A·I· VERIFY

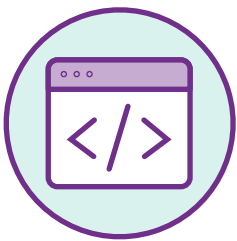## AI GOVERNANCE TESTING FRAMEWORK AND TOOLKIT

Using Artificial Intelligence (AI) in your organisation?

Be more transparent about your AI systems and build trust with your stakeholders
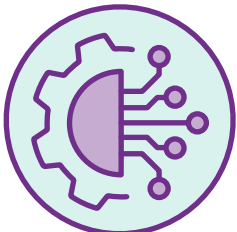
WHAT DOES IT INCLUDE?

Testing Framework covers 11 key internationally accepted AI ethics principles
- Addresses 5 major areas of concerns for AI systems
- Minimum Viable Product (MVP) starts with **8 principles**
- Self-assessment through technical tests and process checks

Single integrated toolkit
- Guided workflow for technical testing of Explainability, Robustness and Fairness
- Easily deployed in developer/user's environment

Verifies claimed performance of AI systems
- Works with supervised AI models
- Does not define ethical standards (i.e., no pass or fail)

FRAMEWORK BASED ON INTERNATIONAL AI ETHICS PRINCIPLES

TRANSPARENCY ON USE OF AI AND AI SYSTEMS
Ensuring consumer awareness on use and quality of AI systems

▶ **Transparency**

UNDERSTANDING HOW AI MODEL REACHES DECISION
Ensuring AI operation/ results are explainable, accurate and consistent

▶ **Explainability**   ▶ **Repeatability/Reproducibility**

SAFETY & RESILIENCE OF AI SYSTEMS
Ensuring AI system is reliable and will not cause harm

▶ **Safety**   ● **Security**   ▶ **Robustness**

FAIRNESS/NO UNINTENDED DISCRIMINATION
Ensuring that use of AI does not unintentionally discriminate

▶ **Fairness**   ● **Data governance**

MANAGEMENT AND OVERSIGHT OF AI
Ensuring human accountability and control

▶ **Accountability**   ▶ **Human agency and oversight**
● **Inclusive growth, societal and environmental well-being**

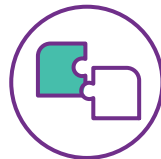▶ **8 principles in MVP**

JOIN PILOT TEST TO

Gain early access to the Testing Framework and Toolkit

Build trust with your stakeholders with reports generated by our Toolkit

Help shape regulator-developed Testing Framework and enhance Toolkit with industry best practices and benchmarks

Contribute to international standards development

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3 SIMPLE STEPS TO PILOT TEST

1. INSTALL
Download Toolkit, prepare AI model and datasets

2. INITIALISE
Add model and data, adjust testing parameters

3. IMPLEMENT
Run tests, complete process checks, view test results and reports

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Find out more at
go.gov.sg/aiverify