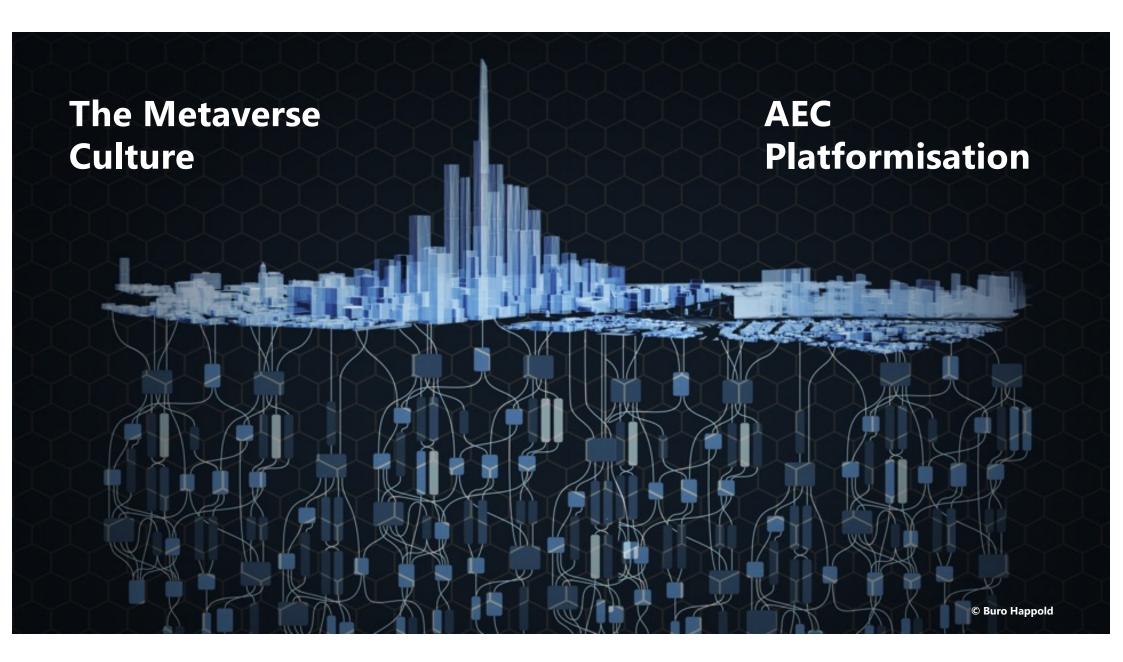
Brief

Will the Metaverse culture unlock the platformisation of the AEC industry?

Alain Waha, CTO Buro Happold; Co-founder, Cogital

- What happens when we move away from current tools and achieve radical democratisation of technology for a cohort or a sector (TikTok, Facebook, ...)
- How our industry might experience such a re-definition? Once the interface to the information systems becomes visual (until html and Mosaic in 1991, the internet was a nerdy place for TelNet and BinHex addicts!) The web was not only a semantic tagging idea; it was a radical democratisation through UX and navigation flows. A human would start "surfing the web".
- The hypothesis is that the Metaverse and pervasive real time visualisation might be the Mosaic of AEC?





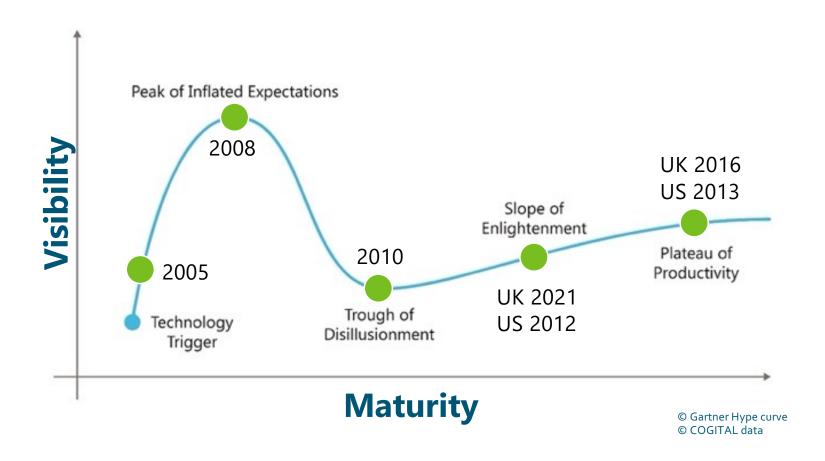
ALAIN WAHA







We have been on a journey with BIM







A digital medium



To rethink our approach to the use of data



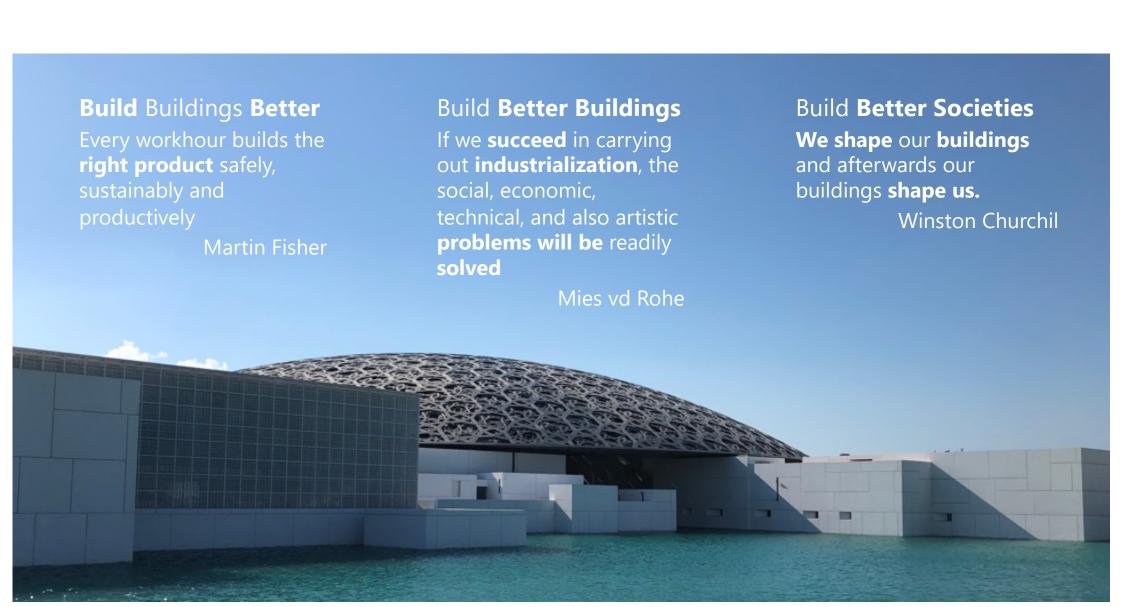
To innovate and reshape capital projects delivery



To **transform** our industry



OUR INDUSTRY



Culture is Central to Digitalisation

Barrier:

Resistance to culture change Lack of willingness of various... Lack of enforceable BIM standards... 2D is still industry dominant... Lack of adequate training in BIM... Lack of competence/expertise Uncertainty regarding ownership... Lack of BIM-enabled project... Lack of compatibility of BIM 3rd... Lack of suitable high speed... Lack of instructions on BIM... In compatibility of software Difficulty in managing resources... Cost of BIM-enabled collaboration... 0.3 0.5 0.7 0.9

Source: RICS June 2015 (RICS)

and Opportunity:

What separates a "good" from a "great" company?

When you look at leading companies – regardless of industry – there's one characteristic that they share:

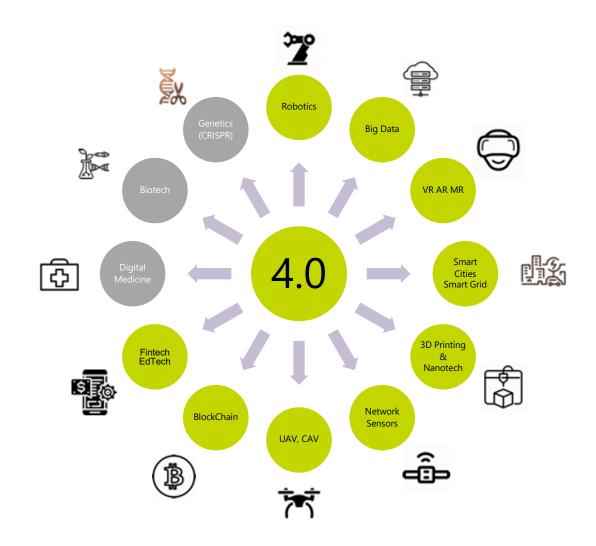
a strong company culture



12

Gutenberg moments

Silvija Seres



the 1st Platform

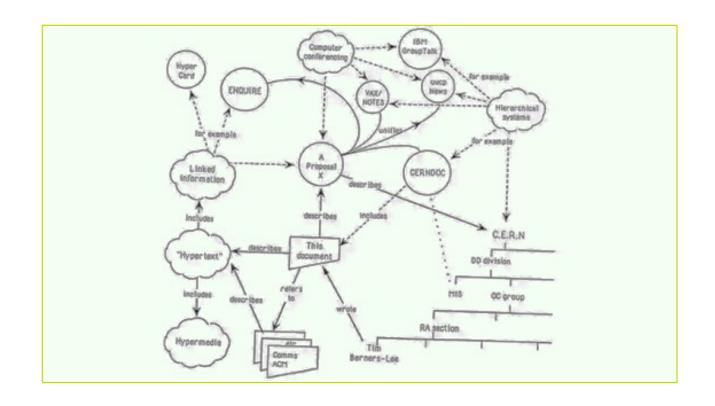
http://url.com/index.html

12 March 1989

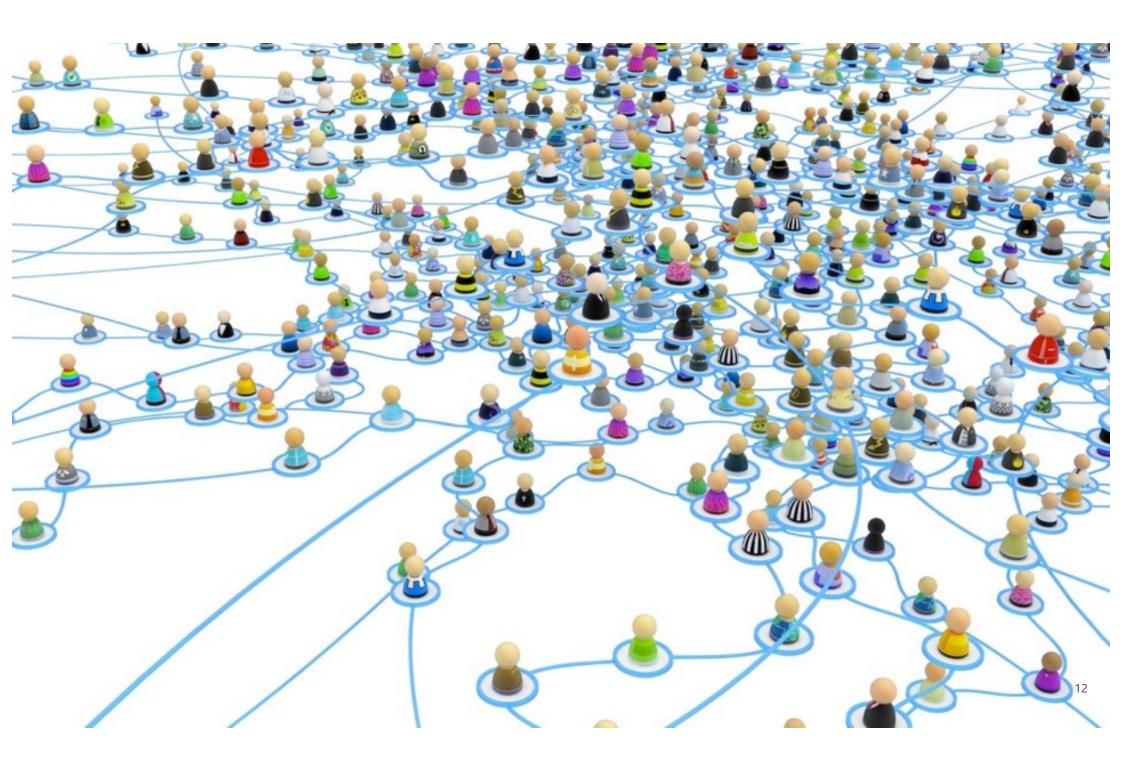
Information

"Vague... but exciting"

Anonymous TBL supervisor





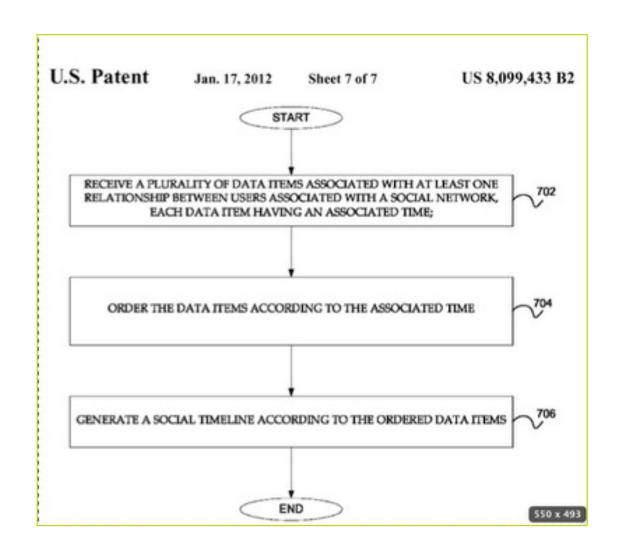


the 2nd Platform

@Social #trending

March 2004

People



the 3rd Platform

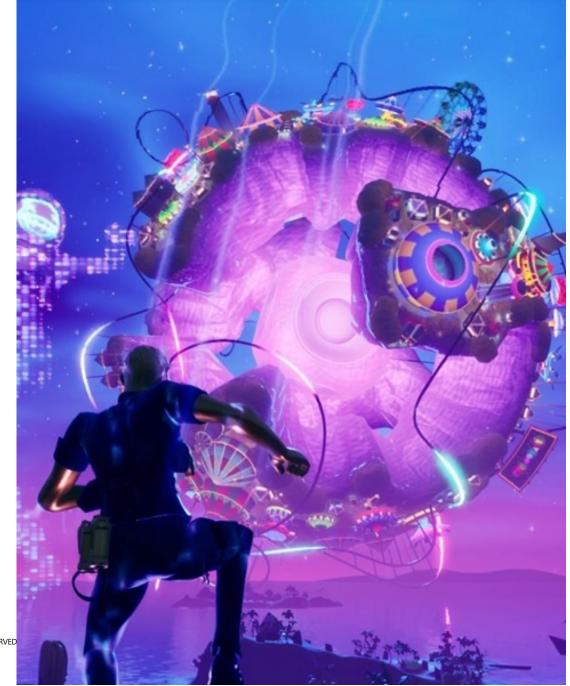
The Metaverse

2021

Persistent Digital Reality

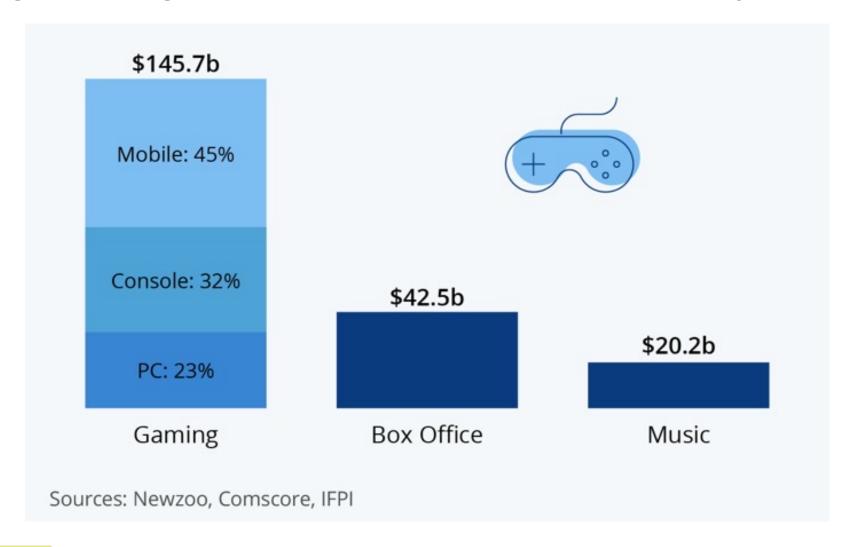
"We're Probably Living in a Simulation"

Elon Musk eBay co-founder, Tesla & Space X CEO





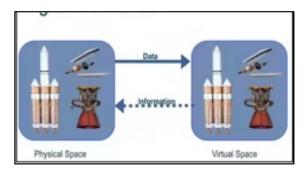
Gaming is the largest sector of the entertainment industry



AEC Industry | Gaming Technology Convergence

Digital Twinning

NNSN





Information Mirroring Model Product Lifecycle Management: Driving the Next Generation of Lean Thinking, (Grieves 2006)

Gaming Technology Acceleration









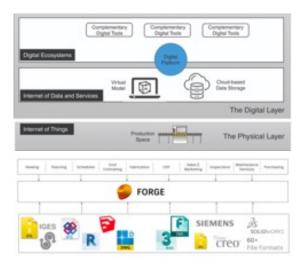
© VU-City 2020



© NVIDIA Omniverse

Cloud vendor Invasion in AEC





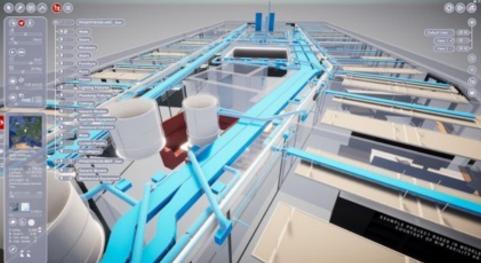


Persistent Visualisation Pipelines

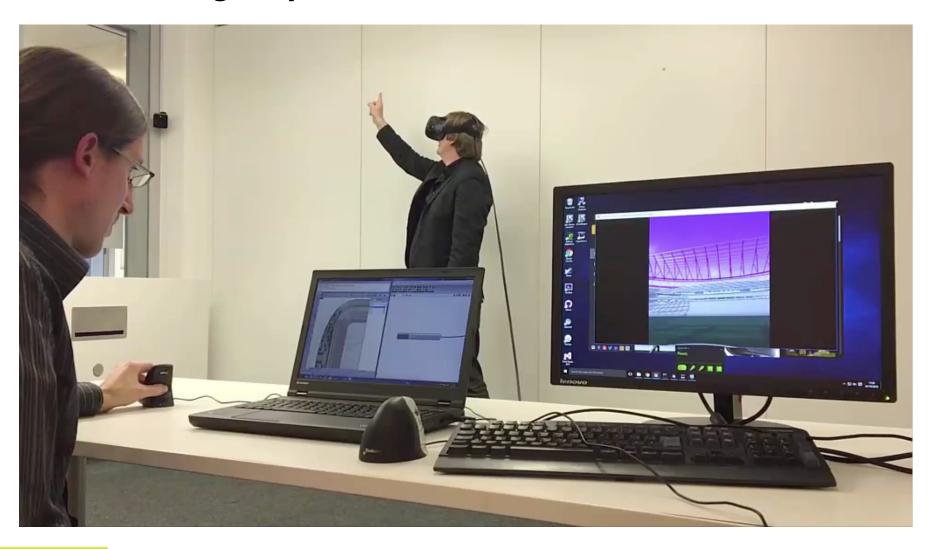


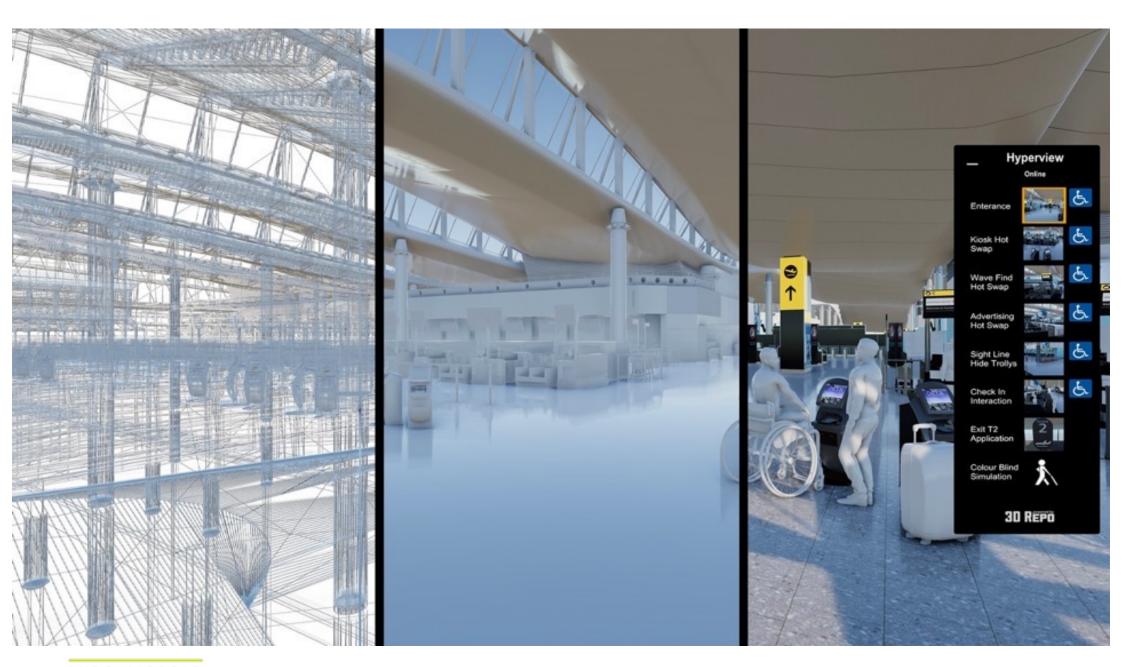






Live links to Design representations





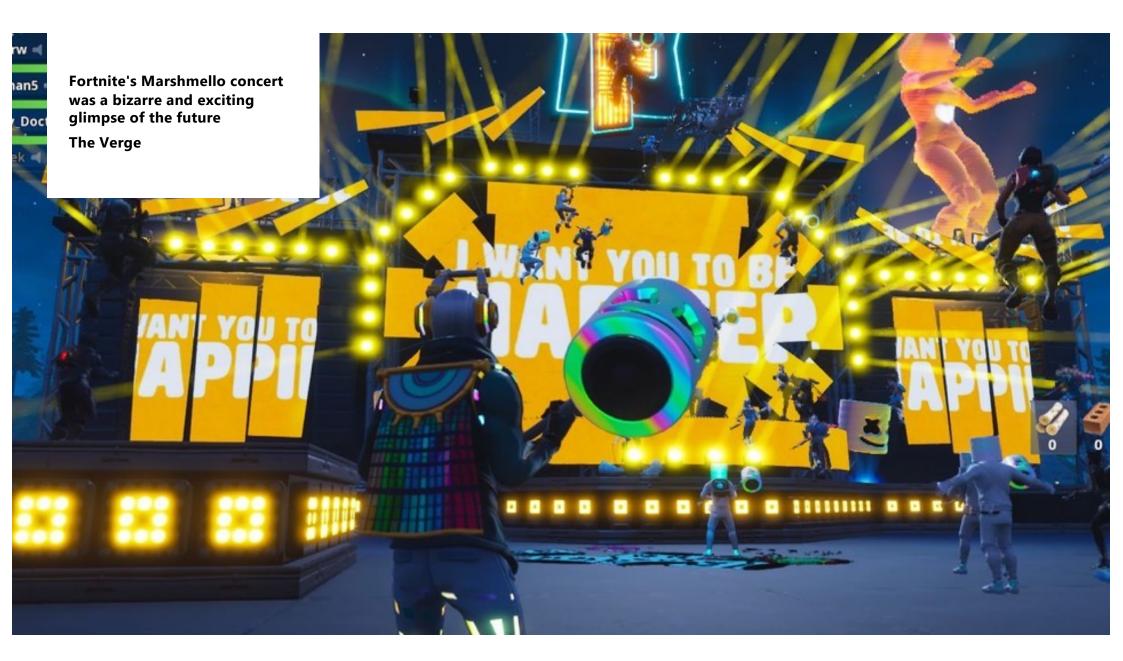


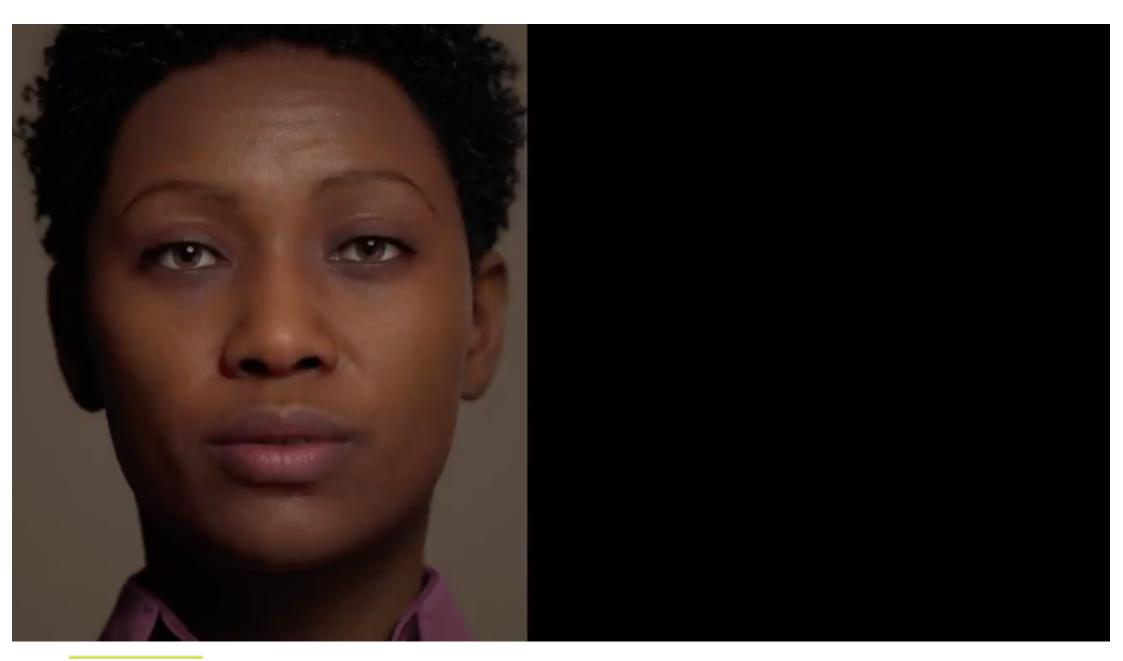


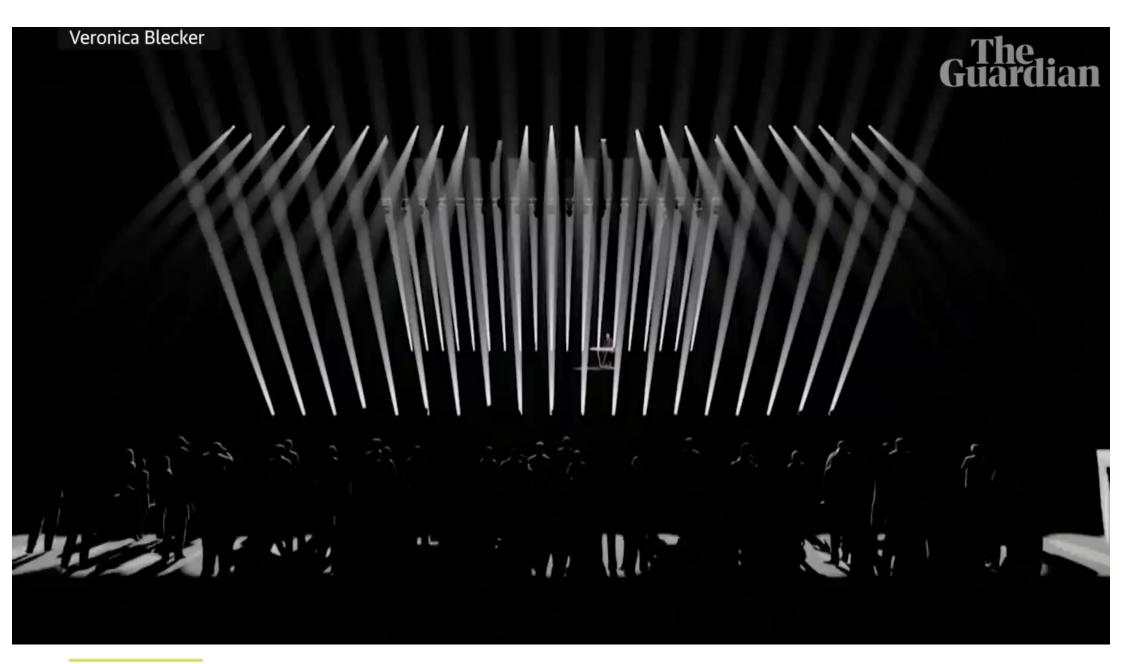
Real life in real time

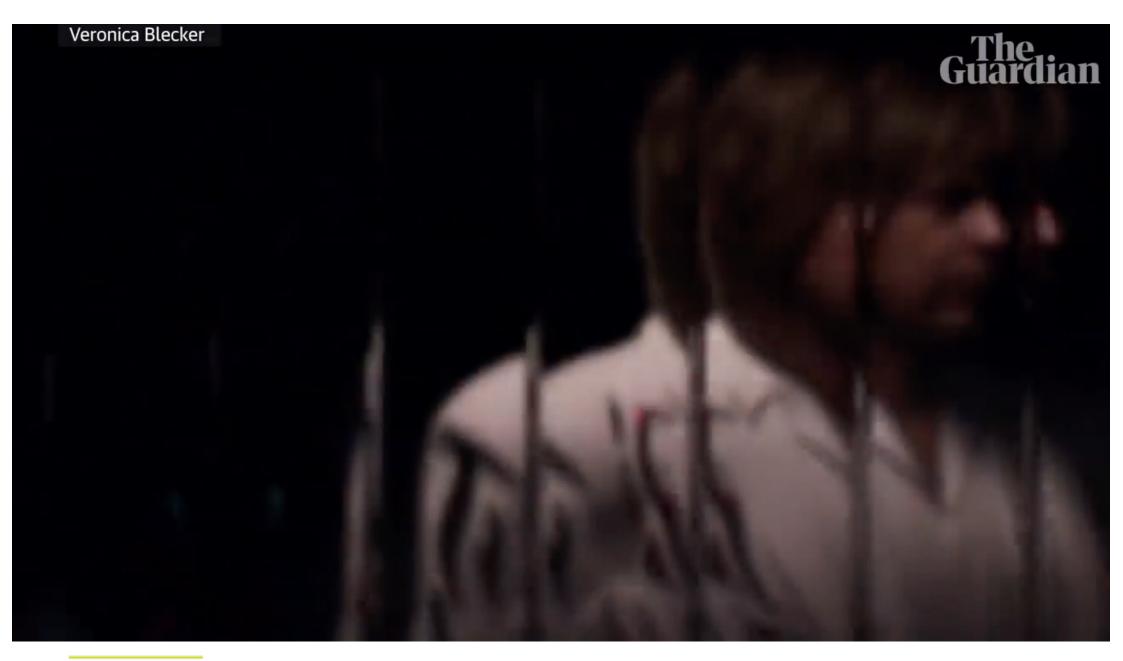
Building the Metaverse: a persistent, ubiquitous, real time digital layer providing (social) agency over society (and the built world)

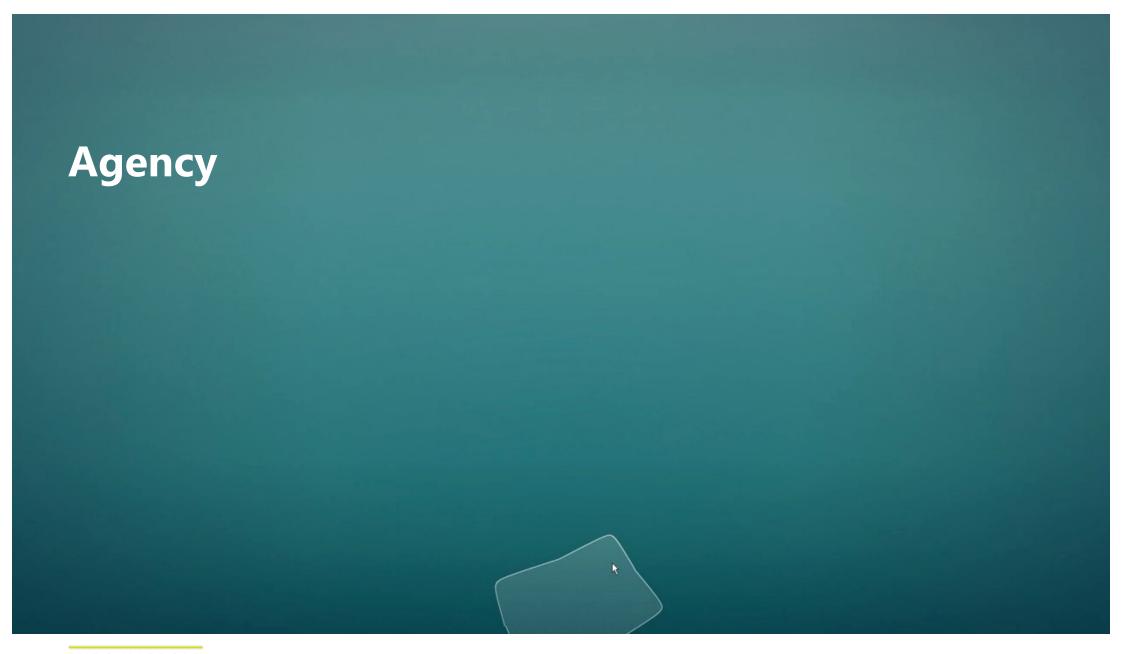


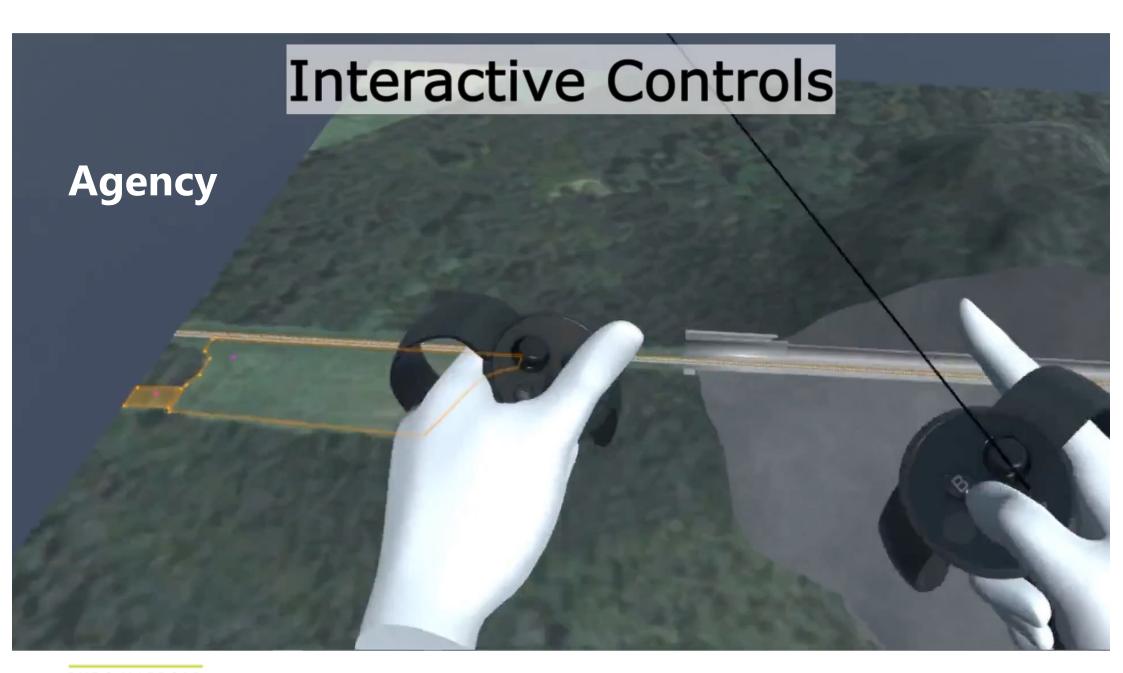




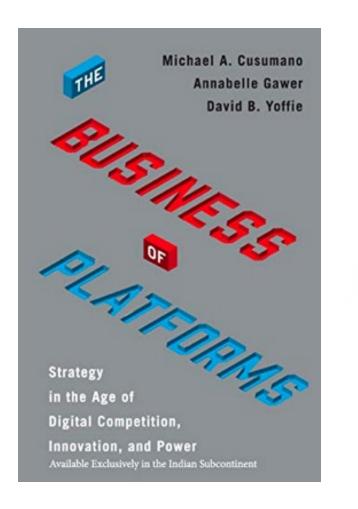


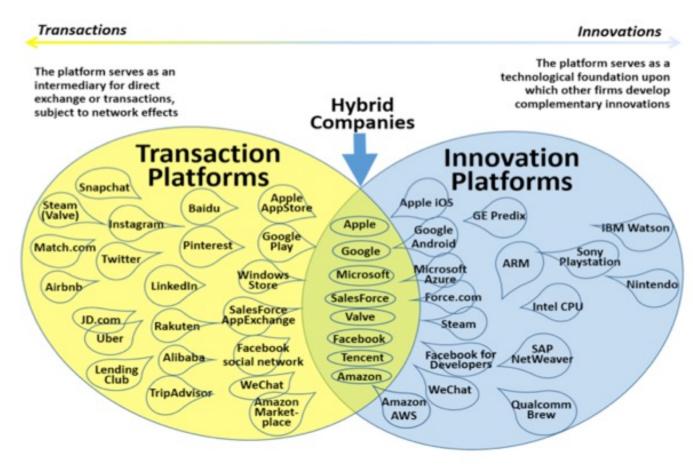






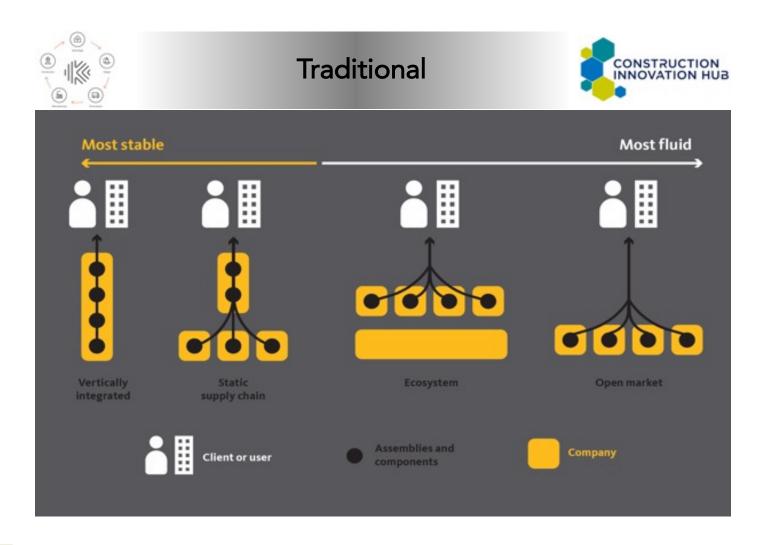
Platformisation 101





© Annabelle Gawer Professor in Digital Economy, Director, Centre of Digital Economy, University of Surrey Head, Department of Digital Economy, Entrepreneurship & Innovation, Surrey Business School

Enable a platform ecosystem for Built Asset delivery and operations



The Metaverse,

as a future medium, can be a much greater engine for economic efficiency than any of the closed systems that exists today"

> Tim Sweeney Epic Games CEO







Buro Happold

Equity + Sustainability + Technology

questions to @AlainWanderings

follow @burohappolo

