

Cybersecurity | Project Management | Software Development | IT Consulting | Document Digitalization

Camara de Comercio de Puerto Rico 8 Mayo 2024

Top Strategic Technology Trends 2024

Technologies Drive Much-Needed Business Outcomes

Optimize

Optimizing IT systems for greater reliability, improving data-driven decision making and maintaining value integrity of AI systems in production

Related Trends:

Digital Immune System

Applied Observability

AI TRISM

Scale

Accelerating vertical offerings, increasing the pace of product delivery and enabling connectivity everywhere

Related Trends:

Industry Cloud Platforms

Platform Engineering

Wireless-Value Realization

Pioneer

Enabling business model change, reinventing engagement with employees and customers, and accelerating strategies to tap new virtual markets

Related Trends:

Superapps

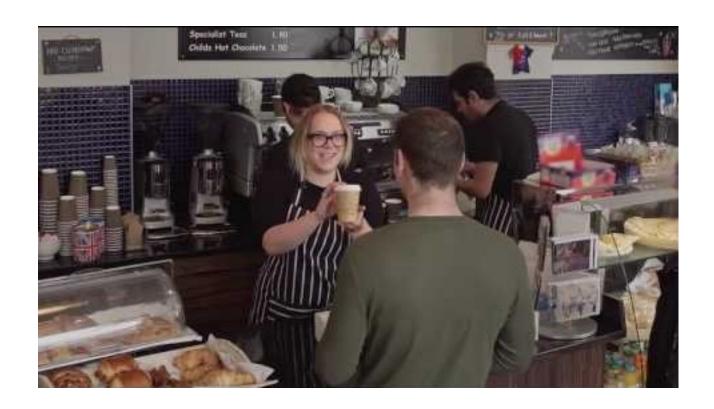
Adaptive Al

Metaverse

Sustainable Technology



https://www.youtube.com/watch?v=yrjT8m0hcKU&t





- Immune System The immune system is a network of cells, organs, proteins, and chemicals that protects the body from infection. It also protects the body's own cells.
- **Digital Immune Systems** A digital immune system (DIS) is a set of technologies and processes that help protect an organization's systems and information from cyberattacks. A DIS protects against data breaches and other security incidents. It also helps to reduce system failures that impact business performance.



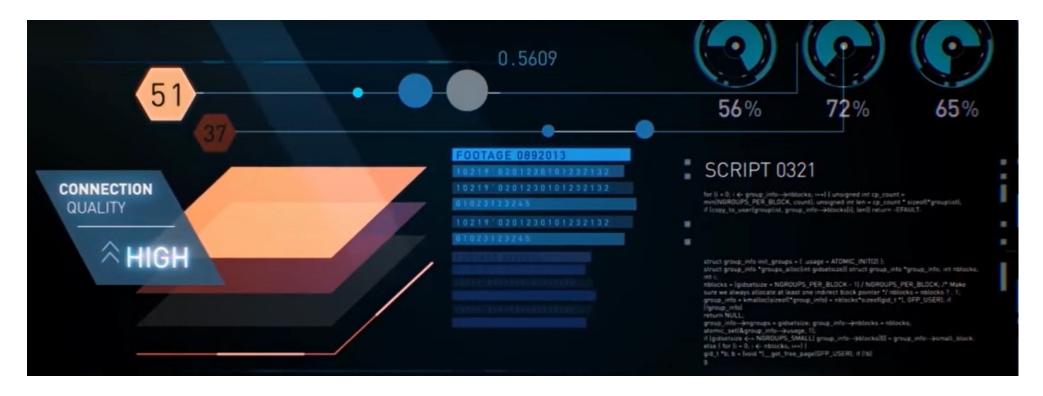






Biological Immune Systems (BIS) protects the human body from outside invaders





Digital Immune Systems (DIS) mitigates and responds to business risks by combining different software practices, technologies and data analytics in real time.





Digital Immune Systems implementation requires extensive use of artificial intelligence, data analytics and machine learning.

The combination of these technologies will protect your applications and services from failures or anomalies



Elements of a Digital Immune System



Chaos Engineering

A form of preventative medicine that identifies and corrects problems prior to their causing severe damage



Why should companies adopt the digital immune system?



Offers an exceptional user interface and reduces failures



Provides
defensive actions
and reduces
downtime



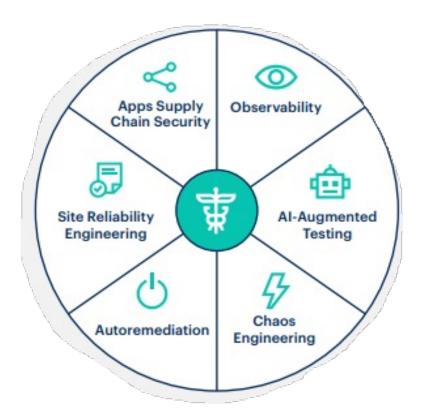
Enhances overall software quality and reduces maintenance costs



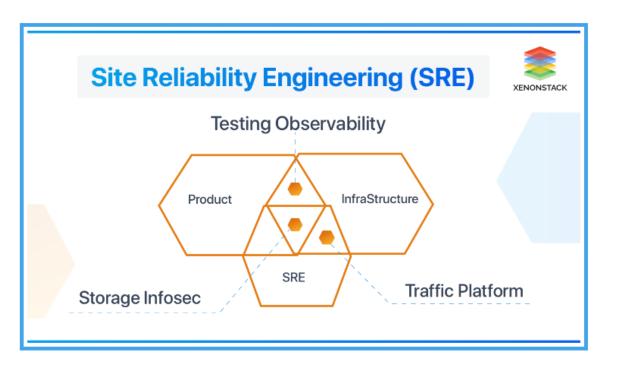
Establishes a secure online environment

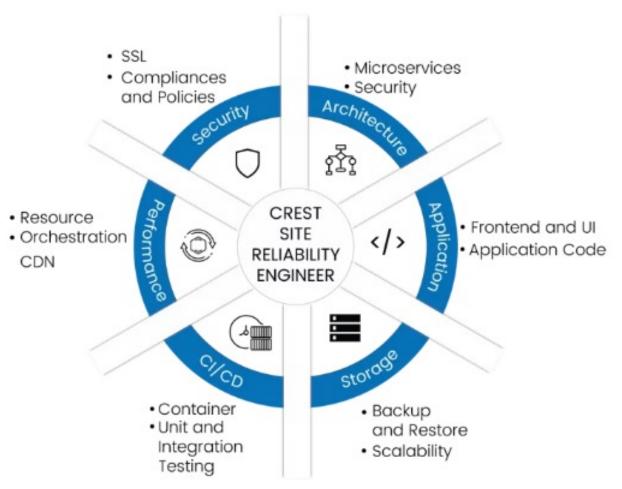


Delivers actionable insights and threat prevention methods

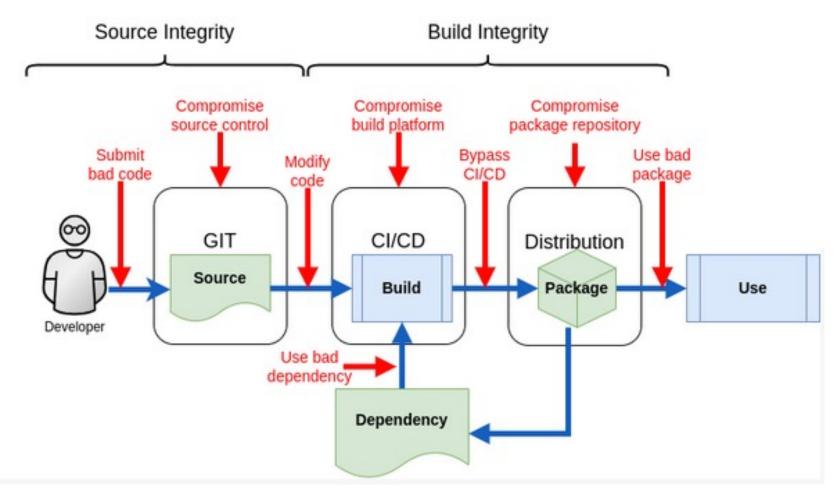
















MOST Trust, Risk & Security Management







Threat Vector

Types of Damage

MOST Measures

Human / Human controlled Bots Error, Social Engineering, Compromise

Theft of Data, Money, Intellectual Property

Trustworthiness Enterprise Risk Mgt. Responsible Al, Bias Mitigation Fairness, Explainability

System Faults Vulnerability, Exploit, Process Error

Asset (human, physical, system) Damage or Manipulation

Enterprise Security

Network & Endpoint Security, IAM, Data Protection ...

Query Attacks Challenge/Response

Model Manipulation or Theft via Inversion, Malicious Training. Altered Business Rules, Mistakes

ModelOps: Al Model Integrity Model Hardening, Tracking, Lineage, Auditing, Validation Checks

Malicious Inputs, Benign Mistakes Pertubations

Data Poisoning

Model Data

ModelOps: Al Data Integrity

Data Drift, Data Poisoning Detection Data Bias Detection

Digital, Physical (behavior)

Data Drift, Data Bias

Gartner.

Pre-existing



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Key Takeaways:

- A digital immune system creates a superior CX and UX by being more resistant to failures.
- A digital immune system combines practices and technologies to increase the resilience of products, services and systems.
- Take into consideration how much business value a DIS creates for both business and IT stakeholders.



What benefits does it offer:

- Resolve bugs instantly
- High level security
- Improve the customer experience



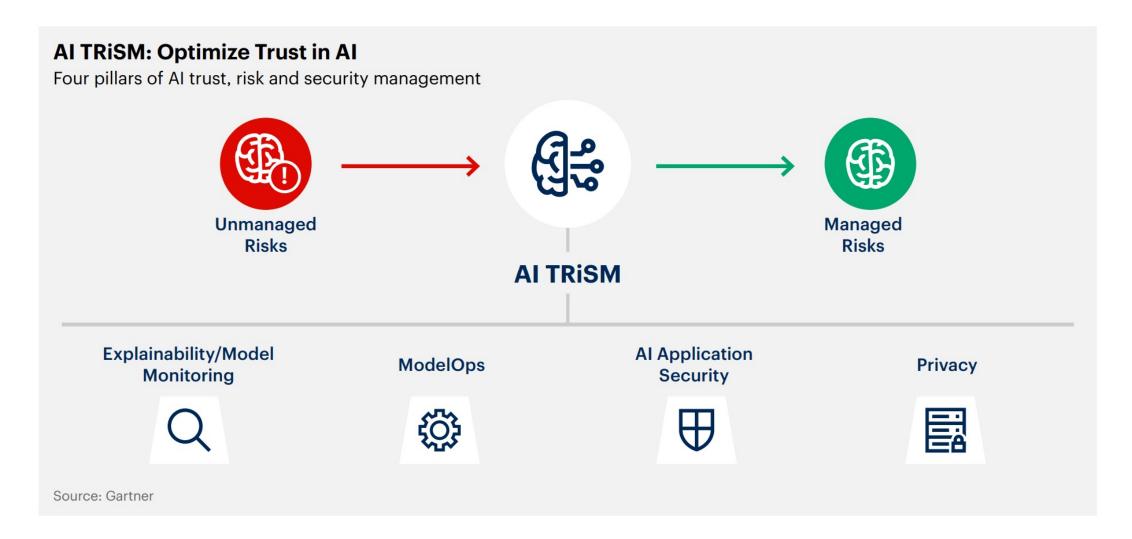


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AI TRISM





AI TRISM

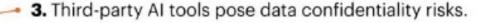
6 Reasons

AITRISM

You Need an AI Trust, Risk, Security Management (TRiSM) Program

 Most people can't explain what AI is and does to the managers, users and consumers of AI models.

> Anyone can access nonproprietary generative AI tools, including employees using AI developed by third parties.



4. AI models and apps require constant monitoring.

Detecting and stopping adversarial attacks on AI requires new methods.

Regulations will soon define compliance controls.







AI TRISM

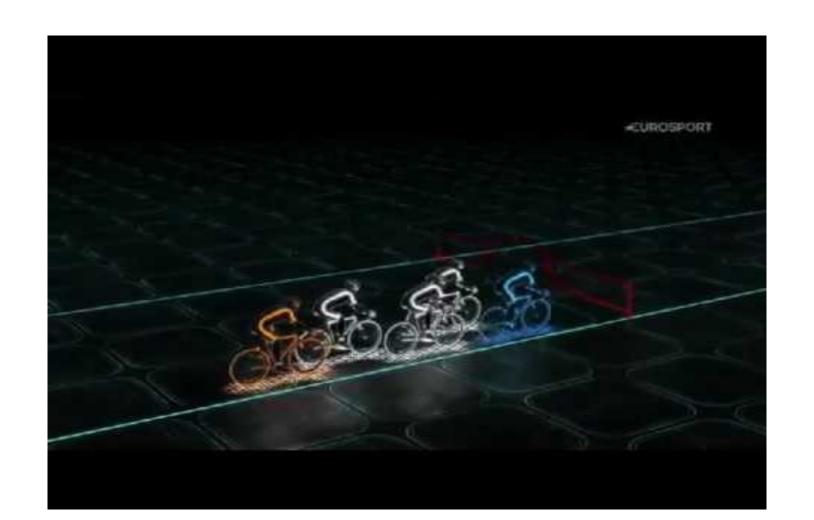
3 things to tell your peers

- 1. Al TRiSM capabilities are needed to ensure the reliability, trustworthiness, security and privacy of Al models.
- 2. They drive better outcomes related to AI adoption, achieving business goals and ensuring user acceptance.
- 3. Consider AI TRISM a set of solutions to more effectively build protections into AI delivery and establish AI governance.



Strategy & Plan – How to win a Cycling Sprint

https://www.youtube.com/watch?v=mCqmIPRhzss&t





COOPOCHUN

Thanks!
William Bonaparte