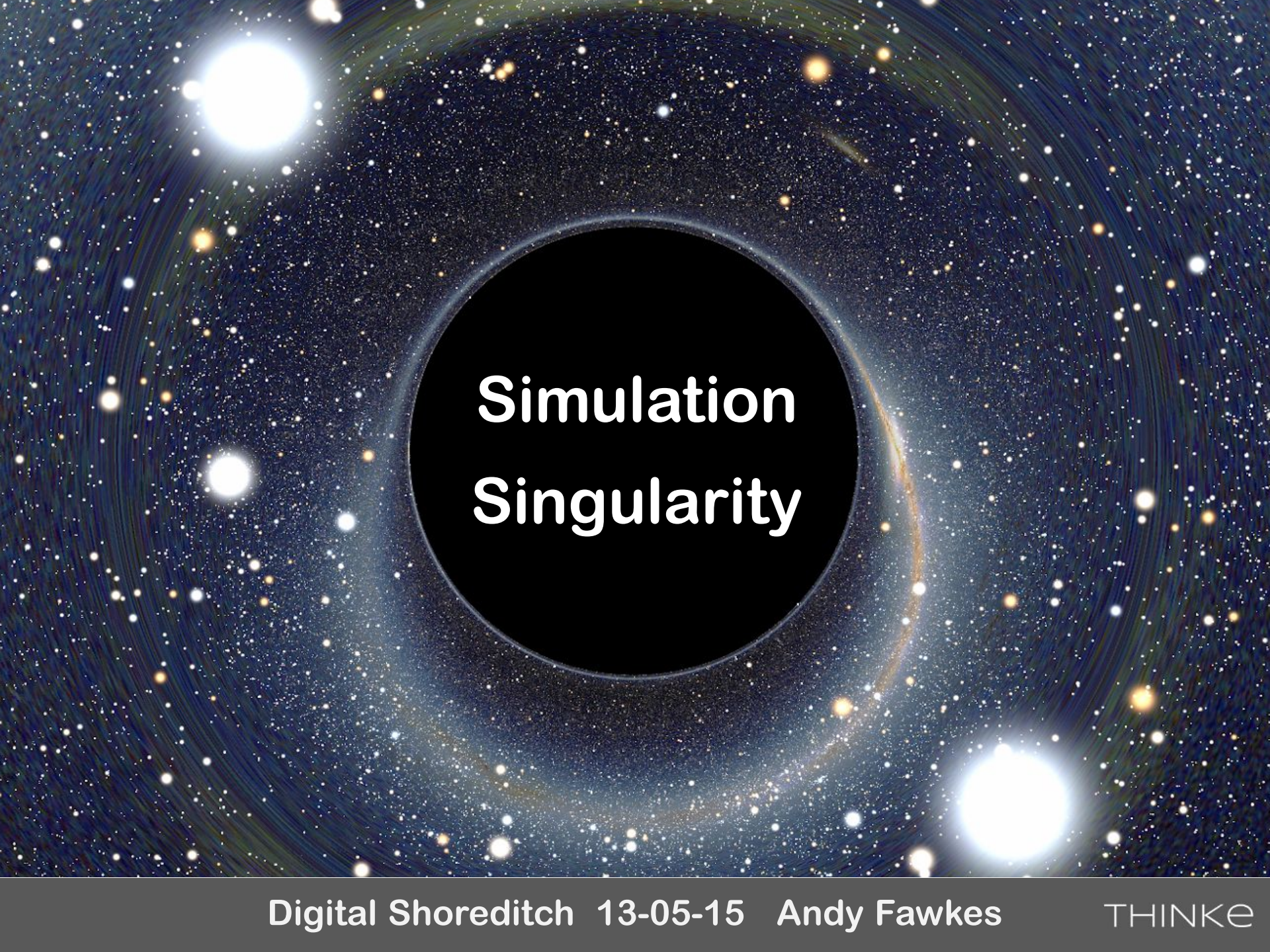


The background of the slide is a deep space image featuring a dense field of stars and galaxies. A prominent bright star is in the upper left, and another bright star is in the lower right. A faint, glowing ring of light encircles the central text. The central text is white and bold, set against a solid black circular backdrop.

Simulation Singularity

What is the Technological Singularity?

- the hypothetical future advent of artificial general intelligence capable of redesigning itself, or of designing and building computers or robots better than itself



Simulation Singularity?

- what if in future we could simulate the world such that we could not tell the difference between the simulation and the real world?

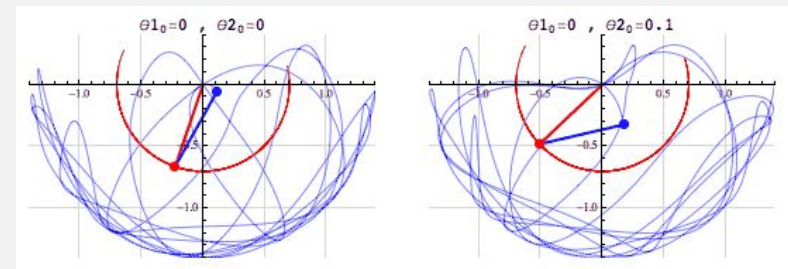
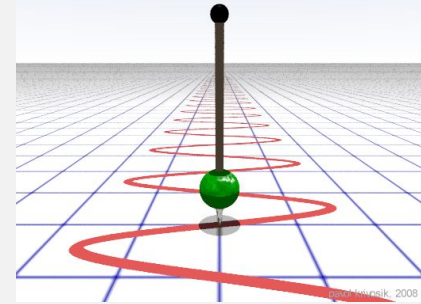


What is Real?

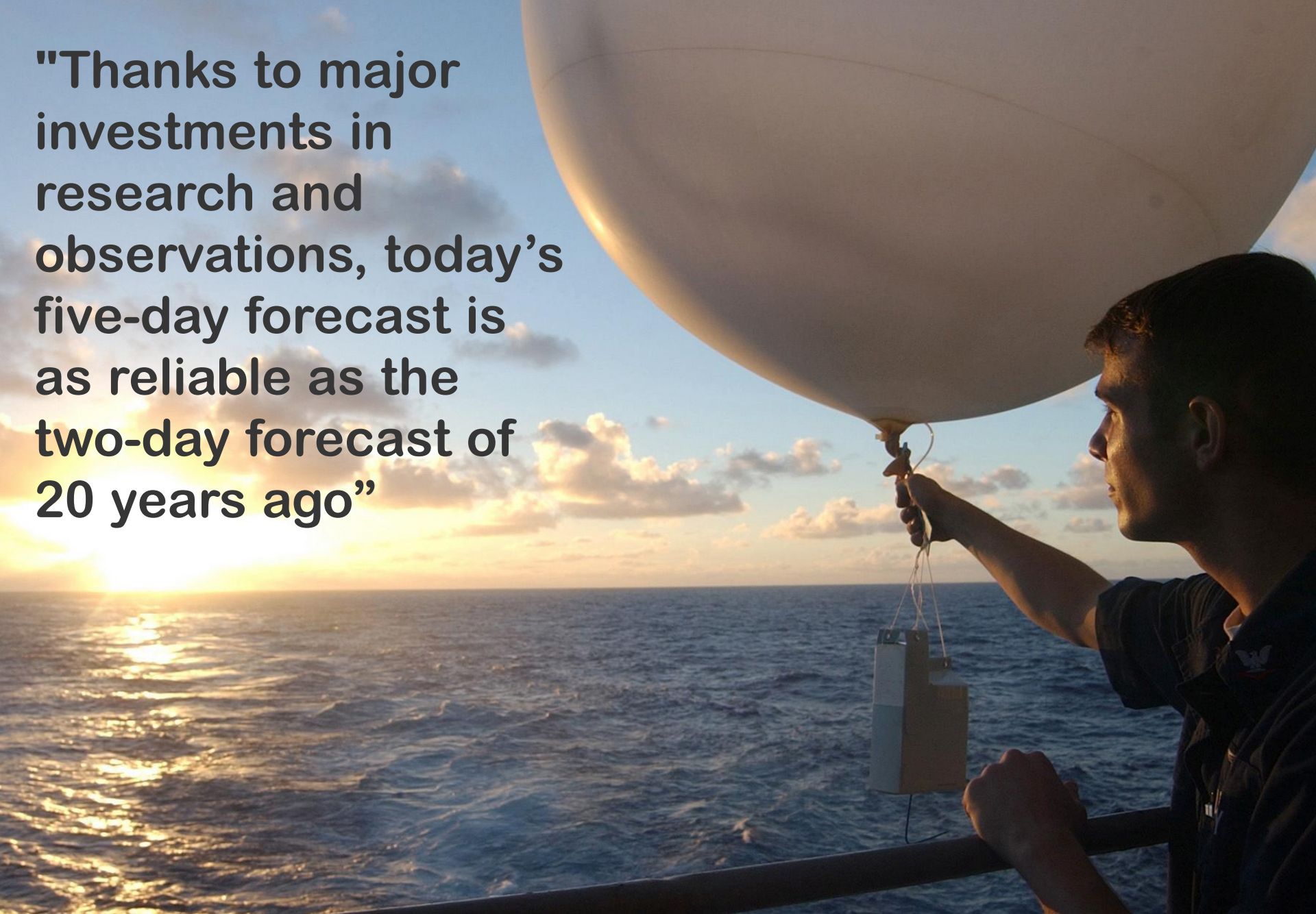


What is Simulation?

- A model represents the system and the simulation runs the model over time
 - In Real Time, or
 - In Non-Real Time
- Some Systems are Chaotic



"Thanks to major investments in research and observations, today's five-day forecast is as reliable as the two-day forecast of 20 years ago"



Simulation Technology Drivers

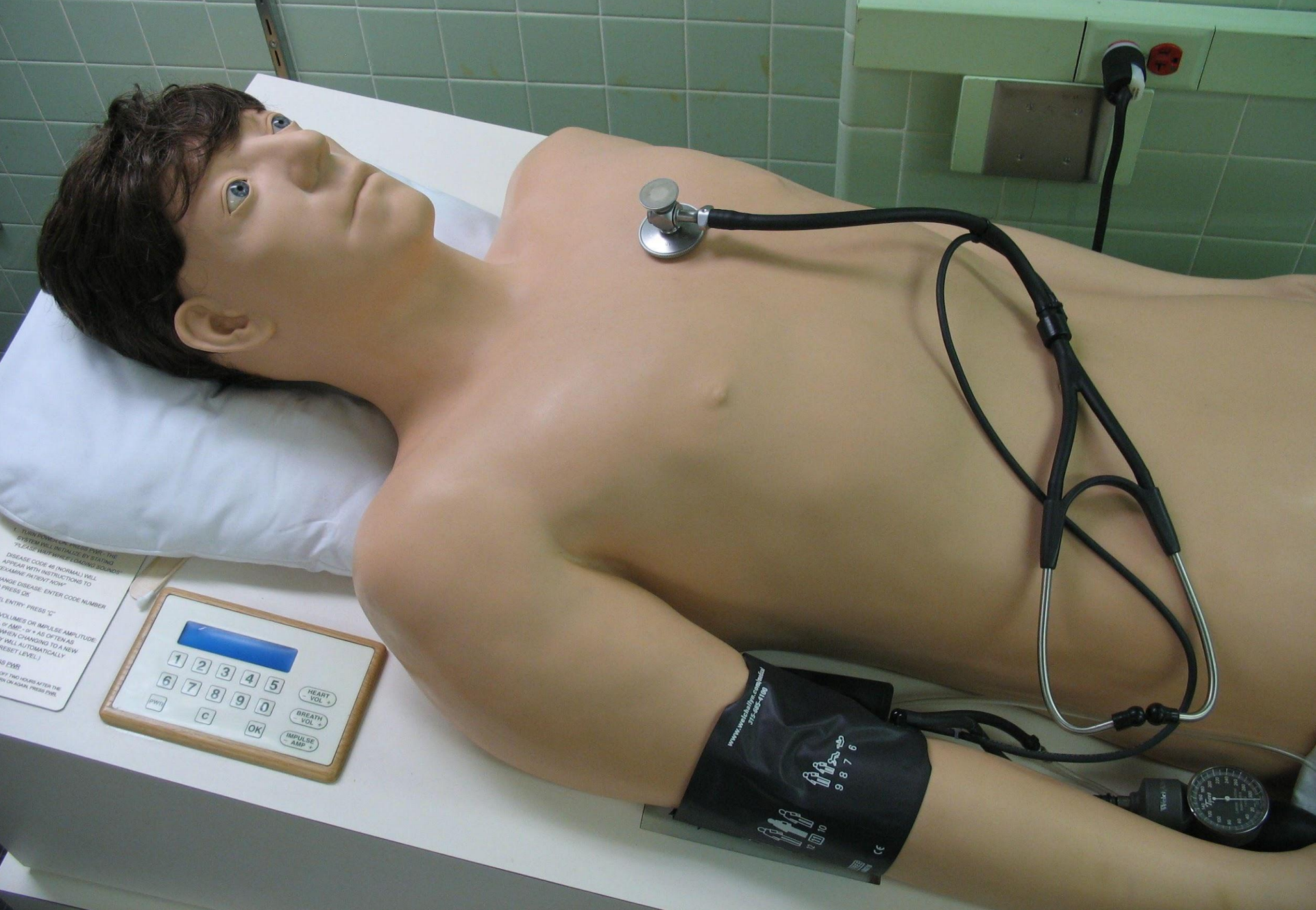
- Computing
- Games
- Networking
- Graphics
- Audio
- Human Interfaces
- Sensors

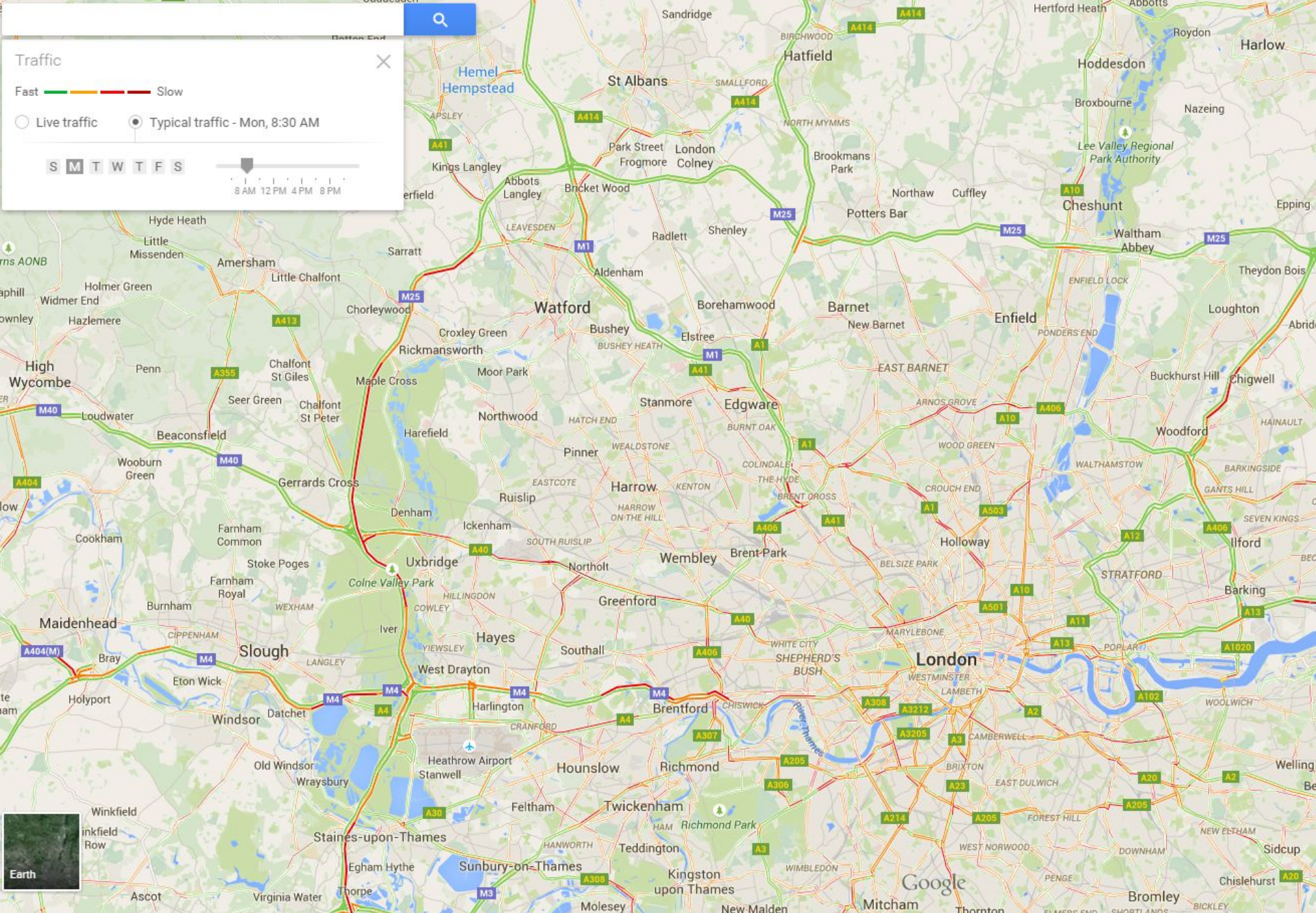






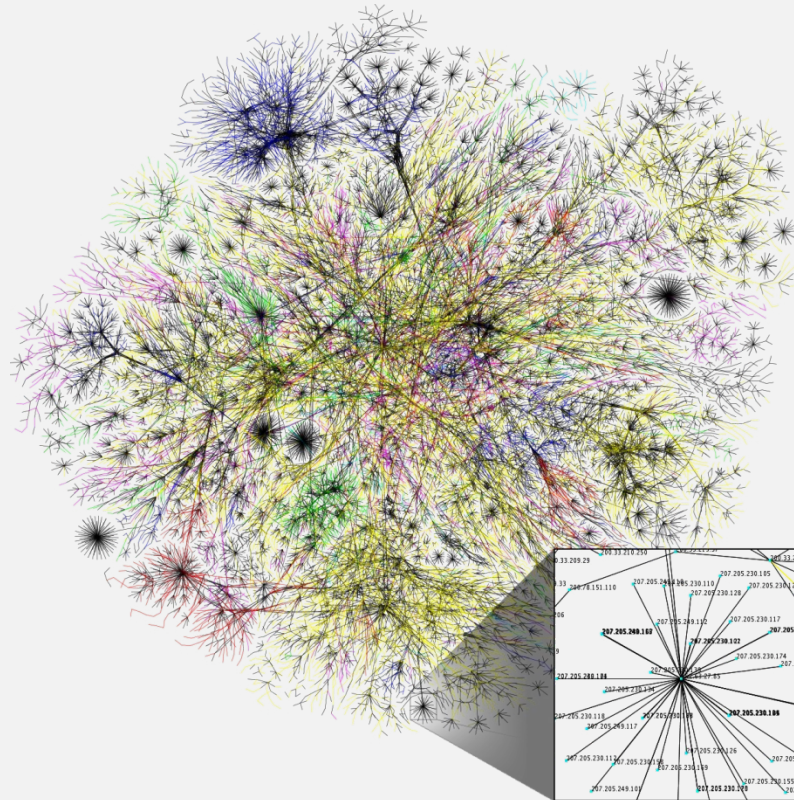






Internet of Things & Sensors

Data for Simulations



GIZMODO

"Mind-Controlled" Airplanes Might Just Be A Thing



Pranav Dixit

Filed to: MIND-CONTROL 6/01/14 5:58pm

9,630 🔥 2 ★ ▼



A [mind-controlled](#) iPhone? Sure, we'll take it. A [mind-controlled](#) Samsung Galaxy Note 10.1? Why not? A mind-controlled airplane powered by the pilot's brainwaves? Hold on for a moment while we look for the nearest emergency exit.

Using your mind to control an airplane sounds bonkers, but according to this [CNET report](#), researchers are working on just that. A team from the Technische Universität München (TUM) in Germany strapped electroencephalography electrodes to the heads of participants, put them in a flight simulator - not a real aircraft, thank heavens - and instructed them to control the plane using only their minds.

Even though few of the participants had any cockpit experience, the experiment was apparently a success since they were all able to fly so well that they could have gotten a pilot's licence.

Mind Control & Simulation



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This Woman Flew an F-35 Simulator with Her Mind

by BRENDAN MCGARRY on MARCH 2, 2015



THINKE



Simulation



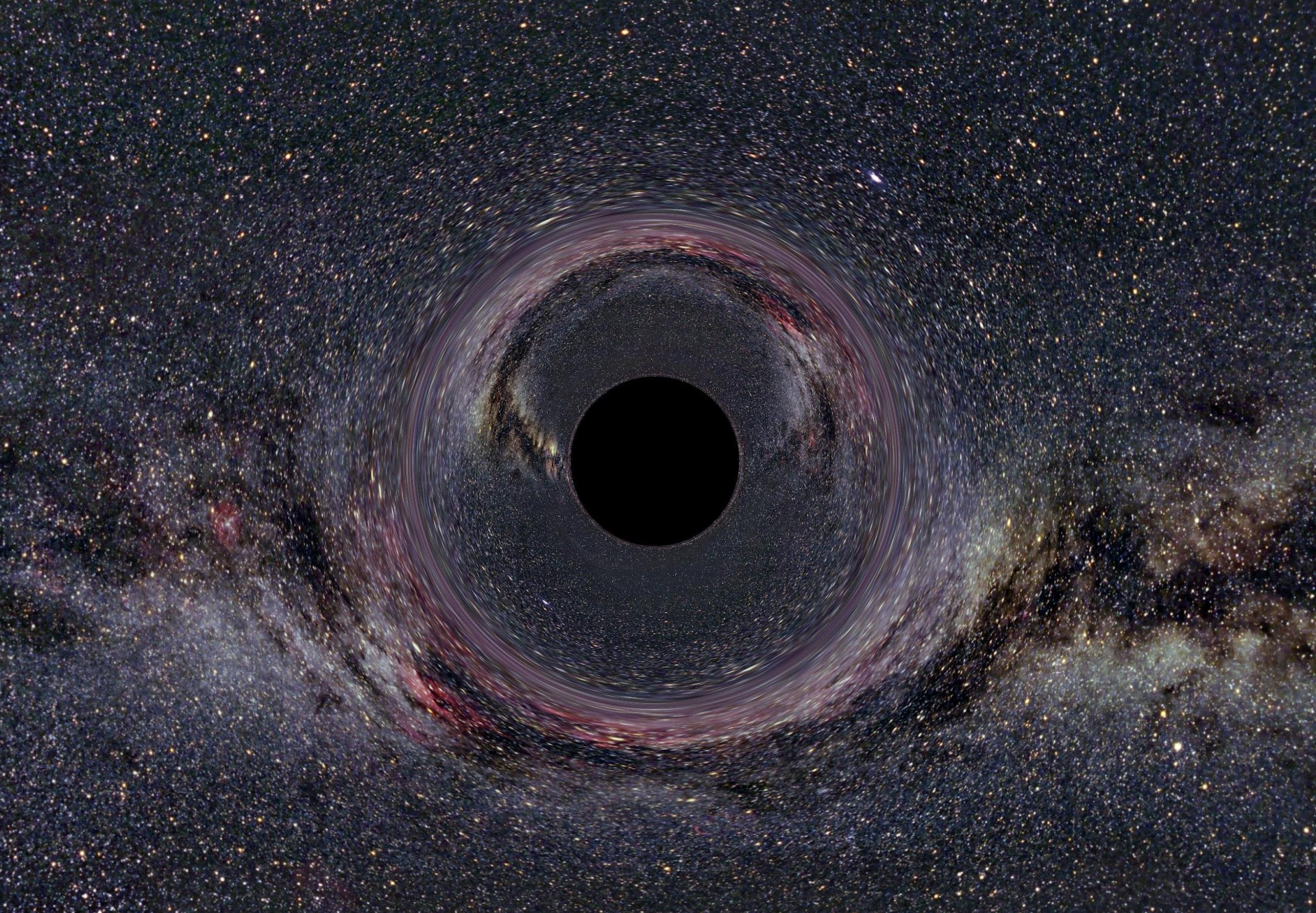
Robotics

Training Robots in Simulation



hi-tech

HUMANOID PILOT





Simulated Simulation?

THINKE

Plato's Allegory of the Cave





Matrix

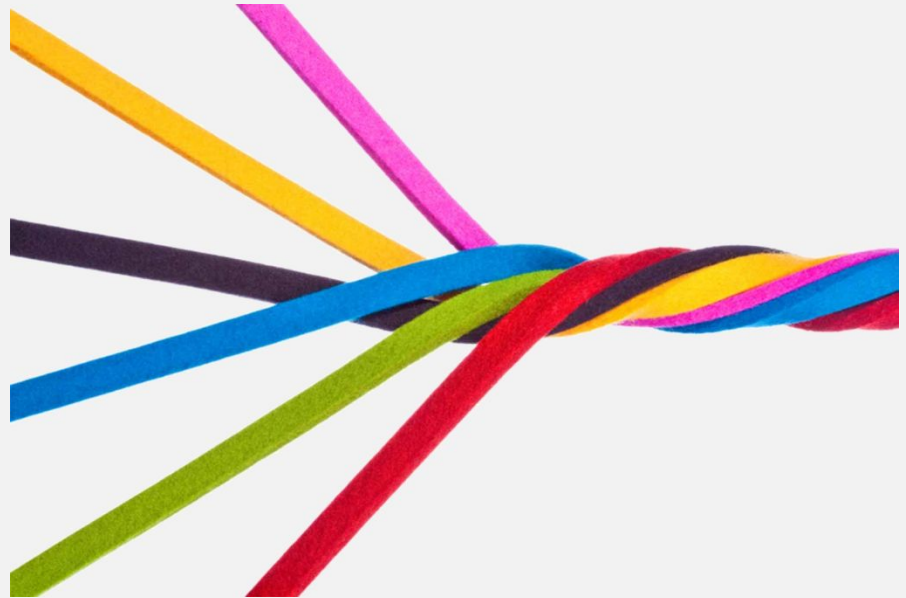
The Matrix?

THINKE

Simulation as a Unifier?

Simulation as an environment to develop, test & train?

- Internet of Things
- Wearables
- Virtual Reality
- Psychology
- Training
- Engineering
- Big Data
- Analysis
- Robotics
- Artificial Intelligence







Still the Ultimate Simulator?

THINKE

A black and white image of a starry night sky. In the center, there is a large white circle. Inside this circle, the word "Questions?" is written in a bold, black, sans-serif font. The background is a dark, textured space filled with numerous small, bright stars of varying sizes and intensities. Some stars are very bright and appear as large, glowing disks, while others are tiny pinpoints of light. The overall effect is a cosmic, deep-space atmosphere.

Questions?

Simulation Singularity

- Wednesday 13th May
 - Lightning Talk
 - Shoreditch Town Hall
 - 11:35 am - 11:45 am
-
- <http://tickets.digitalshoreditch.com/schedule/#>

Simulation Singularity

- Simulation Singularity - when simulation faithfully mirrors the real world??
- At the Technological Singularity it is claimed AI will match human intelligence. With the general advances in computing, AI, & games is there a similar "Simulation Singularity" when simulation faithfully mirrors the real world? In such a future we would have a perfect design/test/train/control environment always simulating activities prior to and synchronised with the real world. This could have huge implications for design, engineering, medicine, transport, etc. and society more generally.

In Our Simulation, We Need:

- A Model(s)
- Data
- A Simulation Platform/Engine
- Human Interfaces