



# New Technology Framework

# **Contents**

Co	Contents2				
1.	Overview	3			
2.	Trial or Adopt New Policing Technology Policy purpose and scope	3			
3.	Principles	7			
4.	Guidance for applying the Principles	. 10			
5.	Assessment process	. 12			
6.	New Technology Working Group – Purpose and Membership	. 15			
7.	Expert Panel on Emergent Technology	. 15			
8.	Technology Proposal, Policy Risk Assessment, and Algorithm Guidelines	. 16			
9.	Process following approval of technology	. 19			

# Document history

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1.0	31/03/2021	Initial version
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# 1. Overview

The New Technology Framework has been developed to assist decision-making on new technology, and includes:

- Policy purpose and scope
- Principles against which a Technology Proposal should be assessed
- Guidance to assist in applying the Principles to a specific proposal
- A process to guide the structured assessment of a proposal through to formal decisions
- The requirements for documents to support well-informed decision-making, transparency, and accountability
- The process following approval of proposals

The Framework aligns with our **SELF CHECK** tool to help make the best decisions possible:

- Would it withstand Scrutiny? (Community, Police service, Media and Online)
- Is it in line with our Ethics? (Our Code, Our Values, High performing culture)
- Is the decision Lawful? (Laws, Regulation, Policies and guidelines)
- Is the decision Fair to all? (Community, Colleagues and whānau, People's individual circumstances)

# 2. Trial or Adopt New Policing Technology Policy purpose and scope

#### Why do we have this policy?

Our system of policing by consent is based on trust and confidence in the way New Zealand Police delivers its services, and the social license granted by the community to police in the way that we do. Concerns about overly wide access to certain technologies, or a lack of clarity around how certain policing decisions are made, can undermine public trust and confidence and Police's social license. Police also needs to ensure the use of new technology is lawful.

Being clearer about the basis on which New Zealand Police engages with new technologies can help dispel any unfounded concerns, and reinforce Police's commitment to carefully weigh privacy, legislative, security and ethical considerations before making decisions about new technology. The policy can also support an ongoing conversation about the role of technologyenabled capabilities in policing, set in the particular context of Aotearoa/New Zealand.

#### Purpose and scope

#### Trial or Adopt New Policing Technology Policy purposes

The purposes of the policy on trial or adoption of new policing technologies are to:

- Ensure decisions to trial or adopt new and evolving policing technologies and technology-enabled capabilities are made ethically and proportionately with individual and community interests
- Ensure Police's approach aligns with wider New Zealand Government ethical standards and expectations; including the Government Chief Data Steward's and

Privacy Commissioner's *Principles for the safe and effective use of data and analytics*<sup>1</sup>, and Statistics New Zealand's *Algorithm Charter for Aotearoa New Zealand*<sup>2</sup>

- Ensure decisions reflect Police's obligations to Te Tiriti o Waitangi including by seeking and taking account of a te ao Māori perspective
- Enhance public trust and confidence by ensuring decisions and the reasons for them are transparent, and decision-makers are accountable
- Enable Police to innovate safely, so that opportunities offered by technology to deliver safer communities and better policing outcomes for New Zealanders are not lost.

# Scope

The policy applies to any proposed trial or adoption of new technology. It extends to situations where extra functionality is being added or turned on to an existing technology.

The policy may apply to any type of technology. The scope includes novel technologies such as artificial intelligence (AI), drones, machine learning or algorithm-based software, and 'new tech' capabilities, such as use of chat bots or other digitally-enabled management tools, and 3D photogrammetry. It also includes more established technologies which allow for images to be captured (such as use of Closed Circuit Television Cameras [CCTV]) and/or matched (such as Automatic Number Plate Recognition [ANPR]).

The policy applies:

- where new or enhanced policing capability is proposed, whether or not the technology itself is new ('new capability'); or
- where existing technology is proposed to be used for a new or evolved policing purpose ('new use'); and
- it is proposed by Police either to **trial or adopt** the new capability or new use (whether or not a trial has previously been approved under this policy); or
- the new capability or new use has been, or will be, **passively acquired** by Police (for example, as a result of vendor-initiated product enhancement).

The policy does not apply where:

- existing technology (software or hardware) is subject to end-of-lifecycle replacement, iterative version upgrades, security patching or other minor enhancements (such as new user interface), <u>if</u> the replacement or upgrade does not add significant new policing capability or enable its use for a new policing purpose; or
- the proposed new capability, or new use, would not enable a core policing function, because:
  - it will **not** affect Police interactions with the public in any way (either directly or indirectly); and
  - it will **not** gather new, additional, or improved data from or about members of the public including offenders or victims.

Examples of core policing functions:

<sup>&</sup>lt;sup>1</sup> https://www.privacy.org.nz/assets/Uploads/Principles-for-the-safe-and-effective-use-of-data-and-analytics-guidance.pdf

 $<sup>^{\</sup>rm 2}$  https://data.govt.nz/use-data/data-ethics/government-algorithm-transparency-and-accountability/algorithm-charter

Examples of technology capabilities or uses which would be considered to affect Police interactions with the public, and are therefore **in scope** of the policy as core policing functions, would include technologies that:

- might influence or change public-facing deployment or response decisions
- help to detect offending
- assist in investigations
- generate leads or influence targeting or prioritising of investigations
- identify suspects or discover potential evidence
- use of equipment, like Remotely Piloted Aircraft Systems (RPAS), to survey scenes and provide situational awareness

Examples that would most likely not be considered as enabling core policing functions and therefore **not within scope** include technologies that:

- work only with Police's own internal corporate organisational information (such as HR systems to support personnel)
- assist decision-making on resource allocation only at an internal-facing, nonoperational level
- affect only internal, non-operational, and non-investigative workflows.

## Further guidance on scope

An initial policy assessment decision tree diagram is contained in the New Technology Framework to assist in determining whether or not the policy applies in a specific case. Particular attention should be focussed on technologies that are significantly based on:

- artificial intelligence or machine learning
- algorithm-based risk assessment or decision support
- gathering or analysing data which relates to members of the public, including individual offenders
- biometrics: the fully or partially automated recognition of individuals based on biological or behavioural characteristics<sup>3</sup>
- the possibility of public place or online surveillance perceived or otherwise (irrespective of whether the provisions of the Search and Surveillance Act are considered to apply).

These technologies are likely to be inherently higher-risk and so application of the policy to them should be considered the default position.

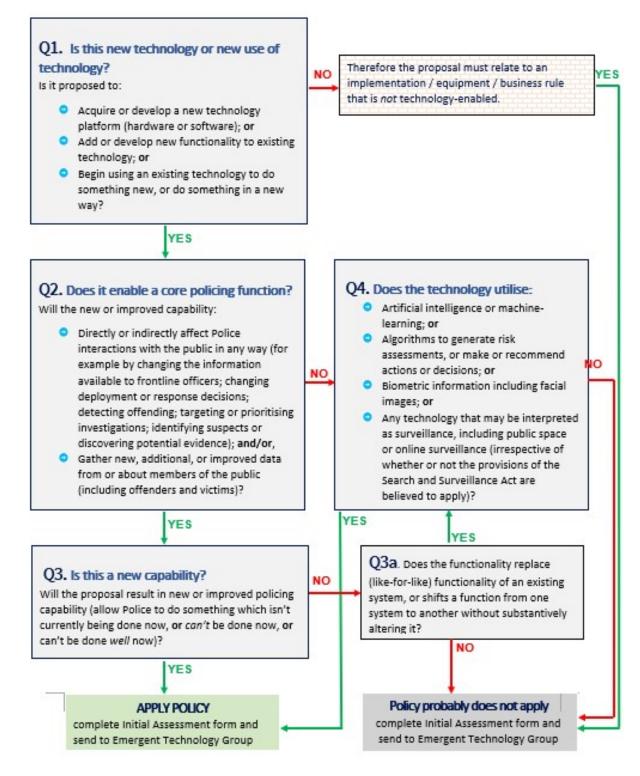
The lawfulness of a proposed new capability or new use is not a factor which determines whether or not this policy applies.

As transparency and accountability are key objectives of this policy, where there is any room for doubt, the policy should be assumed to apply.

Scope of approvals

<sup>&</sup>lt;sup>3</sup> "There are many types of biometrics using different human characteristics, including a person's face, fingerprints, voice, eyes (iris or retina), signature, hand geometry, gait, keystroke pattern, or odour." Office of the Privacy Commissioner (OPC), *Position on the Regulation of Biometrics*, October 2021, p. 2. https://www.privacy.org.nz/assets/DOCUMENTS/2021-10-07-OPC-position-on-biometrics.pdf.

Any governance approval gained under this policy are limited by the relevant governance group's mandate: that is, to assess whether a technology proposal is justified and compatible with privacy, security, legal, and ethical principles. Such approval <u>does not</u> replace or remove the need for a business owner to comply with any other applicable policies including obtaining appropriate financial authorisations.



#### Initial Policy Assessment Decision Tree Diagram

# 3. Principles

#### Introduction to the Principles

Ten Principles underpin the decision-making framework. These are intended to be technology agnostic and not linked to any specific technology. That is, they should be able to be usefully applied (as relevant) both to novel or advanced technologies such as algorithms and AI, and also simpler technologies such as CCTV or body-worn cameras.

Similarly, they should be applicable to new technology capabilities or use-cases, whether they utilise new or existing technology platforms; and to technology proposals either to trial or adopt the technology.

The Principles are illustrated by a series of statements, which are intended to aid understanding of what the Principles mean and help to structure assessment of whether a proposal aligns with the Principles or not. All technology proposals should align with each of the statements, to the extent they apply in the particular use-case.

Alignment should be demonstrated before a technology proposal is approved via the two-step governance approval process for trial or adoption. Alignment with one or more principles may be provisionally assessed at the point of a proposal to trial if it is intended that the trial and evaluation will further investigate the issue.

## Focus on use of the technology

Principles-based assessment requires a central focus on the proposed use-case – not just on the technology itself. That is because a technology itself is seldom likely to be either inherently harmful or beneficial: what matters most, in terms of both ethical decision making and public acceptability, is how it is used, the impacts, and whether the benefits of that particular use outweigh or are proportionate to the harms.

## Principle 1: Necessity

- There is a demonstrable, legitimate need for Police to acquire the capability the technology is intended to deliver and a clear problem statement
- Use of the technology supports and achieves the strategic direction of Police, including Our Business and the Executive Strategic Performance Template (SPT)
- The technology will deliver an identifiable public or policing benefit that would not otherwise accrue, assist Police to meet relevant legislation, or lessen a significant risk that would otherwise be present. The benefits of these technologies may be quantitative in nature, such as increased crime prevention and efficiency of police operations, or qualitative, such as an increase in public trust and an improved perception of Police

# Principle 2: Effectiveness

- The technology design is well understood and explainable to users and impacted people
- The policing objectives of the technology's proposed use are well defined and explainable
- There is an evidence base or other good reason to believe the technology will be effective in delivering these objectives
- Output of the proposed technology will be fit-for-purpose and of the quality necessary to support the intended use (such as intelligence, investigative, evidential, or forensic use)
- The proposed technology has been used or tested in a New Zealand context, to ensure compatibility with New Zealand Police outcomes

## Principle 3: Lawfulness

- The technology's proposed use is reasonable and lawful
- The technology is applied only within the agreed scope of the proposal

## Principle 4: Partnership

- Te Tiriti o Waitangi has been considered in the design and proposed use of the technology
- A te ao Māori perspective has been considered in assessing the possible or percieved impacts of the technology or its use on Māori
- If the technology includes any form of data collection and use, relevant mechanisms are in place to ensure data is treated as taonga and Māori sovereignty is maintained
- Māori, Pacific and/or other communities have been involved in co-design or consulted and any concerns responded to
- Business owners have liaised with MPES to evaluate the potential effects and risk mitigation strategies for Māori, Pacific and/or other communities

## Principle 5: Fairness

- Any possible biases or perceived unfairness arising from the technology design, or its proposed use are clearly identified and able to be mitigated<sup>4</sup>
- The proposed use of the technology is appropriate

# Principle 6: Privacy

- The technology incorporates privacy by design in data sourcing, use, retention and storage
- Privacy impacts in an operational environment have been assessed and identified privacy risks will be mitigated

# Principle 7: Security

- Appropriate data governance will ensure data is handled and stored securely, and data quality and integrity are assured
- Information security and operational security risks have been assessed, including data intrusion risks, and identified risks will be mitigated

## Principle 8: Proportionality

- Impacts on the human rights and interests of individuals, particular groups or communities, and the collective public interest of the community as a whole have been considered
- A te ao Māori perspective has been considered
- The following impacts have been considered:
  - privacy, safety, security and other impacts on affected **individuals** (e.g. suspects, offenders, victims, staff, members of the public)
  - the collective human rights and interests of particular groups or communities affected (e.g. communities of ethnicity, age, gender or diversity, or particular geographical communities)
  - o human rights and the collective public interest of the community as a whole
- Any negative impacts are proportionate to the necessity and benefits of the proposal
- No other identified alternative solution or strategy, that is viable having regard to cost and other feasibility considerations, would meet the need and deliver the benefits with less negative impact

## Principle 9: Oversight and accountability

- The proposed technology has been assessed and/or peer reviewed for technical adequacy
- Risks including privacy, security, te ao Māori, human rights and ethical risks identified have been mitigated and residual risk is within acceptable margins

<sup>&</sup>lt;sup>4</sup> If the technology is at an early (early procurement, pre-trial) stage, it may not always be possible to identify all possible biases, if a previously unidentified bias arises, further consultation with the Emergent Technology Working Group may be required.

- Policy, process, audit and reporting controls have been developed to assure that the technology is used only as intended
- Review processes have been developed for trial evaluation and/or to monitor operational performance, to measure whether the technology is delivering the intended outcomes and benefits
- The system in which the technology is deployed, and any substantive decisions made by or based on the technology's output (such as resource deployment, identification of possible suspects, or enforcement decisions) are subject to active human oversight

## Principle 10: Transparency

- The technology, the way it is to be used, and the rationale for any decisions made by the technology itself, or by people on the basis of its output, are understood by those assessing and operating it, and are clearly explainable to others
- Mechanisms (whether general or specific to the technology use) exist for individuals or groups adversely affected by the technology to challenge or seek review of decisions
- Information about the technology, its proposed/authorised use(s), justification for these
  uses, and oversight and accountability mechanisms will be published or otherwise
  made freely available to the public, to the greatest extent possible (having regard to
  operational security, commercial and other considerations)
- Assessments, evaluations, reviews, audits and other reports will be published or otherwise made freely available to the public, to the greatest extent possible (having regard to operational security, commercial and other considerations)

# 4. Guidance for applying the Principles

The Principles should be considered throughout the development, assessment, and approval of a technology proposal. Alignment with the Principles will need to be demonstrated prior to approval being given to trial or adopt a technology. Broad guidance on how the principles should be considered at each stage of technology proposal development, approval and endorsement is described below.

#### **Guidance for applying the Principles**

#### a. Pre-proposal

#### Technology design/selection

The need for alignment with the Principles should be incorporated into early design decisions or product selection criteria. In much the same way as 'privacy by design' should apply, designing to align with the Principles could be considered 'ethical by design'.

#### Use-case decisions

The Principles should be considered in developing the proposed use-case (for example, to help decide from the outset which uses are likely to be proportionate and which are not).

#### Trial and evaluation design

The Principles should be considered when determining the parameters of the trial proposal, and its proposed evaluation. For example, where alignment with certain Principles may be unclear, these may be issues that need to be explicitly investigated through the trial and evaluation.

## b. Technology Proposal

It is useful for the Technology Proposal developed at process Step 2 (described in the next section) to include information that is relevant to assessing alignment with the Principles.

# c. Policy Risk Assessment (PRA)

The advice provided to the Governance Groups to inform its decision (process Step 4 described in the next section) should include a structured assessment of the proposal against each of the statements contained in the Principles. This is the point at which alignment with the Principles is comprehensively assessed.

The Policy Risk Assessment is the arms-length advice of the Emergent Technology Working Group. It represents the analysis and judgment of the Group, and will usually be based on the information presented in the Technology Proposal, New Technology Working Group, Privacy Impact Assessment (PIA) / Information Security Risk Assessment (ISRA) (if commissioned), and any other relevant information.

## d. Security Privacy Reference Group (SPRG) approval

The SPRG decision as to whether or not to approve a Technology Proposal is informed by formal advice and recommendations to consider the security and privacy impacts . A structured assessment of alignment with the Principles, via the Policy Risk Assessment, is central to the advice provided to it.

## e. Organisational Capability Governance Group (OCGG) endorsement

OCGG's decision as to whether or not to endorse an approval is informed by formal advice and recommendations. OCGG will have access to the advice which informed the SPRG, including the Policy Risk Assessment, and may overrule the SPRG judgment at its discretion.

## f. Outcome of test or trial

Following a test or trial of new technology, the Manager: Emergent Technology must be advised about the outcome (see *Process following approval of technology*).

# 5. Assessment process

A five-step assessment process to reach a principled decision on a new technology use proposal is described in the shaded box below.

The process presupposes that the business group has already done desktop research/evaluation to develop a proposal that is sufficiently advanced to allow for meaningful assessment against the Principles, and assessment of privacy, security, legal and ethical implications.

The process mandates three documents to be created in every case that falls within scope of the policy:

- A Technology Proposal produced by the business group owner
- A Policy Risk Assessment produced by the Emergent Technology Working Group
- Governance cover papers, produced by the Emergent Technology Working Group, which will also include specific advice on te ao Māori, and algorithm-related considerations (where relevant)

Further documents may also be required on a case by case basis, including:

- A Privacy Impact Assessment
- An Information Security Risk Assessment
- Information on algorithms to demonstrate compliance with the Guidelines for algorithm life-cycle management
- Other supporting documents or expert reports as required

#### Technology Proposal assessment: process overview

Step	Who	What
1. Does this policy apply?	Business owner (proposer) in consultation with Emergent Technology Group	Consider whether the policy applies. Consult the initial assessment decision tree diagram and complete the Initial Assessment Form to assist in making this judgment. If the policy does not apply, advise the Emergent Technology Group in writing of the existence of the technology proposed and the business owner's determination that the policy does not apply. This is required to ensure complete records are maintained of the organisation's use of technology tools. No further steps are required.
<b>2.</b> Develop Proposal	Business owner (proposer)	Complete the Technology Proposal document. The document template contains guidance to assist in completing this step. The Proposal document is sent to the Emergent Technology Group.
3. Contact Emergent Technology Group	Business Owner	Provide Technology Proposal to the Emergent Technology Group. The Emergent Technology Group will review the proposal and confirm the proposal is within scope of the policy, is sufficiently well-developed to advance, if the proposed technology relies substantively on an algorithm and provide advice whether the Guidelines for algorithm development and life-cycle management is required to be adhered to,

		and/or other expert input (such as a te ao Māori perspective) are required.
<b>4.</b> Consider the proposal and develop a	Emergent Technology Group and New Technology	Consider the proposal at a New Technology Working Group meeting, with input from the Business Owner and complete required documentation.
Policy Risk Assessment (and Privacy	Working Group	The Emergent Technology group produce a Policy Risk Assessment (PRA) conducted against the Principles.
Impact Assessment, Information Security Risk Assessment if required)		If it is necessary to commission any further specialist advice to support the PRA (for example, to consider a te ao Māori perspective) this may be done at this stage. The Governance Group paper makes clear recommendation on the proposal and may also recommend that the proposal be referred to the Expert Panel on Emergent Technology for independent advice to inform further consideration by the Security Privacy Reference Group (with approval deferred), or as supplementary advice to inform Organisational Capability Governance Group's consideration of endorsement.
		The paper should provide specific advice on the two special considerations (te ao Māori perspective; and whether algorithm guideline adherence should be mandated), and may recommend conditions be attached to governance approvals as appropriate.
		<ul> <li>The papers submitted to the Governance Groups should include as attachments:</li> <li>The Policy Risk Assessment</li> <li>Privacy Impact Assessment / Information Security Risk Assessment (if conducted)</li> <li>Any specialist or Expert Panel advice received on the proposal or other relevant supporting information as required</li> <li>The Algorithm Questoinnaire (as required)</li> </ul>
4.a Contact other experts as required	Chief Privacy Officer (CPO) / Chief Information Security Officer (CISO) / other subject-matter expert (as appropriate)	Produce Privacy Impact Assessment / Information Security Risk Assessment /other expert assessment (as appropriate) in consultation with business owner. Adjustments to the proposal may be made to address issues, for example by refining the use-case or introducing new controls to the proposal.
5. Two step	SPRG	Receive advice and recommendations from the Emergent Technology Group and decide whether or not

Governance approval: Step 1 - approval decision by Security Privacy Reference Group (SPRG)		<ul> <li>to approve the proposal. This decision will be based on the proposal meeting security and privacy requirements. SPRG may refer the proposal to the Expert Panel on Emergent Technology or any other key stakeholders for independent advice.</li> <li><b>NB</b>: Should a request be required in an emergency situation; it can be raised directly to the delegated Executive Lead for Organisational Capability Governance Group via the Manager: Emergent Technology.</li> </ul>
5a. Two step Governance approval: Step 2 - endorsement decision by Organisational Capability Governance Group (OCGG)	Delegated Executive Lead for OCGG	Review and decide whether or not to endorse the SPRG decision. The Executive Lead should be informed by the same material presented to the SPRG and any further relevant material produced since (for example, a description of new controls or proposal revisions made in response to SPRG comment or approval conditions). The Executive Lead may also refer the proposal to the Expert Panel for Emergent Technology, if it has not already been referred by the New Technology Working Group, Emergent Technology Group, or by SPRG. The Executive Lead makes decision on whether proposals are referred to the whole OCGG for consideration of endorsement. The Executive Lead (or OCGG), will decide whether NZP will proceed with trialling or adopting the technology. If endorsed by the Executive Lead (or OCGG), the proposal may proceed within the approved parameters <u>subject to</u> any other necessary approvals having been gained (such as financial authorisation) under any other applicable policies.

# 6. New Technology Working Group – Purpose and Membership

The New Technology Working Group is a semi-formal group, convened by the Manager: Emergent Technology to support new technology assessment and governance approvals processes. Its advice will be provided to business owners on a consensus/shared accountability basis. Membership may vary but should include representation of/from:

- Chief Privacy Officer
- Chief Information Security Officer
- Māori, Pacific and Ethnic Services
- Legal
- . ICTSC
- Evidence-Based Policing
- Risk and Assurance Group
- Other policing expertise relevant to particular proposals but arms-length from business owners, such as Response & Operations, Prevention, High-tech Crime Group, District representative (as appropriate)

The New Technology Working Group's main purpose is to give initial consideration of a Technology Proposal and provide semi-formal feedback to the business owner. New Technology Working Group is engaged early in the process so that the Group can provide internal Police expert perspectives, who can advise the business owner:

- Whether, in their consensus view, the proposal falls within scope of the policy or not. This provides a second opportunity to triage very low risk proposals out of the process
- Whether the proposal is sufficiently well-developed to proceed, or whether the business owner should flesh out details in particular areas
- Provide advice to inform the policy risk assessment from a security, privacy, legal and ethical perspective and guiding principles
- Whether supporting documents such as a Privacy Impact Assessment, Information Security Risk Assessment, te ao Māori or other expert assessment should be produced
  - The relevant expertise will be present in the Working Group and the necessary work can therefore be initiated immediately
- Whether or not the technology appears substantively to involve the use of an algorithm, and whether the guidelines for algorithm development and life-cycle management for algorithm developers should also be followed
- Any other relevant advice for example, if a similar proposal has recently been considered and the outcome of that consideration

Advice of the Group should be formally recorded for purposes which could include policy evaluation, research, audit, and accountability. These may be required to be produced at a later time.

# 7. Expert Panel on Emergent Technology

The Panel is an advisory body convened to give independent advice on proposals referred to it by Police, in the form of recommendations and guidance for the consideration of the Commissioner of Police. The Emergent Technology Group, SPRG and OCGG can refer proposals to the Panel at any point of the proposal process, where the panels advice will be helpful to inform decision making.

The panel provides expert scrutiny, review, and advice on new technology which is a key part of providing assurance within Police, and reassurance to the wider public, that privacy, ethical, and human rights implications have been taken into account before decisions are made to trial or adopt new technology capabilities.

The Panel is also responsible for advising Police of algorithms proposed (to ensure privacy, human rights and ethics interests are appropriately safeguarded, and any unintended consequences are identified), are in line with the Algorithm Charter for Aotearoa New Zealand<sup>5</sup>.

The Panel's review work and advice to the Commissioner of Police is expected to consider consistency with Te Tiriti, proactive partnerships with Māori, and implications for Māori, Pacific and Ethnic communities.

The Panel comprises of an independent Chair and up to five other independent members. Panel members will collectively have expertise in privacy, ethics and human rights matters; data and technology; Te Ao Māori and an understanding of Māori data sovereignty issues; and public policy.

# 8. Technology Proposal, Policy Risk Assessment, and Algorithm Guidelines

# **Technology Proposal**

The Technology Proposal is a summary of the proposed new technology use. A specification for this document is contained in the shaded box below.

As described in the process overview, the Technology Proposal will be used as a basis for assessing whether a Privacy Impact Assessment and/or Information Security Risk Assessment is required to inform the decision-making process. It is also the basis on which a Policy Risk Assessment will be conducted.

## Technology Proposal Document

A Technology Proposal should include at least the following headings and information.

## Technology description

• What is the technology and how does it work? This should include an overview of the technical functionality, including a description of data sources where relevant. If the technology mainly relies on an algorithm to analyse data (e.g. to assess risk, make decisions, or produce recommendations for staff action) this should be specifically noted.

# Necessity

• What do Police need to be able to do (or do significantly better), that they can't do now? Outline how the proposal supports and achieves the strategic direction of the organisation. Make specific linkage to Our Business and the Executive SPT. What existing policing capability gap is the technology intended to bridge? This should be a

<sup>&</sup>lt;sup>5</sup> www.police.govt.nz/about-us/programmes-and-initiatives/police-use-emergent-technologies/algorithm-charter

brief statement that describes an existing policing challenge or shortfall: for example, in meeting a public interest in, or expectation of, service delivery or harm prevention in a specific area.

#### Use case

 What is the technology proposed to be used for? This should be a description of the specific purpose, or kinds of situations in which the technology is intended to be used (such as types of crime being investigated, or operational situations where the technology would be employed). This should include an outline of the proposed 'end state' deployment of the technology, as envisaged if a trial is successful.

## Engagement

• How have Te Tiriti o Waitangi and a te ao Māori perspective been considered in the design and proposed use of the technology? How have Pacific and other communities been considered?

#### Controls

• How it is proposed to ensure that the technology is not used beyond its intended use case. This could include, for example, policy guidance, legislative or regulatory guidance, approvals processes, reporting and audits.

#### Proportionality

 Consider the policing requirement versus implications on an individual or community. Can the proposed solution be justified against the impact on people's privacy or other rights/expectations of fairness (e.g. use of their data, surveillance of lawful activity, perceived 'targeting'); and in terms of the likely initial and ongoing financial/resourcing costs to Police (to the extent the approximate scale of such costs may be known)? Briefly describe any such impacts and costs and how they are justified, having regard to the above (necessity, use case, controls). Reference to the Principles may help identify possible impacts.

#### Trial and evaluation proposal

• What the parameters are for the proposed trial (for example, how many users/devices, in what locations, and for how long) and how the trial is proposed to be evaluated. This should include a description of how the trial will be determined to be a success.

#### How will the technology be funded?

• Will this be funded within the Business Owner's allocated funding; or will this require an Investment Proposal through to Business Case? Advise options for the testing/trialling stage, and should the technology be implemented, consider ongoing costs to maintain the technology. The implications of any proposal on investments, finances, staffing, training, procurement and IT should be transparent. Give as much relevant information as possible.

#### **Policy Risk Assessment**

A Policy Risk Assessment (PRA) is the structured assessment of the Technology Proposal against the Principles. The PRA should state whether (and, if so, how) the proposal aligns with each of the statements contained in the Principles, including whether the proposal is proportionate and ethical. This analysis will be informed by the Technology Proposal and any further relevant information including any Privacy Impact Assessment / Information Security Risk Assessment produced, and any supplementary specialist advice received (for example, advice from a te ao Māori perspective).

The PRA will form a key part of the advice to the Governance Group and should therefore be presented in full to support any recommendations made.

The PRA template requires an assessment against each and every statement in the Principles (even if the assessment is simply "Not applicable"). It is important to demonstrate for the record that the full spectrum of possible issues has been actively considered.

The PRA template contains guidance in the righthand column. This is not intended to be prescriptive, and the assessor should apply their own judgement as to what is relevant or not in order to demonstrate how compliance is achieved, and under what conditions (if any).

In time, as PRA assessors, consumers of the advice, and the wider organisation become more adept at applying the framework, lower risk or less significant proposals might be satisfactorily assessed against a briefer PRA which allows for aggregated commentary against each of the 10 Principles, to highlight only the most salient issues bearing on decision-making.

#### General guidance for completing a PRA

- Each cell in the righthand column of the completed PRA should describe, in a few sentences (2-5), **how** the proposal complies with the corresponding statement. In some cases a slightly longer commentary may be necessary. If significantly more lengthy explanation is warranted, consider appendices.
- Commentary should include any conditions/qualifications to the assessed compliance, including any further work that is recommended to align with the principle.
- Commentary should reference source documents (such as the Technology Proposal or Privacy Impact Assessment) wherever possible, to demonstrate the basis on which compliance has been assessed.
- The PRA is an accountability document and is a key foundation for governance decisionmaking. As such, if the evidence does not clearly support an assessment of alignment with a given principle, invite the proposer to produce more evidence; and if doubt remains, ensure that doubt is clearly recorded in the PRA.

#### Colour coding

Shade each box to provide a rapid visual aid for checking compliance with the principles. Green means full compliance ...

... while orange indicates conditional or qualified compliance, or compliance subject to completion of further work.

Red would indicate that, at the time of assessment, the proposal could not demonstrate compliance with the relevant principle.

## Adherence with Guidelines for algorithm development and life-cycle management

While, technically, algorithms are utilised to greater or lesser degree in every computerised technology, they are usually incidental to the policing capability delivered by the technology.

Some technologies, however, rely substantively on algorithms that may even have been programmed specifically to deliver or enable a policing function or capability. For example:

- Algorithms which analyse data to generate risk assessments, prioritise interventions, make decisions, or recommend actions
- Algorithms which search data to identify possible evidence or persons of interest, or scrape/extract/aggregate data of potential interest

In cases where an algorithm is central to the capability of a technology, appropriate design, use and performance of the algorithm are key to assessing the proportionality of the policing capability it enables. As well as assurances within the design and performance of an algorithm, it is important to maintain human oversight to mitigate any risk of inaccuracy within algorithminformed decision-making.

The business owner is required to make an initial judgment of whether a technology is algorithmdependent as part of the Technology Proposal, and as part of adherence to the Guidelines for algorithm development and life-cycle and compliance with the *Algorithm Charter of Aotearoa New Zealand*. The Guidelines cover the design, use, and management of the algorithmic technology, such as how data is gathered, tested, inaccuracies, bias, how the data will be used throughout the technology's lifecycle, and how it will be monitored. The Business Owner must complete NZP's Algorithm Questionnaire for algorithm lifecycle management to demonstrate compliance with these guidelines and best practice. There are two checklists available:

- A questionnaire for use and approvals of **internally** developed algorithms, to be completed by the proposer/business owner
- A questionnaire for use and approvals of **third party** algorithms, to be completed by the proposer/business owner **and** the supplier.

This questionnaire will be further considered by the Emergent Technology Group, with advice provided to the Governance Groups accordingly. Based on that advice, governance approvals for technologies that depend on algorithms will be conditional on adherence to the Guidelines. Both the safety of the algorithm **and** alignment with the Principles must be considered.

# 9. Process following approval of technology

## Proposals to deploy technology after successful trial

Trial and evaluation of a technology proposal are likely to provide additional evidence about possible privacy and other risks, and the effectiveness of control and mitigation strategies. Trial experience might also result in refinements to proposed limitations on the uses of a particular technology.

Therefore, a proposal to adopt for operational use or more widely deploy a technology, following a successful trial, should also be subject to the process described by this policy. The process of seeking further approval will require updating of materials that were produced to support the trial proposal: in particular, to ensure that decisions on final adoption are cognisant of evaluated trial

outcomes and any adjusted use parameters or controls. In most cases, the mandated documentation will have been created to support the earlier trial proposal. This documentation will simply need to be updated to reflect any changed parameters and evidence gathered through trial and evaluation.

If evaluation has been positive, progression through the new technology governance approvals process a second time should not in most cases delay progress in parallel through other processes associated with full-scale adoption (such as development of a business case and/or investment proposal).

# Post-approval monitoring and oversight

Securing the SPRG approval and OCGG endorsement via the five-step process completes the principled decision-making process established by the Framework. However, maintaining public trust and confidence requires that Police is able to continue to demonstrate trustworthiness in the use of technologies once approved for trial or adoption. The approvals process reflects this through its focus on ensuring appropriate trial evaluation and use controls form part of the Technology Proposal.

At an implementation level, ongoing assurance of good stewardship of policing technologies (including assuring compliance with the approved parameters of trial or use) requires maintenance of centralised records. Police has previously committed to establishing and maintaining a centralised 'stocktake', and the advice from Taylor Fry makes similar recommendations.

The centralised record should capture all proposals (including those that are assessed as not requiring governance approvals); record the governance decisions on them (whether approval was granted or not); and also serve as a platform to enable monitoring of trial progress and evaluation, and support lifecycle management of technologies (including algorithms) once adopted and deployed. Monitoring and lifecycle management are likely to include assuring that trial or use takes place within approved parameters and subject to any conditions imposed, and scheduling of regular reviews of a technology's performance against its intended purpose. It may also include scheduling of any associated reporting or other assurance loops that formed part of the approved proposal.

In the case of proposals to trial a new technology, the Manager: Emergent Technology should therefore be kept informed of trial progress, conclusion of the trial, and evaluated outcomes.

If a proposal to adopt (or operationally deploy) a technology is approved under this policy, the Manager: Emergent Technology should be kept informed of any changes in use, withdrawal of the technology, or other developments.

Any proposal to alter the way in which technology is used, after it has been adopted, is likely to have a material impact on the Policy Risk Assessment (including, for example, assessment of Proportionality) and will require further governance approvals based on updated documentation.