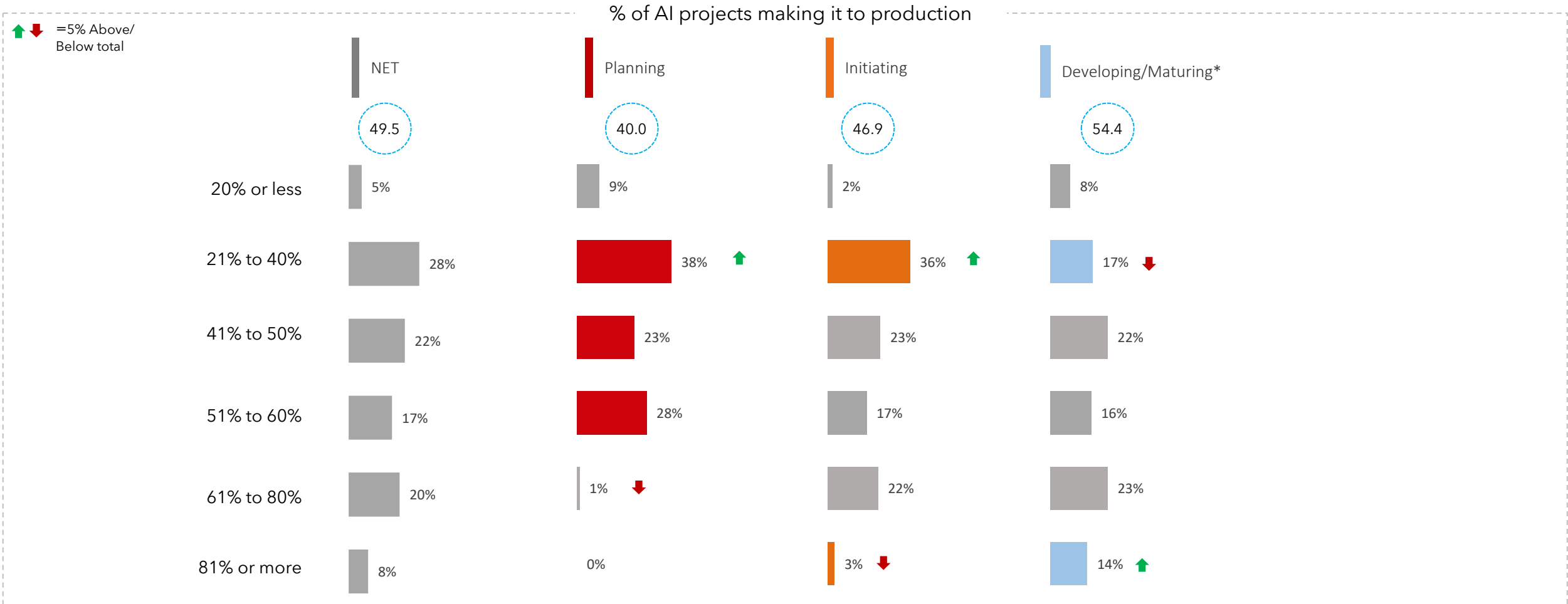
Organisations are looking to deploy AI to provide year-round, 24/7 service to customers; less mature groups are limiting AI use across customer touchpoints, focusing more on supporting customers interactions with digital channels.



The less mature groups see fewer opportunities to use AI to engage with customers.

# AI PROJECTS MAKING IT TO PRODUCTION

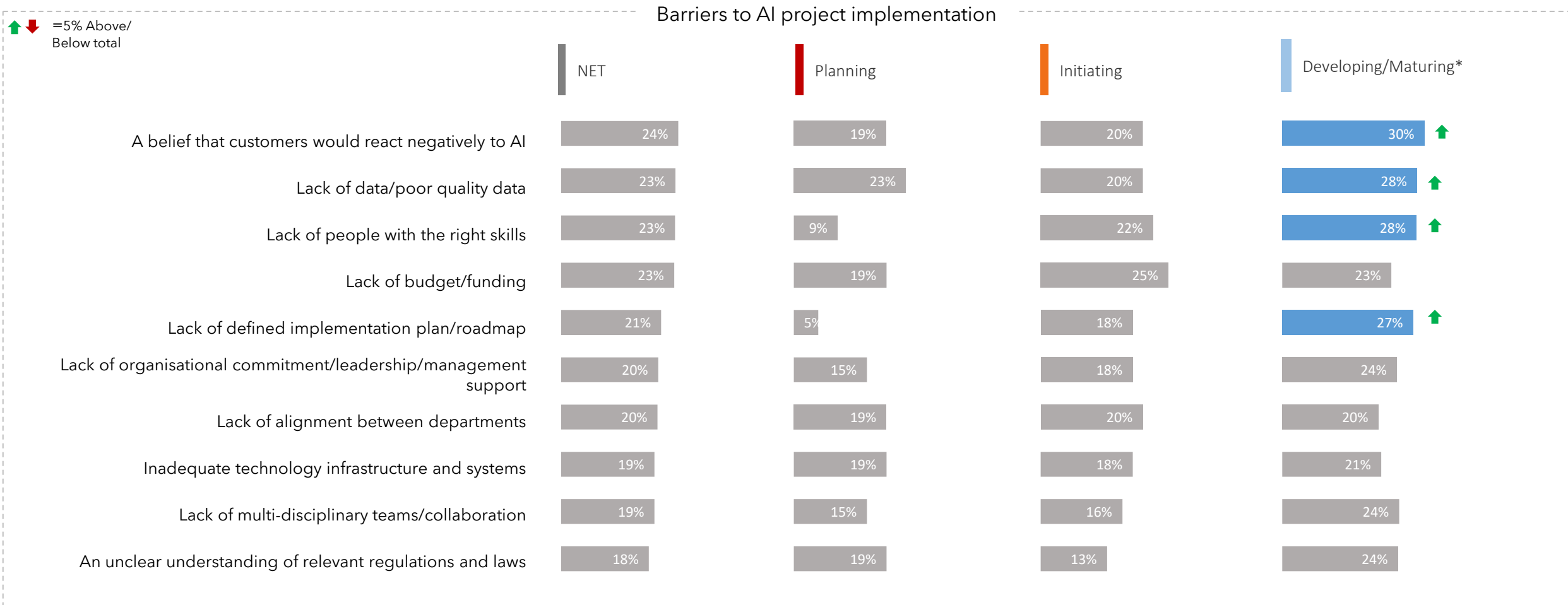
Around half of AI projects succeed and make it into production, with success rates typically improving as an organisation matures.



Practices to test AI systems for reliability and safety in a controlled environment using accurate and representative data should help to mitigate any unintended, negative impacts of projects before they make it into production.

# MAIN REASONS WHY AI PROJECTS DO NOT MAKE IT TO PRODUCTION

AI projects do not make it into production due to a combination factors including data availability and quality, funding, skill gaps and technology infrastructure requirements.

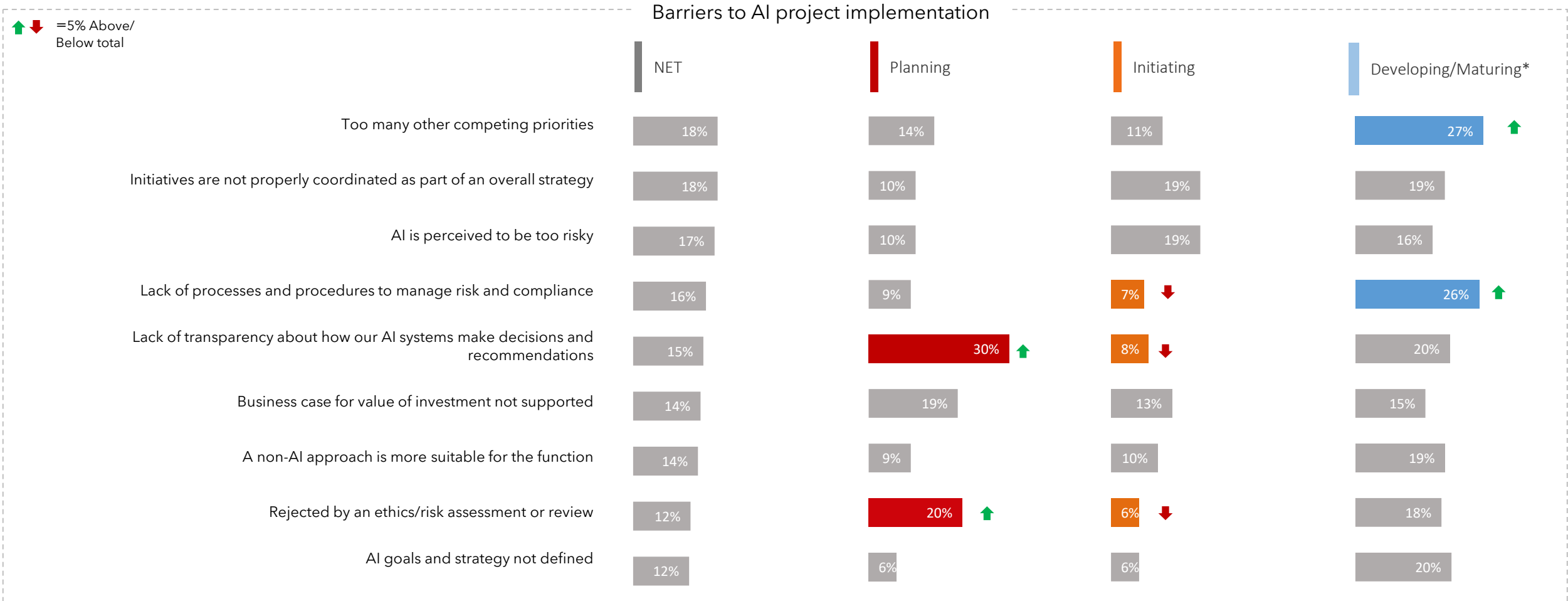


Organisations should consider factors such as data quality and quantity, and infrastructure requirements when piloting and testing AI systems, using resources that provide guidance on how to transition from pilot studies to a production scale deployment.



# OTHER REASONS WHY AI PROJECTS DO NOT MAKE IT TO PRODUCTION

As an organisation's approach to responsible AI matures, barriers around the coordination of strategy and initiatives emerge.



Those in the planning phase find transparency and explainability to be challenging and would benefit from using tools and guidelines to overcome these barriers.




# CONTENTS



1. BACKGROUND
2. THE RESPONSIBLE AI INDEX
3. THE STATE OF AI IN AUSTRALIA
- 4. AI ETHICS PRINCIPLES**
5. PRINCIPLES IN PRACTICE
6. BRIDGING THE GAP

# FEDERAL GOVT. AI ETHICS PRINCIPLES

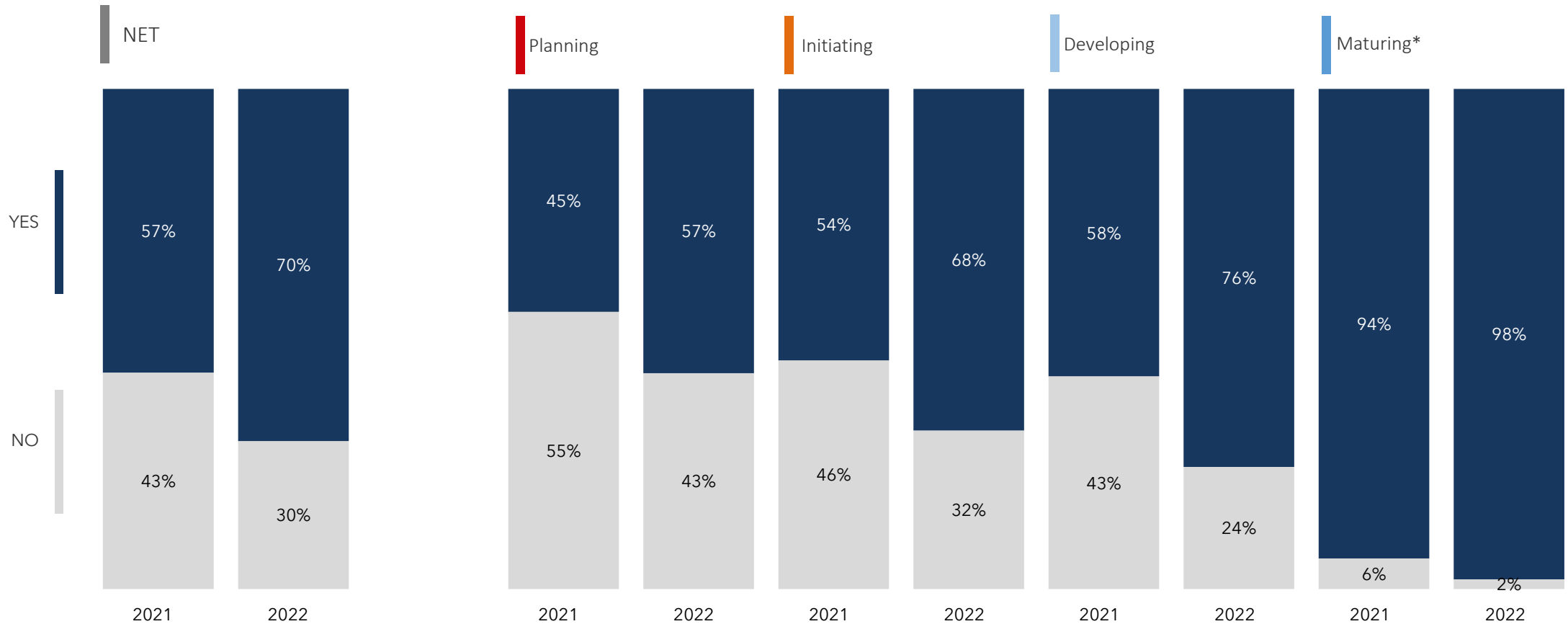
The elements of the Department of Industry's AI Ethics Principles were incorporated into the questionnaire, and are examined in more detail in this section of the report to identify the gap between attitudes towards responsible AI and the steps that organisations are taking to implement AI responsibly.

 <b>HUMAN PRINCIPLES</b>			 <b>PRIVACY AND RELIABILITY</b>		 <b>INTEGRITY</b>		
<b>HUMAN, SOCIAL &amp; ENVIRONMENTAL WELLBEING</b> <i>Throughout their lifecycle, AI systems should benefit individuals, society and the environment</i>	<b>HUMAN-CENTERED VALUES</b> <i>Throughout their lifecycle, AI systems should be inclusive and accessible, and should not involve or result in unfair discrimination against individuals, communities or groups</i>	<b>FAIRNESS</b> <i>Throughout their lifecycle, AI systems should respect human rights, diversity, and the autonomy of individuals</i>	<b>PRIVACY PROTECTION &amp; SECURITY</b> <i>Throughout their lifecycle, AI systems should respect and uphold privacy rights and data protection, and ensure the security of data</i>	<b>RELIABILITY &amp; SAFETY</b> <i>Throughout their lifecycle, AI systems should reliably operate in accordance with their intended purpose</i>	<b>TRANSPARENCY &amp; EXPLAINABILITY</b> <i>There should be transparency and responsible disclosure to ensure people know when they are being significantly impacted by an AI system, and can find out when an AI system is engaging with them</i>	<b>CONTESTABILITY</b> <i>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</i>	<b>ACCOUNTABILITY</b> <i>Those responsible for the different phases of the AI system lifecycle should be identifiable and accountable for the outcomes of the AI systems, and human oversight of AI systems should be enabled</i>
<ul style="list-style-type: none"> <li>• AI system objectives should be clearly identified and justified</li> <li>• AI systems should be used to benefit all human beings, including future generations</li> <li>• Positive and negative impacts should be accounted for throughout the lifecycle of all legitimate internal business process AI systems</li> </ul>	<ul style="list-style-type: none"> <li>• AI systems need to be aligned with human values and enable an equitable and democratic society</li> <li>• Must respect, protect and promote human rights</li> <li>• Should be designed to augment, complement and empower human cognitive, social and cultural skills</li> </ul>	<ul style="list-style-type: none"> <li>• AI systems need to be fair and enable inclusion throughout their lifecycle</li> <li>• Should be user-centric, designed to allow all people to interact with it</li> <li>• Measures should be taken to ensure AI produced decisions are compliant with anti-discrimination laws</li> </ul>	<ul style="list-style-type: none"> <li>• Ensuring respect for privacy and data protection, including proper data governance and management</li> <li>• Also ensures appropriate data and AI system security measures are in place, including the identification of potential security vulnerabilities and assurance of resilience to adversarial attacks</li> </ul>	<ul style="list-style-type: none"> <li>• Ensures AI systems are reliable, accurate and reproducible</li> <li>• AI systems should adopt safety measures that are proportionate to the magnitude of potential risks</li> <li>• Responsibility should be clearly and appropriately identified, for ensuring that an AI system is robust and safe</li> </ul>	<ul style="list-style-type: none"> <li>• Transparency through responsible disclosure when an AI system is significantly impacting on a person's life</li> <li>• Information provided in a timely manner, with reasonable justifications for the AI systems outcomes</li> <li>• Aims to ensure people have the ability to find out when an AI system is engaging with them</li> </ul>	<ul style="list-style-type: none"> <li>• Knowing that redress for harm is possible, when things go wrong, is key to ensuring public trust in AI</li> <li>• Needs to be sufficient access to the information available to the algorithm and inferences drawn, to make contestability effective</li> </ul>	<ul style="list-style-type: none"> <li>• Organisations/ individuals should be identifiable and ensure responsibility for AI systems and their outcomes both before and after their design, development, deployment and operation</li> <li>• They must consider the appropriate level of human control or oversight for the particular AI system or use case</li> </ul>

# AWARENESS OF FEDERAL GOVT. GUIDELINES

Awareness of the Department of Industry AI Ethics Principles is higher in 2022 across all maturity segments.

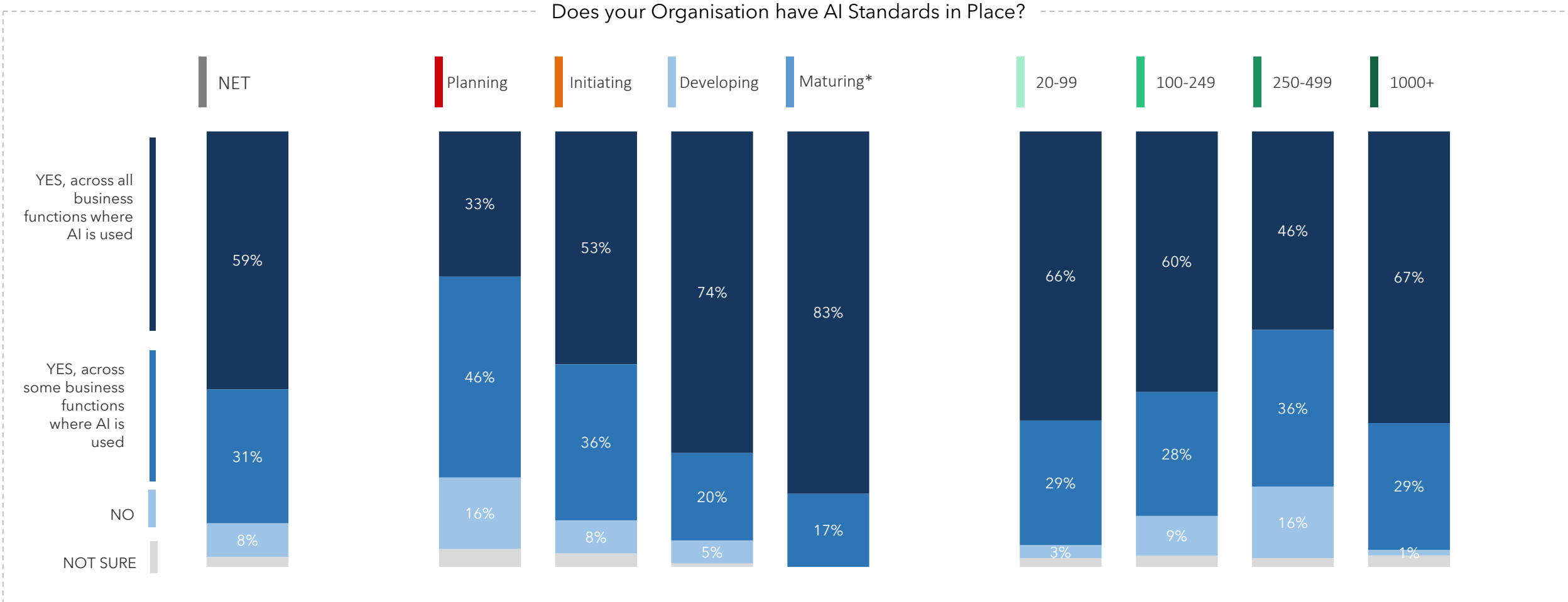
Awareness of Australian Federal Department of Industry's AI principles



There is a continued opportunity to increase awareness of the AI Ethics Principles amongst the less mature groups to further increase industry engagement on the benefits of a responsible approach to AI. This should be supported by guidance on how to practically implement the eight Principles.

# AI STANDARDS

Even though most organisations claim to have formal AI standards in place, these may not be across all functions where AI is used.



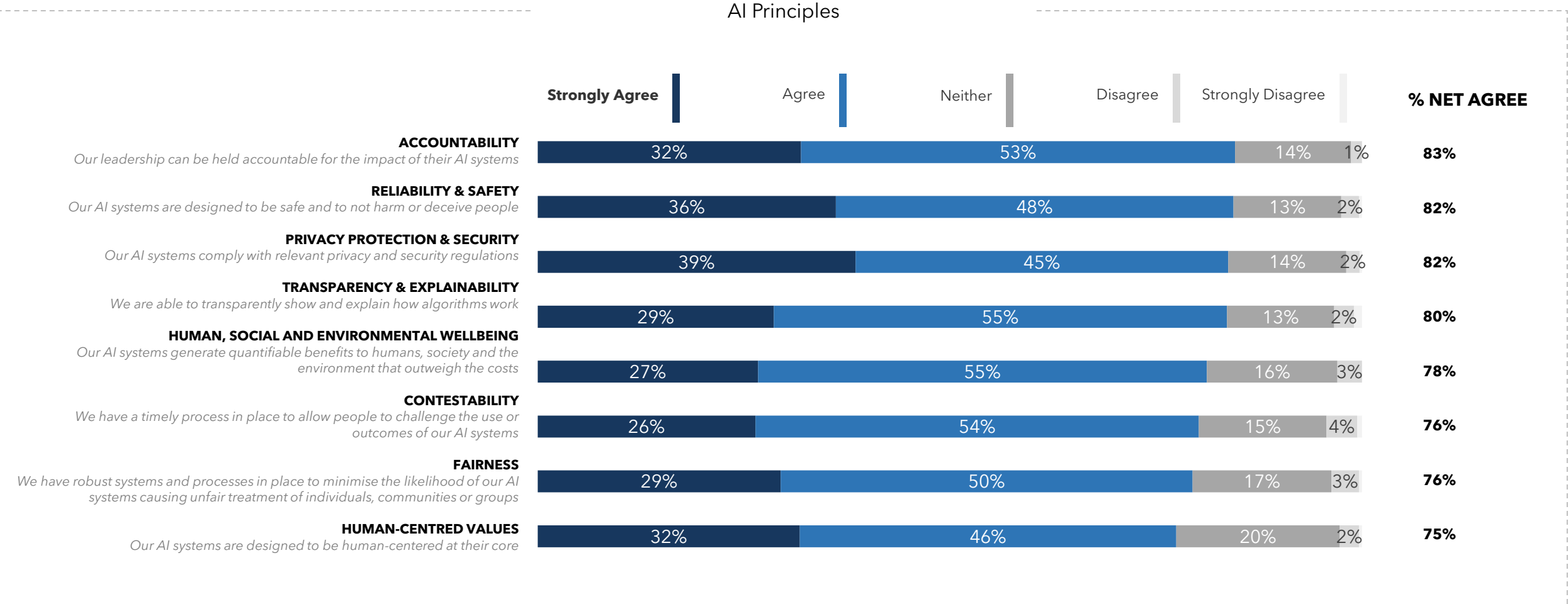
As organisations become more mature in their development and use of AI, they learn how to develop and apply standards across all business functions where AI is used.

# CONTENTS

1. BACKGROUND
2. THE RESPONSIBLE AI INDEX
3. THE STATE OF AI IN AUSTRALIA
4. AI ETHICS PRINCIPLES
- 5. PRINCIPLES IN PRACTICE**
6. BRIDGING THE GAP

# AI PRINCIPLES

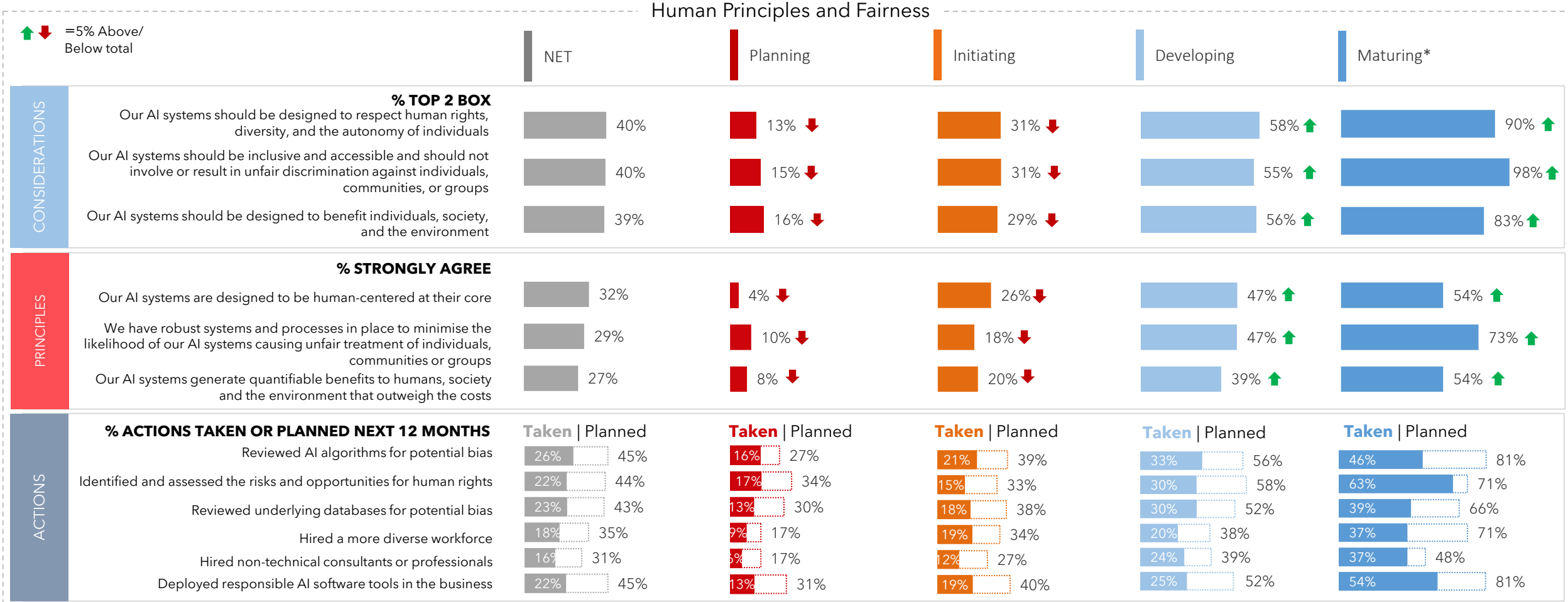
Most respondents agree that their organisation is broadly following the stated intent of the Australian AI Ethics Principles, most notably for Privacy and Protection, Reliability and Safety, and Accountability. Agreement is lowest for Human-Centred Values, Fairness and Contestability.



This level of agreement is encouraging but does not align with the overall Responsible AI Index scores, which may indicate a gap between strategic intent and the actions taken by organisations to put the Australian AI Ethics Principles into practice.

# HUMAN PRINCIPLES

Degree of importance placed on human principles and fairness, and the tangible actions taken to address these, increases with maturity. Developing and Maturing segments have undertaken the most substantive steps to help reduce bias and risk.

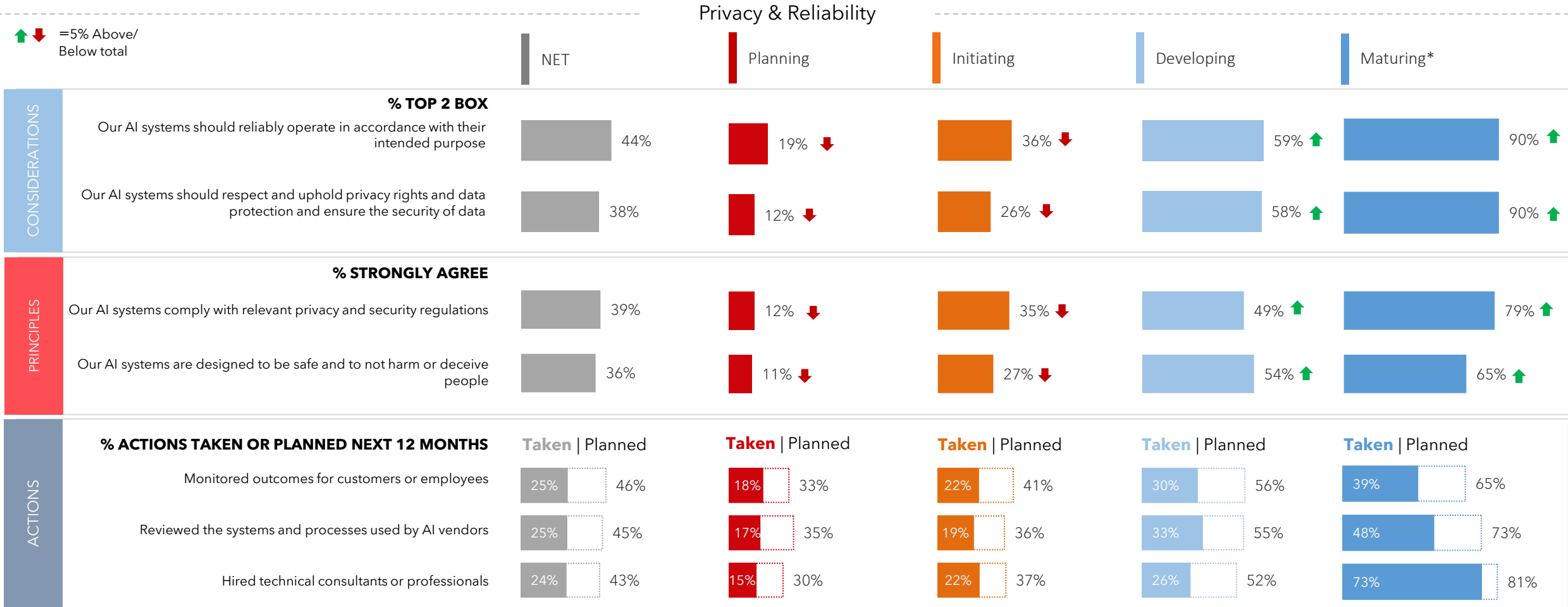


Most organisations, especially the less mature, are not taking the necessary actions to elicit and assess potential impacts of AI systems, incorporate diversity, and measure and improve system fairness.



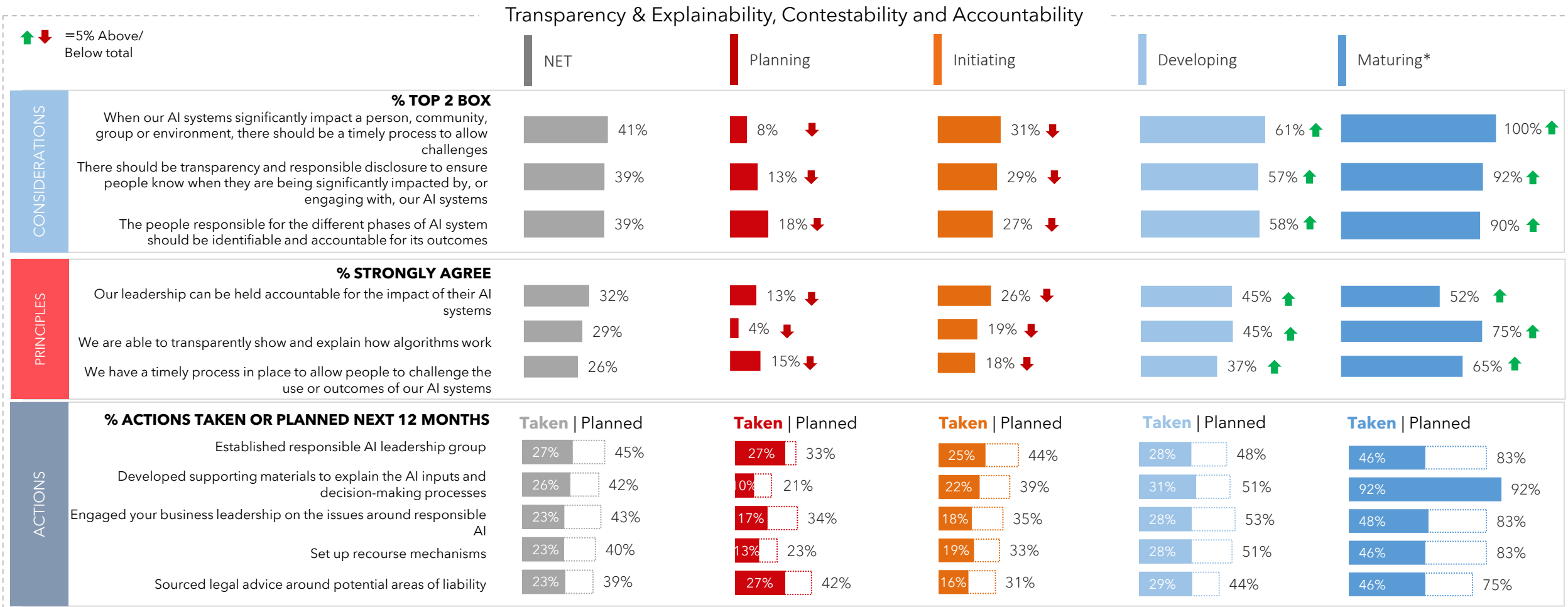
# PRIVACY AND RELIABILITY

More mature cohorts are placing higher importance on system reliability, privacy and safety than less mature organisations, showing a higher likelihood to have taken tangible actions.



There is a gap between most organisations' strategic intent and the actions undertaken to protect systems against attacks, and monitoring systems to ensure they operate safely and reliably.

Most organisations have not taken any actions to ensure transparency and explainability, contestability and accountability, even though these are deemed to be important considerations. Encouragingly, some of those in the Planning phase are taking practical steps to hold their leadership to account.



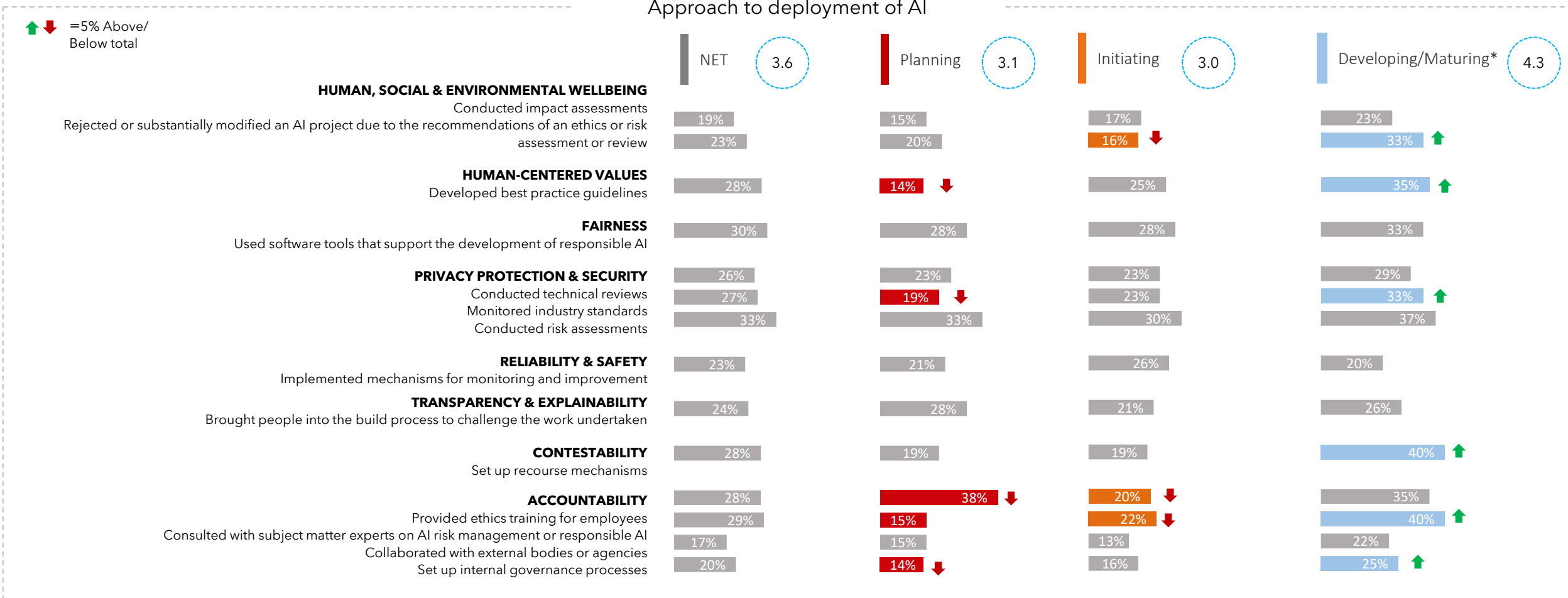
This indicates that organisations need support to understand how to document design decisions, explain how models operate and make decisions, establish recourse mechanisms and implement accountability practices.

Base: All respondents (n=439), Planning (n=51), Initiating (n=193), Developing (n=180), Maturing (n=15)  
 Q20. How important are the following considerations when developing AI systems in your organisation? TOP 2 BOX; Q4. For each of the following statements please indicate the extent to which you agree/disagree: NET STRONGLY AGREE; Q21. Has your organisation done any of the following as part of its approach to the deployment of AI?; Q22. Does your organisation plan to do any of the following in the next 12 months as part of its approach to the deployment of AI?

\*Note: Caution, low base size, results are indicative only

# RESPONSIBLE AI PRACTICES UNDERTAKEN BY AI USERS

Among organisations who have deployed AI, most have only implemented a limited number of responsible AI practices. Even the more mature segments have only implemented an average of 4.3 practices out of a total of 15 that were shown to respondents.

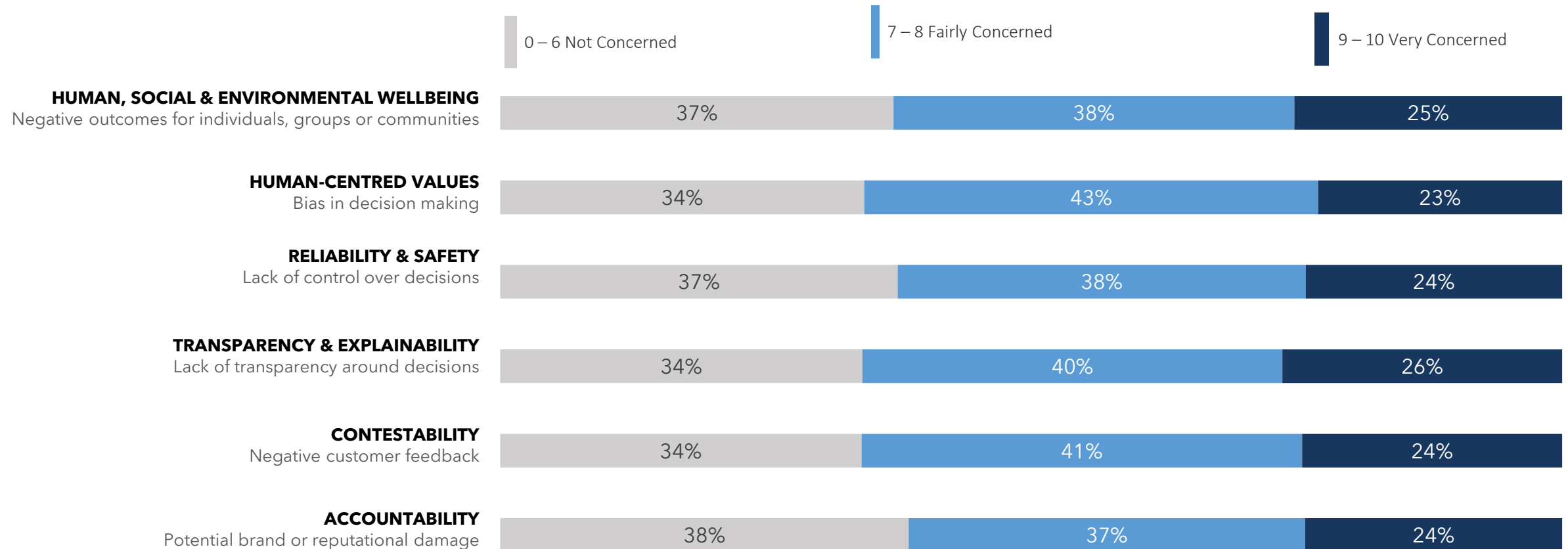


This may indicate lack of understanding about the potential risks and benefits of AI, a lack of resources or expertise to implement responsible AI practices, and a lack of incentives to do so.

# CONCERNS ABOUT ORGANISATIONAL IMPACTS

At an organisational level, there is a level of concern about a range of impacts, including the reputational risk of negative customer feedback and damage to the brand.

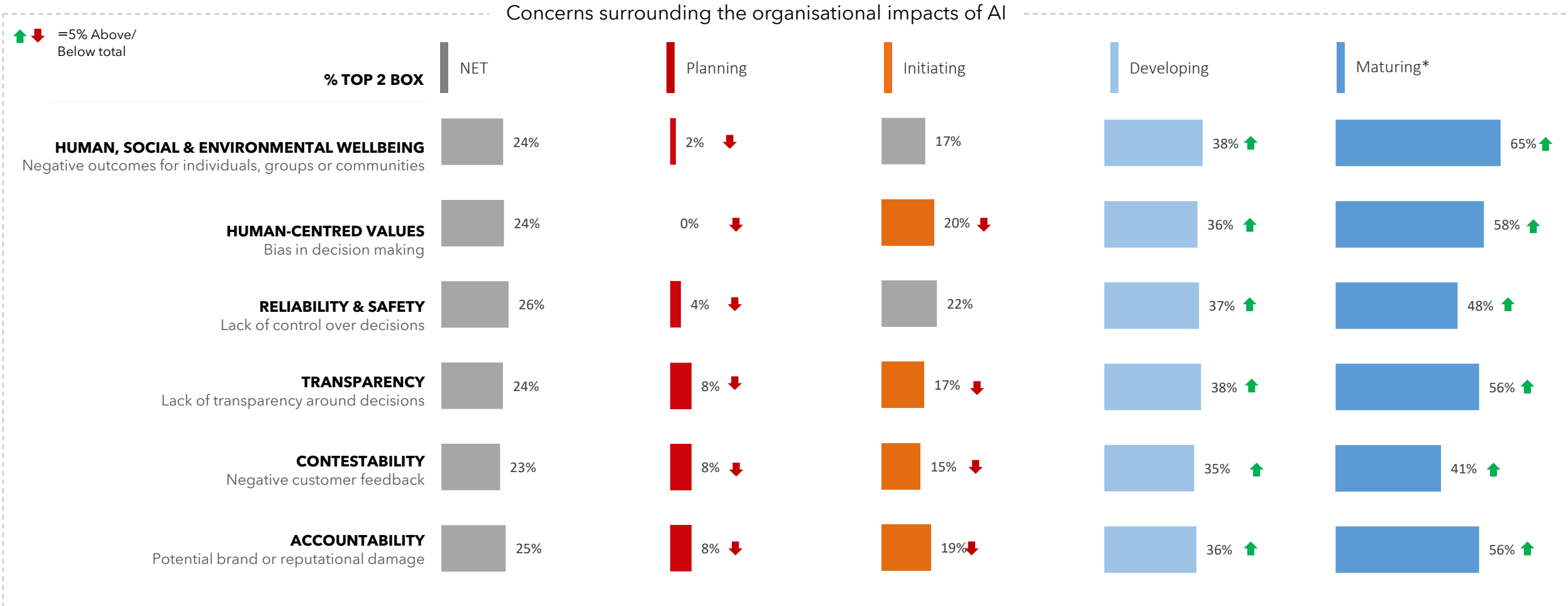
Concerns surrounding the organisational impacts of AI



Concern is lowest about potential bias in decision making from an organisation's AI systems, which, consistent with other data, suggests that principles and practices relating to human-centred values are less of a priority.

# CONCERNS ABOUT ORGANISATIONAL IMPACTS

The Maturing and Developing cohorts remain more concerned than the Planning and Initiating about a range of potential negative organisational impacts of AI systems.

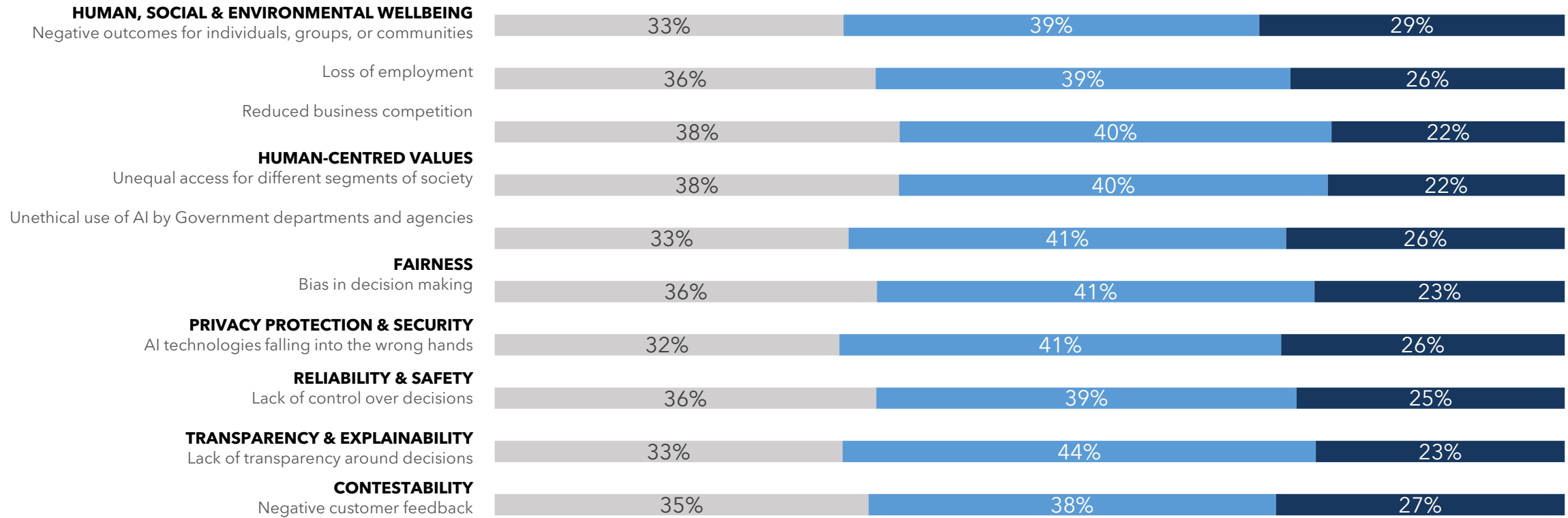
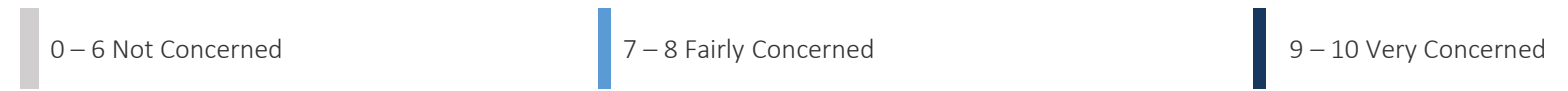


This suggests that as an organisation's approach to responsible AI matures, the likelihood of adverse events crystallising becomes more apparent, necessitating the adoption of risk mitigation practices.

# CONCERNS ABOUT SOCIETAL IMPACTS

There are also concerns at a societal level about the potential impacts of AI systems, including negative outcomes for individuals, groups and communities.

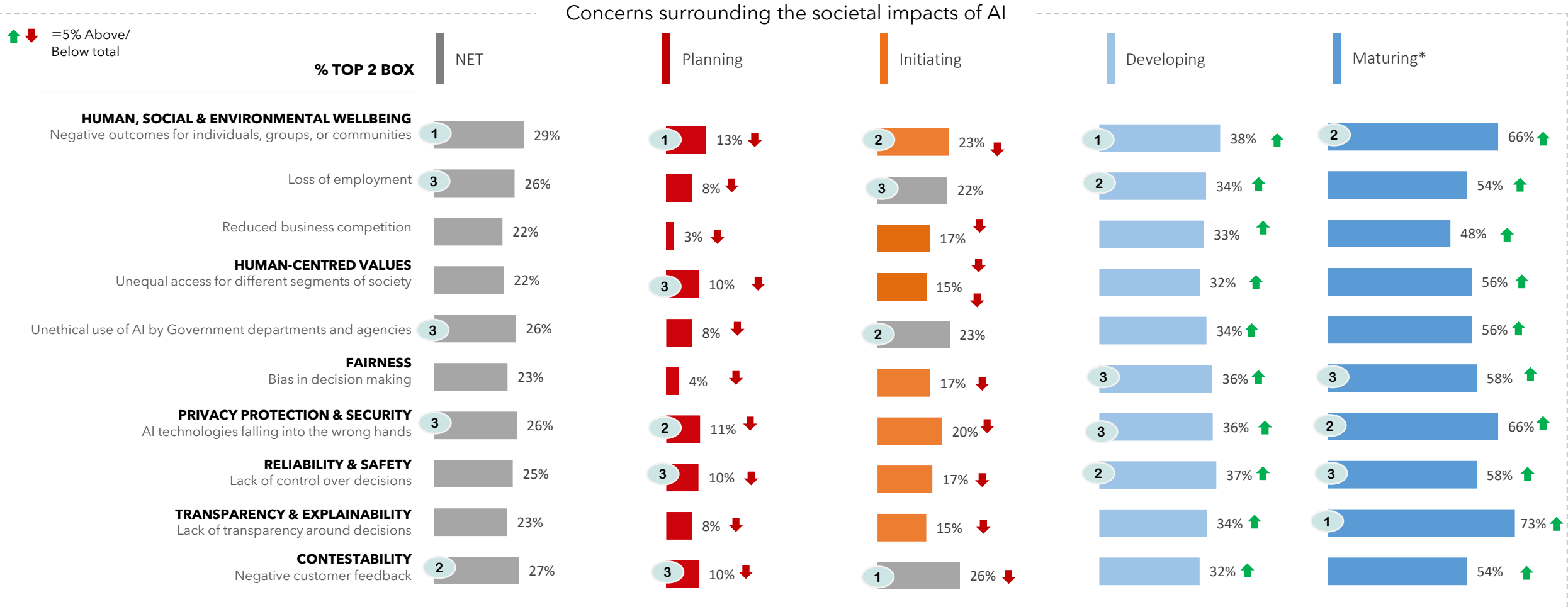
Concerns surrounding the organisational impacts of AI



There is less concern about the potential impact of reduced business competition and unequal access for different segments of Australian society.

# CONCERNS ABOUT SOCIETAL IMPACTS

The more mature cohorts are significantly more concerned than the Planning and Initiating about a range of potential negative impacts of AI systems on society.

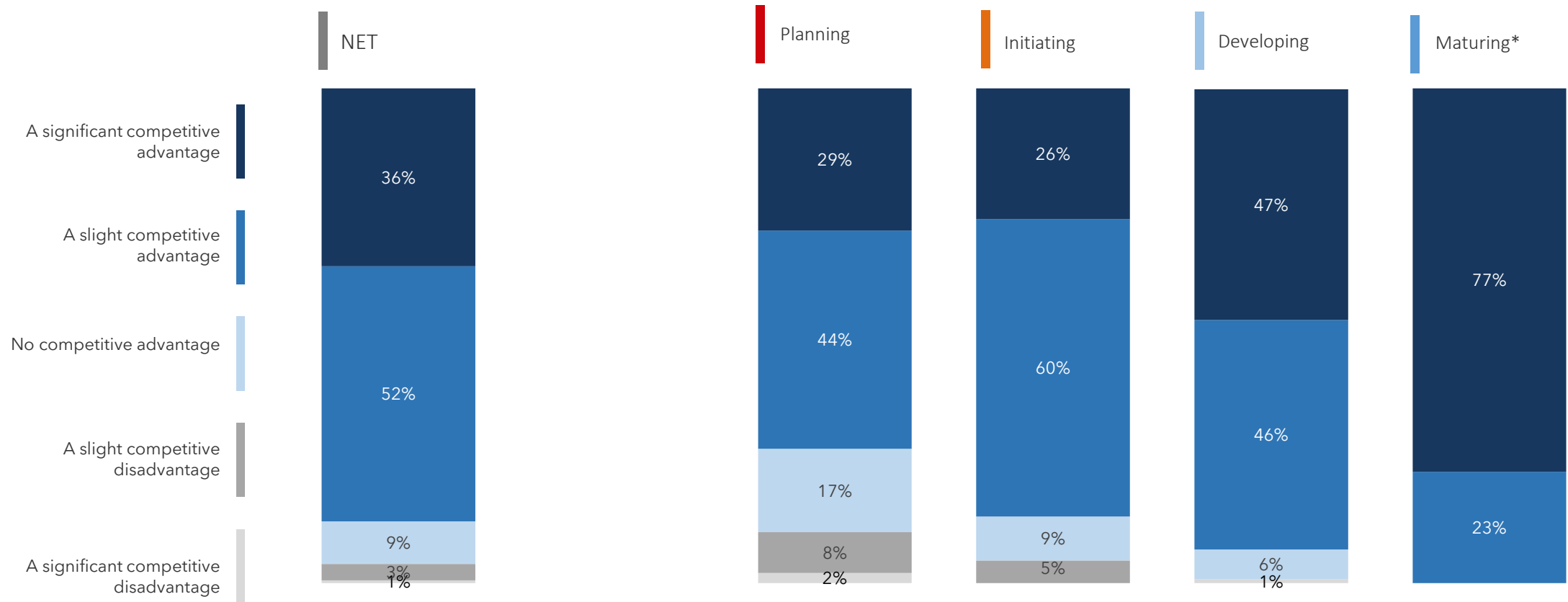


Again, this points to the need for strategies and practices to be implemented to reduce the impact and probability of these risks materialising.

# COMPETITIVE ADVANTAGE FROM RESPONSIBLE AI

As organisations move from the Initiating to Developing phase of maturity, they are more likely to gain a significant competitive advantage through taking a responsible approach to AI.

Competitive Advantage from Responsible AI



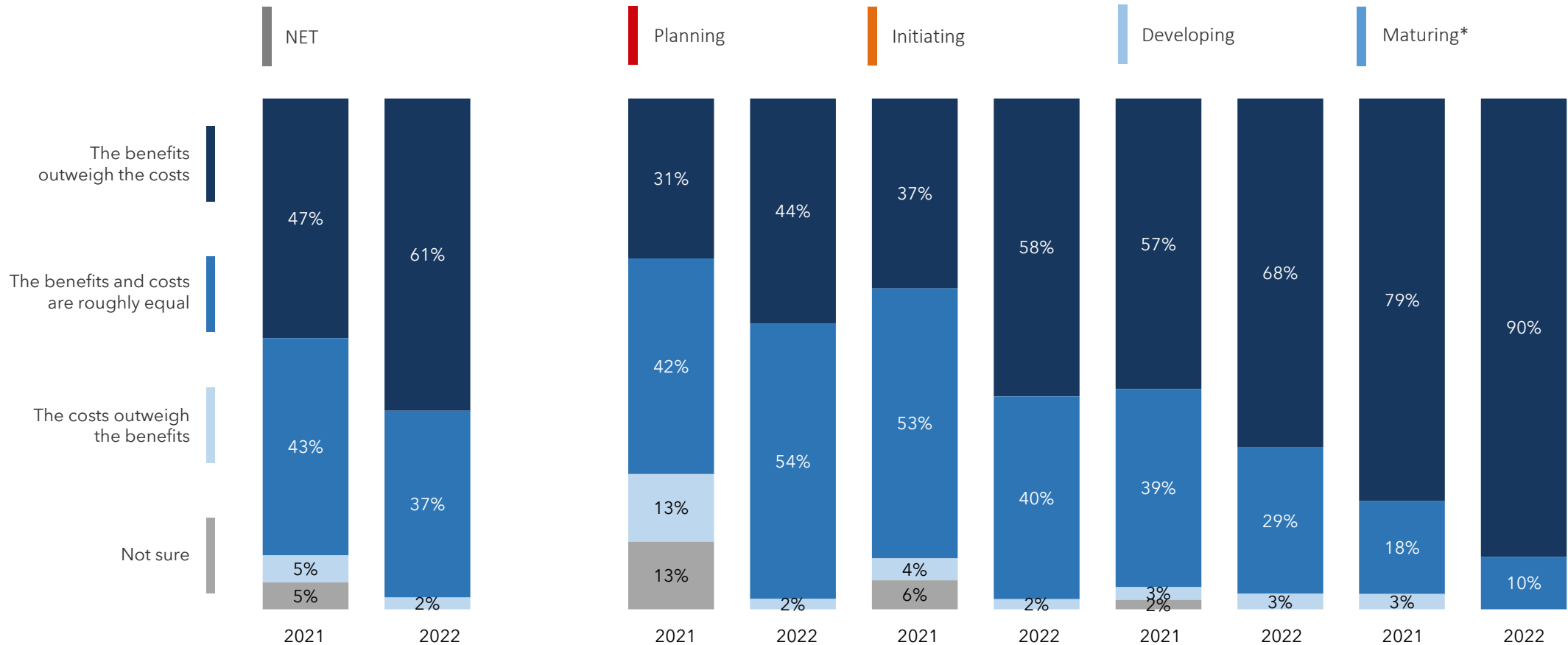
While organisations may be tempted to make some ethical sacrifices in order to expedite their AI projects and keep pace with competitors, the evidence shows that those that invest in a responsible AI approach believe this has provided a significant competitive advantage.



# OVERALL COST-BENEFIT OF RESPONSIBLE AI

Overall, more organisations now believe the benefits of taking a responsible approach to AI outweigh the costs, with this change occurring across all maturity cohorts, especially those in the Initiating phase.

Costs and Benefits of Responsible AI



Organisations may need resources and support to quantify the benefits of designing and building responsible AI systems in order to build the business case and obtain leadership support.

# CONTENTS



1. BACKGROUND
  2. THE RESPONSIBLE AI INDEX
  3. THE STATE OF AI IN AUSTRALIA
  4. AI ETHICS PRINCIPLES
  5. PRINCIPLES IN PRACTICE
  - 6. BRIDGING THE GAP**
- 

# SUMMARY OF STATE OF RESPONSIBLE AI MATURITY

TOPIC	OBSERVATION	IMPLICATION
Responsible AI Maturity	At an overall level, there has been little change since 2021 in the overall performance of Australian organisations in developing and implementing Responsible AI systems. Performance is higher for those with the CEO leading the AI strategy.	The development of Responsible AI systems represents a significant organisational challenge and requires leadership commitment to develop appropriate culture and governance processes.
AI Strategy	Compared with 2021, more organisations are taking an enterprise-wide approach for the development of AI which is tied to the wider business strategy across all divisions.	This helps with the setting of strategic goals and coordinating individuals within the organisation to promote Responsible AI in terms of governance, policy and incentives.
Principles	Encouragingly, awareness of Australia's AI Ethics principles has increased since 2021. There is also a high level of agreement with statements about how organisations have developed AI systems consistent with the intent of each principle	There is a continued opportunity to increase awareness of the AI Ethics Principles amongst the less mature groups to further increase industry engagement on the benefits of a responsible approach to AI.
Responsible AI Practices	There is a significant gap between perceptions of how AI systems have been designed and how they perform, and the actions that have been taken to ensure AI systems are developed responsibly.	Organisations need practical help and support to implement AI responsibly, including clear signposting to the types of resources which are available, so that an approach can be chosen which works best for the organisation.
Benefits of RAI	Organisations that are more mature in their deployment of Responsible AI, are likely to see significant gains in terms of competitive advantage, with the benefits outweighing the costs.	Organisations may be tempted to make some ethical sacrifices in order to expedite their AI projects and keep pace with competitors. However, the evidence indicates that there are significant returns to be gained from investing in a responsible approach to AI development, including increased competitiveness.

# BRIDGING THE RESPONSIBLE AI GAP

The AI Ethics Principles are the starting point for the responsible development and deployment of AI. However, the research shows organisations are struggling to translate good intentions into real world actions. Below are examples of how some organisations are working to bridge the responsible AI gap.

- 1. Assess impacts** - Understand the positive and negative impacts the system's actions will have on people so they can be prioritised and managed.
- 2. Mitigate unfair impacts** - Reduce the risk of the system introducing, perpetuating or amplifying societal inequalities
- 3. Conduct pilot studies** - Test the assumptions of the system at a limited scale to reduce exposure to unforeseen impacts.
- 4. Monitor and evaluate continuously** - Oversee performance against both business and ethical objectives to ensure the system is operating as intended.
- 5. Make appropriate disclosures** - Inform users of an AI's operation to build trust and empower them to make effective decisions.
- 6. Raise awareness in Responsible AI** - Ensure that individuals are equipped to make ethical decisions when designing and deploying AI systems.
- 7. Establish roles and responsibilities** - Be clear about who is accountable for different aspects of the AI system's operation and impacts.

For a more comprehensive description of how organisations can use tools and guidelines to connect the principles and practice of Responsible AI, see the forthcoming report *Connecting Principles and Practice: Implementing Responsible AI in Business* from [Gradient Institute](#) and the [National AI Centre](#) (hosted by CSIRO).



# THANK YOU

*For more information please contact:*

**Steve Nuttall**

*Director, Fifth Quadrant*

E: [snuttall@fifthquadrant.com.au](mailto:snuttall@fifthquadrant.com.au)

Ph: (+61 2) 9927 3306

