

**From FAANG to MANTA  
Key tech trends that matter?**

**Howie Lau**

## 3 Truths about Tech

**Fast will be Faster. Offline to online. Tech will become invisible**



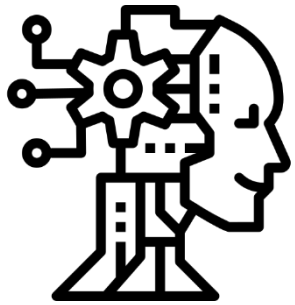
**FAANG** is an acronym referring to the stocks of the five most popular and best-performing American technology companies. Facebook; Amazon; Apple; Netflix; and Google



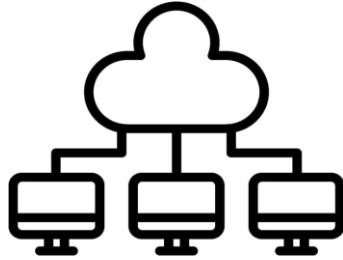
**MANTA** is an acronym for Microsoft, Amazon, Nvidia, Tesla, and Alphabet (Google).



# Key Tech trends (for now)



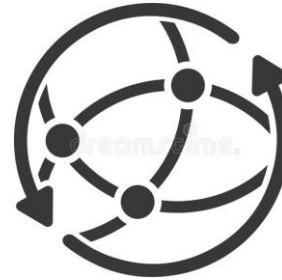
**Applied AI**  
(\$165B)\*



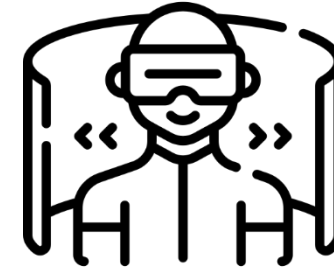
**Cloud & Edge Computing**  
(\$136B)\*



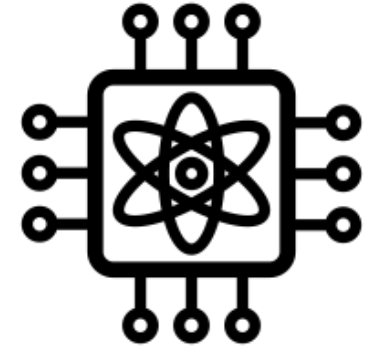
**Web3**  
(\$110B)\*



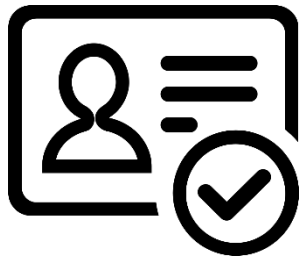
**Advanced Connectivity**  
(\$166B)\*



**Immersive Reality**  
(\$30B)\*



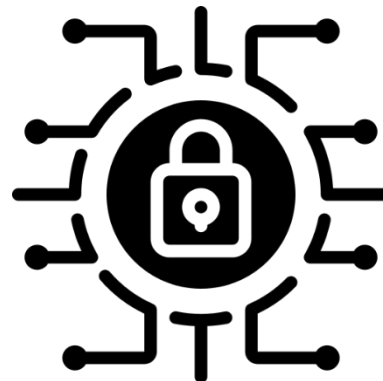
**Quantum**



**Digital Trust**



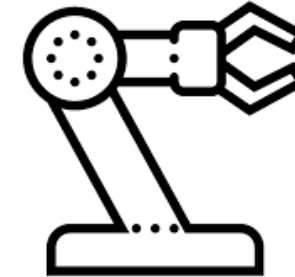
**Clean Energy & Green Tech**  
(\$257B)\*



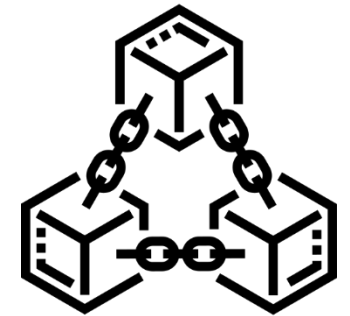
**Cyber Security**



**BioTech**  
(\$72B)\*



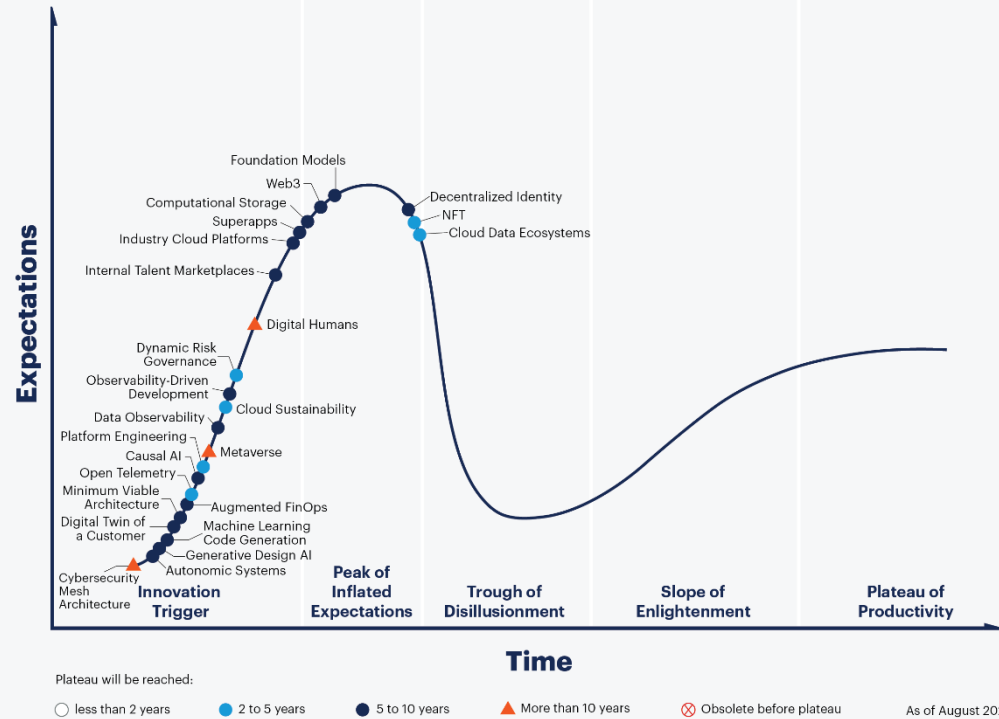
**HyperAutomation & Robotics**



**BlockChain**

\*McKinsey Top Tech Trends – Investments in 2021

## Hype Cycle for Emerging Tech, 2022



gartner.com

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### McKinsey Technology Trends Outlook 2022

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#### SILICON AGE

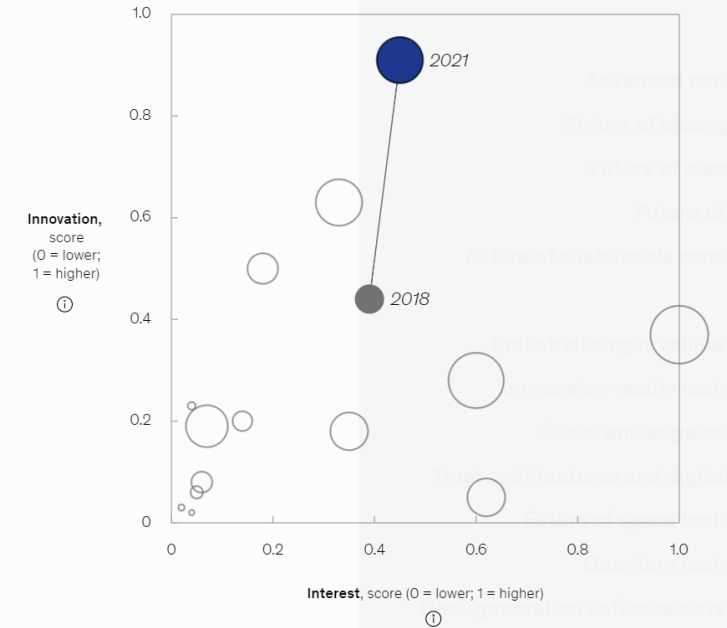
## Applied AI

Models trained in machine learning can be used to solve classification, prediction, and control problems to automate activities, add or augment capabilities and offerings, and make better decisions.



\$165 billion Investment, 2021

Learn more about this trend





# Applied AI set to explode



AI translates Hokkien, an unwritten language, for the first time - Courtesy of Meta (20<sup>th</sup> Oct 2022)



AI generated art wins Art competition in Colorado USA (13 September 2022)

# Some local examples

PSA Singapore Signs Research Agreement to Develop Smart Solutions for Managing AGV Fleets



## THE STRAITS TIMES

New AI scheduling system to shorten waiting times at SNEC by up to half



An outpatient clinic at the Singapore National Eye Centre. Waiting times there can stretch to 45 minutes on busy days. PHOTO: SINGAPORE NATIONAL EYE CENTRE

AI to help detect glaucoma early among research projects to be funded under \$25m programme





# Considerations for board directors

Considerations	Possible metrics		
Potential impact of this trend to the industry and/or company?	Low	Medium	High (disruptive)
How does it align with the current business model?	Good (leadership)	Consistent (incremental)	Poor (disruptive)
Where would this trend impact on Financials?	Increase Revenue	Reduce Cost	Increase Cost
How fast do you need to react? (months/years?)	Nascent	Growth	Mature
What strategy do we want to adopt for this trend?	First mover	Fast Follower	Last follower
Do you have the capabilities to leverage / mitigate this trend? (Staff, Management, Board)	Position of strength	Can build	Unable to build

# Considerations for board directors

- Risk & Opportunity
- Increasing Digital Quotient on your board and management
- Build new muscles for speed and agility
- Ringfence funding for innovation
  - Failure budget
  - ERPS (Evaluate, Refine, Pilot, Scale/Stop)
- Board agenda item (Always on radar)



		Impact →				
		Negligible	Minor	Moderate	Significant	Severe
↑ Likelihood	Very Likely	Low Med	Medium	Med Hi	High	High
	Likely	Low	Low Med	Medium	Med Hi	High
	Possible	Low	Low Med	Medium	Med Hi	Med Hi
	Unlikely	Low	Low Med	Low Med	Medium	Med Hi
	Very Unlikely	Low	Low	Low Med	Medium	Medium



# Parting thoughts



豆醬無虫  
天下無人

Old Teochew proverb

thank  
you