



AI: From Buzzwords to Boardrooms

Crafting Your Roadmap to Success

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Introduction

Welcome to "AI: From Buzzwords to Boardrooms - Crafting Your Roadmap to Success", an essential guide for organisations looking to harness the transformative power of artificial intelligence (AI). As AI continues to evolve, it presents both unprecedented opportunities and significant challenges for businesses across all sectors. This e-book is designed to help you understand, strategise, and implement AI in a way that aligns with your organisation's core objectives and strategic goals.

In the pages that follow, we explore practical steps and key considerations for crafting a successful AI roadmap. We begin by recognising the unique starting points of different organisations on their AI journeys, whether they are just beginning to explore AI or are already advanced in their implementation. From there, we delve into the specifics of aligning AI initiatives with your business strategy, identifying use cases, prioritising projects, and ensuring data readiness and infrastructure support.

We emphasise the importance of involving a wide range of stakeholders, from strategy and IT teams to senior leadership and operational staff, to foster a comprehensive, collaborative approach to AI adoption. Additionally, we highlight the critical role of ethical considerations, regulatory compliance, and continuous monitoring and evaluation in managing AI initiatives effectively.

Furthermore, we discuss the value of learning from industry insights and case studies, drawing inspiration from others' successes and cautionary tales to inform your AI strategy. This e-book also covers the need for a phased implementation approach, strategic resource allocation, and preparing for the operational demands of AI projects.

By following the guidance and best practices outlined in this e-book, your organisation can navigate the complexities of AI adoption with confidence, ensuring that AI not only drives innovation and efficiency but also aligns with your overarching strategic goals. Whether you are defining your AI roadmap or actively delivering AI projects, this e-book provides the tools and insights you need to succeed in the rapidly evolving AI landscape.

About the Authors



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Daniela Castro brings a unique blend of editorial expertise and technological acumen to this e-book. With a strong background in technology consulting and a passion for AI, Daniela played a crucial role in refining the content and ensuring its relevance and clarity. Her collaboration on this project has helped shape a comprehensive guide that is both informative and accessible, empowering organisations to make strategic decisions about AI adoption and implementation.



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Cathy Ford is a distinguished professional with extensive experience in technology consulting, specialising in AI and digital transformation. As a contributor to this e-book, Cathy brings her deep knowledge and practical insights to guide organisations in successfully adopting and implementing AI technologies. Her expertise in strategic planning and her ability to translate complex technical concepts into actionable business strategies make her an invaluable asset to this project. Cathy's collaborative approach and dedication to fostering innovation have helped numerous organisations navigate the challenges and opportunities presented by emerging technologies.



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Tim Healy is a seasoned technology consultant with a wealth of experience in guiding organisations through the complexities of digital transformation. As the principal author of this e-book, Tim leverages his extensive background in AI and strategic technology implementation to provide invaluable insights and practical advice. His expertise spans various industries, helping businesses innovate and stay competitive in an ever-evolving technological landscape.





Glossary of Terms

Algorithm: A set of rules or instructions given to an AI program to help it learn and make decisions. Algorithms are the foundation of AI and machine learning models.

Artificial Intelligence (AI): A branch of computer science that aims to create machines capable of intelligent behaviour, including machine learning, natural language processing, and robotics.

Bias in AI: The tendency of an AI system to produce results that are systematically prejudiced due to erroneous assumptions in the machine learning process. Bias can lead to unfair treatment of individuals or groups.

Business Continuity Planning (BCP): A strategy that outlines how an organisation will continue operating during an unplanned disruption in service. It includes the identification of essential functions, and the procedures for maintaining them.

Chatbot: An AI software program that simulates human conversation through voice commands or text chats, used often in customer service settings.

Cloud Computing: The delivery of different services through the Internet, including data storage, servers, databases, networking, and software. Cloud computing enables scalable and flexible AI infrastructure.

Compliance: Adherence to laws, regulations, guidelines, and specifications relevant to an organisation's business processes. In AI, compliance often involves data privacy laws such as GDPR.

Data Governance: The management of data availability, usability, integrity, and security in an organisation. It ensures that data is consistent and trustworthy.

Data Privacy: Ensuring that personal or sensitive information is collected, stored, and used in a way that protects the information from unauthorised access or disclosure.

Deep Learning: A subset of machine learning involving neural networks with three or more layers. These networks can model complex patterns in large datasets, useful in image and speech recognition.

Ethical AI: The practice of designing and using AI in a way that is fair, transparent, and accountable, ensuring that it does not cause harm and respects human rights and privacy.

Generative AI: A type of AI that can generate new content, such as text, images, or music, based on the data it has been trained on. Examples include ChatGPT and Gemini.

KPIs (Key Performance Indicators): A set of quantifiable measures used to gauge the performance of a business, project, or organisation in meeting objectives for performance.

Machine Learning (ML): A subset of AI that uses algorithms and statistical models to enable computers to improve their performance on a task through experience.

Natural Language Processing (NLP): A field of AI that focuses on the interaction between computers and humans through natural language. NLP enables machines to understand, interpret, and respond to human language.

Predictive Analytics: The use of data, statistical algorithms, and machine learning techniques to identify the likelihood of future outcomes based on historical data.

Robotic Process Automation (RPA): The use of software robots to automate highly repetitive and routine tasks traditionally performed by humans. RPA enhances operational efficiency and accuracy.

Token: In NLP, a token is a single instance of a sequence of characters in some particular document that are grouped together as a useful semantic unit for processing.



Are you managing AI risks to your advantage?

As the world enters the era of artificial intelligence (AI), organisations find themselves at a pivotal moment, reminiscent of the early days of the internet—a time filled with both vast potential and uncharted territory. This exciting landscape brings anxiety for senior leaders and board members as they navigate forward.

This moment calls for a fresh approach to risk management, questioning whether the past strategies for managing ICT risks are sufficient for AI-driven challenges and opportunities. The need for a new approach is especially evident given employees often has direct access to popular AI tools. This accessibility of AI may lead to scenarios where the ICT department is not consulted on the appropriate use of AI tools, thereby eliminating the opportunity to implement appropriate risk management measures. management to be implemented. Although the impact of AI varies across organisations and industries, it's crucial to ask: Are you managing AI risks to your advantage?



Key Resource:

The NIST AI Risk Management Framework (AI RMF) provides structured guidelines and best practices for responsibly managing AI risks. This framework helps organisations protect themselves, their clients, and employees from the adverse impacts of AI initiatives.

The urgent need for revised risk management approaches

The integration of ICT into every facet of organisational operations has steadily occurred since the mid-20th century. In parallel, many organisations have developed and applied robust risk management practices. This foundation often overlooks the nuanced risks and opportunities that AI introduces. It may well be that the existing risk lens remains effective for managing AI risk, but this should not be assumed. There's a growing recognition that current risk management methodologies may not fully encapsulate the dynamic nature of AI-driven challenges and opportunities, let alone the increasingly availability of AI to employees without the involvement of the ICT team.


It is incumbent upon organisations to critically evaluate and, where necessary, adapt their risk management frameworks to better align with the AI era. This reassessment is a strategic imperative to ensure competitiveness and resilience in the rapidly evolving ICT landscape.

It is also crucial to update company policies and procedures to keep up with generative AI advancements, revisiting vendor management and internal AI usage policies to ensure compliance with the latest ethical standards and privacy regulations.

Redefining risk appetite in the age of AI

Central to this recalibration is the concept of 'risk appetite'. In an environment where AI can both disrupt and enhance business models, understanding and articulating an organisation's willingness to engage with AI-related risks becomes crucial.

For organisations with an existing Risk Appetite Statement (RAS), a thorough review is necessary to ensure it reflects the current and anticipated impacts of AI. Organisations should carefully consider whether AI is categorised under the RAS categories of IT or Operational risk, or whether it better falls under the organisations' appetite for Strategic change. For organisations not employing risk appetite statements, the opportunity exists to establish foundational guidelines that inform the organisation of the type and amount of risk senior management is willing to accept in pursuit of AI opportunities.



This exercise extends beyond the confines of risk management departments, necessitating engagement from board members, senior executives, and cross-functional leaders. Together, they are responsible for balancing the pursuit of AI-driven innovation with the prudent management of associated risks.

Be mindful of emerging regulations such as the EU AI Act and Canada's upcoming Artificial Intelligence and Data Act (AIDA). These regulations mandate transparency and ethical AI usage, ensuring that AI implementations align with both legal and ethical standards.

Proactive steps for organisations to take

As organisations navigate the evolving AI landscape, they are urged to undertake several proactive measures:

Audit AI Integration and Use: Conducting a comprehensive audit of how AI is currently utilised across the organisation will likely be enlightening, with more varied use than anticipated. Understanding current and future planned AI use can illuminate risks, opportunities, and areas for improvement.

Engage with Regulators: While regulatory oversight varies between industries in Australia, engaging with regulators regarding AI is paramount. Understanding the perspectives and guidelines from bodies such as the Australian Securities and Investments Commission (ASIC) and the Office of the Australian Information Commissioner (OAIC) can guide compliance, governance, and strategic alignment. For instance, both ASIC and the Australian Prudential Regulation Authority (APRA) are looking more closely at AI within the financial services industry. Proactively communicating with regulators about AI initiatives will likely foster a conducive regulatory relationship. Given regulators themselves are grappling with AI and its challenges, don't be surprised if they proactively reach out to assess how your organisation is dealing with AI.


Convene Risk Workshops: Gather multidisciplinary teams to identify, assess, and strategise on AI risks. Such collaborative efforts can unearth insights and forge consensus on the way forward. Start with foundational questions about the adequacy of existing risk management practices in the context of AI. Is there an AI-specific risk register, or are AI risks integrated into the broader enterprise risk framework? Understanding the nature of AI risks, whether strategic or operational, is essential.

Organisations should adopt a proactive approach to risk management by conducting regular audits of AI integration, engaging with regulators, and fostering transparent communication about AI initiatives. Continuous monitoring and frequent risk workshops are essential to stay ahead of potential AI-related risks.

Foster Transparency and Communication: Developing a strategy for transparently communicating AI initiatives—both internally and externally—can bolster trust, collaboration, and regulatory compliance.

How resilient is your organisation

The resilience of an organisation is often its greatest asset. The ability to quickly adapt and recover from disruptions, be they natural disasters, prolonged outages, or cyber incidents, can mean the difference between continuity and catastrophe. However, true resilience extends beyond the mere existence of business continuity, disaster recovery, and cyber response plans. It requires a proactive approach to crisis management, involving robust and frequent testing



of these plans, and ensuring leadership is deeply involved and ready to act. In this dynamic landscape, the integration and understanding of AI and other emerging technologies also play a pivotal role, offering new tools for enhancing organisational resilience but also introducing new vulnerabilities that must be anticipated and managed within these plans.

It is assumed that your organisation already possesses well-documented and widely understood plans for managing crises, business continuity (BCP), disaster recovery (DR), and cyber events. If not, they should be developed as soon as possible. However, true resilience goes beyond the existence of plans, no matter how detailed or technical. This e-book explores enhancing organisational resilience by examining factors beyond initial planning, such as the critical importance of active testing, preparing for worst-case scenarios like concurrent events, addressing the potential unavailability of key personnel, vendors, and off-shore providers, and the integration of AI and other emerging technologies.

Incorporating AI into Business Continuity Planning (BCP) can enhance organisational resilience by providing scalable solutions like Robotic Process Automation (RPA) for rapid workforce extension during crises. However, it is equally important to plan for scenarios where AI systems may be compromised, ensuring contingencies are in place to maintain operational resilience.

By focusing on these areas, the aim is to provide insights into how organisations can not only prepare for disruptions but also apply the axiom to “hope for the best but plan for the worst.”

Active testing: The foundation of resilience


True resilience ultimately depends on robust and frequent testing of an organisation's crisis management, BCP, DR, and cyber response plans. In other words, learning from your mistakes. This is best done through planning and testing rather than during an actual event. Active testing goes beyond theoretical plans, putting the organisation under stress by simulating scenarios that closely mirror potential real-world events. Crises rarely occur in isolation or under ideal conditions, and active testing of your organisation's resilience needs to reflect this.

Your organisation should plan for increasingly complex testing of its resilience as it matures and learns from previous tests. Over time, additional stress points should be factored into the tests, potentially without forewarning participants. For example, in testing a disaster recovery scenario involving a major system outage, layering a major weather event (that potentially caused the outage) can introduce complexities such as limited staff availability, core business disruption, and supply chain issues. The availability of vendors and issues relating to offshore or outsourced resourcing are also useful scenarios to be factored into the tests. Such complexities test how quickly the organisation can pivot its plans as the event unfolds, ensuring that resilience plans are not just theoretically sound but practically viable under the most challenging conditions.

Incorporating these increasingly complex scenarios into active testing routines stress-tests the organisation's resilience and promotes a culture of continuous improvement and adaptability. It compels organisations to regularly review and update their crisis management strategies, ensuring that resilience plans remain dynamic and reflective of the current threat landscape. By applying an ever-increasing complexity to resilience testing, organisations stand prepared not just for isolated events but for more complex challenges the modern world will likely throw at it.

Synchronising crisis response mechanisms

As an organisation matures its resilience, it should move from testing individual plans to synchronised testing of multiple related plans. For example, during a real-life prolonged disaster recovery event, it is likely that after a certain amount of time the organisation's business continuity plan will be executed. Depending on public reaction, the organisation may also



need to execute its crisis management plan to manage external relations, and shareholder or regulator concerns. It is important that this linkage between cyber/DR, BCP, and crisis management is recognised in your organisation's resilience testing. The goal should be to execute these in unison to inject the complexity and chaos of real-life events into the testing. This level of testing maturity will likely expose weaknesses in the integration points between the plans that will not be uncovered through testing plans in isolation.

Synchronised testing allows for a comprehensive evaluation of the organisation's resilience in the face of the complex nature of disruptions it will likely encounter.

Navigating the unavailability of key resources

A critical aspect of resilience planning that often goes untested is the potential unavailability of key personnel, vendors, and offshore providers during a crisis. Organisations must devise strategies to mitigate the impact of such absences, which might involve cross-training staff, planning for and establishing alternative vendor relationships, and ensuring that offshore providers have their own robust BCP and DR plans in place. Crisis management, BCP, DR, and cyber response leads should be alternated from test to test to cross-skill and expose a wider group of staff to the process, ensuring preparedness in case they are called on to lead the response during a real-life event.


Leveraging AI and emerging technologies

While AI and other emerging technologies offer powerful tools for enhancing organisational resilience, they also introduce new vulnerabilities that need to be factored into your resilience planning and testing. For instance, as organisations embrace AI technologies such as robotic process automation (RPA), their reliance on an automated workforce increase, potentially without fully understanding the ramifications this may have on BCP. This could pose risks during a DR or cyber event if access to these systems is compromised. BCP plans should, for instance, recognise the percentage of the automated workforce by function so that planning can consider how much and by what means the workforce can be ramped up. Conversely, AI can significantly assist in resilience efforts, especially relating to BCP and cyber detection and prevention. In terms of BCP, for example, RPA "bots" can be quickly trained and provide an alternative, automated workforce in the event of major resource issues. Whether considering the positive or negative impacts of such technology, both should be factored into your organisation's resilience planning.

Generative AI in business: Data governance and ethical considerations

The advent of generative AI technologies has significantly altered the landscape of the modern workplace, introducing new capabilities and efficiencies previously unimagined. Reports from the U.S. indicate that approximately 50% of employees are already integrating tools like ChatGPT or Gemini into their daily tasks, with Australian figures on par or even surpassing this. Despite the increased usage, trust remains a pivotal issue, as underscored by the "Trust in Artificial Intelligence – A Global Study 2023" conducted by the University of Queensland and KPMG. This study, which surveyed over 17,000 participants across 17 countries, found that only 40% of Australian employees trust AI, highlighting a significant gap in comfort and confidence regarding AI's role in meeting management, regulatory expectations, and balancing risk versus reward. This hints at the likelihood that employees are using publicly available AI tools without fully understanding them, especially data governance and privacy implications.

Perhaps in recognition of this, there are a growing number of organisations restricting or forbidding the use of generative AI tools. Examples include Disney, Bank of America, and Samsung. Such organisations state that while they recognise the vast potential of AI, they want



to better understand how it is being used and how it can be controlled before permitting its widespread use. It is therefore not surprising that internet searches for “AI tools” have increased by 285% over the past 24 months (about 2 years) while searches for “Responsible AI” have increased by 4900% over the past 5 years. It is highly likely that both organisations and their employees share concerns surrounding increasing use and reliance on AI in the workplace.

A good example of the ethical and privacy concerns surrounding generative AI usage in corporate settings involves the handling of sensitive data. OpenAI’s Privacy Policy states that transaction history, along with comprehensive user data, can be stored by OpenAI and shared with OpenAI affiliates, yet the specifics of data retention periods and where data is stored remain ambiguous. The platform may issue privacy warnings and discourage directly inputting sensitive customer data if the question is asked within the chat, yet it simultaneously facilitates the uploading and processing of such data via the upload attachment feature without clear safeguards. This contradiction exemplifies the complex balance between leveraging AI’s benefits and ensuring the protection of sensitive information.


Directors and Senior Executives should actively engage with their organisation’s Privacy Officer, IT Department, Risk Manager, and other relevant stakeholders by asking the following set of starter questions regarding the use of AI within their organisations:

- **What data is being shared with AI?** Direct this question to your IT Department and Data Privacy Officer to understand the nature and sensitivity of the data being processed by AI tools. This includes evaluating whether AI has been used to support the creation of report content, what data was shared with the tools to produce the output, and the scrutiny of the supplied results. Using a simple example, has an advanced version of a commercially sensitive Board paper draft been provided to AI for re-wording and enhancement, and was there any redaction of commercial or customer information prior to sharing with the AI tool?
- **Are the AI tools used secure and private?** This question should be posed to your IT Security Team and Privacy Officer. Scrutinise the privacy policies of AI platforms to understand how data is stored, shared, and protected. If a Privacy Impact Assessment (PIA) has not yet been conducted by your organisation, request that one is performed urgently, and the results shared with the Board. The PIA should also seek to establish where the data is being stored and whether the organisation remains compliant with Federal data sovereignty laws and any regulatory requirements within your industry. Asking such questions may result in updates to your organisation’s Privacy Policy and practices.
- **What controls are in place, and are they sufficient?** Engage with your Risk Manager and the team responsible for your organisation’s Data Governance Framework. Assess the balance between harnessing AI’s full potential and implementing necessary guardrails to protect the organisation and its stakeholders. There is no magic formula, but it is fair to assume that either extreme end of the spectrum is not the place to be. The question is, therefore, what controls do we already have within the organisation’s Data Governance Framework, and whether or not these existing controls are sufficient to extend to the use of AI tools.
- **Can we trust AI output?** This is a critical question for your IT Department and those involved in data analysis and reporting. Organisations have well-established practices to screen, recruit, and train the best employees available to them. The use of AI as a supplementary or primary source of information used by employees is probably not subject to the same scrutiny. In the context of AI tools like ChatGPT, which are updated with information up to certain points in time (e.g., April 2023), how do we ensure the insights provided are accurate and relevant and not subject to potential bias on the part of the tool provider? As part of

policy consideration, when AI generates data and graphs, how critical is it to provide source citations for transparency and to guarantee the reliability of information that influences the organisation's decisions?

- **How do we ensure ethical use of AI?** Unless your organisation has an Ethics Officer, this question is best directed to the corporate governance or risk area. Confirm that guidelines and policies relating to the ethical use of AI tools are in place and align with the organisation's values and legal obligations. While industry-specific, this includes considerations relating to bias, fairness, accuracy of results, and transparency in AI-generated outputs such as providing support for decision making and price setting.
- **What training and policy assurance is occurring?** Direct this towards your Human Resources Department and those responsible for staff training and compliance. Establish what training and awareness initiatives have occurred to support staff AI usage. How often are assurance or audit activities conducted to ensure ongoing compliance of staff to ensure tools are used appropriately, in line with training and policies?
- **Are AI tools worth paying more for?** Another question for the IT team and senior managers controlling the purse strings. Will the organisation benefit from adopting the enterprise versions of tools such as ChatGPT and Gemini? If this has not been explored, it should be to see what inherent protections may be provided to support improved data governance and privacy that may not be provided in the popular free versions of the tools. For example, data encryption, separate storage of data, and adherence to privacy regulations such as GDPR are all available in user-pay models of both ChatGPT and Gemini.

Attribute	ChatGPT (Free Version)	ChatGPT Plus (Paid Version)	Enterprise Version
Data Encryption	In transit and at rest	In transit and at rest	In transit and at rest, with options for enhanced encryption (AES-256)
Data Isolation	Data may be mixed with other users	Data may be mixed with other users	Strong data isolation ensuring enterprise data is not mixed
Compliance Certifications	General compliance (e.g., GDPR)	General compliance (e.g., GDPR)	Tailored compliance with additional certifications (e.g., GDPR, HIPAA, SOC 2)
Anonymisation Techniques	Basic anonymisation	Basic anonymisation	Enhanced anonymisation and data handling options
User Data Control	Standard deletion requests	Standard deletion requests	Advanced data control, including deletion, access, and audit logs
Security Audits & Penetration Testing	Regular audits	Regular audits	Regular plus customized audits and penetration testing
API Security	Standard API security features	Standard API security features	Enhanced API security, including custom authentication and authorization options
Usage Limits	Limited usage, with potential caps during peak times	50 messages every three hours	Unlimited usage, no caps
Context Window	Smaller context window	Larger context window	Up to 128,000 tokens
Priority Access and Support	General access	Faster response times	Priority access to new features, dedicated customer support



Alternatively, enquire whether there is potential for the organisation to integrate AI tools directly into your organisation's application framework. Most AI tools provide integration capability so that you can query the tools from within your applications. This takes more investment of money and time to achieve but allows for greater control over how the tools are used as well as additional audit logging capabilities not provided within the tools directly. In both cases, if the organisation is serious about the use of the tools, then senior leadership has a potential role in promoting and funding the use of the most appropriate version of the tool.

The rise in AI usage underscores a pivotal moment for Directors and Senior Executives to critically evaluate how these technologies are employed within their organisations. Ensuring that AI tools enhance productivity and innovation while adhering to data privacy, security, and ethical norms is paramount.

As we venture deeper into the era of generative AI in business environments, the landscape is marked by both great potential and inherent challenges, particularly in the realms of data governance and customer privacy. It's clear that there isn't a one-size-fits-all set of questions to rely on to navigate these complexities. However, the act of questioning is indispensable. Engaging in a diligent line of enquiry about the integration, implications, and governance of AI technologies is crucial to ensure AI innovation co-exists in harmony with integrity and accountability. By fostering a culture of thoughtful interrogation, senior leadership can help businesses to not only leverage AI to its fullest potential but also ensure that they do so safely and in alignment with government and customer expectations.

Crafting Your Roadmap to Success with AI


In another part of this e-book, the analogy was drawn between AI and the emergence of the internet in the mid to late 1990s. AI, just like the Internet, represents unprecedented potential and challenges for organisations. Over the next 5 to 10 years, AI will transform how businesses operate, though predicting its exact impact is difficult given the rapid evolution of AI technology and responses from industries, regulators, and governments. However, it is already clear that AI is enabling organisations to innovate faster, streamline operations, and engage with customers in new, albeit potentially less personal ways. In this environment of rapid change, defining an AI journey is no small feat for organisations. It requires detailed and frequent strategic planning and a clear understanding of where you currently stand and where you wish to go. This section outlines practical steps and key considerations for crafting a successful AI roadmap that is highly aligned with your organisation's strategic goals.

Recognising your starting point on the AI journey

It is important to acknowledge that each organisation's AI journey has a different starting point. Some organisations are at the dip-the-toes-in-the-water stage, still largely coming to terms with what AI means and what it can do. Others are significantly more advanced, using AI to run their operations and help make decisions. Understanding how AI is currently used within your organisation is a critical first step for driving strategic and comprehensive AI adoption. Examples of the forms AI may take within organisations include:

- **Chatbots and Virtual Assistants:**

Customer service channels have been transformed by chatbots and virtual assistants, which offer 24/7 support and instant responses to customer queries. These AI-driven interfaces can handle everything from FAQs to assisting with bookings and purchases. Many organisations already embrace this kind of AI, and although not overly sophisticated, such technology plays an important role in optimising customer service availability.

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- **Generative AI Tools:** It is almost certain tools like ChatGPT and Gemini are being used within your organisation, although the full extent of use may not be known. The current hype around such tools is extreme, making them the most identifiable example of AI to the layperson. These applications are used for drafting documents, analysing datasets, generating code, and more, all at speeds no office worker can match.
 - **Robotic Process Automation (RPA):** RPA is widely adopted for automating routine, rule-based tasks such as data entry and complex transaction processing. By mimicking human actions within digital systems, RPA bots can enhance operational efficiency and accuracy.
 - **Specialised AI Applications:** Different industries are deploying specialised AI tools to address challenges unique to their sector. For example, within the insurance sector, AI-powered decision support systems are revolutionising how claims are processed, using machine learning to assess claims, analyse patterns, and flag potential fraud. While use is not yet endemic, and there are still regulatory and ethical challenges to overcome, specialised AI is an increasing area of interest for organisations, especially as industry-specific AI offerings emerge onto the market.
 - **Other AI Technologies:** Organisations may also be utilising additional AI technologies, such as machine vision for quality control in manufacturing settings, natural language processing (NLP) for analysing customer sentiment in marketing campaigns, or sophisticated machine learning models that offer strategic planning and decision-making support. It is important to note that some of these applications may not even be marketed as forms of AI, so the presence of this type of AI within organisations may not be evident. This highlights the need for a collaborative, cross-departmental effort to fully understand and identify existing AI capabilities.

Taking stock of the AI tools and technologies your organisation currently employs is a critical first step in developing an overarching AI strategy. This initial review not only highlights AI's extensive impact on your operations but also identifies potential areas for further innovation and value creation with AI. Moreover, it represents one of the key challenges in developing an AI strategy or roadmap—that is, your organisation is already on its AI journey before it has clearly decided on the direction it is heading and, to the best of its knowledge, what the destination is. When you factor in the pace at which AI is evolving, this realisation demands a strategic discussion on how the organisation can best try to stay in control of its AI journey to achieve a more strategic approach to AI adoption.



Crafting your roadmap to success with AI

Before diving into the specifics of an AI roadmap, it's essential to stress that the AI journey exists to support and enhance your organisation's core strategy. Unless you are OpenAI, Google, or a similar company selling AI products, your AI roadmap will be a journey of adding capability to your organisation to accelerate and achieve the organisation's strategic objectives. The development of an AI roadmap becomes a deliberate process of aligning AI capabilities with strategic priorities, ensuring that every step taken in AI adoption directly contributes to the organisation's overarching goals.

Here are some key elements that should be considered:

1. Define Strategic Objectives and Alignment

Ensure alignment between AI initiatives and business priorities. It's critical that AI projects are not pursued in isolation but are integrated into the broader business strategy, contributing to the organisation's key objectives. The AI roadmap should be seen as an important journey running in parallel to the organisation's strategic roadmap to ensure that AI capabilities are in place by the time they are needed to deliver the defined strategic outcomes.

2. Identify Use Cases and Prioritise Projects

Map out potential AI use cases. Based on the initial assessment of current AI usage and organisational needs, identify new areas where AI can add value. Consider both short-term wins and long-term transformative projects.

Prioritise projects based on impact and feasibility. Evaluate potential projects based on their expected value to the organisation, implementation complexity, and alignment with strategic goals.

3. Assess Data Readiness and Infrastructure Requirements

Evaluate the quality and availability of data. In its many forms, AI relies on clean, accurate data. Many organisations face data quality challenges that are already being addressed to meet privacy and regulatory requirements. Recognising your organisation's dependency on data cleansing initiatives within your AI roadmap will be important to ensure that AI capabilities are optimised and timely. Given data cleansing takes time and is not easily achieved, it represents a potential risk to successfully delivering your AI roadmap.

Determine infrastructure and technology needs. Identify the technological requirements for implementing AI solutions, including all elements of architecture (hardware, software, and cloud services). Consider both current capabilities and future needs.

4. Plan for Talent and Organisational Change

Identify skills and talent needs. Determine the expertise required to develop, implement, and maintain AI solutions. This may involve training existing staff, hiring new talent, or partnering with external experts.

Prepare for organisational change. Implementing AI will require changes to processes, roles, and culture. Your AI Roadmap should include the organisational change management initiatives required to support the successful adoption of AI.



5. Keep Business Continuity Front of Mind

When developing your AI Roadmap, it's crucial to factor in the implications for Business Continuity Planning (BCP). This ensures that AI initiatives align with and support your organisation's resilience strategies.

Consider AI as a vital component of your BCP. For example, Robotic Process Automation (RPA) can serve as a means of rapidly training and extending your workforce capacity, offering scalability to ramp up operations in times of resource constraint or operational need. In this sense, AI can be viewed as enabling operational resilience.

The flip side of this, equally important to factor into your AI Roadmap development, is that use of AI can also pose a risk to business continuity if inadequate redundancy and provisions for prolonged AI outages are not adequately catered for.

Either way, it is important to ensure that your AI roadmap calls out BCP planning and development to mitigate the risks and better support your organisation's resilience.

A detailed article covering business continuity, including AI threats and opportunities, can be found [here](#).

6. Establish Governance and Monitoring Mechanisms

Set up governance structures for AI initiatives. Define roles and responsibilities for AI project oversight, decision-making, and ethical considerations.

Implement monitoring and evaluation processes. Establish metrics and KPIs to measure the performance of AI projects against objectives. Regularly review and adjust projects based on performance data and evolving business needs.

Develop ethical guidelines for AI use. With the rapid adoption of AI technologies, there is an inherent risk that ethical considerations and regulatory compliance may not automatically be front of mind for employees engaging with AI. It's imperative, therefore, to proactively incorporate ethical guidelines, policies, and compliance measures into your AI Roadmap. This includes staying informed about existing and emerging regulations that are pertinent to your industry, ensuring that your roadmap is not only internally sound but externally compliant. It is essential to address and mitigate ethical risks associated with AI, such as biases in decision-making, privacy considerations, and lack of transparent usage. By establishing clear principles for responsible AI use and promoting widespread awareness within the organisation, you can foster an ethical AI culture that aligns with both your strategic objectives and societal values.



Identifying key stakeholders in shaping the AI roadmap

Your organisation's I.T team and/or key I.T outsource partners will play a key role in delivering the AI Roadmap. However, defining and delivering the roadmap are very different things. Given the previous point made about the AI Roadmap existing to help deliver strategic outcomes, a much wider audience must be involved in both the crafting and delivery of the AI Roadmap. A collaborative approach spanning the organisation will be required to ensure the roadmap is sound and delivered. Key stakeholders to consider include:

- **Strategy Team:** Since the AI Roadmap exists to support strategy, the Strategy Team should play a central role in defining the direction of the AI initiatives. Members of the strategy team need to acquire a deeper understanding of AI than they currently possess. This may require targeted training sessions to fully grasp AI's capabilities and limitations, and potentially introducing talent into the team either from outside the organisation or via transferring expertise from the I.T or innovation functions. This will be important to ensure Strategy can provide a significant voice in AI adoption to ensure it stays focused on delivering the organisation's objectives.
- **I.T and Innovation Teams:** While I.T's involvement is crucial for addressing the technical feasibility and implementation of AI solutions, their collaboration with the Strategy Team ensures that technological deployments are not just technically sound but also strategically focused. Upfront effort should be made to ensure that the I.T and Strategy teams are fully aligned and working towards a common goal.
- **Senior Leadership:** The commitment and involvement of the organisation's senior leadership and Board are essential for securing necessary resources, fostering an organisational culture receptive to innovation, and guiding the strategic direction of AI initiatives. Sponsorship for the AI Roadmap should be given to an appropriate senior leader to promote and support the roadmap's delivery.
- **Operational Teams:** Representatives from various operational areas impacted by or contributing to AI projects should be involved to provide insights into practical considerations, challenges, and opportunities from the frontline perspective.
- **Legal, Risk and Compliance Teams:** Given the ethical, privacy, and compliance issues surrounding AI, involvement of representatives from these teams is needed to ensure AI initiatives adhere to all relevant laws, regulatory, and ethical standards. These teams may also need to act as a conduit to communicate with regulators and industry bodies regarding AI and its usage within the organisation.
- **Human Resources:** It is sometimes easy to get caught up in the technology of AI and overlook the human element. To ensure this doesn't happen, involvement of HR is key to addressing the workforce implications of AI adoption, including training needs, potential changes in job roles, and the cultivation of an AI-ready culture.

By involving these key stakeholders in the AI roadmap development process, organisations can ensure that their AI strategies are not only technically viable but also closely aligned with organisational strategy. This collaborative approach ensures that AI initiatives are comprehensive, strategic, and equipped to deliver substantial value to the organisation.



Implementing the AI roadmap

While this e-book is more focused on defining the AI roadmap, there are important delivery considerations worth calling out, as recognising these factors when defining the roadmap will help drive success.

Phased Implementation Approach: With the rapid pace of AI development, it is highly likely that many revisions of the roadmap will occur along the journey. A phased approach to delivery, focusing on delivering smaller, discrete capabilities, is preferable to broadly scoped, prolonged initiatives that will likely change or become defunct in the short to medium term. Adopting a phased approach allows for flexibility, learning, and adjustment as AI continues to rapidly evolve.

Resource Allocation: The AI Roadmap should emphasise the importance of allocating the necessary resources, including budget, personnel, and technology, to support the successful implementation of prioritised AI projects.

Partnerships and Collaborations: An isolated approach to AI Roadmap development or implementation is less likely to succeed than one utilising partnerships with technology providers, regulators, and industry bodies.

Managing and evolving the AI roadmap

Monitoring and Evaluation: It is important to recognise the very high likelihood of changes to the AI Roadmap over time. This may be due to changes in organisational strategy but more likely due to the rapidly evolving nature of AI. Strategies for ongoing monitoring and evaluation of AI initiatives against organisational objectives and AI advancements should be factored into the AI Roadmap. This implies regular checkpoints need to be included within the roadmap to allow for re-evaluation of strategic priorities and AI capabilities.

Operational Demands: Emphasising the need for strategic resource allocation across the AI project lifecycle is crucial. As AI initiatives are delivered, the operational demands of managing these can divert resources and focus away from future AI initiatives, creating an “operational drag” that could potentially slow AI Roadmap delivery. To mitigate this, the AI Roadmap should plan for the resourcing of AI initiatives from start through to post-implementation support. One potential way to achieve this is to plan for dedicated teams for the ongoing operation of AI solutions. This ensures a steady focus on new developments in the roadmap while ensuring the performance of existing AI systems.

Learning and Adaptation: Stress the importance of fostering a culture of learning and adaptation, where insights from AI projects are used to inform future initiatives and strategy adjustments. These should be included as activities within the roadmap to ensure that lessons can be learned and applied to future initiatives.



Leveraging industry insights: The value of learning from others' AI successes

Whether you are defining or actively delivering your AI roadmap, there is value in regularly looking outside of the organisation for inspiration and guidance. While each company's AI journey is unique, the lessons learned from those who have successfully navigated similar paths can provide critical insights. As AI continues to evolve and organisations embrace it, there will be an increasing volume of ideas and cautionary tales available to distil into key learnings to factor into your organisation's AI Roadmap. Encouraging your strategy and implementation teams to regularly review case studies from within and outside of your industry can help identify proven strategies, realistic delivery timeframes and approaches, and methods of problem-solving you may otherwise not have considered. Integrating these learnings into your AI roadmap not only provides a broader perspective but also helps mitigate risks by leveraging the collective experience of the wider business community.

Quick guide

- Acknowledge the unique starting point of your organisation's AI journey, ranging from initial exploration to advanced implementation.
- Seek to understand the types of AI available to your organisation – from chatbots, virtual assistants, generative AI tools, RPA, through to specialised, industry-specific applications.
- Ensure the AI roadmap development is strategy-led, not IT-driven, to ensure alignment of AI initiatives to the organisation's broader strategic objectives.
- Ensure AI Roadmap initiatives align with and directly contribute to the organisation's overarching strategic goals.
- Involve key stakeholders across the organisation, including Strategy, IT, and HR teams, to ensure a comprehensive, collaborative approach to strategic AI adoption.
- Conduct a thorough review of current AI usage within your organisation as a critical first step in developing an AI strategy.
- Map out potential AI use cases and prioritise projects based on impact, feasibility, and strategic alignment.
- Assess data quality and infrastructure requirements to support AI implementation effectively.
- Involve Legal, Risk, and Compliance teams early in the AI journey to address potential risks, ensure regulatory compliance, and navigate ethical considerations effectively.
- Develop ethical guidelines for AI use, addressing biases, privacy, and transparency to foster an ethical AI culture.
- Set up governance structures and implement monitoring and evaluation processes to oversee AI initiatives effectively.
- Identify skills, talent needs, and organisational changes required to support AI adoption and develop an AI-ready culture.
- Prepare for frequent and significant changes of direction to your AI Roadmap as AI continues to rapidly evolve and provide new opportunities and challenges.
- Draw inspiration from industry success stories to inform your AI strategy and navigate the evolving landscape of AI adoption.



Conclusion

We have explored the transformative power of artificial intelligence (AI) and how it can be strategically integrated into your organisation to achieve core objectives and drive innovation. As AI continues to evolve, organisations must navigate both unprecedented opportunities and significant challenges.

- **Strategic alignment:**
AI initiatives must align with business priorities to ensure that AI projects are integrated into the broader business strategy. This alignment ensures that AI capabilities are developed in tandem with organisational goals, facilitating a seamless integration that enhances overall strategic outcomes.
- **Phased implementation:**
Adopting a phased approach to AI implementation allows for flexibility, learning, and adjustment. Delivering smaller, discrete capabilities enables organisations to adapt to the rapid pace of AI development and refine their strategies based on real-world feedback and evolving technology.
- **Comprehensive stakeholder involvement:**
Successful AI adoption requires the involvement of a broad range of stakeholders, including the Strategy Team, IT and Innovation Teams, Senior Leadership, Operational Teams, Legal, Risk and Compliance Teams, and Human Resources. This collaborative approach ensures that AI initiatives are comprehensive and strategically focused.
- **Data readiness and infrastructure:**
Evaluating the quality and availability of data is crucial for AI success. Clean, accurate data is the foundation of effective AI solutions. Additionally, identifying and addressing infrastructure needs, including hardware, software, and cloud services, is essential for supporting AI implementation.
- **Ethical considerations and compliance:**
Developing ethical guidelines for AI use is imperative. Organisations must address biases, privacy, and transparency to foster an ethical AI culture. Ensuring compliance with existing and emerging regulations helps mitigate risks and aligns AI initiatives with legal and ethical standards.
- **Learning from industry insights:**
Regularly reviewing case studies and industry insights provides valuable lessons from others' successes and challenges. Integrating these learnings into your AI roadmap can offer new strategies, realistic delivery timeframes, and innovative problem-solving methods.
- **Continuous monitoring and adaptation:**
Implementing monitoring and evaluation processes is vital for overseeing AI initiatives. Regular checkpoints and performance metrics help organisations stay aligned with their strategic goals and adapt to changes in technology and organisational priorities.
- **Resource allocation and organisational change:**
Allocating the necessary resources, including budget, personnel, and technology, is critical for AI success. Preparing for organisational changes, such as process adjustments and new roles, ensures a smooth transition and effective AI adoption.

By following these practical guidelines and insights, your organisation can navigate the complexities of AI adoption with confidence, ensuring that AI not only drives innovation and efficiency but also aligns with your overarching strategic goals. The journey from buzzwords to boardrooms requires thoughtful planning, continuous learning, and strategic execution. This e-book provides the tools and insights needed to embark on this transformative journey and achieve lasting success with AI.

References and further reading

Books

1. **"Artificial Intelligence: A Guide for Thinking Humans" by Melanie Mitchell** - This book provides a comprehensive overview of AI, explaining its capabilities and limitations in an accessible way.
2. **"Life 3.0: Being Human in the Age of Artificial Intelligence" by Max Tegmark** - A thought-provoking book that explores the impact of AI on the future of life on Earth.
3. **"Prediction Machines: The Simple Economics of Artificial Intelligence" by Ajay Agrawal, Joshua Gans, and Avi Goldfarb** - This book discusses how AI changes the cost structure of predictions and the implications for business and society.
4. **"The Fourth Industrial Revolution" by Klaus Schwab** - A book that explores the technological revolution and its impact on industries and societies.
5. **"AI Superpowers: China, Silicon Valley, and the New World Order" by Kai-Fu Lee** - An insightful look at the global AI race and its implications for the future.

Articles

6. **"The Malicious Use of Artificial Intelligence: Forecasting, Prevention, and Mitigation"** - A collaborative report by researchers from various institutions that discusses potential risks of AI and strategies to mitigate them. Available online: [arxiv.org](https://arxiv.org/abs/1802.07198)
7. **"Trust in Artificial Intelligence – A Global Study 2023" by the University of Queensland and KPMG** - This study provides insights into global trust levels in AI and its implications for businesses.
8. **"The Ethics of Artificial Intelligence" by Nick Bostrom and Eliezer Yudkowsky** - An article that explores the ethical considerations of AI development and deployment. Available online: nickbostrom.com
9. **"Artificial Intelligence and the End of Work" by Matthew Cole** - An article examining the impact of AI on employment and the future of work. Available online: [cambridge.org](https://cambridge.org/core)

Online resources

10. **OpenAI - openai.com** - A leading research institute and company that develops advanced AI models, including GPT-3.
11. **AI Ethics Guidelines Global Inventory - ai-ethics-guidelines.org** - A comprehensive collection of AI ethics guidelines from around the world.
12. **Kaggle - kaggle.com** - A platform for data science competitions and datasets, useful for practicing and learning machine learning and AI.
13. **Towards Data Science - towardsdatascience.com** - An online publication sharing concepts, ideas, and codes related to data science and AI.
14. **arXiv - arxiv.org** - A repository of electronic preprints (known as e-prints) approved for publication after moderation, covering areas including AI, machine learning, and data science.

Reports

15. **"The Future of Jobs Report 2020" by the World Economic Forum** - A report that provides insights into how AI and other technologies are transforming the job market. Available online: [weforum.org](https://www.weforum.org)
16. **"Artificial Intelligence and the Future of Work" by McKinsey & Company** - A report exploring the impact of AI on various industries and job roles. Available online: mckinsey.com
17. **"AI in Business: The State of Play and Emerging Trends" by Deloitte** - A report that discusses current AI applications in business and future trends. Available online: deloitte.com

By exploring these references and further reading materials, you can gain a deeper understanding of AI, its applications, ethical considerations, and the strategic implications for your organisation.

The AI journey - From exploration to implementation





AI Ethics and Compliance Checklist

By following this comprehensive checklist, your organisation can ensure that AI initiatives are ethically sound, transparent, and compliant with relevant regulations, fostering trust and accountability.

Data privacy and security

- **Data encryption:** Ensure all data, both in transit and at rest, is encrypted using industry-standard encryption methods.
- **Access controls:** Implement robust access controls to restrict data access to authorised personnel only.
- **Data anonymisation:** Use anonymisation techniques to protect sensitive information.
- **Data retention policies:** Establish and enforce clear data retention and deletion policies.

Bias and fairness

- **Bias identification:** Conduct regular audits to identify potential biases in AI models.
- **Bias mitigation strategies:** Implement strategies to mitigate identified biases, such as rebalancing training data and using fairness-aware algorithms.
- **Diverse data sets:** Ensure training data is representative and diverse to reduce bias.

Transparency and explainability

- **Model explainability:** Use techniques that make AI model decisions understandable to non-technical stakeholders.
- **Documentation:** Maintain thorough documentation of AI models, including data sources, model development processes, and decision logic.
- **User communication:** Clearly communicate how AI decisions are made to end-users and stakeholders.

Compliance with regulations and standards

- **GDPR compliance:** Ensure all AI practices comply with the General Data Protection Regulation (GDPR) requirements.
- **HIPAA compliance:** For healthcare-related AI applications, ensure compliance with the Health Insurance Portability and Accountability Act (HIPAA).

- **Other relevant regulations:** Stay updated and comply with other relevant regulations and industry standards.

Ethical guidelines development

- **Ethical principles:** Develop and formalise a set of ethical principles guiding AI use within the organisation.
- **Stakeholder input:** Involve a diverse group of stakeholders in developing ethical guidelines.
- **Ethical AI framework:** Create a framework to integrate ethical guidelines into AI development and deployment processes.

Employee training and awareness

- **Training programs:** Develop and implement comprehensive training programs on ethical AI practices.
- **Regular updates:** Provide ongoing training to keep employees updated on new regulations, standards, and ethical considerations.
- **Awareness campaigns:** Run internal awareness campaigns to promote ethical AI use.

Regular ethical reviews and audits

- **Ethical review board:** Establish an ethical review board to oversee AI projects and ensure they align with ethical guidelines.
- **Audit schedule:** Set a regular schedule for ethical audits of AI systems and processes.
- **Feedback mechanism:** Implement mechanisms for employees and stakeholders to report ethical concerns or violations.
- **Continuous improvement:** Use audit findings and feedback to continuously improve AI ethics and compliance practices.

Monitoring and reporting

- **Performance metrics:** Define and track key performance metrics related to AI ethics and compliance.
- **Regular reporting:** Provide regular reports on AI ethics and compliance to senior leadership and stakeholders.
- **Incident response:** Develop and implement a response plan for addressing ethical breaches or compliance issues.



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