

Technology, Media & Telecommunications

# Singapore Issues Draft Model AI Governance Framework for Generative AI

## Introduction

Generative Artificial Intelligence ("AI") has proven to be a challenging development in the industry. On one hand, Generative AI brings significant transformative potential, over and above the opportunities presented by traditional AI. On the other hand, it has enhanced the inherent risks of AI while also raising new concerns.

Singapore has demonstrated keen efforts to facilitate the structured development of AI, as demonstrated in initiatives such as (i) launching the AI Verify Foundation ("AIVF"), which harnesses the collective power and contributions of the global open-source community to build AI governance testing tools; and (ii) the National AI Strategy 2.0, which outlines plans to deepen the use of AI to transform our economy.

In Singapore's latest move in the field of AI development, the AIVF and the Infocomm Media Development Authority ("IMDA") announced on 16 January 2024 that they have developed a draft **Model AI Governance Framework for Generative AI** ("**Draft Framework**"). This expands on the existing Model Governance Framework that covers traditional AI, last updated in 2020.

The Draft Framework seeks to set out a systematic and balanced approach to address Generative AI concerns while continuing to facilitate innovation. It looks at nine proposed dimensions to support a comprehensive and trusted AI ecosystem and offers practical suggestions that model developers and policymakers can apply as initial steps. AIVF and IMDA welcome views from the international community, which will support the finalisation of the Model AI Governance Framework in mid-2024.

In this Update, we highlight the key elements of the Draft Framework and the principles and recommendations contained therein.

## Overview of Draft Framework

The development of the Draft Framework is based on the recognition that existing governance frameworks need to be reviewed to foster a broader trusted ecosystem, establishing a balance between protecting users and driving innovation. It also considers international discussions on topics of accountability, copyright, and misinformation, among others.

The Draft Framework thus aims to facilitate international conversations among policymakers, the industry, and the research community, to enable trusted development globally. It integrates ideas from earlier discussion papers on Generative AI and draws on earlier technical work to provide an initial



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catalogue and guidance on suggested practices for safety evaluation of Generative AI models. Further, it draws on practical insights from ongoing evaluations tests conducted within the Generative AI Evaluation Sandbox.

There are nine dimensions which the Draft Framework proposes to be looked at in totality:

- Accountability
- Data
- Trusted Development and Deployment
- Incident Reporting
- Testing and Assurance
- Security
- Content Provenance
- Safety and Alignment Research & Development
- AI for Public Good

### Summary of Principles

Dimension	Summary	Highlighted Recommendations
<b>Accountability</b>	Putting in place the right incentive structure for different players in the AI system development life cycle to be responsible to end-users	<ul style="list-style-type: none"> <li>• Allocating upfront responsibility based on level of control</li> <li>• Safety nets for issues that are discovered thereafter</li> <li>• Updating legal frameworks to make them more flexible</li> </ul>
<b>Data</b>	Ensuring data quality and addressing potentially contentious training data in a pragmatic way	<ul style="list-style-type: none"> <li>• Articulate how existing personal data laws apply to Generative AI</li> <li>• Balancing copyright with data accessibility</li> <li>• Facilitating access to quality data</li> </ul>
<b>Trusted Development and Deployment</b>	Enhancing transparency around baseline safety and hygiene measures based on industry best practices in development, evaluation and disclosure	<ul style="list-style-type: none"> <li>• Development – establishing baseline safety practices</li> <li>• Disclosure – standardising a calibrated level of disclosure</li> <li>• Evaluation – working towards a more comprehensive and systematic approach to safety evaluations while maintaining coherence between baseline and sector-specific requirements</li> </ul>

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Dimension	Summary	Highlighted Recommendations
<b>Incident Reporting</b>	Implementing an incident management system for timely notification, remediation and continuous improvements	<ul style="list-style-type: none"> <li>• Vulnerability reporting – incentive to act pre-emptively</li> <li>• Incident reporting – developing processes for notification and remediation, and establishing proportionate reporting</li> </ul>
<b>Testing and Assurance</b>	Providing external validation and added trust through third-party testing, and developing common AI testing standards for consistency	<p>Fostering development of a third-party testing ecosystem</p> <ul style="list-style-type: none"> <li>• How to test – defining a testing methodology that is reliable and consistent</li> <li>• Who to test – identifying the entities to conduct testing that ensures independence</li> </ul>
<b>Security</b>	Addressing new threat vectors that arrive through Generative AI models	<ul style="list-style-type: none"> <li>• Adapting "Security-by-Design"</li> <li>• Developing new security safeguards such as input filters and digital forensics tools for Generative AI</li> </ul>
<b>Content Provenance</b>	Enhancing transparency about where content comes from as useful signals for end-users	<ul style="list-style-type: none"> <li>• Designing policies to enable practical use in the right contexts</li> <li>• Working with key parties in the content life cycle</li> <li>• Standardising the types of edits to be labelled</li> <li>• Providing users with greater understanding of content provenance</li> </ul>
<b>Safety and Alignment Research &amp; Development</b>	Accelerating research and development through global cooperation among AI Safety Institutes to improve model alignment with human intention and values	<ul style="list-style-type: none"> <li>• Accelerating research and development in model safety and alignment</li> <li>• Promoting global cooperation in research and development</li> </ul>
<b>AI for Public Good</b>	Harnessing AI to benefit the public	<ul style="list-style-type: none"> <li>• Democratising access to technology</li> <li>• Serving the public in impactful ways</li> <li>• Upskilling of the workforce</li> <li>• Ensuring sustainable growth</li> </ul>

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## **Concluding Words**

The move towards ensuring the controlled and structured development of Generative AI through policy and regulation is still in its early stages. Nonetheless, it is evident that the Singapore Government is pursuing a comprehensive framework that encompasses technical safeguards and standards, forward-looking policy considerations, and international cooperation. The Draft Framework is a prime example of this, providing a balanced and thorough layout for the future of Generative AI.

AI governance is an evolving and nascent space. The ongoing public consultation represents a valuable opportunity to shape policy-making and international discourse in this area. Industry stakeholders (including model developers, application deployers, and cloud service providers) should therefore carefully consider the elements of the Draft Framework, including any areas of concerns, uncertainty or potential operational issues.

Comments on the Draft Framework are to be submitted by 15 March 2024.

Should you have any questions or wish to submit feedback on the Draft Framework, please feel free to contact our team below.

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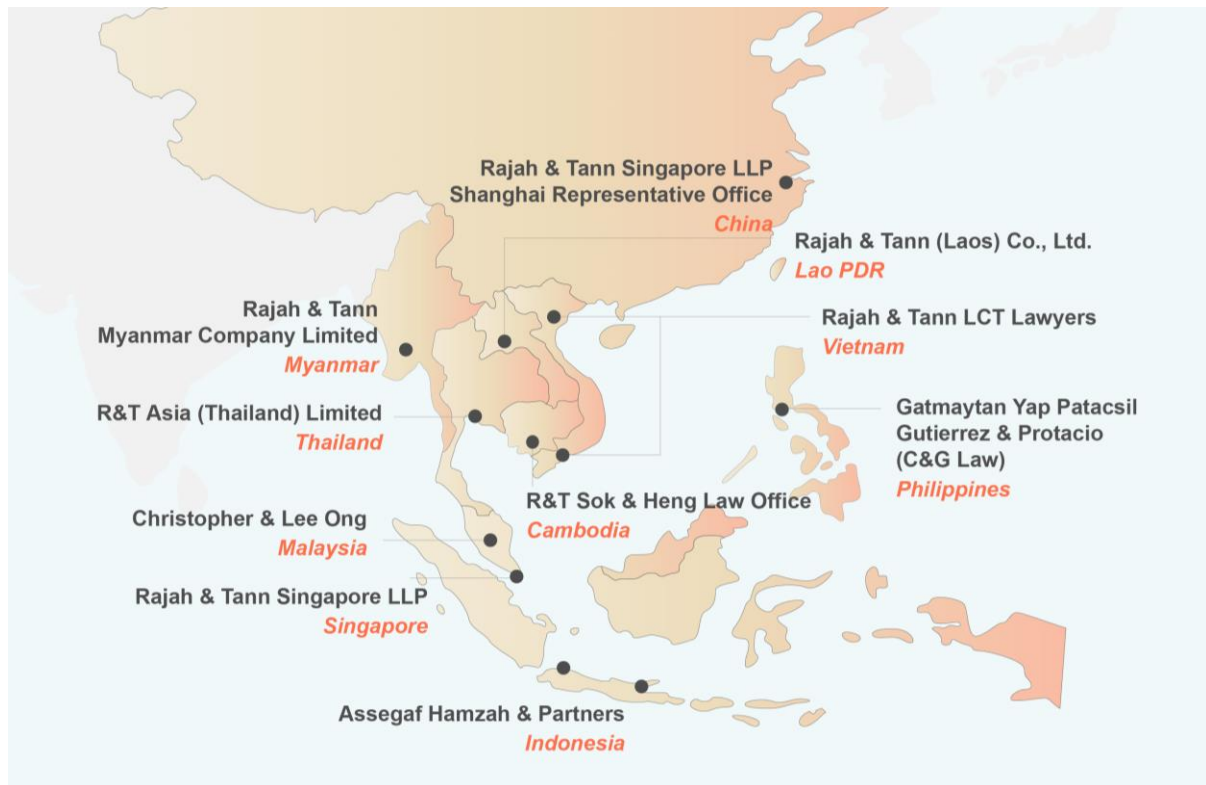
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