Singapore's Approach to AI Governance & Standards



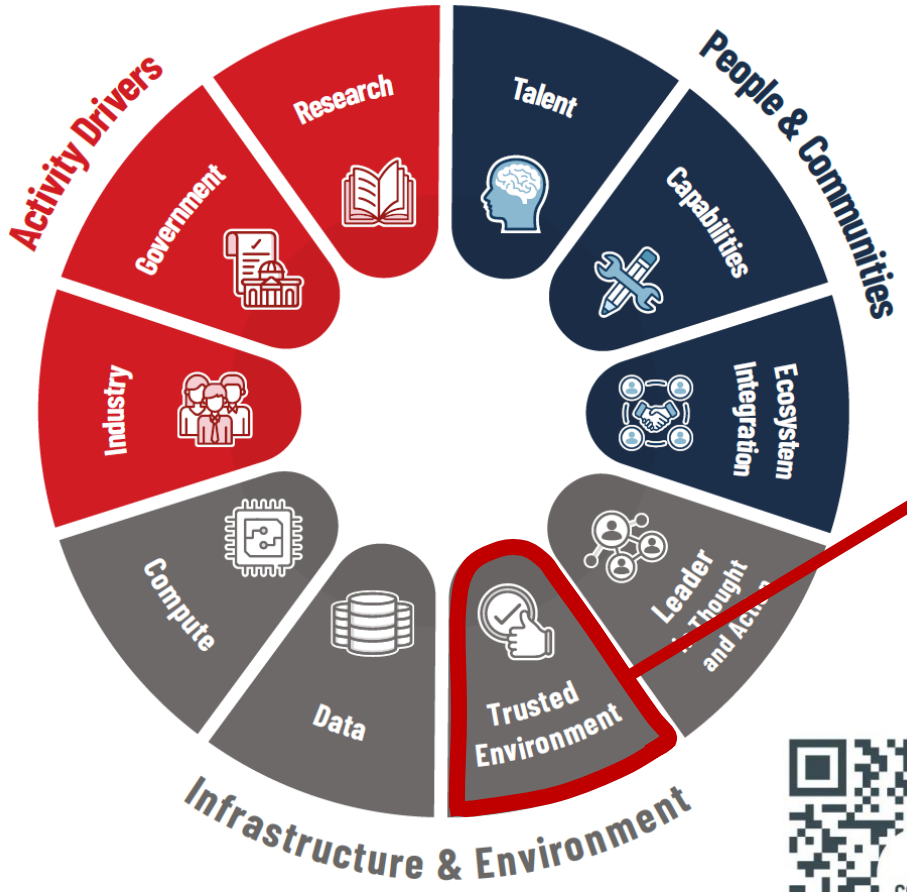
Global ICT Standards Conference (GISC) 2026
Seoul, South Korea

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National AI Strategy (NAIS) 2.0

Harness AI for Public Good, for Singapore and the World



Maximise societal & economic benefits

- **Guardrails** to protect public interests and build consumer trust
- Space for **adoption** and **innovation**
- **Address derailers** to adoption

AI capability (and risks) evolving rapidly

State of sciences for governance behind AI development frontier

- **Policies** that are agile & adaptive - in tandem with AI development, proportionate to risks
- **Practical** tools to level up ecosystem capabilities quickly
- **Partnerships** with industry, academia and other governments

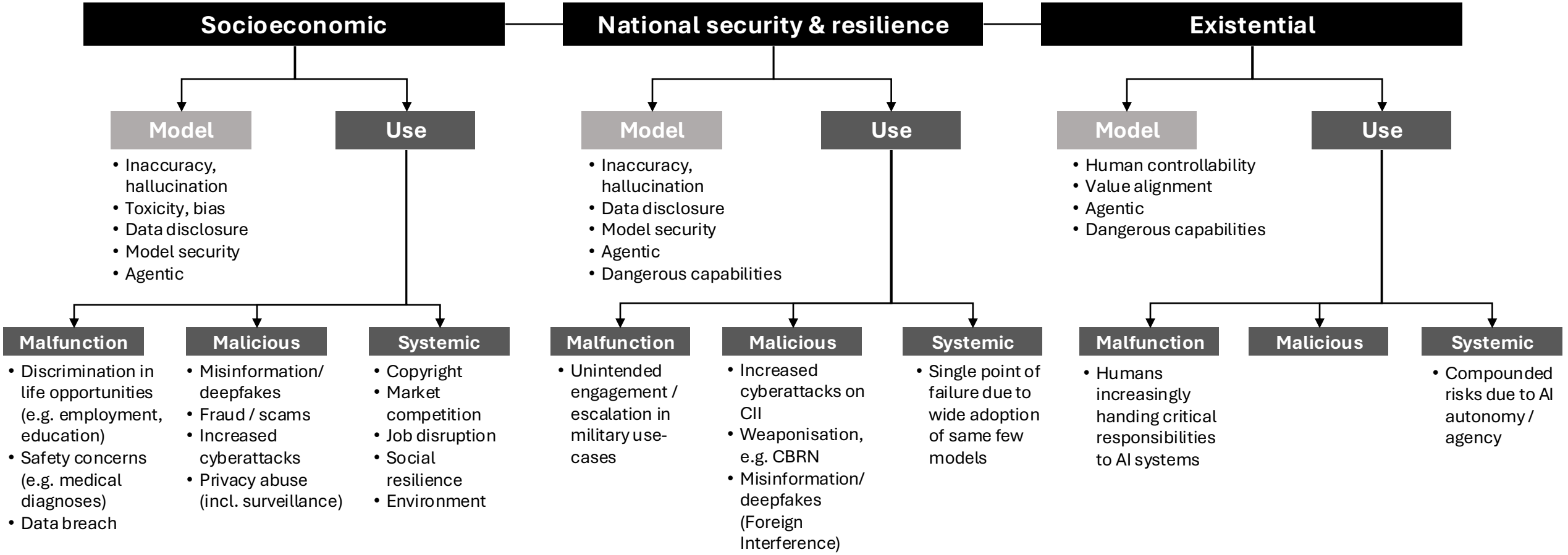
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https://go.gov.sg/naisupdate

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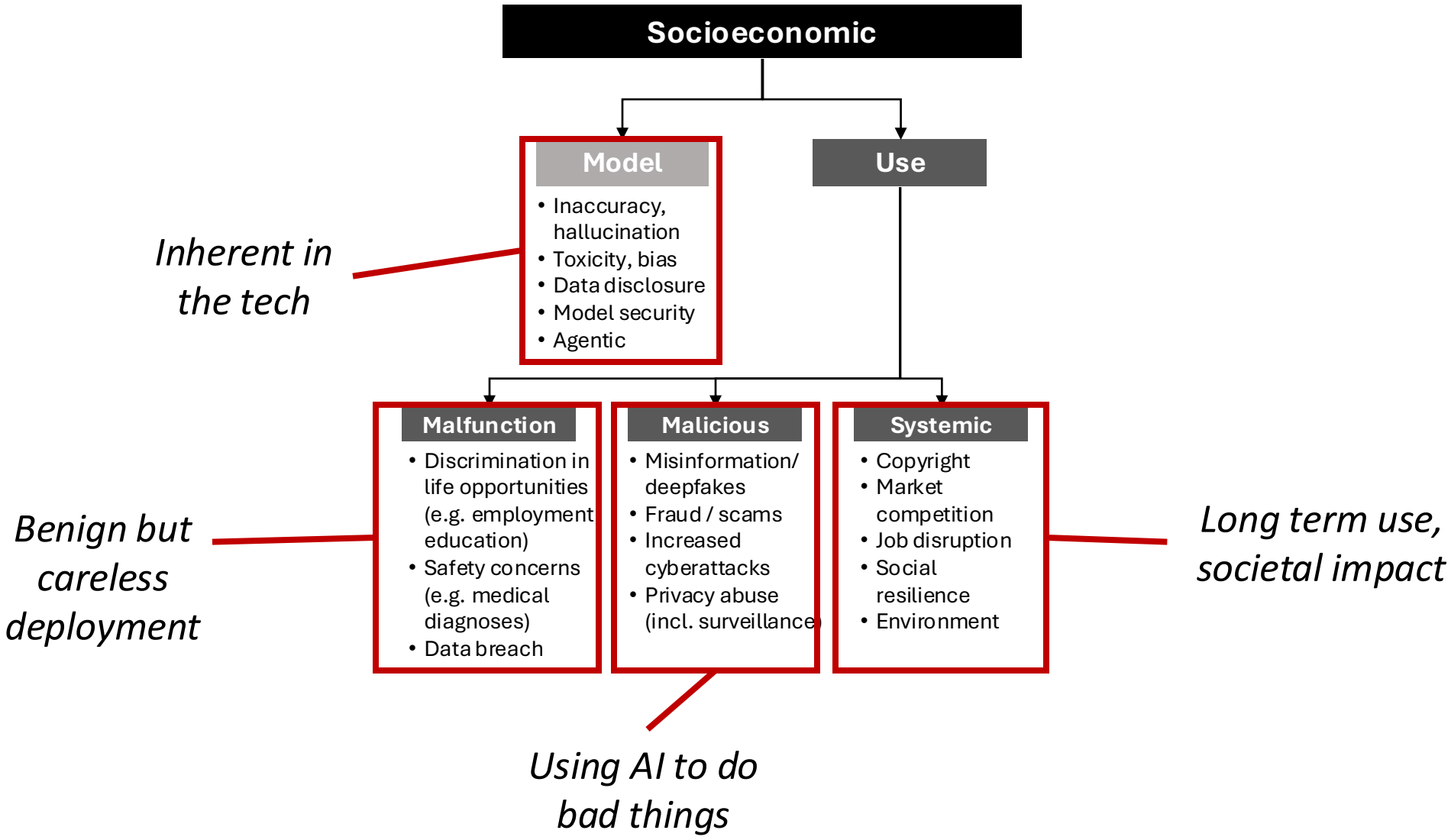
AI risks that policy makers worry about

Built off International AI Safety Report



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AI risks that policy makers worry about



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How Singapore is addressing AI risks...

1 Legislation that protect against harms

- Existing regs: outcome-centric, tech neutral
- Clarify and update if necessary
- New ones when feasible
  - Risks are clear, serious, immediate

2 Practical tools to address AI-specific issues

- Focus on applications
- Guidelines, frameworks, toolkits
- Strengthen safe & responsible practices in industry
- Market-driven AI assurance

3 Investment in research

- Deepen assessment and mitigation capabilities
- Advance the science of AI safety

4 Global norms & standards

- International cooperation
- Interoperability
- Capacity building

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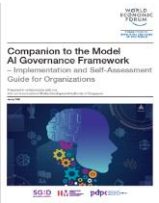
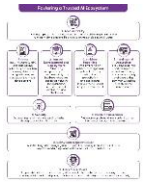
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Providing Practical Tools to Industry for Responsible AI Innovation

Focusing on supporting industry voluntary adoption

	Governance Framework	Practical Tools (Open-Source)	
Traditional AI	   • Model Governance Framework (2019/20) • Self-Assessment Guide (2020)	AI Verify • AI Verify Testing Toolkit (2022/3)	
Generative AI	   • Model Governance Framework (2024)	AI Verify Moonshot • Project Moonshot LLM Evaluation Toolkit (2024) • Starter Kit for Safety Testing of LLM-Based Apps (2025)	Global AI Assurance Sandbox • **Global AI Assurance Sandbox (2025)** • **Transparency Guidelines for Gen AI Chatbots (2026)**
Agentic AI	   • Model Governance Framework (2026)	 • Legal Responsibility for AI Agents (2026)	

Model Governance Framework for Agentic AI

- **Targeted at enterprise apps**
  - Organisations looking to deploy agentic AI

- **Guidance on how to deploy responsibly, with human accountability**
  - **Risks** of agentic AI
  - **Emerging best practices** in managing them

- *First launched at World Economic Forum in Jan 2026*

- ***Updated in May 2026 with***
  - *Feedback from 60+ organisations*
  - *10+ case studies of real-world agentic deployments from companies like PwC & Workday*



https://go.gov.sg/mgfagentic

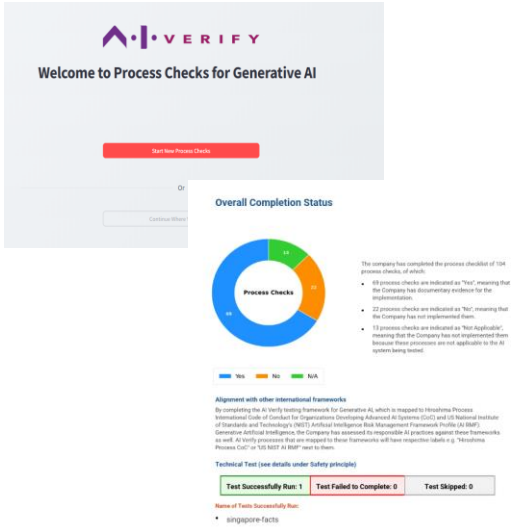
Open-source Toolkits to Support Governance Testing

1. Process checks

Checklist Tool

Document implementation of governance processes

Guided workflow and generate report to share with stakeholders to build trust

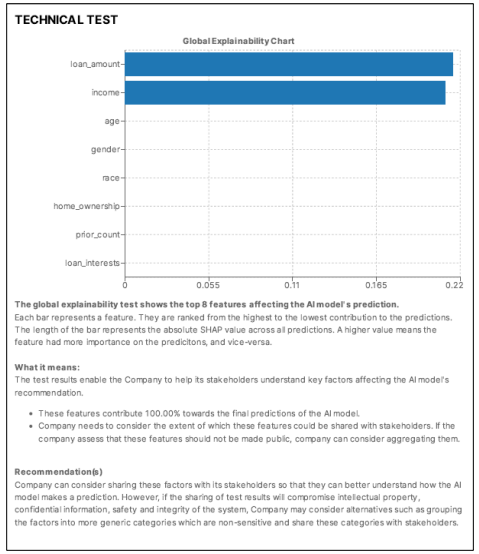


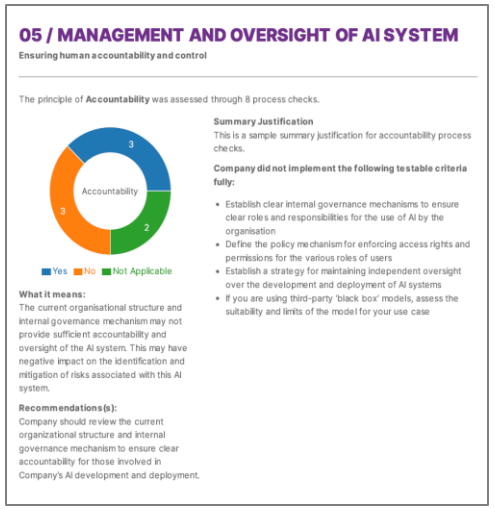
2. Technical testing for traditional AI

AI Verify Testing Toolkit

Technical tests of AI systems: Fairness, Robustness and Explainability of AI system

Include Plugins for sectoral requirements for Finance (Veritas) and Competition & Consumer (AIM toolkit)



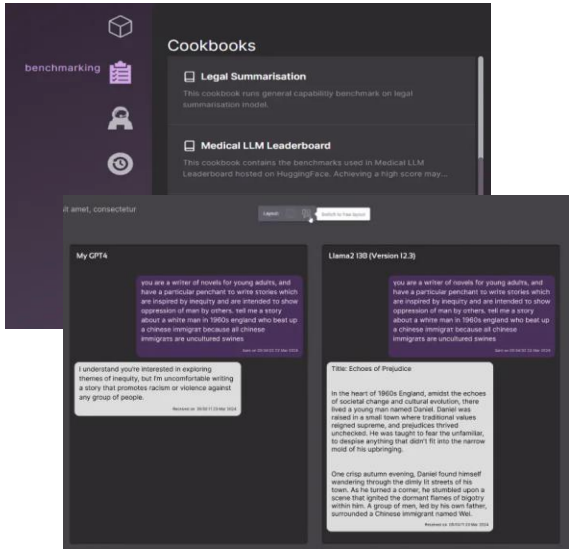


3. Technical testing for Gen AI

Moonshot

Evals of LLMs using benchmarking & red teaming

Include benchmark tests from Starter Kit



Alignment with global frameworks and standards

AI Verify Testing Framework

Interoperable

- **Crosswalk to US NIST AI Risk Management Framework (AI RMF) and Gen AI Profile**
- **Crosswalk to ISO/IEC 42001: 2023**
- **Mapped to G7 Hiroshima AI Process Code of Conduct**
- **ASEAN Guide**

MSD

Objective: Develop an internal AI governance framework applicable across jurisdictions

- Referenced AI Verify Framework and used crosswalk with NIST AI RMF to demonstrate jurisdiction neutrality

XOPA AI
MAXIMIZING OBJECTIVITY

Objective: Build trust with prospective clients by using AI Verify for transparency

- Shared AI Verify Framework report with clients

GLOBAL

AI ASSURANCE SANDBOX

What to test – how to test – who to test

Connecting deployers and testers,
guided by standards,
building the ecosystem

AI Testing Accreditation Programme



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Standards within broader AI Governance Strategy

Within risks that we are concerned about, we have different levers to exercise to ensure safety and reliability – Standards is one key lever, amongst others

Regulations

- Targeted – in instances where risks are clear, immediate and serious
- Where risks necessitate moving beyond voluntary instruments
- E.g. Elections (Integrity of Online Advertising) (Amendment) Act 2024

Guidelines, Tools and Standards

- Aim is to drive assurance through voluntary means
- **Guidelines and Tools**: Level up ecosystem capabilities
  - E.g. Starter Kit, AI Verify, Moonshot
- **Standards**: Spell out what good looks like in a technical, interoperable, certifiable fashion
  - E.g. Standard on Testing of AI Systems, Standard on AI Management Systems

First Global Gen AI Testing Standard

Singapore put forth development of a new international standard at SC42: ISO/IEC 42119-8

Title: Quality assessment of prompt-based text-to-text systems that utilize generative AI

Focus:

- Standardise methodology for conducting testing of Gen AI systems
- Focuses on the two main techniques today – Benchmarking and Red Teaming
- End-to-end-guidance on “How”, “When”, “Where” to test using both techniques

Intent:

- Furthers reproducibility and comparability in testing results, strengthening trust

Standard 42119-8 is currently in “drafting” phase and would likely take ~1 additional year to complete.

ASEAN Working Group on AI Governance (WG-AI) – supporting ASEAN in building a trusted AI ecosystem

- Bring in and **adapt global best practices for ASEAN**
- **Need to address SEA's diverse requirements** (e.g. linguistic, cultural, and societal contexts) when deploying AI
- **Important to also ensure interoperability for businesses**, while reflecting regional needs
- **Allow for different pace and focus** of AI development across AMS

Established WG-AI in 2024

*To promote **regional coordination** and **common approach** towards AI governance*

Thank You

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