

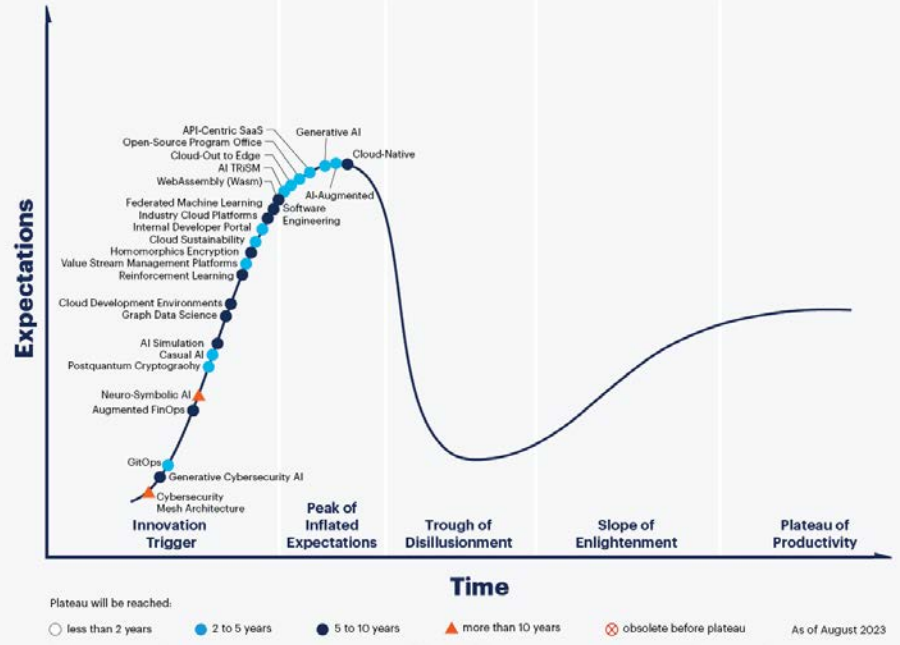


Technology trends

What? is related to technology trends

- ◆ Motivation
- ◆ Evolution/Revolution
- ◆ Innovation
- ◆ Disruption
- ◆ Transformation

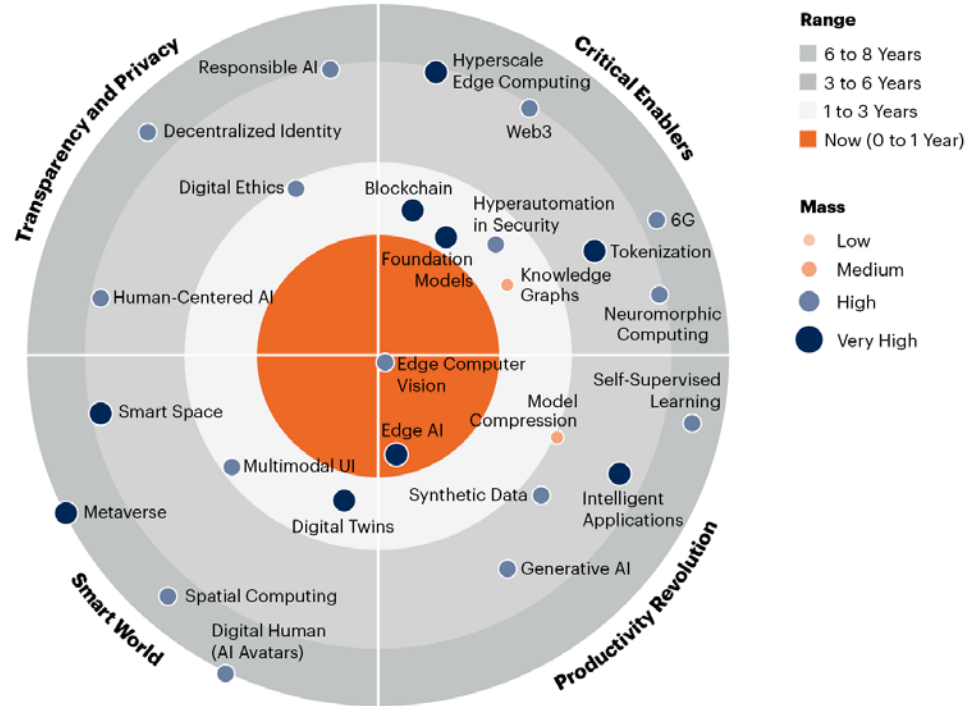
Hype Cycle for Emerging Technologies, 2023

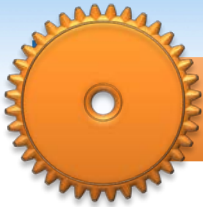


<https://www.gartner.com/en/articles/what-s-new-in-the-2023-gartner-hype-cycle-for-emerging-technologies>

Emerging Technologies Trends Impact Radar

- ◆ Smart world
- ◆ Productivity revolution
- ◆ Transparency and privacy
- ◆ New critical technology enablers

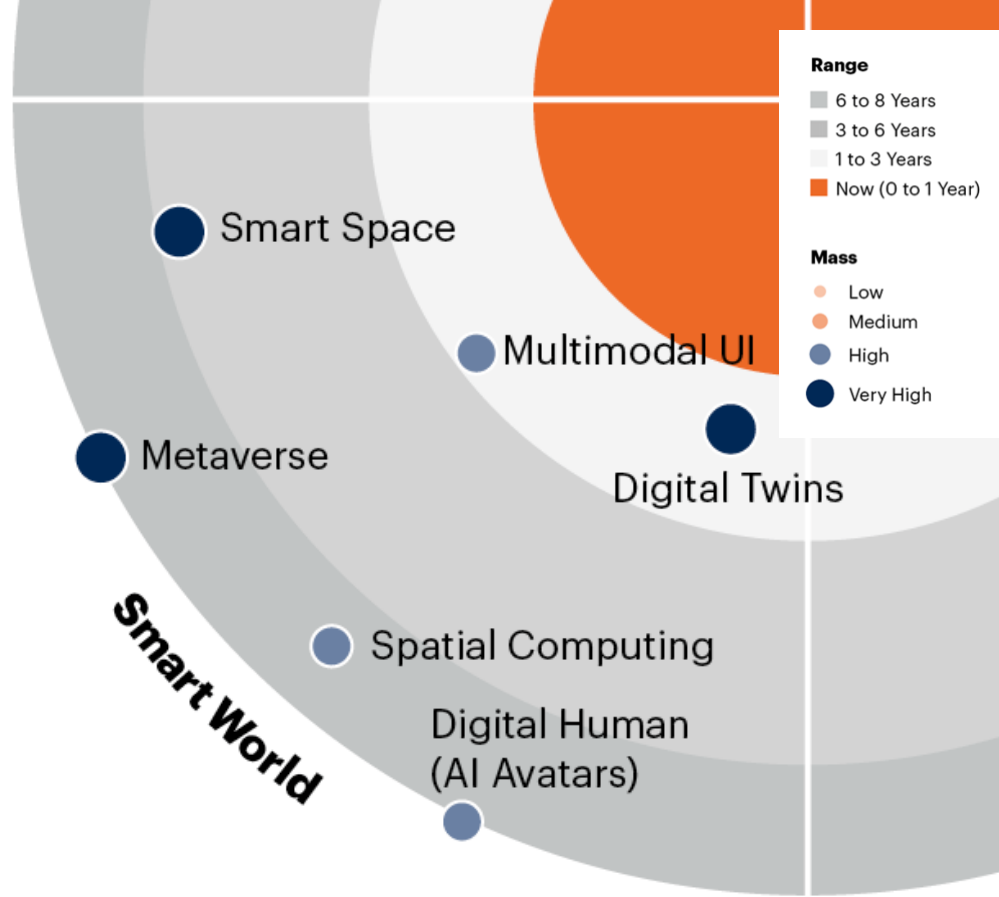




Smart world



expands with increased fusion of physical-digital experiences



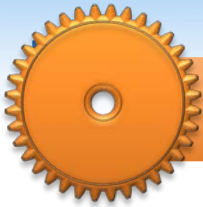
Range

- 6 to 8 Years
- 3 to 6 Years
- 1 to 3 Years
- Now (0 to 1 Year)

Mass

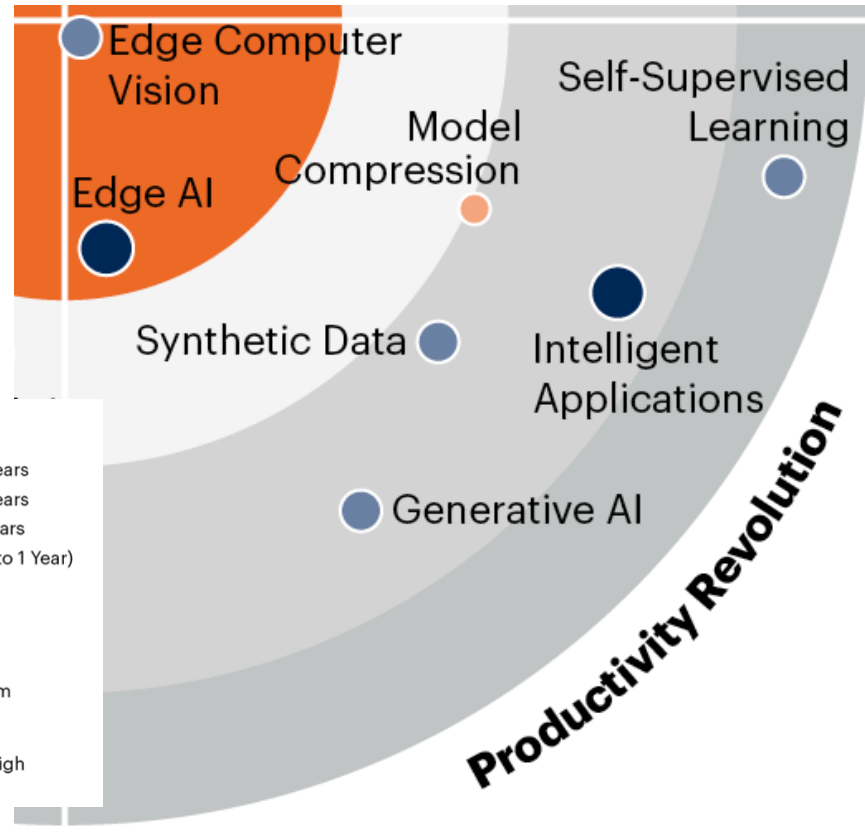
- Low
- Medium
- High
- Very High

Smart World



Productivity revolution

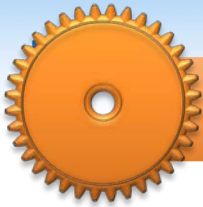
accelerates with advances in artificial intelligence (AI) tools and technology



Range
■ 6 to 8 Years
■ 3 to 6 Years
■ 1 to 3 Years
■ Now (0 to 1 Year)

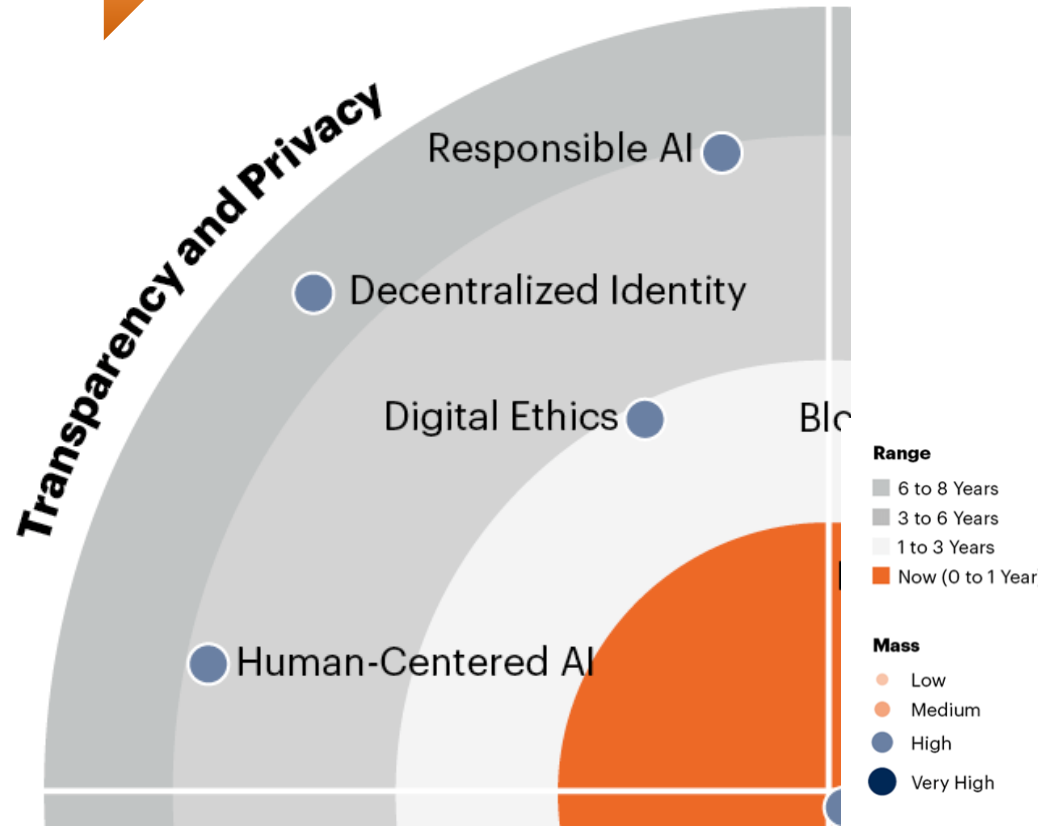
Mass
● Low
● Medium
● High
● Very High

Productivity Revolution



Transparency and privacy

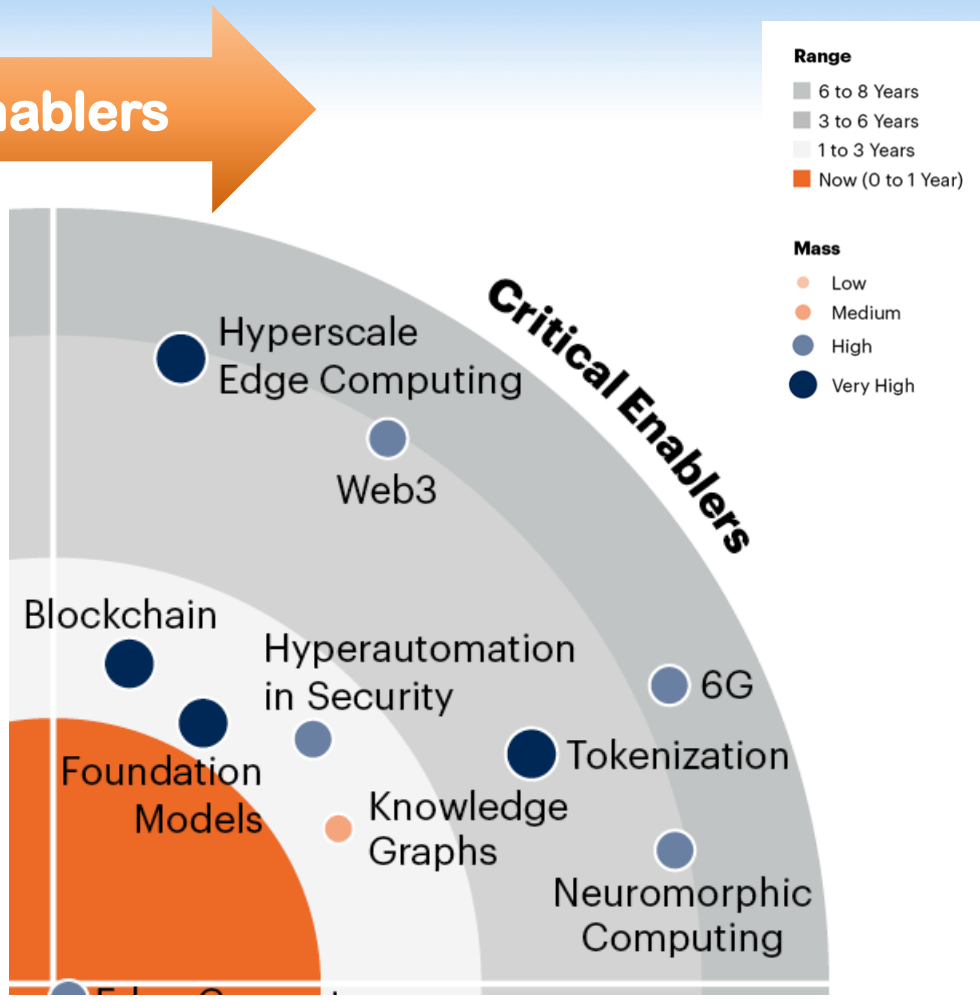
get more scrutiny amid exponential growth in corporate and personal data collection





New critical technology enablers

create new business and monetization opportunities





Emerging Technologies

**Artificial Intelligence
(AI)**

**Cloud
technology**

Metaverse

**Web3
6G**

Blockchain



Autonomous system

Chat GPT

Machine Learning

Natural language

Artificial Intelligence (AI)

Robot

AR

VR

Metaverse

Image processing

Cloud computing

Cloud technology

Cloud storage

Web3

6G

IOT

Cryptocurrency

Smart contract

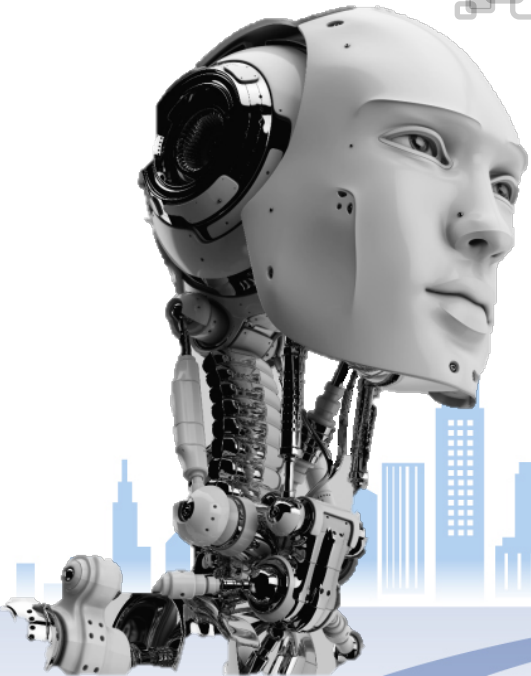
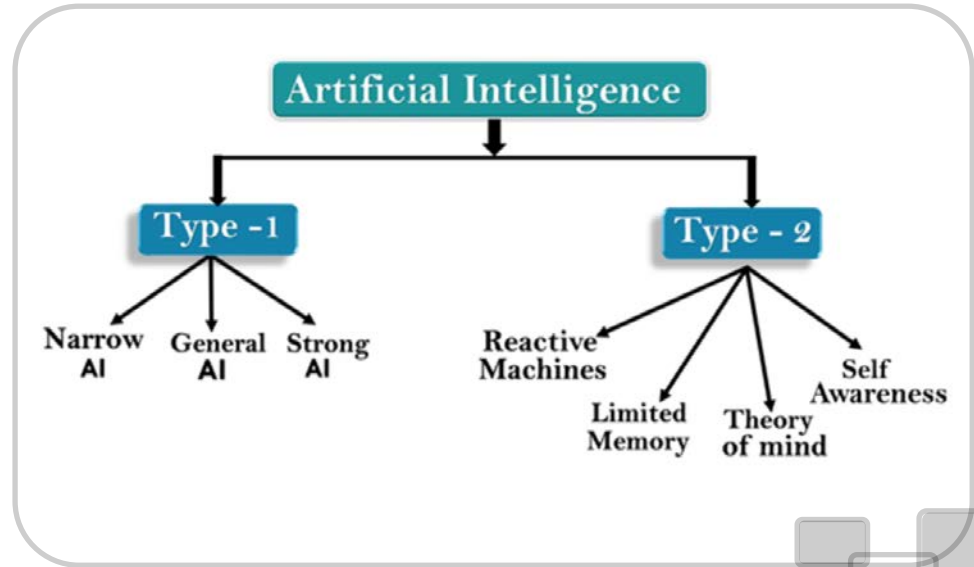
Blockchain

Bitcoin

NFT



Type of AI



Narrow AI (Weak AI)

able to perform a dedicated task with intelligence (Apple Siri)

General AI

could perform any intellectual task with efficiency like a human

Super AI (Strong AI)

can perform any task better than human

Reactive machines

do not store memories or past experiences for future actions (Google's AlphaGo)

Limited memory machines

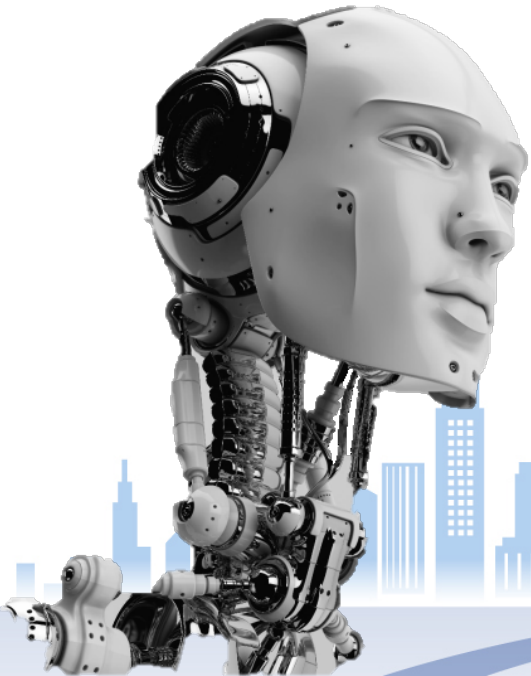
can store past experiences or data for a short period of time (Self-driving cars)

Theory of Mind AI

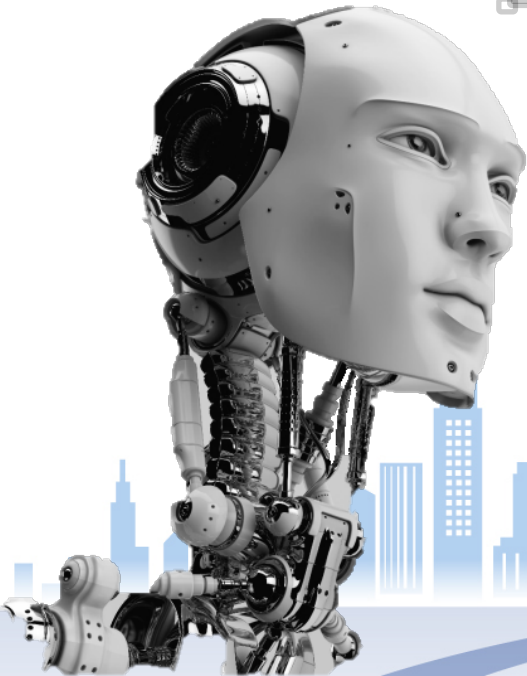
understand the human emotions, people, and be able to interact socially like humans

Self-awareness AI

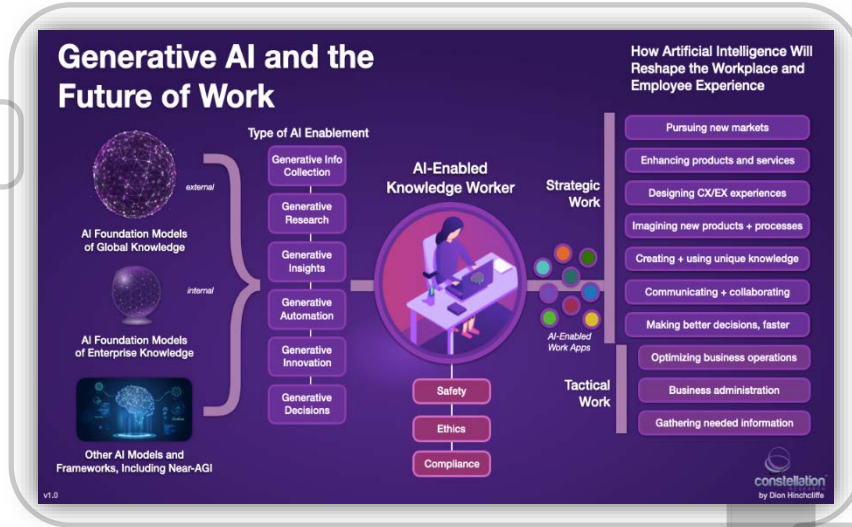
the future of AI, super intelligent, and will have their own consciousness, sentiments, and self-awareness



Adaptive AI



Generative AI and the Future of Work



Chat AI



Cloud technology



CLOUD STORAGE FOR BEGINNERS


OneDrive
5 GB


iCloud
5 GB


Google Drive
15GB


Dropbox
2 GB

Metaverse

- A network of 3D virtual worlds (Augmented reality: AR)
- Focused on social connection

The Metaverse and How We'll Build It Together -- Connect 2021



[Metaverse Slides](#)

@12.48 Kyoto Concert

Blockchain



Smart
contract



Cryptocurrency



Digital Thai baht:
Central Bank Digital Currency (CBDC)





Top 10 Strategic Technology Trends

Optimizing

- ◆ Digital Immune System
- ◆ Applied Observability
- ◆ AI TRISM: AI Trust, Risk and Security Management

- ◆ Industry Cloud Platforms
- ◆ Platform Engineering
- ◆ Wireless-Value Realization

Scale

Pioneering

- ◆ Superapps
- ◆ Adaptive AI
- ◆ Metaverse

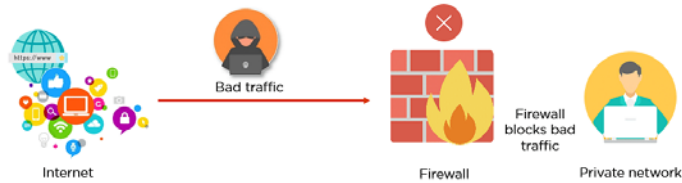
Sustainable

- ◆ Sustainable Technology



Digital Immune System

creates an enhanced customer experience by combining multiple software engineering strategies to protect against risk

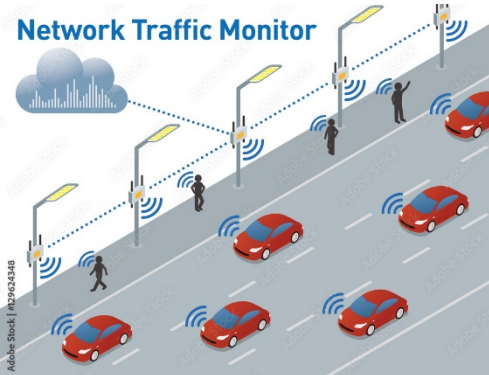
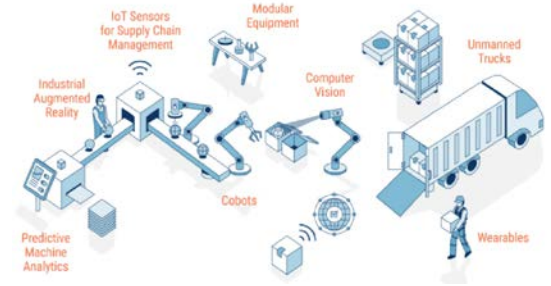


- ◆ firewalls
- ◆ intrusion detection
- ◆ prevention systems
- ◆ antivirus software
- ◆ vulnerability scanners

Applied Observability

using AI to analyze and make recommendations, which allow an enterprise to make faster and more accurate future decisions

FACTORY OF THE FUTURE



- ◆ Monitoring
- ◆ Troubleshooting complex systems
- ◆ Expert system

AI TRISM: AI Trust, Risk and Security Management

combines methods for explaining AI results, rapidly deploying new models, actively managing AI security, and controls for privacy and ethics issues

- ◆ drive innovation
- ◆ improve outcomes
- ◆ create value for
businesses and society

Industry Cloud Platforms

combine SaaS, PaaS and IaaS with tailored, industry-specific functionality that organizations can use to more easily adapt to the relentless stream of disruptions in their industry

CLOUD STORAGE FOR BEGINNERS



- ◆ **Salesforce Health Cloud**
for the healthcare industry
- ◆ **Oracle Financial Services Cloud**
for the finance industry
- ◆ **Microsoft Dynamics 365**
for Retail for the retail industry

Platform Engineering

provides a curated set of tools, capabilities and processes that are packaged for easy consumption by developers and end users

- ◆ Spotify
- ◆ Uber
- ◆ Salesforce



Wireless-Value Realization

covers the provision of wireless network services from everything. Such networks go well beyond pure connectivity, providing location and other real-time information and insight from analytics



- ◆ Wi-Fi
- ◆ cellular networks
- ◆ satellite communications
- ◆ for mobile devices



Superapps

combines the features of an app, a platform and an ecosystem in one application, providing a platform for third parties to develop and publish their own miniapps on



Grab

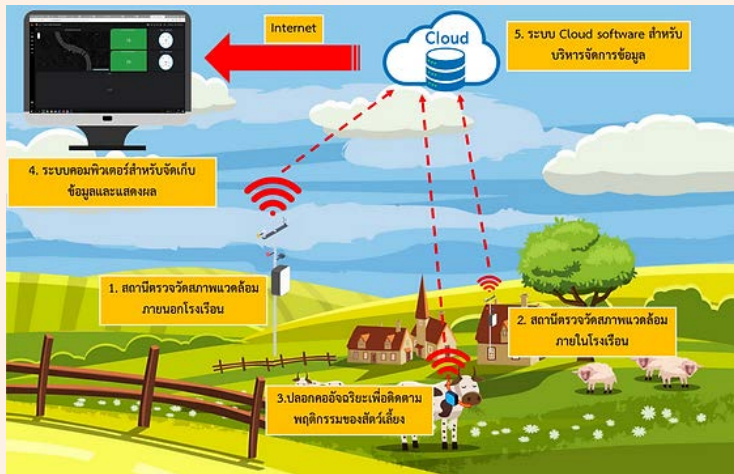
- ◆ Alipay
- ◆ AirAsia
- ◆ Grab
- ◆ Taobao



淘宝网
Taobao.com

Adaptive AI

allows for model behavior change post-deployment by using real-time feedback, to continuously retrain models and learn within runtime and development environments



- ◆ Industrial monitoring
- ◆ Agricultural surveillance
- ◆ Fraud and anomaly detection

<https://www.techtarget.com/searchenterpriseai/tip/Explore-real-world-use-cases-for-adaptive-AI>

Metaverse

allows people to replicate or enhance their physical activities. This could happen by transporting or extending physical activities to a virtual world or by transforming the physical one



- ◆ Working
- ◆ Conference
- ◆ Education
- ◆ Entertainment



Smart glasses

Sustainable Technology

is a framework of solutions that increases the energy and efficiency of IT services; enables enterprise sustainability through technologies like traceability, analytics, emissions management software and AI; and helps customers achieve their own sustainability objectives

- ◆ [Walmart](#)
- ◆ [Patagonia](#)
- ◆ [Mega City of NEOM](#)
- ◆ [Microsoft](#)

