

BETTER PRACTICE GUIDE

Automated Decision Making

March 2025

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Acknowledgement of Country

The Office of the Commonwealth Ombudsman acknowledges the Traditional Owners and Custodians of Country throughout Australia and acknowledges their continuing connection to land, waters and community. We pay our respects to the people, the cultures and the Elders past and present.



Introduction

If appropriately designed, automated systems can improve the quality and efficiency of government service delivery and provide business benefits such as improved consistency in decision-making and new service delivery options.

Technological advances have made it easier for agencies to make automated decisions. However, it is well recognised that automated systems have the potential to significantly impact the rights and privacy of individuals. Agencies need to find a balance between innovation and ensuring automated systems are used only where appropriate.

The key message for agencies is that the customer must be at the centre of our service delivery.

Automated system design needs to recognise that at the end of a process or decision is a person who can be affected, positively or negatively. The same community expectations of respectful treatment and fairness apply to automated systems as they do when a decision is being made manually.

The structure of this guide reflects the areas that require particular care when developing and managing automated systems including:

- Guiding principles for assessing the suitability of automated systems.
- Ensuring compliance with administrative law requirements.
- Ensuring the design of an automated system complies with privacy requirements.
- Establishing appropriate governance of automated systems projects.
- Developing quality assurance processes to maintain continued accuracy.
- Ensuring the transparency and accountability of the system and its accompanying processes.



This guide is intended to be a practical tool for agencies and includes a checklist designed to assist managers and project officers during the design and implementation of new automated systems, and with ongoing assurance processes once a system is operational.

The principles in the guide apply whether an agency is building an automated system in-house or has contracted with an external provider to build the system. The use of external providers does not relieve agencies of the considerations identified in the guide or the risks that need to be managed. However, where external providers are used, the agency will also need to effectively manage the contract with the external provider.



Acknowledgements

This guide was originally published in February 2007 by a cross agency Working Group, building on the Administrative Review Council (ARC) Report No. 46 to the Attorney-General entitled Automated Assistance in Administrative Decision-making.

The ARC Report contained 27 best practice principles for ensuring that automated assistance in decision-making is consistent with administrative law values.

This guide, updated in 2025 by the Commonwealth Ombudsman, the Office of the Australian Information Commissioner and the Attorney-General's Department, remains focused on practical guidance for agencies aimed to ensure compliance with administrative law and privacy principles, and best practice administration.

It draws on the experience of our agencies in overseeing the rollout of digital programs and includes references to the complementary resources that have been developed since 2007. Other Commonwealth departments and agencies provided comments on the updated guide, and we thank them for their assistance.

Any feedback on how the guide can be improved is welcome.



What is an automated system?

Automated systems range from traditional rules-based systems (for example a system which calculates a rate of payment in accordance with a formula set out in legislation) through to more specialised systems which use automated tools to predict and deliberate, including through the use of machine learning.

The term automated system is used in this guide to describe a computer system that automates part or all of an administrative decision-making process. Automated systems can be used in different ways in administrative decision-making processes. For example:

- They can make a decision.
- They can recommend a decision to a decision-maker.
- They may include decision-support systems, such as commentary about relevant legislation, case law and policy, for the decision-maker at relevant points in the decision-making process.
- They can provide summaries or preliminary assessments for individuals or internal decision-makers.
- They can automate aspects of the fact-finding process which may influence subsequent decisions, for example by applying data:
 - from other sources (e.g. data matching information)
 - directly entered or uploaded to the system by an individual.



Guiding principles for automated systems

Automated systems must comply with administrative law principles of legality, fairness, rationality and transparency. They must also comply with privacy requirements and human rights obligations. As a matter of good public administration, they should be efficient, accessible, accurate and consider the needs of any vulnerable and non-digital ready users.

The legal frameworks of administrative law, privacy and human rights will assist agencies in designing automated systems to ensure that key risks in automation are avoided, such as algorithmic bias, inaccurate (or less accurate) decisions being produced by an automated system and unclear reasons for decisions.

Administrative law, privacy requirements and human rights obligations should be integrated into the design and review of an automated system, through appropriate planning and assessment.

Big data analytics AI and machine learning have become increasingly utilised features of automated systems. Agencies must be mindful of the international standards relating to the use of AI. In May 2019, the Australia Government signed up to the Organisation for Economic Co-operation and Development Principles on Artificial Intelligence (**the OECD AI principles**).¹ The OECD Principles were adopted in 2019 and updated in May 2024 to consider new technological and policy developments, ensuring they remain robust and fit for purpose. The OECD defines an AI system as a machine-based system that, for explicit or implicit objectives, infers, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments. Different AI systems vary in their levels of autonomy and adaptiveness after deployment.

¹ Organisation for Economic Co-operation and Development 'Recommendation of the Council on Artificial Intelligence' OECD/Legal/0449 adopted on 22 May 2019, amended on 3 May 2024, accessed at <https://legalinstruments.oecd.org/en/instruments/OECD-LEGAL-0449>



In summary, the OECD AI principles state that:

1. AI should benefit people and the planet by invigorating inclusive growth, well-being, sustainable development and environmental sustainability.
2. AI systems should be designed in a way that respects the rule of law, human rights, democratic values and diversity, and they should include appropriate safeguards – for example, enabling human intervention where necessary – to ensure a fair and just society.
3. There should be transparency and responsible disclosure around AI systems to ensure that people understand when they are engaging with them and can challenge outcomes.
4. AI systems must function in a robust, secure and safe way throughout their lifetimes, and potential risks should be continually assessed and managed.
5. Organisations and individuals developing, deploying or operating AI systems should be held accountable for their proper functioning in line with the above principles.

In 2019, the Department of Industry, Science and Resources released eight AI Ethics Principles,² as part of a broader AI Ethics framework. In summary the eight AI Ethics Principles state:

1. Human, social and environmental wellbeing

Throughout their lifecycle, AI systems should benefit individuals, society and the environment.

2. Human-centred values

Throughout their lifecycle, AI systems should respect human rights, diversity, and the autonomy of individuals.

3. Fairness

Throughout their lifecycle, AI systems should be inclusive and accessible, and

² Department of Industry, Science and Resources, Australia's AI Ethics Principles, accessed at [Australia's AI Ethics Principles](#)



should not involve or result in unfair discrimination against individuals, communities or groups.

4. Privacy protection and security

Throughout their lifecycle, AI systems should respect and uphold privacy rights and data protection, and ensure the security of data.

5. Reliability and safety

Throughout their lifecycle, AI systems should reliably operate in accordance with their intended purpose.

6. Transparency and explainability

There should be transparency and responsible disclosure so people can understand when they are being significantly impacted by AI and can find out when an AI system is engaging with them.

7. Contestability

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 outcomes of the AI system.

8. Accountability

People 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.

The principles can be used throughout the lifecycle of AI and automated systems to help achieve safer, more reliable and fairer outcomes, reduce the risk of negative impact on those affected by AI applications, and practice the highest ethical standards when developing and deploying AI.

The themes of these principles are discussed at different points throughout this guide as key features of automated systems.



On 5 September 2024 the Australian Government released a consultation paper for introducing mandatory guardrails for AI in high-risk settings³. The proposed mandatory guardrails are preventative measures that would require developers and deployers of high-risk AI to take specific steps across the AI lifecycle. They have been developed with an emphasis on testing, transparency and accountability, consistent with developments in other jurisdictions.

Feedback received on the consultation paper will inform the Government's regulatory response to help mitigate the potential risks of AI and increase public trust and confidence in its development and use.

The first version of the Voluntary AI Safety Standard was also released on 5 September 2024⁴. The Standard provides practical guidance to support businesses develop and deploy AI safely and is consistent with the proposed mandatory guardrails.

³ Proposals Paper for introducing mandatory guardrails for AI in high-risk settings available at: <https://consult.industry.gov.au/ai-mandatory-guardrails>

⁴ Voluntary AI Safety Standard available at: <https://www.industry.gov.au/publications/voluntary-ai-safety-standard>



Is an automated system suitable?

Automation of any administrative action is not appropriate where it would:

- contravene administrative law requirements of legality, fairness, rationality and transparency
- contravene privacy, data security or other legal requirements (including human rights obligations)
- compromise accuracy in decision-making
- significantly undermine public confidence in government administration.

This guide sets out some of the considerations when assessing the suitability of an automated system. Agencies should consider what steps they need to take in determining the suitability of an automated system, depending on the possible impact of the decisions to be made by or with the assistance of the automated system. For example, decisions that could have a significantly detrimental impact on individuals will require more scrutiny and a pre-determined plan for remediation of errors compared to a decision with short term impact that is more easily reversible.

The following checklist summarises some of the key considerations for automation of administrative action (including non-discretionary decision making). A more detailed checklist is at Appendix A.

- Assess whether the system meets each of the AI Ethics Principles.
- Assess whether the system will uphold the administrative law values of legality and fairness:
- Map whether the decision-making path involves the exercise of judgement or discretion and seek legal advice to determine whether automating those decisions would be lawful and appropriate.
- Identify the legislative authority for the action or decision and for automating the action or decision.



- Reflecting that automating administrative actions is not purely an IT project, engage a multidisciplinary team to provide advice in relation to any decision to automate administrative actions and the development and implementation of automated systems; such teams should comprise:
 - architecture, data and other IT experts
 - legal experts who can provide advice about compliance with administrative law, human rights and privacy law obligations
 - policy and legal experts who can advise whether an automated system is consistent with the obligations and intent of the enabling legislation
 - program managers and service delivery experts with an understanding of best practice administration and the needs of the individuals who access their program or use their services.

- Undertake a risk assessment.
- Undertake a Privacy Impact Assessment.
- Seek assurance from any contractors that legislative requirements and best practice principles have been adhered to.
- Identify whether notice should be provided to an affected individual before a decision is made.
- Ensure mechanisms exist or can readily be established in the event of errors to identify and assess the scale and impact of the errors made by automated systems and proactively remediate the errors in a timely manner.
- Design and deliver according to the Digital Transformation Agency's Digital Experience Policy.⁵

⁵ [Digital Experience Policy](#)



- Undertake testing and verification of rules to ensure decisions are legal, accurate, fair and consistent.
- Undertake user testing of the system to ensure that the automated system and supporting channels are accessible and inclusive of people regardless of ability and environment.
- Assess and deliver training needs for staff in using the system.
- Ensure decisions can be easily and accurately documented and explained to an individual or external oversight body, court or tribunal.
- Provide publicly available information about the system and the administrative actions that have been automated including through a transparency statement.
- Ensure there are avenues of review for decisions made.
- Establish a sustainable and ongoing monitoring and review cycle to ensure decisions are legal, accurate, fair and consistent.



Administrative law and automated systems

Legislative authority for automation

It is possible for an automated system to make decisions by using pre-programmed decision-making criteria without the use of human judgement at the point of decision.

The construction of such an authorisation should nominate a position or title of a person with ultimate responsibility for the decision, such as the Secretary of the relevant department.

Agencies must ensure automated systems are designed so the system complies with the legislative authority for the relevant decision as well as the authority to automate the decision.

What is discretion?

Policymakers prescribe functions as discretionary to ensure agencies can provide tailored outcomes for individuals which factor in their unique circumstances. For example, discretion may exist in statutory provisions which:

- provide the decision-maker with a range of options to choose between
- include words such as 'the decision-maker may' or 'the Secretary may'
- require the decision-maker to exercise broad judgment where a statutory standard is to be applied, for instance, that the person is a 'fit and proper person' or concerning the 'public interest'
- require the decision-maker to consider whether they have reached a 'state of satisfaction' that any legislative pre-conditions have been met before a decision is made.



Discretionary decisions are not simply determined by whether particular facts exist before the decision-maker, because it is for the decision-maker to decide what weight to attach to the relevant factors and circumstances leading to the decision.

Discretion and automated systems

In 2004, the Administrative Review Council developed best practice principles for automated assistance in administrative decision-making. The Council was of the view that automated systems that make decisions, as opposed to helping a decision-maker make a decision, are generally only suitable for decisions involving non-discretionary elements.⁶ This is because there is a risk that automating complex ideas such as discretion could very easily escalate into the improper and invalid exercise of power through the fettering of the discretion of the decision-maker, production of unreasonable or irrational outcomes and the incorrect treatment of relevant and irrelevant considerations.

Automation of decisions is an evolving area, and there is not yet clear and definitive guidance from the courts about whether it is necessary for all discretions to be exercised personally by a decision-maker. In view of this uncertainty, and to ensure computer systems uphold administrative law principles, agencies should avoid automating discretions until they have sought independent external legal advice.

Supporting decision-makers

When properly designed and modelled, automated systems can effectively and efficiently support the exercise of decision-making discretion and judgement, including for example by:

- only permitting the use of human discretion and judgement where it is relevant
- outlining and/or breaking down the factors decision-makers should consider when making their judgement

⁶ Administrative Review Council, [Automated Assistance in Administrative Decision Making, Report 46 \(2004\)](#).

- providing links to relevant support materials and guides to help inform the human decision-maker
- requiring that decision-makers clearly state and record reasons for decisions, as a statement of reasons or other official (and auditable) output.

Managing risks associated with discretions

Agencies must ensure that the legality and fairness of discretionary administrative decisions are preserved when automating a decision-making process or any part of one.

This means close and ongoing liaison with administrative law experts is critical where decisions are being considered for automation. This includes seeking expert external independent legal advice where necessary.



Privacy

Where privacy risks are anticipated, they can be adequately managed as part of the automated system's design.

Agencies developing or redeveloping automated systems that involve the collection, use or storage of personal information should consider how the design of the system (and its business processes) will protect the privacy of an individual's personal information. As a general rule, when designing business or workflow rules for automated systems, agencies should look for and choose the least privacy-invasive method that also meets their business needs.

Agencies should always refer to the *Privacy Act 1988* (Cth) (**Privacy Act**) for a comprehensive understanding of their privacy obligations.

Under the [Privacy \(Australian Government Agencies – Governance\) APP Code 2017](#) all agencies subject to the Privacy Act must undertake a written Privacy Impact Assessment (**PIA**)⁷ for all 'high privacy risk' projects or initiatives that involve new or changed ways of handling personal information. This will likely include automated decision-making projects which utilise personal information handled by agencies.

Privacy by design⁸ and PIAs should form part of an agency's regular risk management and planning processes when an entity is developing or reviewing a project that uses automated decision-making.

Agencies should refer to the Office of the Australian Information Commissioner's (**OAIC**) website at oaic.gov.au for more information and guidance.

⁷ A PIA is a systematic assessment of a project that identifies the impacts that the project might have on the privacy of individuals, and sets out recommendations for managing, minimising, or eliminating that impact.

⁸ Privacy-by-design is a holistic approach where privacy is integrated and embedded in an agency's culture, practices and processes, systems and initiatives from the design stage onwards. This includes taking a risk management approach to identifying privacy risks and mitigating those risks.



The Privacy Act 1988 (Cth)

The Privacy Act contains 13 Australian Privacy Principles (**APPs**) which apply to some private sector organisations, as well as most Australian Government agencies.

The APPs govern the standards, rights and obligations around:

- the collection, use and disclosure of personal information
- an organisation or agency's governance and accountability
- integrity and correction of personal information
- the rights of individuals to access their personal information.

The APPs are principles-based law. While the APPs are not prescriptive, each agency needs to consider how the principles apply to its own situation. A breach of an APP is an 'interference with the privacy of an individual' and can lead to regulatory action and penalties.

Agencies should also consult the OAIC's APP guidelines, which outline the mandatory requirements of the APPs, how the OAIC will interpret the APPs, and matters the OAIC may take into account when exercising functions and powers under the Privacy Act. Where an automated decision-making project involves the use of AI technology, agencies should also refer to the OAIC's guidance on [privacy and the use of commercially available AI products](#); and guidance on [privacy and developing and training generative AI models](#). Although the guidance is directed at organisations, many of the privacy risks and obligations discussed will also apply to agencies.

If agencies use contractors as part of their automated decision-making projects they will also need to comply with s 95B of the Privacy Act, which requires agencies to take contractual measures to ensure that a contracted service provider does not do an act, or engage in a practice, that would breach an APP if done by the agency.



What is personal information?

'Personal information'⁹ includes a broad range of information, or an opinion, that could identify an individual. What is personal information will vary, depending on whether the person can be identified or is reasonably identifiable in the circumstances.¹⁰ For example, personal information may include:

- an individual's name, signature, address, phone number or date of birth
- sensitive information (discussed below)
- credit information
- photographs
- internet protocol (IP) addresses.

'Sensitive information', which generally has a higher level of privacy protection, is personal information that includes information or an opinion about an individual's:

- racial or ethnic origin
- political opinions or associations
- religious or philosophical beliefs
- trade union membership or associations
- sexual orientation or practices
- criminal record
- health or genetic information
- biometric information.

⁹ See subsection 6(1) of the Privacy Act for definitions of 'personal information' and 'sensitive information'.

¹⁰ For more information refer to OAIC's 'what is personal information?' guidance, available at [What is personal information? | OAIC](#)



When conducting automated decision-making, agencies should remember that personal information includes opinions or inferences drawn about people from other data, whether or not these are accurate. This is especially pertinent when automated decision-making is informed by sophisticated analytics or algorithms, involving AI and machine learning.

Australian Privacy Principles and automated decision-making

The following part of the guidance takes you through a selection of APPs that are particularly relevant to automated decision-making and outlines the factors to consider when undertaking any projects involving automated decision-making.

See the OAIC's Australian Privacy Principles guidelines¹¹ for further detail on the APPs.

Be open and transparent (APP 1)

The objective of APP 1 is to ensure agencies manage personal information in an open and transparent way. By complying with this APP your agency will be establishing a culture and set of processes that will assist you in complying with all the other APPs, right from the start.

APP 1 does this by requiring agencies to take reasonable steps to establish and maintain internal practices, procedures and systems that ensure compliance with the APPs (APP 1.2) and, by requiring agencies to have a clearly expressed and up to date APP Privacy Policy describing how it manages personal information (required by APP 1.3).

The Privacy and Other Legislation Amendment Act 2024 (Cth) inserted APPs 1.7 – 1.9 to increase transparency about substantially automated decisions which significantly affect individuals' rights or interests. Entities will be required to include information in their privacy policy about the kinds of decisions and kinds of personal information used

¹¹ [Australian Privacy Principles guidelines | OAIC](#)



in these decisions. These requirements will commence on 10 December 2026 (being 24 months after the Act received Royal Assent).

Australian Government agencies should also be aware that they also have specific obligations under APP 1.2 as set out in the [Privacy \(Australian Government Agencies – Governance\) APP Code 2017 \(Privacy Code\)](#). Guidance on the Privacy Code is available on the [OAIC’s website](#).

The complexity of automated decision-making projects can mean that the processing behind them is opaque to the individuals whose data is being used. It may not be apparent to them their data is being collected, or how. Despite the challenges, with planning and foresight, transparency and good privacy governance in relation to automated decision-making can be achieved. Being open and transparent about how your agency will handle personal information will help to ensure that you have a culture that respects and protects personal information. It also plays a key role in building public and consumer trust, improving outcomes from automated decision-making, and encouraging innovation.

Collect only what is reasonably necessary (APP 3)

APP 3 outlines when personal information, including sensitive information, may be solicited and collected by agencies. It places obligations on agencies to:

- collect personal information only where it is reasonably necessary for, or directly related to, the agency’s functions or activities
- collect information only by legal and fair means
- collect information directly from the individual, unless it is unreasonable or impractical (or another exception applies)
- collect sensitive information only where:
 - the collection of the sensitive information is reasonably necessary for or directly related to one or more of the agency’s functions or activities
 - the individual concerned consents to the collection.

Taken together, the requirements in APP 3 seek to strike a balance between the interests of automated decision-making projects and the privacy of individuals.



Personal information collected by an agency may generally be used or disclosed only for the primary (original) purpose for which it was collected, unless the individual consents or another exception applies (APP 6, discussed further below).

This means the way personal information is collected, and the notice given to the individual concerned, is key when conducting automated decision-making, as it will in part determine the scope of how the information can be used (APP 5, discussed further below).

More information about collecting personal information is provided in [Chapter 3 of the APP Guidelines](#).

Agencies using automated systems for self-assessment (at a shopfront, via the internet, or at interview) may find that information and data entered by a self-assessing user may not need to be stored by the system, thereby reducing the privacy risks and security requirements associated with use of a system.

Give notice to individuals about how their personal information will be handled when you collect it (APP 5)

When your agency collects personal information, APP 5 requires that reasonable steps be taken to either notify the individual of certain matters, or to ensure the individual is aware of those matters. These matters include:

- the agency's identity and contact details
- the fact and circumstances of collection
- whether the collection is required or authorised by law
- the purposes of collection
- the consequences if personal information is not collected
- the agency's usual disclosures of personal information of the kind collected by the entity
- information about the agency's APP Privacy Policy
- whether the agency is likely to disclose personal information to overseas recipients, and if practicable, the countries where they are located.



An agency must take these steps before or at the time it collects the information. If this is not practicable, reasonable steps must be taken as soon as practicable after collection.

Providing notice effectively can be challenging for automated decision-making. Nevertheless, agencies still need to give individuals notification of the collection of their data. Privacy notices, therefore, need to communicate information handling practices clearly and simply but with enough detail to be meaningful. Innovative approaches to privacy notices can include 'just-in-time' notices (appearing on the individual's screen at the point where they input personal data, providing a brief message explaining how the information they are about to provide will be used), video notices and privacy dashboards.

Use or disclosure for an authorised purpose (APP 6)

APP 6 outlines when an agency may use or disclose personal information. It provides that personal information may only be used or disclosed for the purpose for which it was collected (known as the 'primary purpose'), or for a secondary purpose if an exception applies. This principle may appear to present a challenge when conducting automated decision-making, as the ability to analyse data for different purposes is an important characteristic of automated decision-making.

Depending on the application, automated systems can become (or be integrated with) information-rich databases of personal information. Information-rich data bases, particularly those containing sensitive information, may be valuable to other agencies, including law enforcement agencies, and are sometimes the subject of unsolicited requests for information, or for formal approaches for data-linking. In practice, your agency will need to be able to determine whether the uses and disclosures of personal information to a third party are compatible with the original purpose it was collected for, and the privacy policy and/ or notice given to the individual. If the use or disclosure of personal information is not compatible with the primary purpose, you will need to rely on one of the exceptions set out in APP 6 in order to disclose such data.

The business practices overarching an automated system should minimise the risk of individuals being surprised as to how their personal information has been handled. You may choose to update your privacy policy and notices accordingly, ensuring that people are aware of likely secondary uses and disclosures of personal information (including automated decision-making projects). This may help to establish that an



individual would likely expect the use or disclosure, or in some cases help to establish that an individual has provided informed consent to the use or disclosure of their information for a secondary purpose. However, an agency cannot infer consent simply because it provided an individual with notice of a proposed use or disclosure of personal information. Agencies should also consider how they might allow individuals to genuinely choose which uses and disclosures they agree to and which they do not.

More information about use and disclosure is provided in [Chapter 6](#) of the APP Guidelines.

The proposed automation of some administrative processes is sometimes contingent upon linking existing electronic data sources to a new automated system. Where personal information is to be populated from other sources (and the data to be used within an automated system was initially collected for a different purpose), it is essential to ensure that use of existing electronic data is permitted under the Privacy Act.

Information used for decision-making must be accurate, up-to-date and complete (APP 10)

Administrative law requires that decisions must be based on reliable and relevant information. The Privacy Act complements this requirement by requiring agencies to take reasonable steps to ensure that the personal information they collect is accurate, up-to-date and complete (APP 10.1).

Similarly, agencies must take reasonable steps to ensure that the personal information it uses or discloses, having regard to the purpose of the use or disclosure, is accurate, up-to-date, complete and relevant. Guidance about the meaning of the terms 'accurate', 'up-to-date', 'complete' and 'relevant' is provided in [Chapter 10](#) of the APP Guidelines.

Large scale automated decision-making supported or underpinned by data analytics, AI and machine learning may appear to present some challenges to the principles of accuracy and relevance of data. For example, these activities typically seek to collect large amounts of data from many diverse sources, with limited opportunity to verify the relevance or accuracy of the information. Further, some data analytics techniques that support automatic decision-making such as automatic algorithms have the potential



to create personal information with an inherent bias, that is discriminatory or that leads to inaccurate or unjustified results.

Ensuring accuracy and quality in data analytics is particularly important where information may be used to make decisions about an individual, such as an administrative decision by a government agency. In these situations, it would be prudent for agencies to take rigorous steps to ensure the quality of both the personal information collected, as well as any additional personal information created by the algorithms that process the data. For example, consider conducting regular reviews of your data analytics processes (such as algorithms used), to ensure that they are fit for purpose and promote the accuracy of information.

Agencies should make automated and manual compliance intervention processes as easy as possible for customers to understand and use. Agencies should be as transparent as possible about the purpose of their analytic techniques (including algorithms), to better help individuals understand why automated decisions have been made about them. An internal document may be more appropriate for commercially sensitive techniques.

Agencies should have data validation processes in place before using personal information to inform automated decision-making. Where possible and appropriate, verify the accuracy of information which is not collected directly from the individual. For example, checking that third parties from which personal information is collected have implemented appropriate practices, procedures and systems to ensure the quality of personal information. It may also be useful to put in place procedures to monitor and record what type of personal information you are collecting.

Specific information risks that can arise include:

- an automated system might inappropriately incorporate unrelated, unchecked, unstable, outdated or unreliable data (for example from third parties) which can enter the decision-making pathway without the data flaw being identified or critically examined by an officer. This is a particular risk with pre-populated fields sourced from previously collected information.
- an automated system might automatically generate or calculate new personal information (data, opinions or decisions) for use in decision-making about an individual, but for which the level of reliability or accuracy of the information is not obvious to the decision-maker.



An automated system's design should identify the types of personal information that are (a) subject to change or potentially unreliable, and (b) relevant to the making of a decision. The resultant workflow should prompt for updated information to be obtained prior to a decision being made.

Secure handling of personal information (APP 11)

APP 11 requires agencies to take reasonable steps to protect personal information from misuse, interference and loss, as well as unauthorised access, modification or disclosure. Guidance on the terms 'misuse', 'interference', 'loss', 'unauthorised access', 'unauthorised modification' and 'unauthorised disclosure' is provided in [Chapter 11](#) of the APP Guidelines.

Automated system projects can be accompanied by the creation of information- rich data stores. Centralising or connecting previously disparate or unconnected data sources (for example, interview records and databases), can make personal information potentially more susceptible to unauthorised access, modification or disclosure, particularly when the data is stored in a consolidated way (a 'honey pot').

Agencies need to consider what security risks exist and take reasonable steps to protect the personal information they hold. This includes internal and external risks. It is expected that agencies handling large amounts of personal information as part of automated decision- making will conduct an information security risk assessment (also known as a threat risk assessment) as well as undertaking a PIA.

Undertaking an information security risk assessment will assist the entity to identify reasonable steps to take to protect personal information. Information about reasonable steps, including examples of what may be reasonable steps, is provided in the OAIC's [Guide to securing personal information](#).

Agencies should have a response plan for potential data breaches that includes procedures and clear lines of authority, which can assist an entity to contain the breach and manage their response. The OAIC's [Guide to managing data breaches in accordance with the Privacy Act 1988](#) provides guidance for organisations when responding to a data breach involving personal information. In the event of a data breach, agencies should also consider whether the nature of the breach dictates that they need to notify the OAIC under the [Notifiable Data Breaches scheme](#).



Governance and design

Automated systems projects must establish appropriate governance frameworks and ensure that legal, policy and program areas are involved during the system's development.

In developing automated systems projects, agencies should apply high standard information technology project methodologies and techniques and the Digital Experience Policy¹² – and, if AI is being used as part of an automated system, relevant whole-of-government AI policies including the Policy for the responsible use of AI in government.¹³

Additionally, the Australian Government privacy framework requires agencies to have privacy project planning and governance mechanisms in place. The previous section deals comprehensively with privacy requirements.

Enabling scrutiny of the development of an automated system is as important as the transparency and accountability characteristics of the system itself. Whatever governance arrangements are appropriate to the project and the agency environment, agencies should ensure that there is sufficient human oversight and that project decisions regarding automated systems are adequately documented.

There are potentially many inputs to the decision as to which areas are suitable for automated decision-making. Scoping for an automated system project should include an examination of the relevant legislation, policies or procedures, and the specific clauses and/or parts that an agency seeks to automate.

An automated system must be designed in a way that complies with the legislative framework which confers decision-making authority and accurately reflects the government policy it models. Agencies should ensure that the system does not constrain the decision-maker in exercising any discretion they have been given (under relevant legislation, policy or procedure) or lead to a failure to consider matters which are expressly or impliedly required to be considered by the statute. Agencies should

¹² [Digital Experience Policy](#)

¹³ [Policy for the responsible use of AI in government](#)



seek external legal advice if they are unsure whether a particular use of automation complies with the relevant statute.

Authorised decision-making

As authority to act is a fundamental tenet of administrative decision-making, it is important that the verification process for an automated system is able to test whether the nominated decision-maker is authorised to act. As a consequence, the audit facility should be able to report user access and decisions against delegations.

When an automated system is used as part of an administrative decision-making process but the final discretion or judgement, must be exercised by an authorised human, the automated system should expressly advise the decision-maker that the final decision is a matter for their judgement.

Verification and quality assurance processes are particularly important where a decision-maker is exercising delegations under multiple Acts, on behalf of another agency or under contract. In these instances, an automated system should be designed to allow functionality privileges or access commensurate with users' delegations. Quality assurance is addressed further below.

Any approach taken to deal with discretion or judgement within an automated system should have the capacity to capture and record the decision-maker's reasoning. This capacity should preferably be built into the system itself, to ensure that the automated system's audit trail clearly sets out each of the decision points involving discretion or judgement.

The importance of multidisciplinary teams

Automated systems projects need to draw on diverse skills to be most effective. This is necessary to safeguard against unintentional outcomes and to ensure legislative compliance. Typical projects include skills and expertise from a wide range of areas— including business areas (e.g. legal, policy, work practice and program areas) and information technology areas of the agency (such as business analysts, systems development specialists, testing and integration).



Teams should also include people with implementation and service delivery expertise (such as those in customer-facing or call centre roles) as well as users of the product or system to ensure that usability issues and acceptance of the system are considered from the outset of the project.¹⁴

A documented verification strategy is essential if an agency is to have confidence in the accuracy, consistency and currency of its automated system. For a verification strategy to be effective, it must be incorporated into the governance framework for the automated system project, and must link with the policy ownership strategy.

The verification strategy should ensure that the following project stakeholders are consulted internally and externally where necessary:

- legal
- policy owners
- architecture, data, information technology security advisers and other information technology experts
- program managers
- service delivery professionals such as user experience designers.

Interfacing an automated system with other agency systems can prove difficult due to the existence of different data definitions, existing services and different processing hand-offs. The total information technology solution, of which an automated system may be only one part, could consist of a mixture of business rules and procedural code, which should be understood at the outset.

Application of the Digital Experience Policy

The Digital Transformation Agency's (DTA) [Digital Experience Policy](#) (DX Policy) mandates four standards, supporting a whole-of-government focus on improving the experience for people and business interacting digitally with government information and services. The DX Policy sets agreed benchmarks for the performance of digital

¹⁴ Criterion 2 of the Digital Service Standard - [Know your user](#).



services and supports agencies to design and deliver better experiences by considering the broader digital service ecosystem.

- **Digital Service Standard**, which establishes the requirements for designing and delivering user-friendly, inclusive, adaptable and measurable digital services.
- **Digital Performance Standard**, which establishes the requirements for monitoring and improving the performance of government digital services.
- **Digital Access Standard**, which sets the requirements for agencies to make more informed decisions and reduce the duplication of digital ‘front doors’ and entry points to government digital services, providing people and business with a more unified experience when interacting with Australian Government.
- **Digital Inclusion Standard**, which establishes the requirements for designing and delivering inclusive and accessible digital government services through best practice principles

Agencies should refer to the [Digital Experience Policy](#) to determine if their project or services requires the agency to meet additional obligations and responsibilities under the DX Policy.

User needs

In line with the government’s digital transformation agenda, agencies are increasingly delivering online services which involve members of the community directly inputting data to automated systems. Where this is the case, the accuracy of automated actions and decisions relies, at least in part, on the accuracy of the data entered by the user. While it is the individual’s responsibility to answer the questions correctly, it is important for agencies to provide sufficient guidance to ensure:

- the user understands from the outset what the process will require from them, including what information they will need to have to hand
- where they have options or choices about how to use the process or service, guidance about which option is appropriate for them, and the consequences of their choices
- where to go for help if they have difficulties or questions.



The automated system and supporting channels must be accessible and inclusive of everyone regardless of ability and environment. This includes people with disability and older people, and people who cannot use or struggle with digital services. This may mean providing access to non-online channels as well as online access to the system.

Where the user has an option not to engage with an automated system at all, but not engaging may result in an adverse decision, clear and effective communication is essential about how to engage, why to engage, what will happen if they do not engage and how to access support.¹⁵

Support in using the automated system should be readily accessible, and include non-online channels (e.g. telephone lines). Special consideration and support should be given to vulnerable people, including those with disability, older people and people in rural and remote Australia.

Systems should be designed so that staff supporting users are able to see the same system as the user. Consideration should also be given to how community groups may be permitted to use or see an automated system for the purpose of assisting individuals or particular user groups.

Testing

Automated systems are improved by external perspectives. Wherever possible, systems should be tested with a broad range of real users, service delivery staff, oversight agencies and other organisations that support users in the design and delivery stages.

Stakeholder input into an automated system project might include:

- reviewing interview or categorisation questions
- verifying business rules relating to contested interpretations of the law
- providing scenarios designed to test the limits of a system
- granting access to system training or a test environment.

¹⁵ See, for example, recommendations 2, 3 and 5 in Commonwealth Ombudsman's report Centrelink's automated debt raising and recovery system, April 2017.

A verification strategy might also include inviting feedback on the accountability features of an automated system for the purposes of ensuring accuracy. Again, for external verification to occur, the underlying business rules contained in an automated system should be accessible and in a readily understandable form.

Data security

Agencies should adopt suitable procedures for accurately collecting and safely storing data used by automated systems. Data security must be part of the design beginning with identification of the data and information the system will use or create. Agencies need to ensure the automated system complies with all legal and policy requirements including the data security framework of the agency.

The DTA provides [guidance](#) for agencies on data security requirements.

Agencies need to understand their obligations under the following Australian Government frameworks:

- Information Security Manual
- Protective Security Policy Framework
- Information Security Registered Assessors Program Assessment.

In addition to privacy requirements which are covered above, agencies may need to be aware of requirements such as:

- Data Availability and Transparency Act 2022 (Cth)
- Archives Act 1983 (Cth)
- Freedom of Information Act 1982 (Cth)
- Spam Act 2003 (Cth)
- any state and territory government policies and legislation.



AI related frameworks, policies and guidance

Not all automated systems will utilise AI tools or capabilities. Where AI tools are used to automate administrative actions or decisions, entities must ensure the use is consistent with the Policy for the Responsible Use of AI in government¹⁶ (the AI Use Policy) and other whole-of-government and whole-of-economy frameworks and policies that are being developed and/or updated as AI usage becomes more prevalent. Agencies must review automated systems as new frameworks and policies are published and existing ones are revised to ensure continued responsible use of AI tools in their automated systems.

Policy for the responsible use of AI in government

The AI Use Policy took effect on 1 September 2024 and aims to create a coordinated approach to government's use of AI. It applies to all [non-corporate Commonwealth entities](#) with exceptions for the defence portfolio and the '[national intelligence community](#)'.

The AI Use Policy provides that departments and agencies **must**:

- **designate accountability for implementing the policy to accountable official(s)**. Accountable officials are responsible for implementation of the AI Use Policy within their agencies, notifying the DTA of high-risk use cases, coordinating their agency's input to DTA processes and keeping up to date with evolutions in the AI Use Policy.
- **publish a statement outlining their approach to AI adoption and use** and keep this statement up to date.

The DTA is continuing to develop complementary frameworks and resources to further support entities to safely and responsibly use AI tools. This includes piloting a draft Australian Government AI assurance framework, to inform further development of AI assurance policy settings. The DTA is also developing AI technical standards for government to ensure safe and responsible use is built into every stage of the AI

¹⁶ [Policy for the responsible use of AI in government](#)



system lifecycle, from design to deployment and retirement. Agencies should refer to digital.gov.au for the most recent policy requirements.

Modelling and approval of business rules

In the same way that manual administrative decision-making processes must ensure the ongoing accuracy of decisions, particularly as legislation, policy and procedure change, automated systems must also have processes in place to ensure that the system is producing accurate decisions which comply with the legislative framework. The accuracy of an automated system is of paramount importance in ensuring compliance with the administrative law values of legality and rationality and community trust in government processes.

Modelling the business rules

In law, legislation prevails over policy. Neither policy nor procedures can be incompatible with legislation—to be so would cause an agency to act outside of the legal authority provided to it by the Parliament.

Developing an automated system will often begin with an analysis of business needs and practices derived from the legislation, policy and procedure. This leads to the documentation of a comprehensive set of business rules.

Each rule needs to be authorised by legislation, and supported by settled policy and/or procedures. For accountability reasons, a verification process should be followed.

The business rules used by automated systems should also closely mirror the structure of the legislative sources. If policy sources are used as the point of reference, these must be checked against the relevant legislation. This strategy avoids unnecessary and undesirable interpretation of the source material that may lead to misinterpretations.

Mimicking the structure as well as the detail of relevant legislation also allows for manual comparisons to be made of both the rules and the source, enabling the authenticity of the rules to be checked or verified.

Another strategy is to reference each business rule in an automated system with the relevant citation of the source from which it was derived, for example, the particular section or subsection of the Act. This is important so that each rule's lineage can be



verified. This strategy also makes it easier for an automated system to be maintained when legislation changes. It also mitigates the risk that automated systems are designed using out of date policy or procedures such as policy or procedures that have not been updated to reflect legislative changes.

It is essential that the business rules modelling process accurately capture legislative and policy provisions as well as the relevant procedures. It should not narrow the scope, application, context or meaning of the enabling legislation, nor reinterpret the policy objective.

Sometimes the 'modelling' or 'rules definition' process will reveal inconsistencies in the way legislation, policy or procedure may have been administered. It may also expose anomalies in the legislation, policy or procedure itself. In each case, to aid accountability, the anomaly or inconsistency should be settled within the governance process with the goal of ensuring consistency with the legislation.

Business process mapping between systems

Where inputs or outputs of the decision-making process involve tasks and/or processes that are undertaken by other agency IT systems, it is important that these processes (and the timeframes and dependencies between systems) are clearly understood during development of the automated system.

Agencies may find that mapping the business processes between systems during the design phase is useful, both for the management of integration with other IT systems and for the design of the automated system itself.

Business rules update

Automated systems should be designed so that changes in the business rules can be easily updated across systems, and do not require major rework at each system interface.

Technical solutions should be found that maximise the interoperability of the automated system interface (with other IT systems), and therefore minimise the cost, time and disruption caused by the update process.



Data mapping to terms and definitions

Where automated systems integrate with existing IT systems, time should be taken to ensure that the data mapping of terms and definitions (relating to the agency's administration of the program area) in existing IT systems is interoperable with the data mapping and definitions in the automated system.

Consistent data mapping is of particular importance when information and data are drawn from other agency IT systems (such as databases or case management systems) into the automated system, or vice versa. If the definition and data mapping of facts relevant to an administrative decision (for example, 'spouse' or 'income') is considered and agreed upon early, considerable time and complexity can be avoided later in the project.

Consultation on this issue is advised during the analysis of the project, and should involve (at a minimum) the policy owners of the project and the relevant agency data and information management professionals.

Where possible, agencies should undertake a data 'harmonisation' process, identifying common elements, eliminating duplicate data and mapping to an agreed taxonomy (preferably using an international or other agreed data standard).

Implications for maintenance

During the design phase, agencies should consider how best to build an automated system having regard to future maintenance requirements. Maintenance and update of the business rules will be an ongoing task for most automated systems. The update process is a vital determinant of the accuracy of the decisions made by an automated system. Depending on the complexity and frequency of legislative, policy or procedural change, updating could involve only simple changes in various fields, or the incorporation of large sets of new or changed business rules into the system. Agencies should be aware that the technical design of a system, its integration with other IT systems and the ease of access to and update of each individual business rule will have major implications for the time, costs and efficacy of the maintenance procedures and processes of the automated system.



Versioning

Automated systems used for administrative decision-making should be able to maintain and execute different versions of the business rules where required. This is particularly important where legislation, policy and procedure (and, subsequently, the business rules of an automated system) change, and the underlying administrative or legal process requires an agency to process backdated decisions (which may require the application of an earlier version of the business rules).

Agencies should be aware of the importance of versioning during the design process, and consult the relevant underlying legislation, policy and/or procedures to ensure that there is a clear understanding (e.g. among the policy owners of the system) of the legal and administrative obligations for the backdating of administrative decisions. Where the processing of backdated decisions is required via an automated system, the system may require the capability to access and execute an earlier version of the business rules at a given point in time (as determined by the dates of changes to legislation, policy or procedure).

Quality assurance

Quality assurance can be used to test the intuitiveness of an automated system. It is important to understand whether a shortcoming in the system design (e.g. the imprecise structure of questions or answer categories) might contribute to an error or make a system unreliable in some respects.

Quality assurance may also point to areas where training could be better targeted, or identify how else the system might support better administrative decision-making.

In addition, an automated system needs to have a comprehensive audit trail to recall each decision point for analysis, to enable quality assurance testing of the system.

System monitoring and testing

It is vital that agencies using an automated system for administrative decision-making have robust processes for testing the system, both during its development and following its implementation. Testing of the system should commence from first principle (i.e. from the first level of legislative rules), occur each time a modification to



the system is made, and provide an ongoing monitoring cycle of the appropriateness of the decision-making carried out throughout the life of the system.

Accurate collection of information

When designing a user interface for members of the public or for staff, agencies need to be alert to the potential for questions, fields and labels within an automated system to favour, or select for, one type of response over another. Narrowly expressed questions, fields or labels, or incomplete business rules might artificially limit the effectiveness of the information gathering process that is essential to good administrative decision-making and is also a key privacy concern. Poorly expressed fields or questions present the risk that a decision will be made without sufficient information, and without an awareness that further information is required for a reasonable decision-making process to occur. The questions, fields or labels a user sees when using an automated system should be derived directly from the underlying business rules of the system, which are in turn also derived from the relevant provisions of the relevant legislation.

Staff training

Implementation gaps can arise between the design of an automated system and the way staff use it in practice. Concepts and issues that may be obvious to an expert group may be obscure or not understood by users. The verification strategy should ensure that the policy owner retains input into the analysis of the training needs of users (for example via pre- and post-decision quality assurance processes). Where warranted, the policy owner might also be involved in training delivery to reinforce the policy intention with users.

New roles may require development of more specific skills, for example in customer service, specialised interviewing skills or systems verification and quality assurance. Regardless of the skills and training mix the changed business processes demand, agencies should ensure that they have identified and addressed training requirements upon implementation of the automated system, including adequate provision for ongoing officer training.

Training requirements will vary depending on the nature of the decision being made. In all cases, staff must be able to adequately explain a decision made by an automated system or identify an appropriate escalation path for a customer seeking information.



Data quality

The data collected and used by the automated system must be accurate, complete and compliant with policy and legislative requirements relating to privacy and information management. Agencies should adopt suitable procedures for accurately collecting, processing and safely storing data used by automated systems in administrative decision-making. Particular consideration needs to be given to data quality in self-assessment systems, as these systems rely upon various data sources and integration. Where external data inputs are used e.g. data from a third party, consideration needs to be given to providing an opportunity for customers to dispute the accuracy of that data. Further, the user interface should make it easy and assist users to provide accurate data input and reduce errors e.g. online data validation checks can reduce typographical errors.

Data quality not only encompasses the requirement that agencies use suitable practices for the collection and storage of data at the outset of their administrative processes, but also that steps are taken to ensure the accuracy and security of this data over time. This might mean that agencies also consider the potential impact on data quality of any software or hardware changes to automated systems, and reconfirm that a system's operations still match the current business rules.

One strategy to ensure data quality, might be to consider the way in which automated systems are included in business continuity management plans, and to ensure the ongoing reliability and integrity of these systems.

Business continuity

Agencies should ensure that interim strategies are in place in the event that the system fails, or an update cannot be made immediately. When errors in the system cannot be fixed immediately, management-initiated 'workarounds' can be developed, whereby officers are advised of the problem and given instructions for remedying it. In this regard, 'alerts' can be placed in the system as soon as the policy change occurs. These alerts can notify decision-makers that the business rules might have changed and those parts of the system can be 'turned off'. Business continuity management arrangements should be in place to ensure that, when required, an appropriately trained officer can make a decision manually and explain this decision to an applicant.



Design principles for comprehensive audit trails

An audit trail is an essential part of a successful automated system design. To have a majority of desirable attributes present in a comprehensive electronic audit trail, agencies should consider applying the following good design principles:

- Have you designed the audit trail to include clearly identifiable links to authorised delegations (at every stage of the process)?
- Does the audit trail feature in the agency's design for automated systems?
- Will the audit trail's design meet the agency's business requirements, internal controls, transparency and accountability criteria, and audit requirements?
- Will the audit trail's design provide for archiving and continuity of access? Have you considered how change control processes will be reflected in the audit trail:
 - to record modifications to the system's operation or performance?
 - to reflect changes to the legislation that underpins the operation of the system?



Transparency and accountability

Transparency is a key value of administrative law and critical for government accountability. The underlying business rules of an automated system must be readily understandable and information about automated systems should be publicly available. People should be informed when automated systems are being used to make decisions that materially impact on their legal rights or other significant rights.

Publicly available information

The *Freedom of Information Act 1982* (**FOI Act**) is the legislative basis for open government in Australia and covers Australian Government ministers and most agencies. Under the FOI Act, most agencies have obligations to publish operational information as part of their Information Publication Scheme.¹⁷ Operational information is information held by the agency to assist the agency to perform or exercise the agency's functions or powers in making decisions or recommendations affecting members of the public (or any particular person or entity, or class of persons or entities).¹⁸ Examples include the agency's rules, guidelines, practices and precedents relating to those decisions and recommendations.

The OAIC has also developed principles on open public sector information which form part of a core vision for government information management in Australia and sit alongside the FOI Act.

Transparency and public access to government information are important in their own right and can bolster democratic government. Information sharing better enables the community to contribute to policy formulation, assist government regulation, participate in program administration, provide evidence to support decision-making and evaluate service delivery performance. A free flow of information between

¹⁷ *Freedom of Information Act 1982*, section 8(2)(j).

¹⁸ *Ibid* section 8A.



government, business and the community can also stimulate innovation to the economic and social advantage of the nation.

Agencies should ensure that their use of automated systems does not hinder individuals' rights to access the reasons for a decision or to access information held by agencies to facilitate review. Agencies should seek advice about their requirements under the FOI Act, Privacy Act 1988, Archives Act 1983 and open access to information responsibilities.

Websites are the main way that agencies communicate with the public and provide an opportunity for agencies to publish information about the use of automated systems.

Agencies should also ensure that automated systems' business rules relating to discretion and judgement, and any research linked to the use of discretion and judgement are readily and openly available for internal and external review.

Rules to be verified

The disclosure of the business rules does not fully resolve the issue of whether the underlying coding has correctly implemented each business rule and its interaction with other rules. The most practical way to check this is for an agency to have a robust verification strategy, in which the policy area actively participates in test cases.

Automated systems should be understandable

Automated systems should be designed with disclosure and external scrutiny in mind including:

- who made the decision
- under what authority
- how the decision was made.

This is essential for agencies to comply with their legal and accountability obligations. While it is possible to trace coding back to its origin, what agencies need to be able to do is to demonstrate in a non-technical way how the decision made was legal, fair and can be perceived to be fair.



Audit

Disclosure and exposure to audit are important expressions of the transparency and accountability policy of government, and contribute significantly to confidence in public administration.

To ensure that the appropriate law, policy and procedure have been correctly applied to individual circumstances, an automated system should be able to automatically generate a comprehensive audit trail of the decision-making path.

The audit trail should be derived from the underlying business rules of the automated system, and the interaction between the rules and the facts of the case. In some cases, this enables the decision-maker to check or review the determination made via the automated system before finalising the decision. It also enables external scrutiny of the administrative decision.

Statement of reasons

Giving reasons for decisions is a fundamental requirement of good administrative decision-making. Where the audit trail is incorporated into a statement of reasons (or a notice of decision), it enables individuals or entities affected by decisions to understand the basis of those decisions. A statement of reasons needs to be in plain English and should be designed in a way that facilitates a meaningful understanding of the basis for the decision.

It would not be sufficient for an automated system to simply generate a printout of the outcome of the decision-making process.

A statement of reasons would typically:

- Set out the decision (what has been decided).
- List findings on material questions of fact and include a probative assessment or weighing of evidence.
- Include a statement about why the decision is preferred over other available alternatives (and cite the relevant authority or precedent, where applicable).



- Demonstrate that the decision is within power (i.e. jurisdiction) and that an appropriate test provided for in legislation has been used.
- List any avenues that are open to a person to challenge or appeal the decision.

It is not necessary for a statement of reasons to include every detail of the decision-making path. For example, if part of the decision includes complex calculations that are based on a formula set out in the legislation, it may not add to an individual's understanding of a decision for the complex calculation to be set out in a decision letter. However, all elements of the calculations should be exposed in an audit trail and be available upon request. This capability would also allow for more effective internal quality assurance and external review.

It is important that the audit trail of an automated system is not able to be altered or manipulated by users (so that the integrity of the audit trail is not compromised). However, it is practical to allow decision-makers to edit statements of reasons to make them fit for the purpose (e.g. to make them more likely to be understood by the recipient).

Review of decisions

Customers must be provided with an opportunity to dispute an administrative decision made by or with the assistance of an automated system.

Many administrative decisions are subject to a legislative review process. In other cases, the agency should offer an option for internal review by a staff member as a part of a commitment to fair and reasonable decision-making. External avenues of review should also be provided to customers such as the option to make a complaint to the Ombudsman or taking a matter to a tribunal or court.

Agencies should ensure the system enables recording and archiving the decision-maker's deliberations or reasoning on matters of discretion or judgement and ensure that these are accessible and comprehensible for the purposes of internal and external review.

Remediation

Automation offers the possibility of dealing with high volumes of decisions quickly. An error in the design and/or operation of an automated system could therefore potentially produce a very large number of incorrect or invalid decisions. Agencies should consider the risks of large-scale administrative errors which may result through automating a decision-making process. Remediation of large-scale errors can be an extremely resource and time-consuming process. It is therefore critical that agencies remain willing to remediate expeditiously and reasonably when such errors are found.

Agencies should prepare for these risks by establishing plans for identifying and assessing the impact of large-scale administrative errors and consider options to develop timely, fair and reasonable remediation strategies that capture all potential options (e.g. from suspending the operation of decisions, reviewing and remaking individual decisions, through to large scale waivers to quickly correct the impact of all affected decisions) to fix historic errors and prevent future ones. It is critical for these plans to be developed and frameworks put in place prior to the commencement of the use of the automated systems, given the fact that large numbers of people could be significantly negatively affected by incorrect or invalid decisions.



Monitoring and evaluation

Agencies should monitor and evaluate the automated system on an ongoing basis. Consideration should be given to data sets such as complaints data that will inform the agency about how the automated system is operating.

Agencies planning the monitoring and evaluation cycle need to establish early:

- The frequency and level of information required to determine benefits realisation at, or before, implementation of the system.
- Agreement on the specific data sources and information to be monitored and reviewed, and on a schedule for assessment and reporting of these variables.
- Customer feedback mechanisms—whether the automated system may generate complaints and what data should be captured in the new or existing complaints management system for analysis.
- Responsibility for monitoring and evaluation and taking action on learnings from the data.

A number of variables could be considered for monitoring and review, from business outcomes to system statistics and client outcomes.

Other important data will include budget and spending patterns, user and/or client numbers and feedback, and the ongoing monitoring and management of risks. Agencies should also be aware that program and policy areas of the agency may consider automated system data useful with regard to policy refinement.

Feedback and the incorporation of monitoring data will form an important picture of the success of an automated system project, in addition to creating a valuable source of information for the review, improvement and/or expansion of a system into the future.



Appendix A: Better practice checklist

The following checklist summarises items that should be addressed when considering the implementation or update of an automated system for administrative decision-making.

A basic summary of the checklist can be found in the introduction to this Guide.

The checklist has been developed to assist agencies to assess the objective of an automated system at the point of development or redevelopment, and to ensure that agencies who automate decision-making are aware of their administrative and privacy law obligations when automated systems are used to administer government programs.

The checklist points are intended to be a guide for officers engaged in the design and/or implementation of automated systems, particularly policy owners, business analysts, system developers and administrative decision-makers.

The items in the checklists are not mandatory and are not intended to be comprehensive. Rather, they highlight key issues for agencies in relation to automated systems projects.

The checklist is iterative and feedback on how it can be improved is welcome.

See next page for start of checklist.



Detailed Checklist

Is an automated system suitable?

Have you ensured that the automated system does not, at any part of a process:

Contravene administrative law requirements of legality, fairness, rationality and transparency?

Contravene privacy, data security or other legal requirements (including human rights obligations)?

Compromise accuracy in decision-making?

Have a significant detrimental and irreversible impact on individuals and communities?

Significantly undermines public confidence in government administration?

Administrative law

Do the administrative decisions you propose to include in the automated system require the exercise of discretion or judgement by the assessing officer? Agencies should seek external legal advice on the appropriateness of automating these decisions in their specific legislative context

Have you sought external legal advice on specific risks of automation in your statutory context, and designed the system accordingly?

Are the business rules contained in the automated system open to internal and external review?

Is notice provided to an affected individual before a decision is made?

Privacy

Is the automated system designed to collect only the minimum amount of personal information necessary to meet a clearly defined and articulated purpose?



Can the collection of personal information (that could identify an individual) be avoided or minimised, while still delivering a useful self-assessment tool?	<input type="checkbox"/>
Do self-assessment tools make it clear whether it is mandatory or optional for the individual to disclose some or all of the requested personal information?	<input type="checkbox"/>
Do self-assessment tools make clear whether information is being stored and/or retained for further use? Is the APP5 Notice within your automated system 'fit for purpose'? Are there business processes to ensure that any release of information (outside of the purpose of collection, and for which an APP5 notice has been given) has been properly considered against the Privacy Act?	<input type="checkbox"/>
Are data-matching programs associated with use of the automated system properly authorised?	<input type="checkbox"/>
Is there legal authority to use existing data (previously collected for another purpose) for a new or secondary purpose?	<input type="checkbox"/>
Does the automated system design enable notes of disclosure decisions (and reasons) to be appended to the record? Are appropriate security procedures in place to ensure the security of personal information?	<input type="checkbox"/>
Have appropriate strategies been employed to manage the risk that outdated or unreliable data is used to make an automated decision?	<input type="checkbox"/>
Does the automated system enable individuals to have access to the personal information collected (for example, via the generation of a personal information report where requested by an individual)?	<input type="checkbox"/>
Do the business processes associated with use of the automated system have clear information access and complaint pathways?	<input type="checkbox"/>
Is a privacy impact assessment required?	<input type="checkbox"/>
Governance and design	
Does the automated system project have appropriate formal governance arrangements?	<input type="checkbox"/>
Is the scope of the automated system clear, and clearly reflected in project documentation?	<input type="checkbox"/>



Have the relevant areas of legislation, policy or procedure been identified during the scoping phase? Have you considered the change management ramifications of the project?	<input type="checkbox"/>
Have you developed a stakeholder and communications strategy to address the management of changed work practices for officers?	<input type="checkbox"/>
Does the project plan involve consultation and input from the appropriate business and/or program areas? Have the relevant program areas/end users been consulted during the testing phase of the system?	<input type="checkbox"/>
Do the project governance arrangements unambiguously assign policy ownership?	<input type="checkbox"/>
Do the governance arrangements provide an appropriate role for the policy owner in the design, development, implementation and maintenance phases of the system?	<input type="checkbox"/>
Do the project governance arrangements unambiguously assign project ownership?	<input type="checkbox"/>
The importance of multi-disciplinary teams	
Does the design team include officers with technical, legal, policy and service delivery experience?	<input type="checkbox"/>
Have you consulted with the appropriate architecture, data and information management professionals within your agency environment?	<input type="checkbox"/>
Where required, is the data mapping of terms and definitions relevant to the decision-making process interoperable with other agency IT systems?	<input type="checkbox"/>
Will the automated system be required to process backdated administrative decisions?	<input type="checkbox"/>
Does the design of the automated system allow for maintenance and execution of different versions of the business rules if required?	<input type="checkbox"/>
If the underlying business rules of the automated system change, will the system be required to process changes to multiple decisions or records held within the system?	<input type="checkbox"/>



Does the technical design of the automated system allow for the timely and efficient processing of changes to multiple decisions or records if required?	<input type="checkbox"/>
Verification with stakeholders	
Do the project governance arrangements provide for, and link with, a verification strategy and quality assurance process?	<input type="checkbox"/>
Does the agency have appropriate verification processes, including visual verification of the underlying business rules as well as 'known outcome' scenario testing?	<input type="checkbox"/>
Does the policy owner lead the 'known outcome' scenario-based testing process?	<input type="checkbox"/>
Are the underlying business rules contained within the automated system accessible and readily understood by non-IT professionals?	<input type="checkbox"/>
Does the verification strategy include a 'gap analysis' to assess whether the system design is appropriate to user needs, and is it being used as designed and intended?	<input type="checkbox"/>
Does the verification strategy incorporate a review of user training to ensure the policy intention is communicated effectively and rapidly, and applied consistently?	<input type="checkbox"/>
Does the verification strategy allow for external scrutiny by, and seek input from, external stakeholders?	<input type="checkbox"/>
Application of the Digital Experience Policy	
Have you ensured that the Digital Experience Policy is part of the system design?	<input type="checkbox"/>
Have you considered deployment of the automated system through multiple service delivery channels (such as online, for self- assessment or via external agency systems)?	<input type="checkbox"/>
Have you identified potential user groups for the automated system?	<input type="checkbox"/>
Have you considered the impact of the automated system on your agency's channel management and service delivery strategies?	<input type="checkbox"/>



Have you considered the access and equity issues that may arise, particularly if the automated system is to be deployed online or as a self-assessment tool?	<input type="checkbox"/>
Modelling and approval of business rules	
Do all members of the system design team share an understanding of the primacy of the law and is this understanding reinforced at all levels and stages of the automated system project?	<input type="checkbox"/>
Are the business rules authorised by the law and verified as such by the policy owner?	<input type="checkbox"/>
Where the automated system makes decisions, is this authorised by the relevant law, policy or procedure? Do the business rules mimic the structure and detail of the source legislation, policy or procedures?	<input type="checkbox"/>
Have the business rules been referenced or linked to the source material (i.e. the specific part of the legislation, policy or procedures)?	<input type="checkbox"/>
Where the automated system makes a decision, is this authorised by the relevant legislation?	<input type="checkbox"/>
Have decisions about business rule definition relating to administrative decision- making discretion been adequately recorded?	<input type="checkbox"/>
Have the business rules been reviewed (for example, by the policy owner) to ensure they accurately and comprehensively represent the relevant law, policy or procedure?	<input type="checkbox"/>
Does the business rules review process examine discretion points to ensure they are not narrowly modelled or fettered?	<input type="checkbox"/>
Do the project governance arrangements provide for settling anomalies and inconsistencies in legislation, policy or procedure?	<input type="checkbox"/>
Have all areas of legislative or policy complexity and ambiguity been appropriately resolved?	<input type="checkbox"/>
Has the automated system appropriately modelled parts of the administrative decision-making process involving the exercise of discretion and judgement?	<input type="checkbox"/>



Does the automated system mandate the collation of the decision-maker's deliberations or reasoning on matters of discretion or judgement?	<input type="checkbox"/>
Does the automated system provide links to relevant research and decision-support materials for each question or decision point contained in the system?	<input type="checkbox"/>
Maintenance	
Has adequate funding been secured for ongoing maintenance and upgrades to the system?	<input type="checkbox"/>
Have clear business owner/s been identified as responsible for the ongoing maintenance and/or change requirements of the system?	<input type="checkbox"/>
Do the project and quality assurance processes support the rapid approval and update of commentary within the system?	<input type="checkbox"/>
Have testing processes been undertaken prior to and following implementation of the system? Are testing processes in place to verify modifications to the system or its business rules?	<input type="checkbox"/>
Are strategies in place to ensure that the automated system's design and modifications history is documented?	<input type="checkbox"/>
Are business continuity arrangements in place?	<input type="checkbox"/>
Do business continuity management arrangements address the event of system unavailability or malfunctioning? Are officers able to make manual decisions if necessary?	<input type="checkbox"/>
Quality assurance	
Where automated systems interface with other agency IT systems, have you ensured that the accuracy of the legislative or policy rules within the automated system are not compromised (for technical efficiencies or otherwise)?	<input type="checkbox"/>
Where automated systems interface with other agency IT systems, what measures have been taken to ensure systems interoperability and ease of update for the total solution?	<input type="checkbox"/>



Have measures been undertaken to protect the integrity and quality of data held within the automated system?	<input type="checkbox"/>
Do the governance arrangements and quality assurance processes support the rapid approval and update of commentary and user-support materials within the automated system?	<input type="checkbox"/>
User training	
Does the project plan include a training program for users of the system?	<input type="checkbox"/>
Have you established which of the following components the training program will include: business rules, legislation, use of the system, the wider business context and broader administrative decision-making skills?	<input type="checkbox"/>
Have officers in new or changed roles been appropriately trained for their new roles?	<input type="checkbox"/>
Has an ongoing training program for the users of a system been developed, including ongoing training updates for system enhancements?	<input type="checkbox"/>
Implementation	
Have poorly designed and/or redundant business processes been re-engineered and/or retired?	<input type="checkbox"/>
Have you identified new business processes brought about by the automated system, such as mapping new business interactions, roles and responsibilities?	<input type="checkbox"/>
Has adequate consultation and stakeholder management been undertaken to address the change to new business processes?	<input type="checkbox"/>
Have you identified the likely impacts that implementation of the automated system will have on the usefulness and currency of older information technology infrastructure and systems?	<input type="checkbox"/>
Transparency and accountability	
Are mechanisms in place to identify and assess the scale and impact of errors made by automated systems and proactively remediate errors in a timely manner?	<input type="checkbox"/>



Is there any information about the automated system publicly available?	<input type="checkbox"/>
Are appropriate strategies in place to ensure that the business rules contained in the automated system are verified?	<input type="checkbox"/>
Are the business rules contained within the system in a form that can be readily understood by non-IT professionals?	<input type="checkbox"/>
Does the automated system have the capacity to automatically generate a comprehensive audit trail of the administrative decision-making path?	<input type="checkbox"/>
Are all the key decision points identifiable in the audit trail?	<input type="checkbox"/>
Are all the key decision points within the automated system's logic linked to the relevant legislation, policy or procedure?	<input type="checkbox"/>
Are all decisions recorded and accessible by the system's user, a reviewer or an auditor?	<input type="checkbox"/>
Is the audit trail secure from tampering (to provide protection and data integrity)?	<input type="checkbox"/>
Does the audit trail include a comprehensive and understandable modification history including: <ul style="list-style-type: none"> • who created the document (with time and date recorded)? • who has modified the document (with time and date)? • a record of what was modified? • for privacy and commercial-in-confidence matters, who has viewed the document (with time and date)? • who made the final decision (with time and date)? 	<input type="checkbox"/>
Does the audit trail start by identifying the authority or delegated authority identified in legislation? Does the audit trail show who an authorised decision-maker is?	<input type="checkbox"/>
Are all the decision points identifiable in the audit trail?	<input type="checkbox"/>



Can the audit trail generated by the automated system be easily integrated into a notification of the decision (including a statement of reasons or other notification) where required?	<input type="checkbox"/>
Are there review options for customers who dispute decisions?	<input type="checkbox"/>
Have you established a monitoring and review cycle for the automated system, including agreement on the information and data to be collected?	<input type="checkbox"/>
Have you considered collecting data that might be useful for policy and/or program refinement? If so, have you consulted the policy areas of the agency in relation to this issue?	<input type="checkbox"/>
Have you established appropriate user/ client feedback mechanisms?	<input type="checkbox"/>
Have you clarified who has responsibility for the incorporation of learnings, monitoring and review?	<input type="checkbox"/>
Does the automated system's audit trail clearly set out decision points involving discretion or judgement?	<input type="checkbox"/>
Can the decision-maker's reasoning or deliberations (which are collected by the automated system where discretion or judgement is involved) be incorporated into a statement of reasons or other notification, where required?	<input type="checkbox"/>
Will the design of the audit trail assist with efficiently monitoring recommendations, decisions and processes? Does the audit trail feature in the agency's design for automated systems?	<input type="checkbox"/>
Will the audit trail's design meet the agency's business requirements, internal controls, transparency and accountability criteria, and audit requirements?	<input type="checkbox"/>
Have you designed the audit trail to include clearly identifiable links to authorised delegations (at every stage of the process)?	<input type="checkbox"/>
Will the audit trail's design provide for archiving and continuity of access?	<input type="checkbox"/>

Have you considered how change control processes will be reflected in the audit trail to:

- record modifications to the system's operation or performance?
- reflect changes to the legislation that underpins the operation of the system?



Appendix B

Title
<p>Administrative Review Council</p> <p>Automated Assistance in Administrative Decision-making, Report No 46 (2004)</p> <p>Report 46 – Automated Assistance in Administrative Decision Making 2004 Attorney-General's Department</p>
<p>Commonwealth Ombudsman</p> <p>Centrelink's Automated Debt Raising and Recovery System—Implementation Report (2019)</p> <p>Microsoft Word – 001 Final report V6.0 – EIC Stage 2 Implementation –for Ombudsman approval (A1677898)</p> <p>Lessons learnt about digital transformation and public administration: Centrelink's online compliance intervention (2018)</p> <p>AIAL-OCI-Speech-and-Paper.pdf</p> <p>Centrelink's Automated Debt Raising and Recovery System (2017)</p> <p>Report-Centrelinks-automated-debt-raising-and-recovery-system-April-2017.pdf</p>
<p>Department of Industry, Science and Resources</p> <p>Australia's AI Ethics Principles</p> <p>Australia's AI Ethics Principles Australia's Artificial Intelligence Ethics Principles Department of Industry Science and Resources</p>
<p>Digital Transformation Agency</p> <p>Digital Experience Policy</p> <p>Digital Experience digital.gov.au Policy for the responsible use of AI in government, Version 1.1</p> <p>Policy for the responsible use of AI in government</p>
<p>European Union</p> <p>General Data Protection Regulation OJ L 119/1, art 22 (2016)</p> <p>Art. 22 GDPR – Automated individual decision-making, including profiling – General Data Protection Regulation (GDPR)</p>



Federal Court of Australia

Justice Melissa Perry

iDecide: Digital Pathways to Decision (2019)

[iDecide: Digital pathways to decision](#)

Government of Canada

Directive on Automated Decision-Making

[Directive on Automated Decision-Making- Canada.ca](#)

Office of the Australian Information Commissioner

Australian Privacy Principles Guidelines

[Australian Privacy Principles guidelines | OAIC](#)

Guide to Data Analytics and the Australian Privacy Principles

[Guide to data analytics and the Australian Privacy Principles | OAIC](#)

Guide to undertaking privacy impact assessments

[Guide to undertaking privacy impact assessments | OAIC](#)

Guidance on privacy and the use of commercially available AI products

[Guidance on privacy and the use of commercially available AI products | OAIC](#)

Guidance on privacy and developing and training generative AI models

[Guidance on privacy and developing and training generative AI models | OAIC](#)

Organisation for Economic Co-operation and Development

Recommendation of the Council on Artificial Intelligence OECD/Legal/0449, adopted on 22 May 2019, amended on 3 May 2024, accessed at

<https://legalinstruments.oecd.org/en/instruments/OECD-LEGAL-0449>



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Tel: 1300 362 072

Email: ombudsman@ombudsman.gov.au

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