



AI GOVERNANCE

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DISCLAIMER

The views and opinions expressed in these slides are those of the presenter and do not necessarily reflect the views of BSIDES or any other company or organisation.



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WHO AM I

- 20 years' experience in ICT Audit, Governance, Risk, Compliance
- CISA, CRISC, CISM certified
- Undertaking a Diploma in Advanced Banking Risk Management with the Institute of Banking
- Chair of nonprofit Intercultural Language School
- Director of Cyber for Schoolgirls
- Committee Member of Swimming Club
- Mother and wife
- I love travelling and swimming

AGENDA

- **Background** of NIST AI RMF
- **AI Risks**
- **NIST AI Risk Management Framework (RMF)**
- **Key Components of the Framework**
- **Case Study**



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BACKGROUND

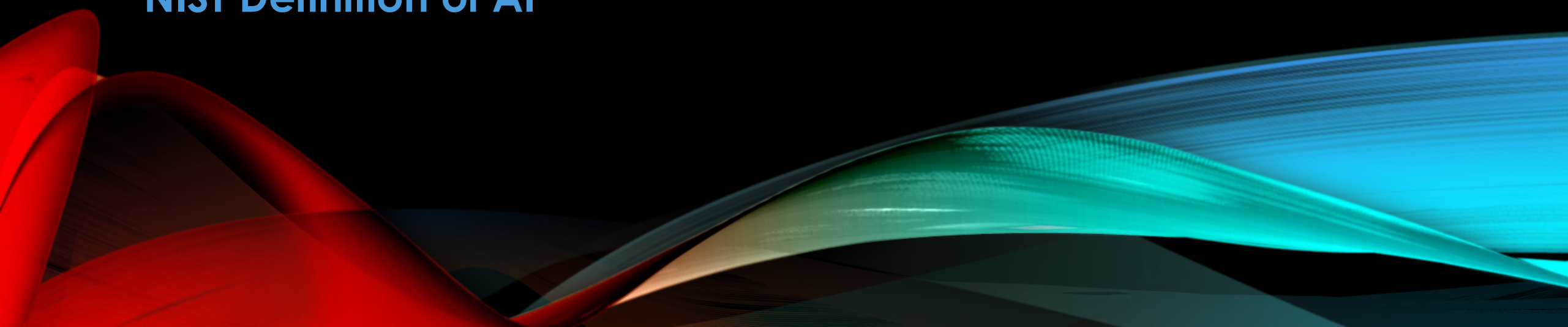
- NIST developed the AI RMF 1.0 in 2023
- It is the result of collaboration among private companies, government agencies, academia and non-profit organisations
- Increases TRUST in AI technology
- Helps to Mitigate AI risks



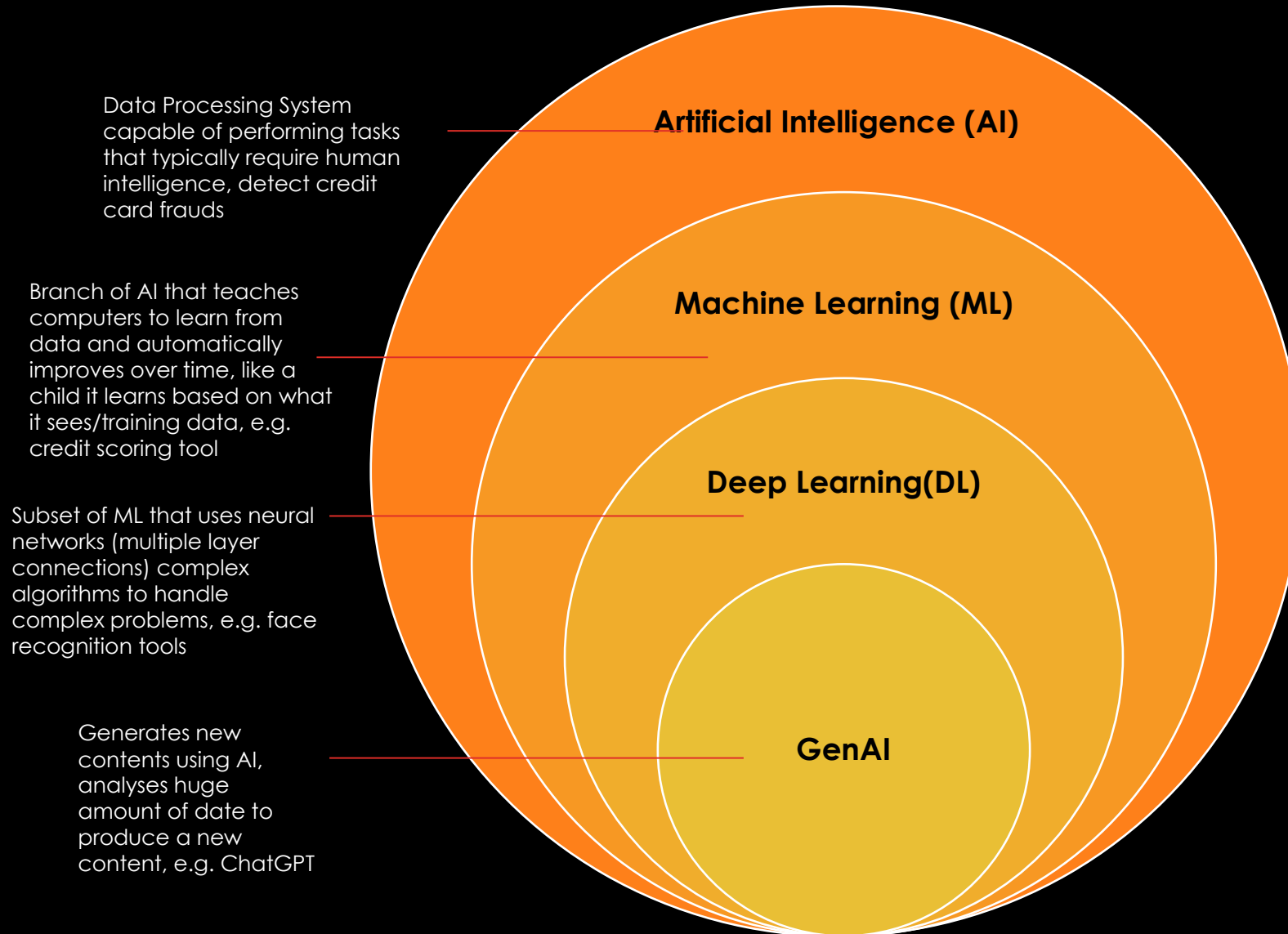
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**“ A BRANCH OF COMPUTER SCIENCE DEVOTED TO
DEVELOPING DATA PROCESSING SYSTEMS THAT
PERFORM FUNCTIONS NORMALLY ASSOCIATED TO
HUMAN INTELLIGENCE, SUCH AS REASONING,
LEARNING, AND SELF-IMPROVEMENT ”**

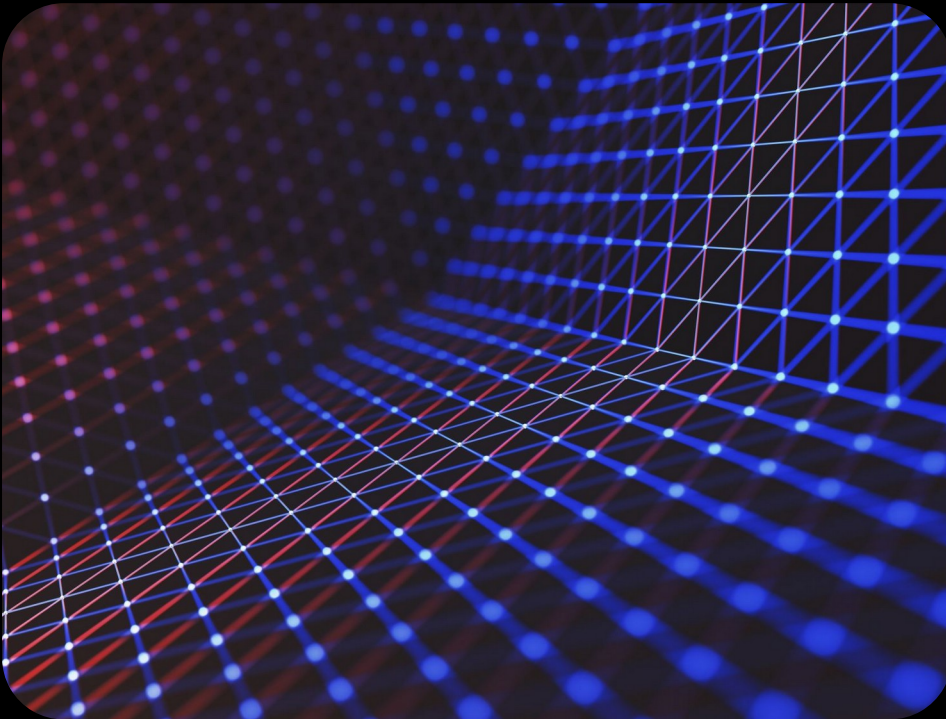
NIST Definition of AI



AI, ML, DL, GENAI



IMPORTANCE OF AI



- Impacting every sector
- Enhancing Risk Management, Fraud Detection
- Improving Cyber Security & Threat Detection
- Increasing Operational Efficiency & Automation
- Personalised and Automated Customer Support
- Increasing Demand for AI Risk Governance Skills

WHY AI RISK MANAGEMENT?

Real Life AI Incidents



AI Generated Image

AI RISKS

Ethical Risk (Bias & Discrimination)

Governance Risk
(Lack of Transparency & Accountability)

Concentration Risk

Operational Risks
(Model inaccuracy, automation failures)

Regulatory & Legal Risk

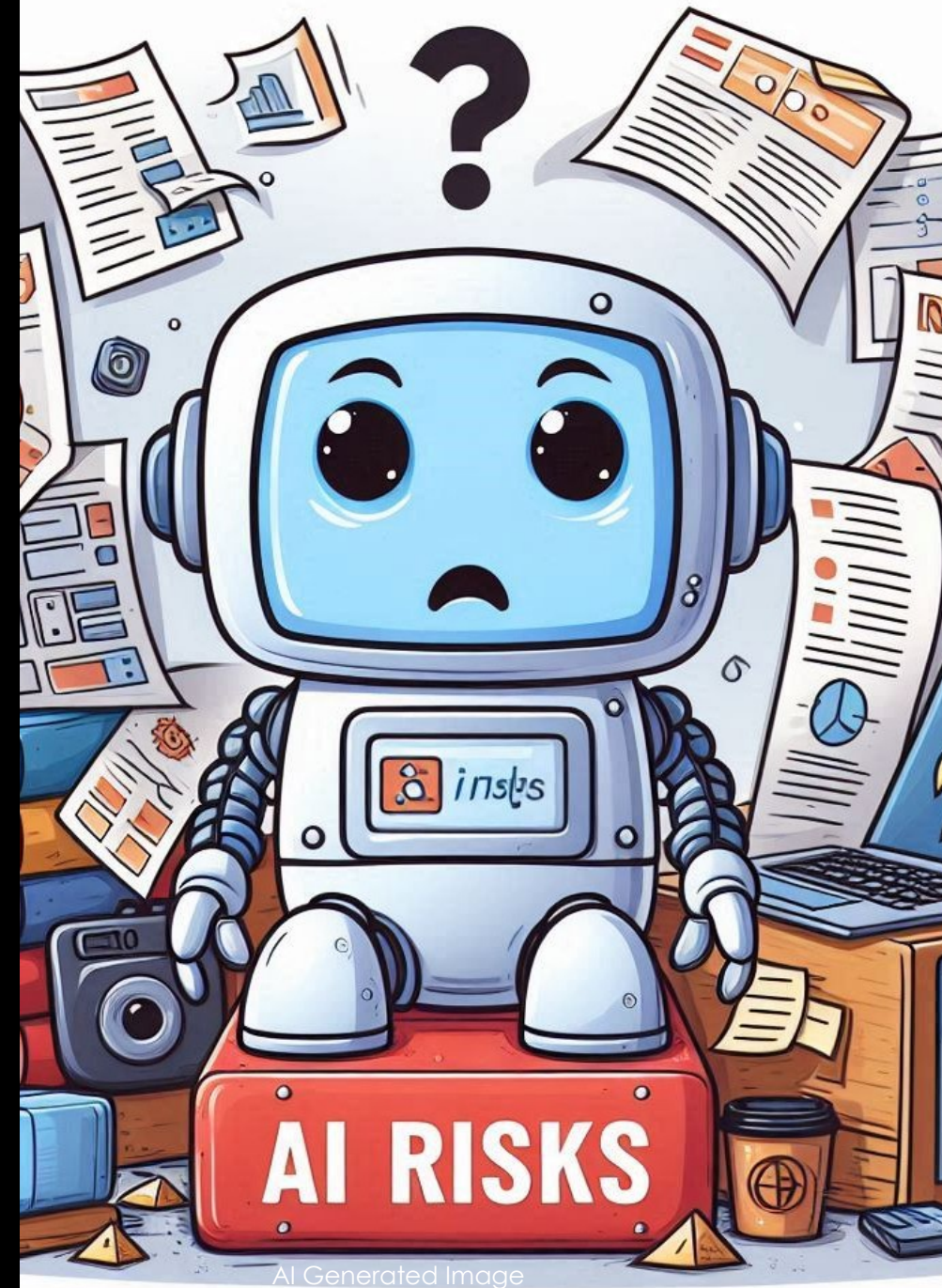
Credit Risk

Strategic Risk
(Misguided Strategies & Risk Assessments)

Cybersecurity Risks

Reputation Risk

Environmental Risk



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NIST AI RMF CORE

Technology
Agnostic

Vendor
Agnostic



Data source: NIST AI RMF

GOVERN AI

1. Include the AI in the ICT RMF
2. Document an AI strategy, policy, standards and procedures
3. Raise awareness with AI customised training
4. Define roles and responsibilities
5. Document a governance structure



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MAPPING



INVENTORY OF AI SYSTEMS
AND TOOLS



DOCUMENT THE WHY, WHAT,
WHEN, WHERE AND WHO



IDENTIFY THE BENEFITS OF
EACH AI SYSTEM/TOOL

MEASURE AI RISKS

1. Determine a Risk Assessment Methodology
2. Risk Assess each AI system/tool
3. Define and Measure KRIs and KPIs
4. Continuous Monitoring of risk exposures
5. Review and Update your methodology and results when needed



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MANAGING AI RISKS

1. Document Risk Mitigation Plans for risks exceeding the risk appetite
2. Monitor and Report on the progress of the RMP
3. Regular Review and Adjustment of Risks
4. Update existing policy and methodology based on lessons learned



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A decorative graphic on the left side of the slide, featuring a vibrant red background with a green, curved, ribbon-like shape that spirals upwards. The red area has a subtle pattern of concentric circles.

CASE STUDY

Company Infinity decides to implement the NIST AI RMF to enhance their risk management around AI.

1. Infinity organises workshops and **training** around the NIST AI RMF
2. A **sponsor** from senior management is identified, e.g. CEO
3. The **ICT RMF** is updated to include AI and **AI strategy, policy, standards** and **procedures** are **documented**
4. **An organisational structure for AI is defined**, roles and responsibilities
5. The risk or IA function organise corroborative interviews with developers and representative of all departments to **map all existing AI systems and tools – AI inventory**
6. The risk function defines a methodology for AI risk assessment and **start documenting risks for each AI systems/tools** in the AI inventory
7. The risk function together with the AI system owners and/or risk owner develop **KRIs**. The AI system owners develop **KPIs**. Metrics are **reported** to the relevant committees/stakeholders.
8. **Risk Mitigation Plans** are documented and reported for risks exceeding Infinity's risk appetite.
9. The process and documentation are enhanced based on lessons learned.

OUTCOMES FOR THE FIRM



INCREASED TRUST



IMPROVED RISK
MANAGEMENT



COMPLIANCE



STRATEGIC USE
OF AI



INCREASED
OPERATIONAL
RESILIENCE



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THANK YOU

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