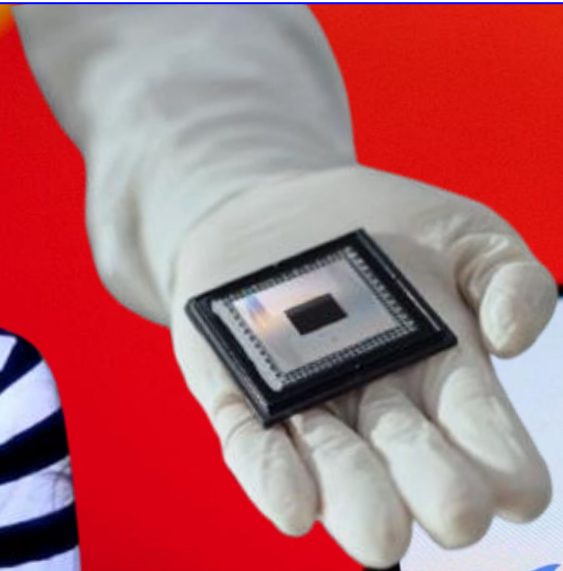
The Big Reveal

With Futurist Amelia Kallman

#60



Introduction

Welcome to this Special Issue of The Big Reveal! You can also watch it on YouTube **here**.

Can you believe we are already one month into the 2nd quarter of the 21st century?! The future really is now! So much has already happened in 2025: extreme weather events, the merging of billionaire power with state power, and the impact of the AI arms race on geopolitics and the global economy.

In order to keep up, we must empower ourselves with knowledge. That's why this edition of The Big Reveal in your Cheat Sheet to some of the most recent technological breakthroughs that are already changing the world in 2025!

Recently I enjoyed speaking on AI at the U.N. in Rome and the U.K. House of Lords, and on the future of Aviation in Brussels. Looking forward to hosting Kinly Connect in Barcelona, and speaking on the future of HR in Kuala Lumpur this month. Check out my latest videos **here**.

Please don't hesitate to be in touch.
All the best,
Amelia

01

DeepSeek

No.1 in app stores, the Chinese open source AI reasoning model DeepSeek is challenging U.S. supremacy in AI. Largely viewed as a free alternative to OpenAI's premium models, it claims to have cost $6m to train, compared to ChatGPT-4's $100m+. This revelation sparked the biggest one-day stock loss in U.S. history as Nvidia's value plummeted by $600B overnight. Banned by Australia and the U.S. Navy, concerns include its collection of user data, device info, keystroke patterns, IP addresses, and chat history. However, because it is open source, regulating its use would be challenging.

Website.

Image by Getty Images

02

Willow

Speeding up computer power exponentially, quantum computing crunches protons, neutrons, and electrons, giving us multidimensional capabilities. With commercial applications slated to be available by the end of the decade, Google has introduced Willow, a quantum chip that performed a standard benchmark computation in under 5 minutes that would take one of today's fastest supercomputers 10 septillion years. Quantum computing will solve problems previously thought insolvable. Applications include discovering new medicines, designing more efficient batteries for EVs, and accelerating progress in fusion and new energy alternatives.

Meet Willow.

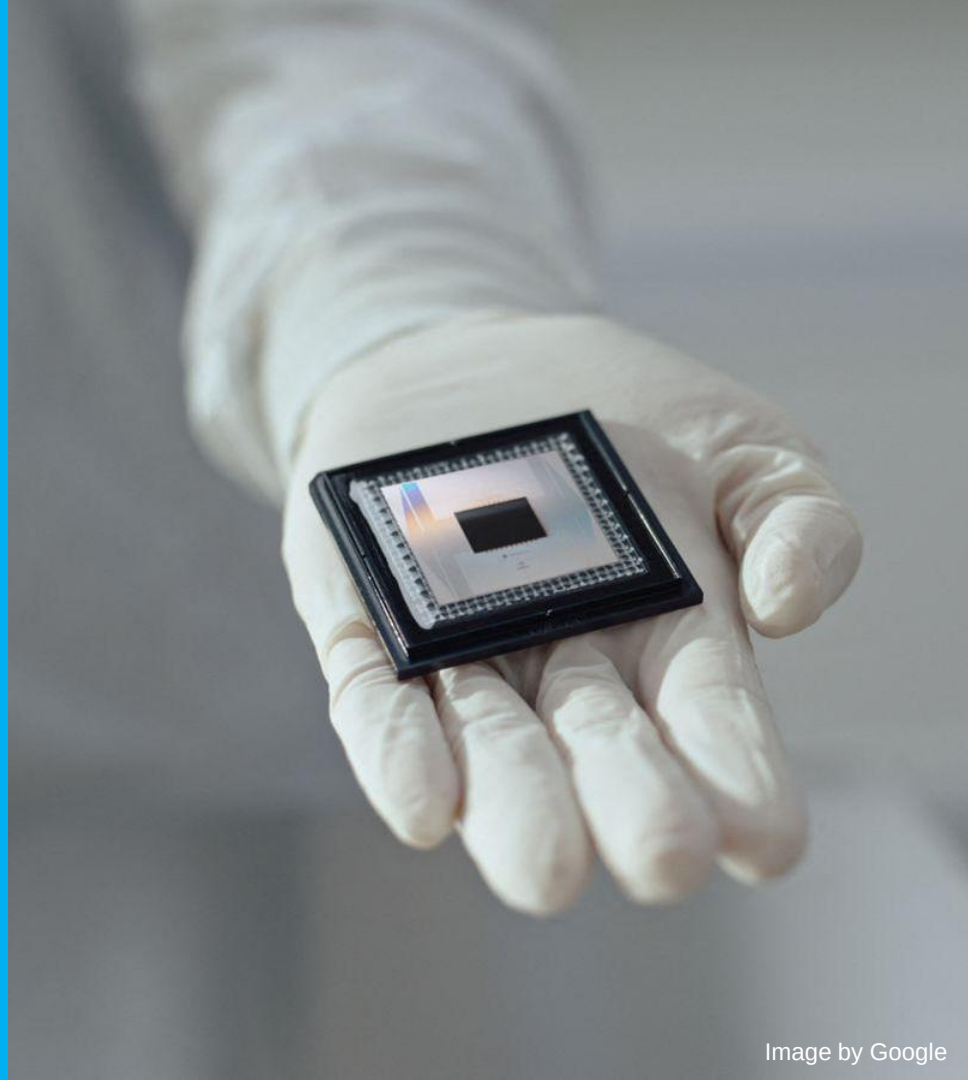


Image by Google

03

AI Agents

An AI Agent is a smart digital assistant that understands, thinks, and acts. If AI is like a brain full of knowledge, AI Agents are the hands that get things done. This means we are evolving into an era where a single interface, or Super Agent, uses reasoning and data to orchestrate a whole team of collaborating AI Agents behind the scenes to execute complex tasks specific to your request. By handling routine tasks for us, AI Agents will not only revolutionize the way we do business, but will also disrupt the future of the internet, marketing, and the brand-customer relationship.

Article.

Image by Linkedin

04
Firsthand

Brand AI Agents meet customers wherever they are online, understand their needs, and deliver relevant information in real-time so we can make confident decisions. Enabling a Generative Internet that turns *The* internet into *Your* internet, Brand Agents will be able to adapt on the fly, delivering curated content at every step of the customer journey while also gathering behavioural data and customer feedback. Firsthand is a Brand Agent platform that protects proprietary data and IP, while creating new AI-enabled retail experiences of the future.

Website.

Image by Plan.Net Group

05

Dead Internet

The Dead Internet theory - a conspiracy theory started in 2012 - is coming back strong as recent stats show that AI-driven bots account for nearly half of all web traffic. 32% of those online bots mimic humans for malicious purposes, and 57% of all written web content is thought to be AI-generated in some way. Between Meta's recent announcement that they are starting to flood their social media platforms with hundreds of thousands of AI generated users to boost engagement, and the fact that what we see - and don't see - online is largely dictated by an algorithm - people are asking if 2025 is the year this conspiracy theory becomes a reality.

Article.

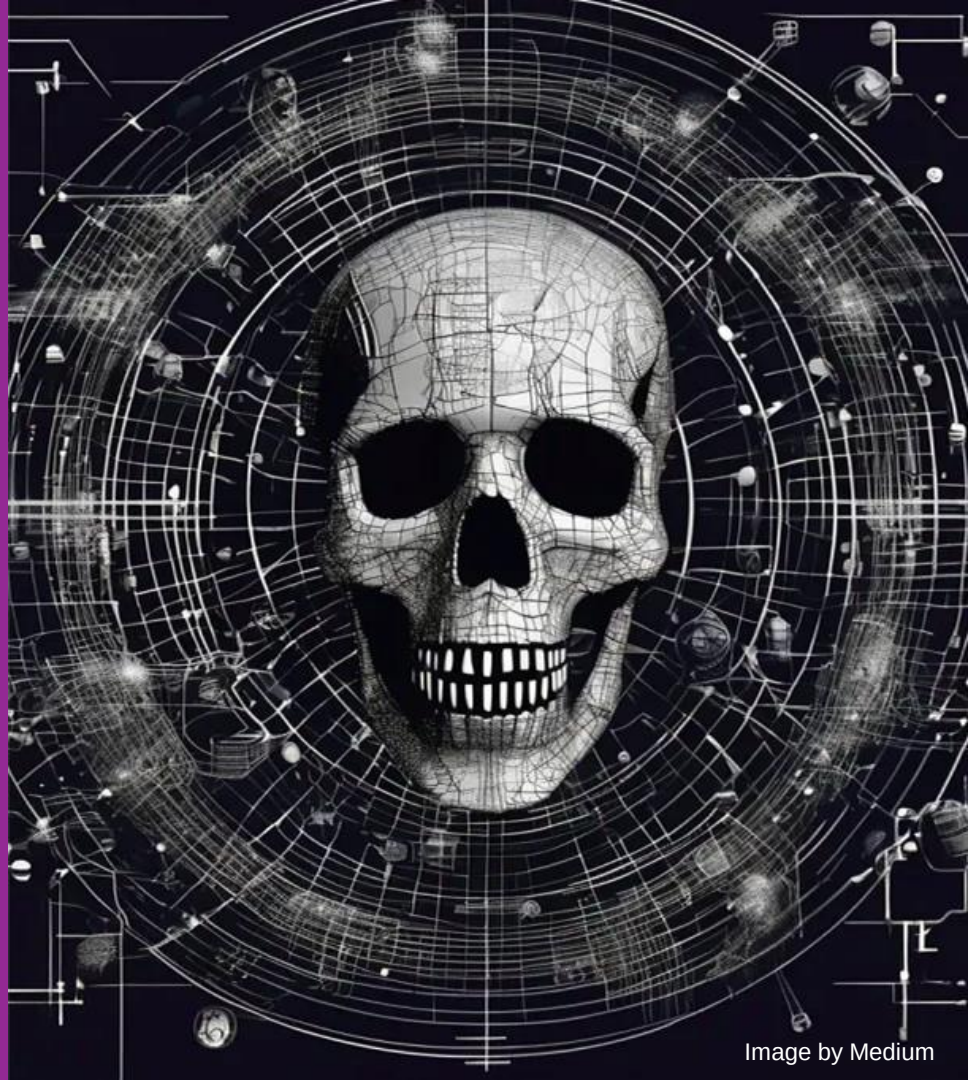


Image by Medium

06

Fusion

Nuclear fusion is gaining interest as a potential source of nearly limitless, clean energy. Unlike nuclear fission, which splits atoms, fusion combines hydrogen isotopes to release enormous amounts of energy without producing radioactive waste or carbon emissions. Successfully commercialised, it could solve major global issues like energy shortages, climate change, and reliance on fossil fuels. U.S. nuclear fusion startup Helion believe they are on track to achieve fusion by 2028. However, significant challenges remain. While fusion itself is inherently safer than fission (no risk of meltdowns), technical and financial hurdles must be overcome to achieve practical large-scale deployment.

Article.

Image by Financial Times

07

Teleport

Varjo’s high-resolution scan-to-VR solution, Teleport, allows you to scan any space with your smartphone and recreate it in immersive 3D, giving your viewers the freedom to explore every corner and detail as if they were there in person. Scans are securely uploaded to the cloud for automated reconstruction using advanced machine learning, removing the need for manual processing.

Free Trial.

Image by Varjo

08 Security

AI is transforming the digital security landscape on both sides of the legal divide. Cyberattacks and cyberdefenses have reached new levels of sophistication. One shocking statistic from a recent CapGemini report found that 97% of the nearly 2,000 companies they surveyed said that they have already suffered breaches or security issues related to the use of Gen AI in the past year. With a 3,000% increase in attempts to use fraudulent deepfakes to bypass identity verification systems, startups like Sentinel AI, Reality Defender, WeVerify, and Deepware are getting more attention, and use.

Report.

09

BCIs

As Elon Musk plans to implant 20 to 30 more people with the experimental brain-computer interface Neurolink this year, more than 45 other companies are also competing in this space. With a focus on treating and overcoming brain injuries and disorders, companies such as Synchron, Blackrock Neurotech, and Onward Medical are already conducting BCI trials on people using less invasive approaches than Musk's robot-brain surgeon technique. OMI AI (seen here), is a non-invasive BCI that sticks to the forehead. While the 1st version will ship with an audio-only interface, the 2nd, they claim, will be able to read your brain data and thoughts, and respond.

Website.

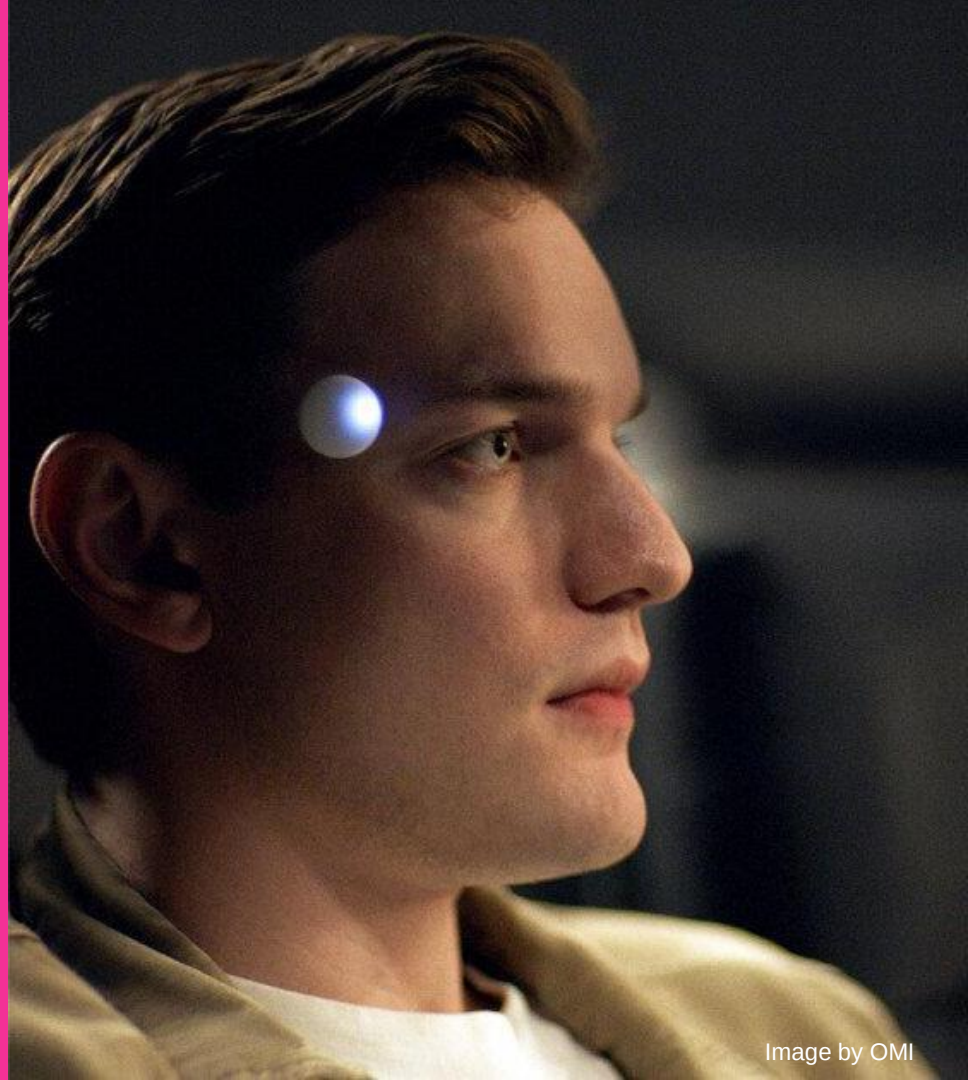


Image by OMI

10

ESM3

Expect massive breakthroughs in bioengineering that may disrupt the constraints of evolution and the human lifespan. From 3D printed organs to the discovery of new proteins, AI is revolutionising the future of medicine. A recent example is ESM3, an AI model that just hacked 500 million years of natural evolution to invent a new glowing protein, similar to those found in jellyfish. As the building blocks of life, simulated proteins will play an instrumental role in the future of drug development.

Article.

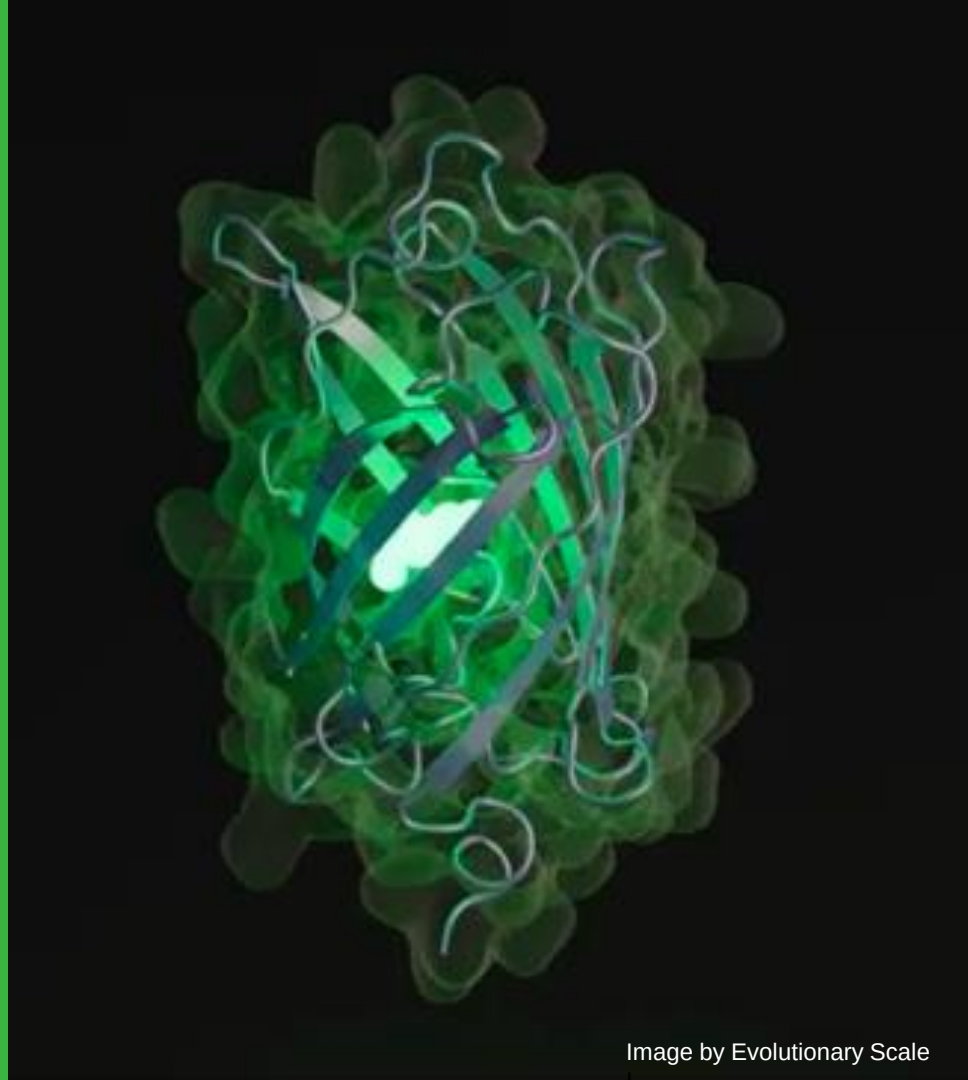


Image by Evolutionary Scale

11

AI Jesus

St. Peter's Chapel in Switzerland recently trialled "Deus in Machina," an AI-powered Jesus trained on the New Testament to simulate Jesus's speech and thought patterns. Appearing on a screen inside confessional booths, 66% of people found the experience spiritually enriching, while others found it blasphemous. However, this is not the first time AI and religion have merged: In 2017 former Google AI engineer, millionaire and convicted felon pardoned by Trump, Anthony Levandowski, founded Way of the Future, an official AI-worshipping religion that views AI as an evolutionary step for humanity.

Article.

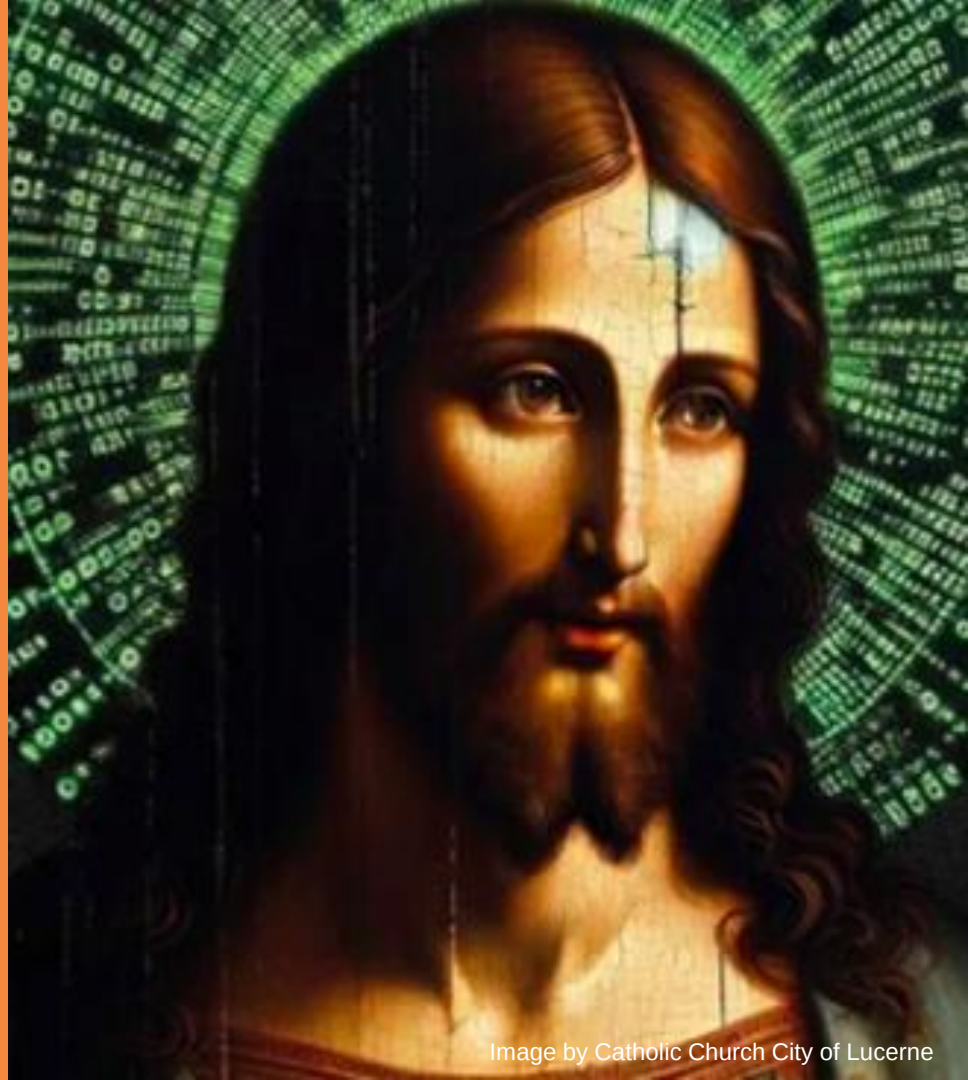


Image by Catholic Church City of Lucerne

Thank you

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