

The "Mysteries of Eleusis"



EXPERIENCES

- Athens' best and brightest flocked to Eleusis for two thousand years
- Mysteries were said to hold the entire human race together
- Plato was permanently transformed by whatever he observed in Eleusis
- Aristotle: "Initiates came to Eleusis not to learn something, but to experience something"
- Mystery Greek $muo (\mu v \omega)$:

"To shut one's eyes"



lan Carlos Campbell 6.20.2022 10:00 AM





The prototype VR headsets Mark Zuckerberg demoed could be game-changers, but they're still many years from release, and ignore the metaverse's current issues.

THE VISUAL TURING TEST

"We **NEED** a **REASON** to put on these fancy **VR HEADSETS** right **NOW**."

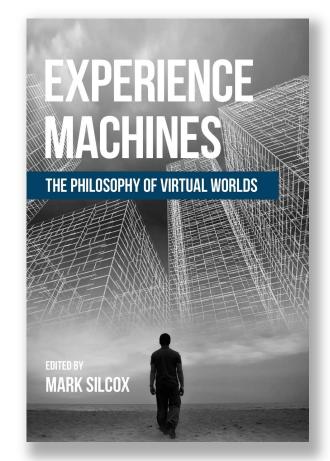
Mark Zuckerberg



The "Experience Machine"

Robert Nozick (Harvard, 1974):

- Definition: An imaginative machine that produces favorable sensations by giving users whatever desirable experiences they might want.
- Nozick: "People refuse to be plugged into the experience machine ... people want to do the actions, and not just have the experience ... there is no actual contact with a deeper reality."

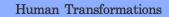




6G and Next G Networks

Next G Alliance Roadmap

- Enhanced Services
- Disruptive Applications
- Peak-Experiences
- Human Transformations



Peak-Experiences

Disruptive Applications

Enhanced Services

6G and Next G Networks

Enhanced Services

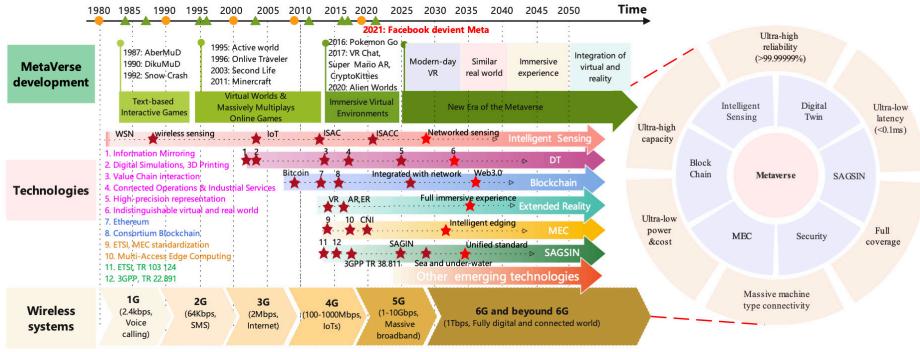
Disruptive Applications

Peak-Experiences

Human Transformations



"Metaverse" Roadmap of 6G





NSF: Next G Research

Software-defined networking (SDN) ecosystems

- AI/ML for networking, spectrum sensing and access
- Enabling 6G and beyond systems (massive MIMO, mmWave)
- Mobile Edge computing
- Advanced wireless sensing, joint sensing/ communication
- Free-space optical networks
- Large-scale MIMO
- Advanced duplexing
- Wireless measurements

Next G Objectives

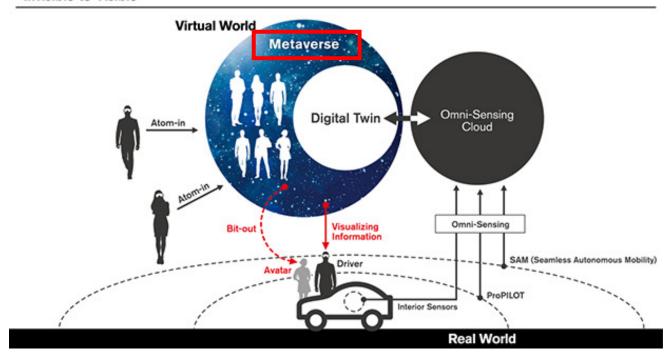
- Fully programmable protocol stacks
- Ultra-low latency wireless links
- · Ubiquitous wireless access
- · Low-power designs
- Zero-trust networking
- Meta-materials and intelligent surfaces
- "Security-by-design" and resilience
- On-demand spectrum sharing and access
- Widely tunable front ends
- Energy efficient waveforms
- Intra-satellite communications

- · Ouantum networks
- THz networking (new radio approaches)
- "Self-driving" networks
- Repeatable and verifiable research
- Holographic calls
- Tactile Internet
- Flying networks
- Metaverse



Nissan's I2V Concept to 'See the Invisible'

Invisible-to-Visible

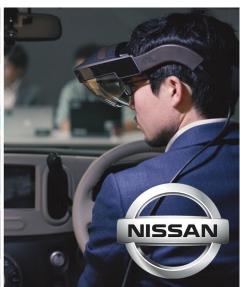




Nissan's I2V Concept to `See the Invisible'









Internet of No Things*

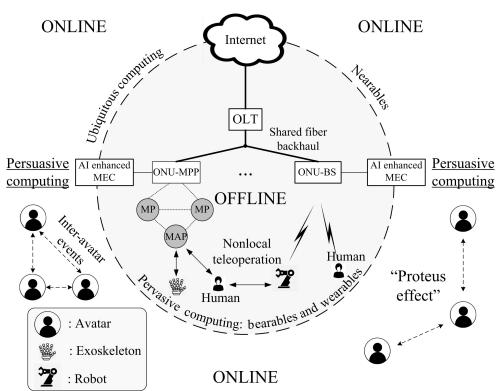
Bearables (e.g., smartphones)



Wearables (e.g., V/AR goggles, haptic gloves for avatars/robots)



Nearables (e.g., Al enhanced MEC)





^{*} The term Internet of No Things was first coined by Demos Helsinki founder Roope Mokka in 2015.

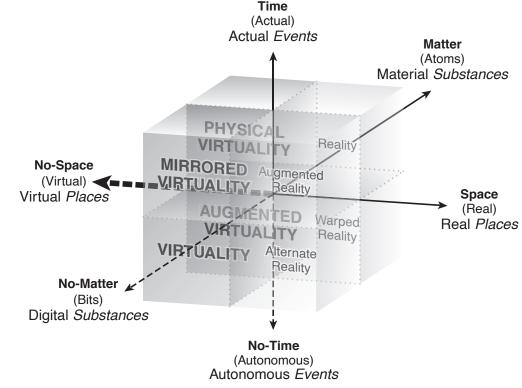
Fusion of Digital and Real Worlds

The Multiverse:

An architecture of Extended Reality (XR) experiences

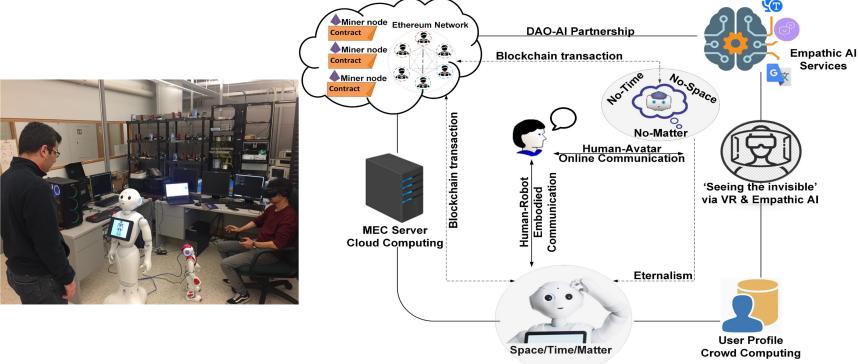


Creation of crossreality environments





Extrasensory Perception Network (ESPN)





Empathic AI Services

Reality (Robot)

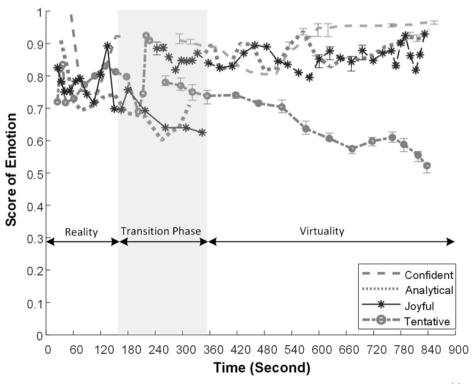
Space Time Matter



No-Space No-Time No-Matter
Virtuality

Virtuality (Avatar)





Toward Peak-Experiences

≡ Ehe New York Times

Facebook's Next Target: The Religious Experience

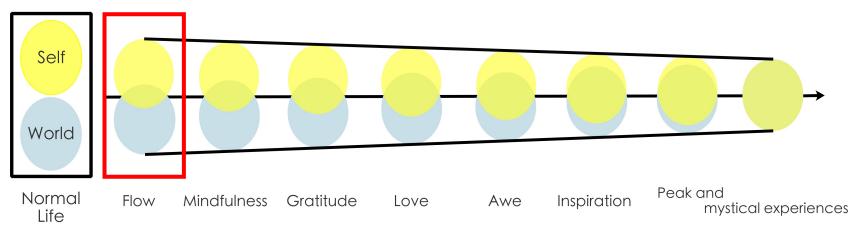
The company is intensifying formal partnerships with faith groups across the United States and shaping the future of religious experience.





Fusion of Self and World

The Unitary Continuum Increasing Degrees of Perceived Unity





"Deus Ex Machina" Technologies

- Origin: Term "Deus Ex Machina" stems from ancient Greek theater, where actors play god using a machine
- Modern Ecstatic Technologies: Induce "in the zone" flow moments, where focus gets so intense that everything else disappears
- Four Signature Characteristics: Peakexperiences exhibit Selflessness, Timelessness, Effortlessness, and Richness, or STER for short



Sun God in Euripides' Medea in Syracuse, Italy, 2009 (Wikipedia).



Example 1: Out-of-Body Experience & NDE







Example 2: Afterlife Experience





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