7ECH570RM™

Forecast Summer 2023

The Top 10 technologies everyone is talking about right now. Strong FOMO vibes here. ANALYZE technologies, ASSESS the business implications and ADAPT to a new reality.

↑ 01 Artificial Intelligence

COMPUTERS WITH COGNITIVE (?) CAPABILITIES
... the fear of an AI winter is diminishing with new tools such as DALL•E and ChatGPT. Impressive, but not the path to Artificial General Intelligence.

↓ 02 Genetic Engineering

CHANGING GENETIC TRAITS TO IMPROVE AN ORGANISM
... CRISPR won the Nobel Prize and is now used to cure cancer. Lots in the making, exciting future for this enabling technology. Need ethical boundaries.

● 03 Extended Reality

THE PHYSICAL WORLD THROUGH ENHANCED AUGMENTATION (YEAH!)
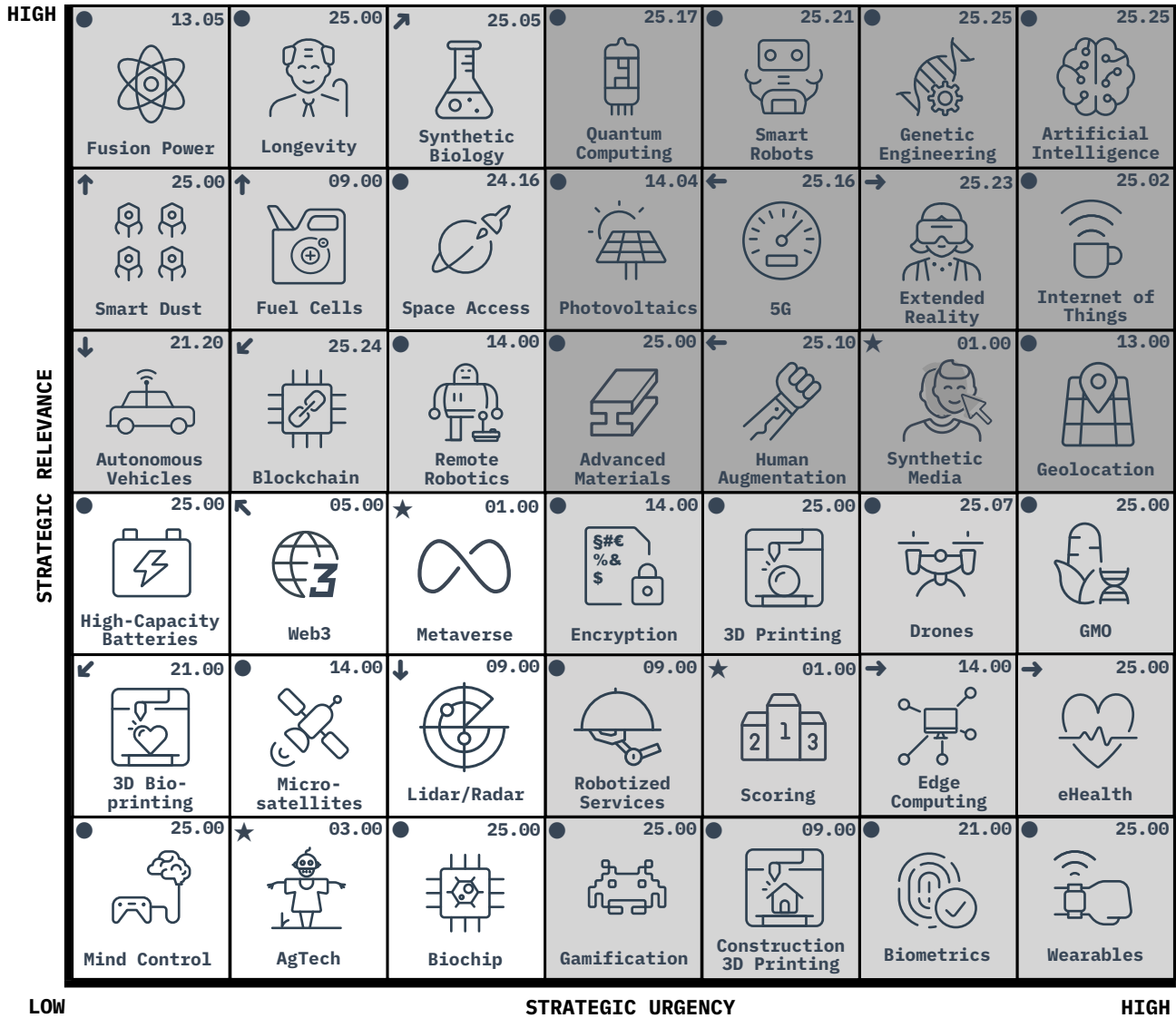... still a challenge with hardware looking for killer apps, but some possible contestants are around the corner. Is Apple launching their device in 2023?

★ 04 Energy Systems

THE (FUTURE) PROMISE OF ABUNDANT (AND FREE) ENERGY
... growing investor interest, a new focus on energy preservation, and an important milestone (not break-through) in fusion research. What's not to like?

● 05 Quantum Computing

INTRICATE COMPUTING IN THE QUANTUM REALM
... quantum supremacy achieved, and investors are all fired up! Still very diverse technology stacks: Superconducting, trapped ions, photonics, or else?

↓ 06 5G

NEXT GENERATION HIGH SPEED, LOW-LATENCY MOBILE NETWORKS
... increasing speed in 5G roll-out. Good traction in B2B apps, but telcos can't wait until XR, and autonomous cars are becoming mainstream! 6G anyone?

↓ 07 Space Access

REUSABLE ROCKETS MAKES ORBITAL LAUNCHES MORE "AFFORDABLE"
... space tourism, micro-satellites, and asteroid mining are revolutionizing the way we think about space! To infinity and beyond! Plenty of space!

↓ 08 Drones and Light Aircraft

(MOSTLY) AUTONOMOUS FLIGHT FOR TRANSPORTATION, MONITORING, AND MORE
... with improved sensors, batteries, and cameras, tons of new applications are emerging. Unfortunately also in terrorism and warfare #%&€§#

● 09 Smart Robots

INTELLIGENT ROBOTS WITH HUMAN CAPABILITIES
... some amazing concepts released lately. Still no general robotic use case but impressive niche applications in the works! Will need more time to mature.

↓ 10 Synthetic Biology

ENGINEERING TAKE ON BIOTECHNOLOGY TO CREATE NOVEL ORGANISMS
... design and fabricate unique biological components and systems. Numerous challenges (still) and lots of opportunities (soon).

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42 Grid Summer 2023

The Tech3torm™42 Forecast Grid, showing strategic relevance and urgency. Understand these innovation drivers and monitor movement to get the timing right!

HIGH

● 13.05 Fusion Power	● 25.00 Longevity	↗ 25.05 Synthetic Biology	● 25.17 Quantum Computing	● 25.21 Smart Robots	● 25.25 Genetic Engineering	● 25.25 Artificial Intelligence
↑ 25.00 Smart Dust	↑ 09.00 Fuel Cells	● 24.16 Space Access	● 14.04 Photovoltaics	← 25.16 5G	→ 25.23 Extended Reality	● 25.02 Internet of Things
↓ 21.20 Autonomous Vehicles	↙ 25.24 Blockchain	● 14.00 Remote Robotics	● 25.00 Advanced Materials	← 25.10 Human Augmentation	★ 01.00 Synthetic Media	● 13.00 Geolocation
● 25.00 High-Capacity Batteries	↖ 05.00 Web3	★ 01.00 Metaverse	● 14.00 Encryption	● 25.00 3D Printing	● 25.07 Drones	● 25.00 GMO
↙ 21.00 3D Bio-printing	● 14.00 Micro-satellites	↓ 09.00 Lidar/Radar	● 09.00 Robotized Services	★ 01.00 Scoring	→ 14.00 Edge Computing	→ 25.00 eHealth
● 25.00 Mind Control	★ 03.00 AgTech	● 25.00 Biochip	● 25.00 Gamification	● 09.00 Construction 3D Printing	● 21.00 Biometrics	● 25.00 Wearables

STRATEGIC RELEVANCE (vertical axis)

LOW — STRATEGIC URGENCY — **HIGH**

STRATEGIC RELEVANCE (vertical axis)

PREPARE	ACT
When the technology is less established, but will potentially have major impact in the future. **Be creative around potential applications.**	When a technology is imminent, and will have significant impact on your business environment. **Analyze, assess and adapt!**
REVIEW	MONITOR
When neither timing nor relevance makes the technology worthy of your attention. **Come back for review at regular intervals, look for weak signals.**	When a technology is imminent, but today not necessarily relevant for your industry. **Keep an eye on industries that have embraced the technology**

STRATEGIC URGENCY

Quarters on the Grid — Quarters on the Top 10 list

● 25.17 Quantum Computing

★ New
● Stable
↙ Trend