Human Factors in the Metaverse?

Could it be 'Better than Real Life'?

Virtual Training Spaces for Non-Technical Skill Development

Denis Manson – **Ten Hammers**

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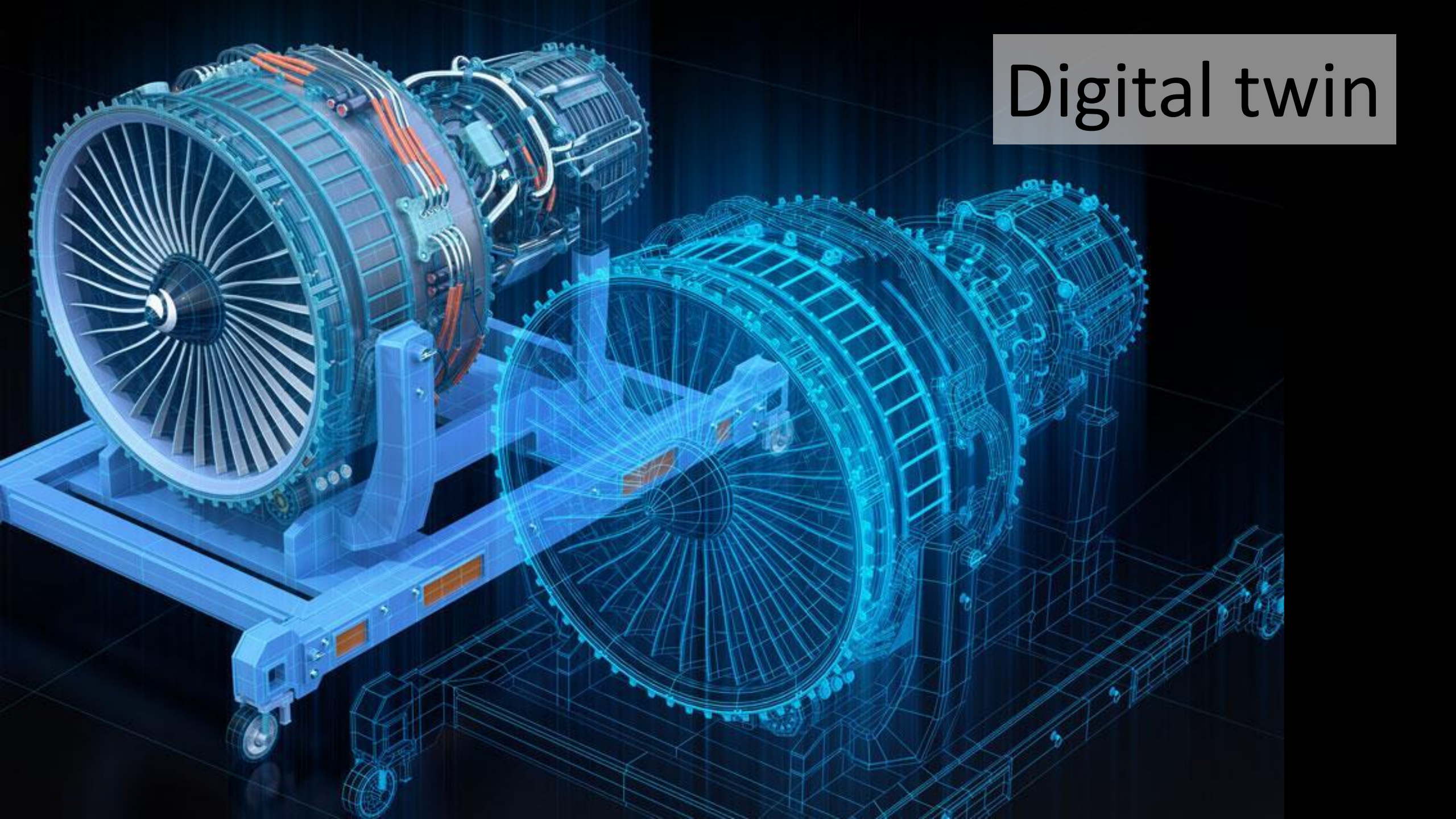
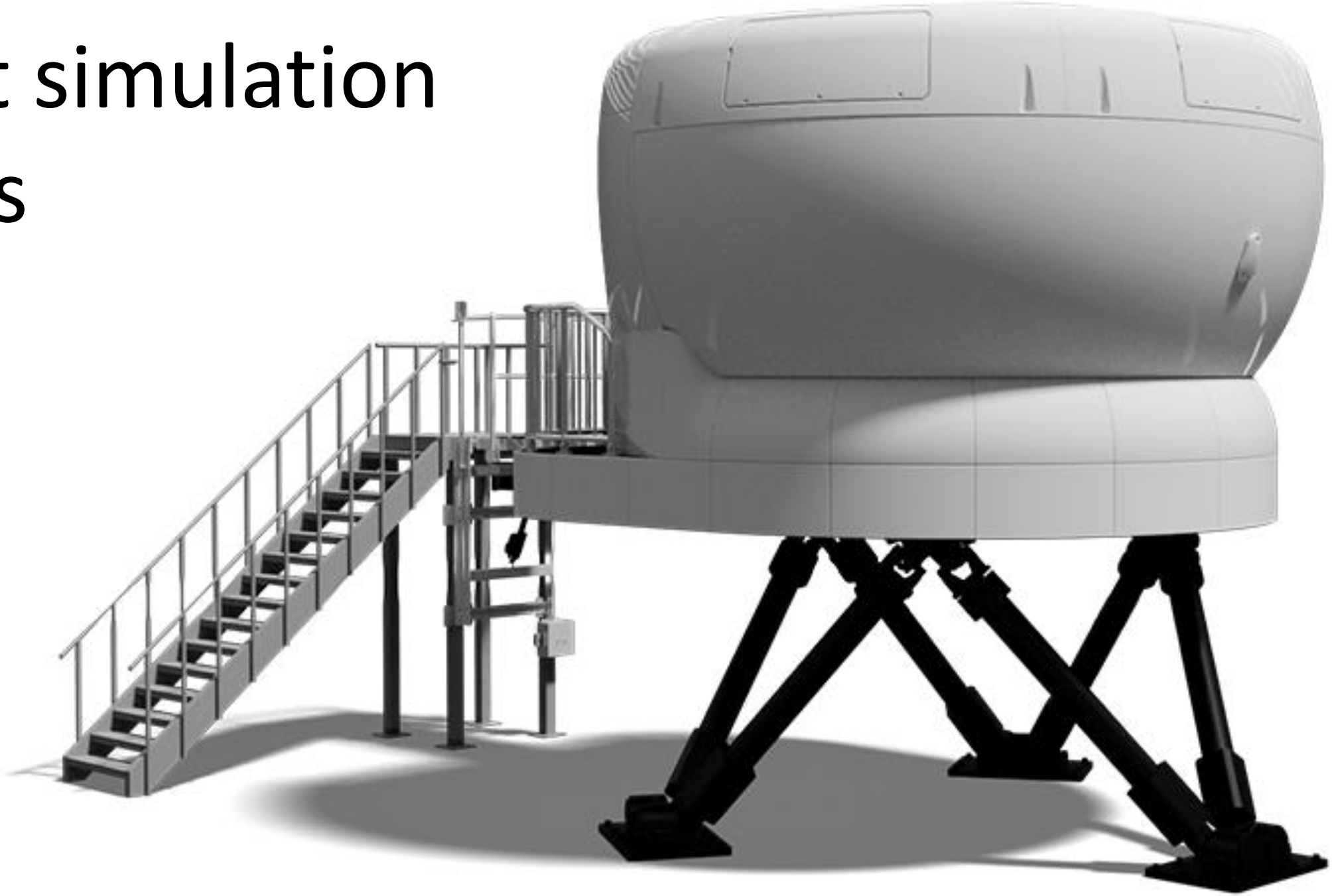
apats2023
SINGAPORE

Future?


Digital twin

Flight simulation 1920s

Flight simulation 2020s



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Dangerous

Engine failure in flight

Impossible

Walking on Mars

Counterproductive

Drink driving education

Expensive

Fuel burn

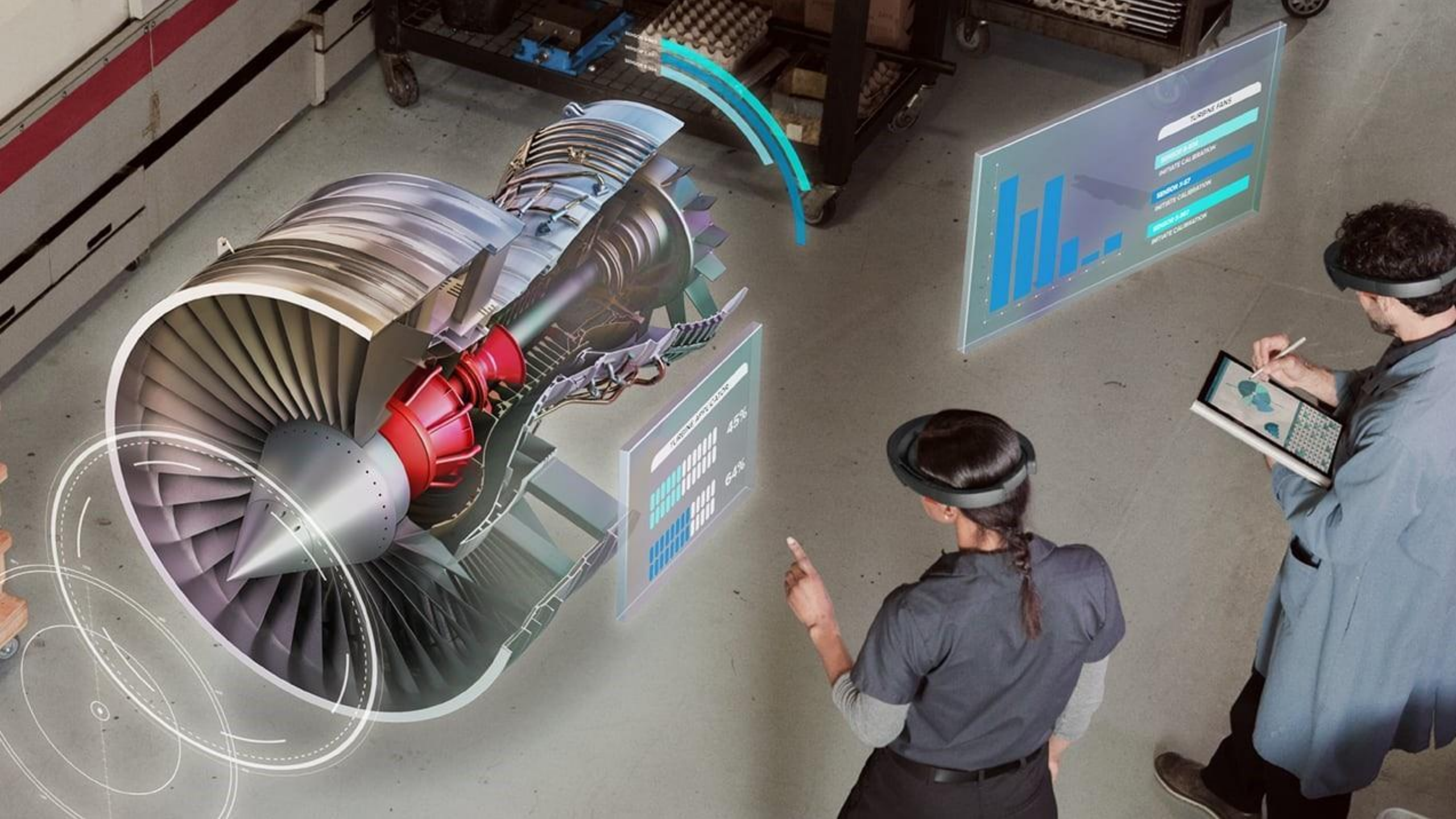
Repetition

Practice makes perfect

Variability

Simplification

Making small things large
Making large things small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OPEN
MANUAL
VIVE

- **Dangerous** — Interviewing psychopaths
- **Impossible** — Conversing freely in Swahili
- **Counterproductive** — Use experimental social techniques
- **Expensive** — Bringing a group together

- **Repetition** — Practice makes perfect
- **Variability** — Depth, breadth of experience

Real human to ‘virtual’ human

e.g. interviewing skills, customer service skills

≡ Forbes

Virtual Humans Outperform Real People Teaching Career Leadership Skills, Study Finds

Bryan Robinson, Ph.D. Contributor ⓘ

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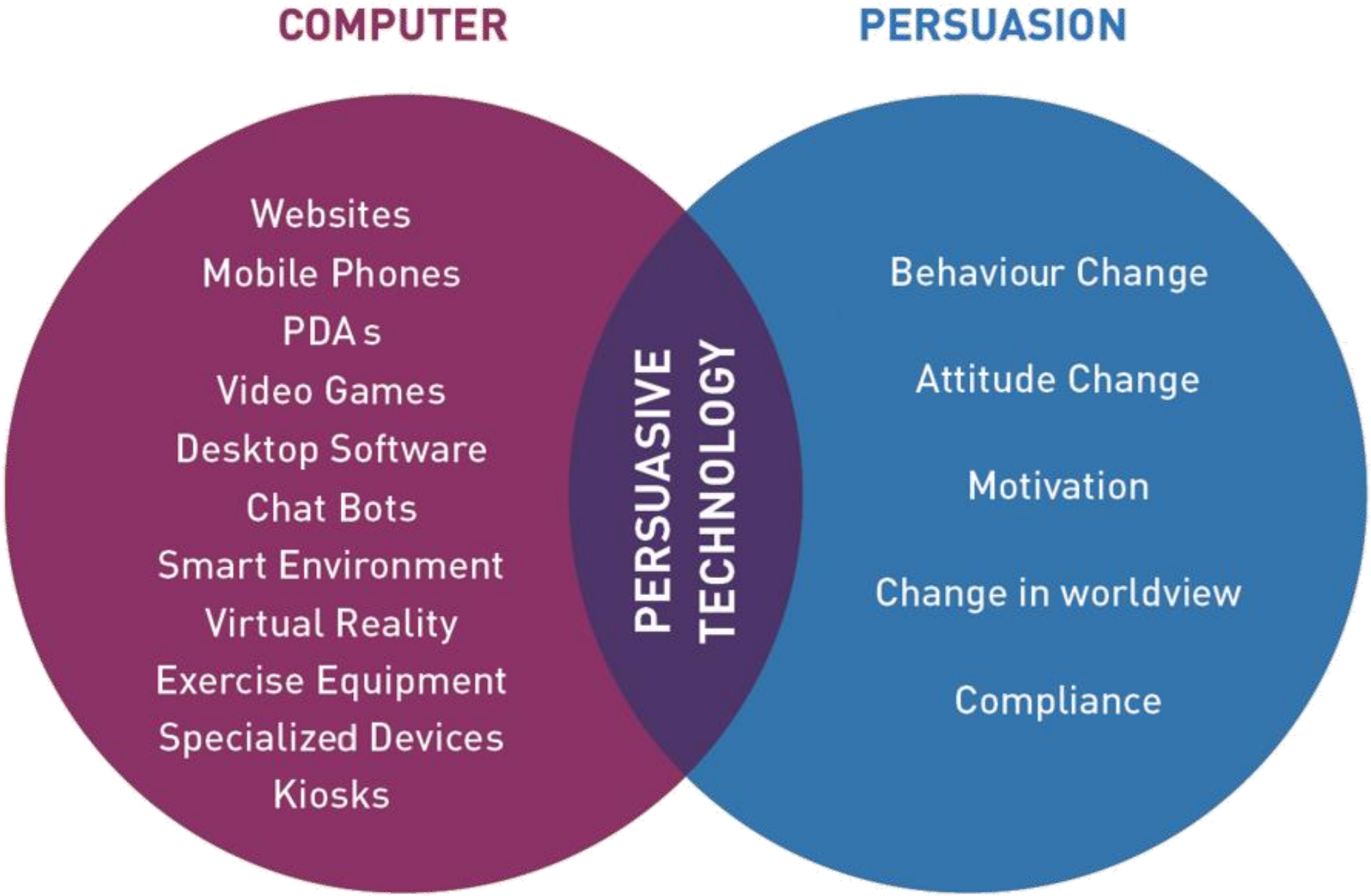

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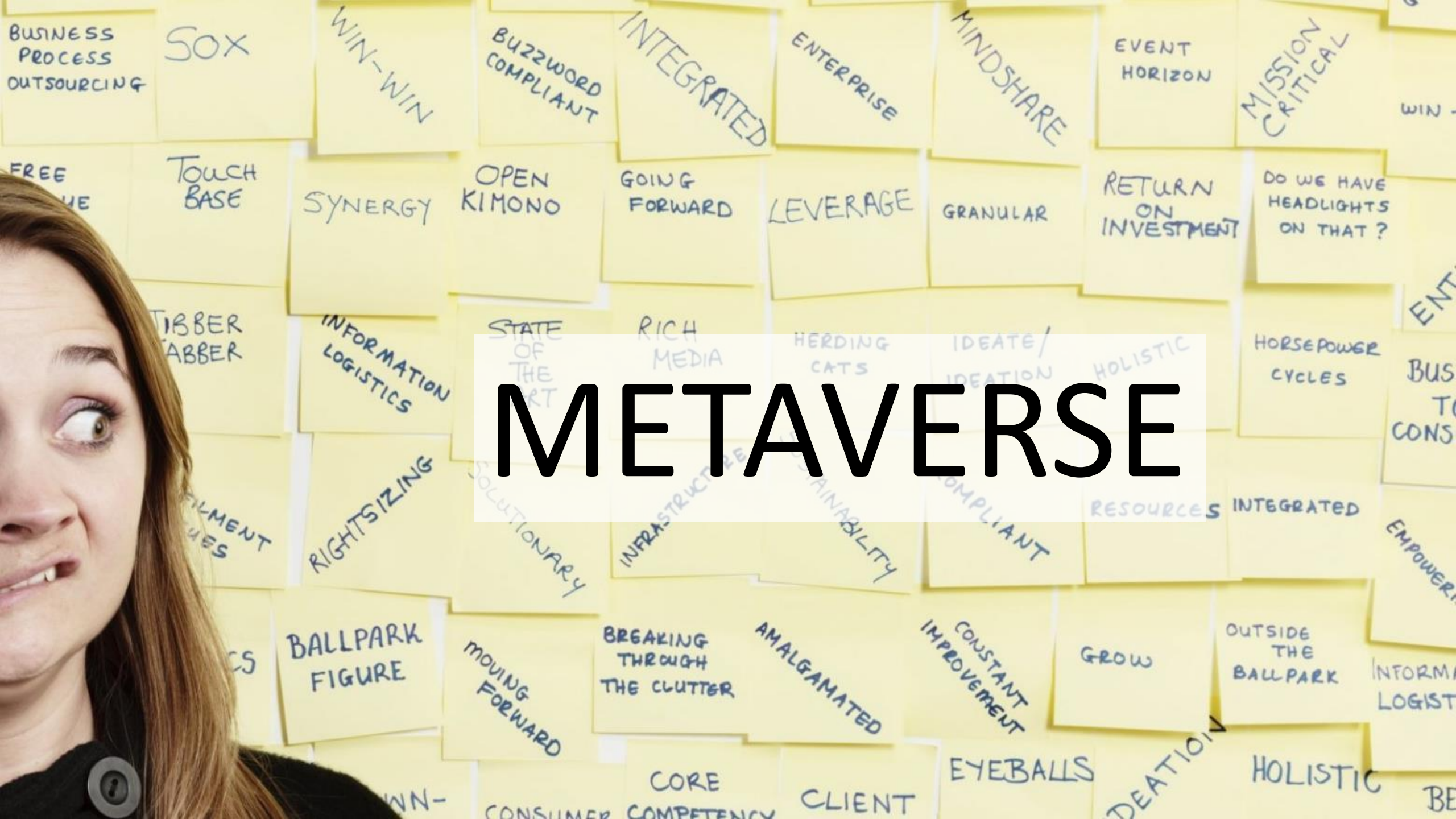
BUSINESS PROCESS OUTSOURCING
SOX
WIN-WIN
BUZZWORD COMPLIANT
INTEGRATED
ENTERPRISE
MINDSHARE
EVENT HORIZON
MISSION CRITICAL
TOUCH BASE
SYNERGY
OPEN KIMONO
GOING FORWARD
LEVERAGE
GRANULAR
RETURN ON INVESTMENT
DO WE HAVE HEADLIGHTS ON THAT?
INFORMATION LOGISTICS
RICH MEDIA
HERDING CATS
IDEATE/ IDEATION
HOLISTIC
HORSEPOWER
CYCLES
RIGHTSIZING
RESOURCES
INTEGRATED
BALLPARK FIGURE
MOVING FORWARD
BREAKING THROUGH THE CLUTTER
AMALGAMATED
CONSTANT IMPROVEMENT
GROW
OUTSIDE THE BALLPARK
EYEBALLS
HOLISTIC
CORE COMPETENCY
CLIENT

METAVERSE

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Alex
ErikH
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Wes
VirBELA Dev
Nicole
VirBELA Artist
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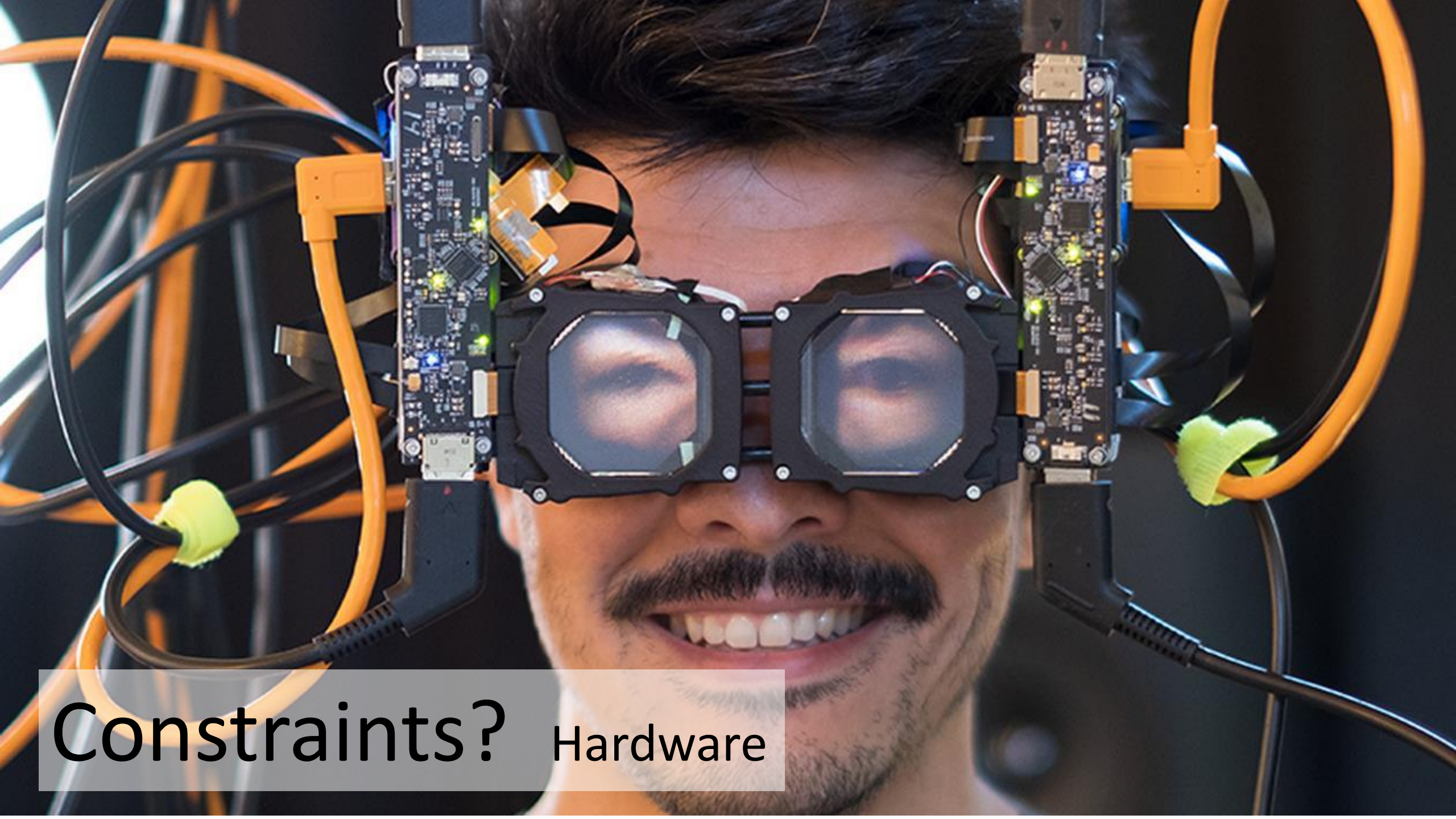
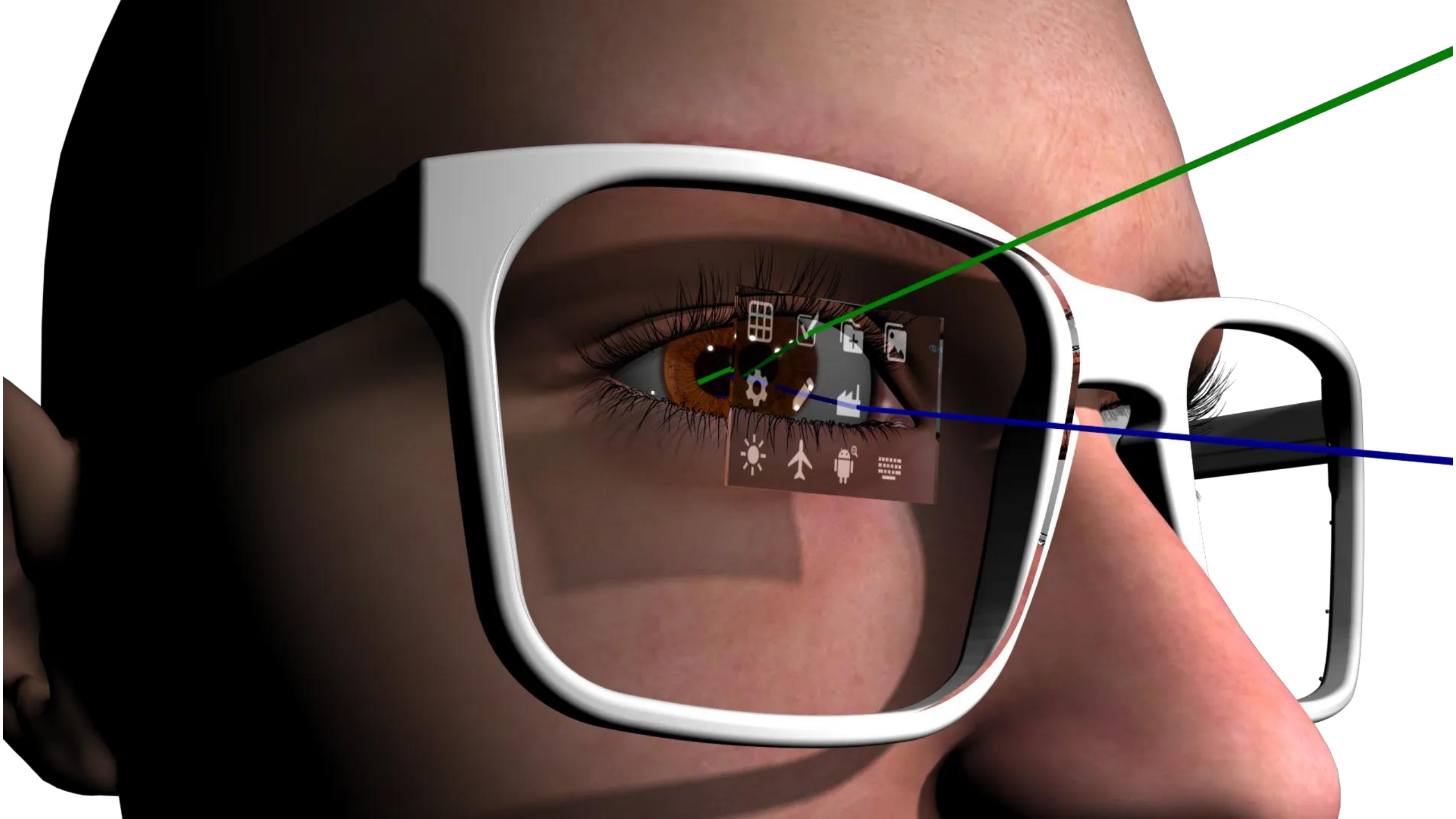
Virtual interaction

Constraints? Eeeew



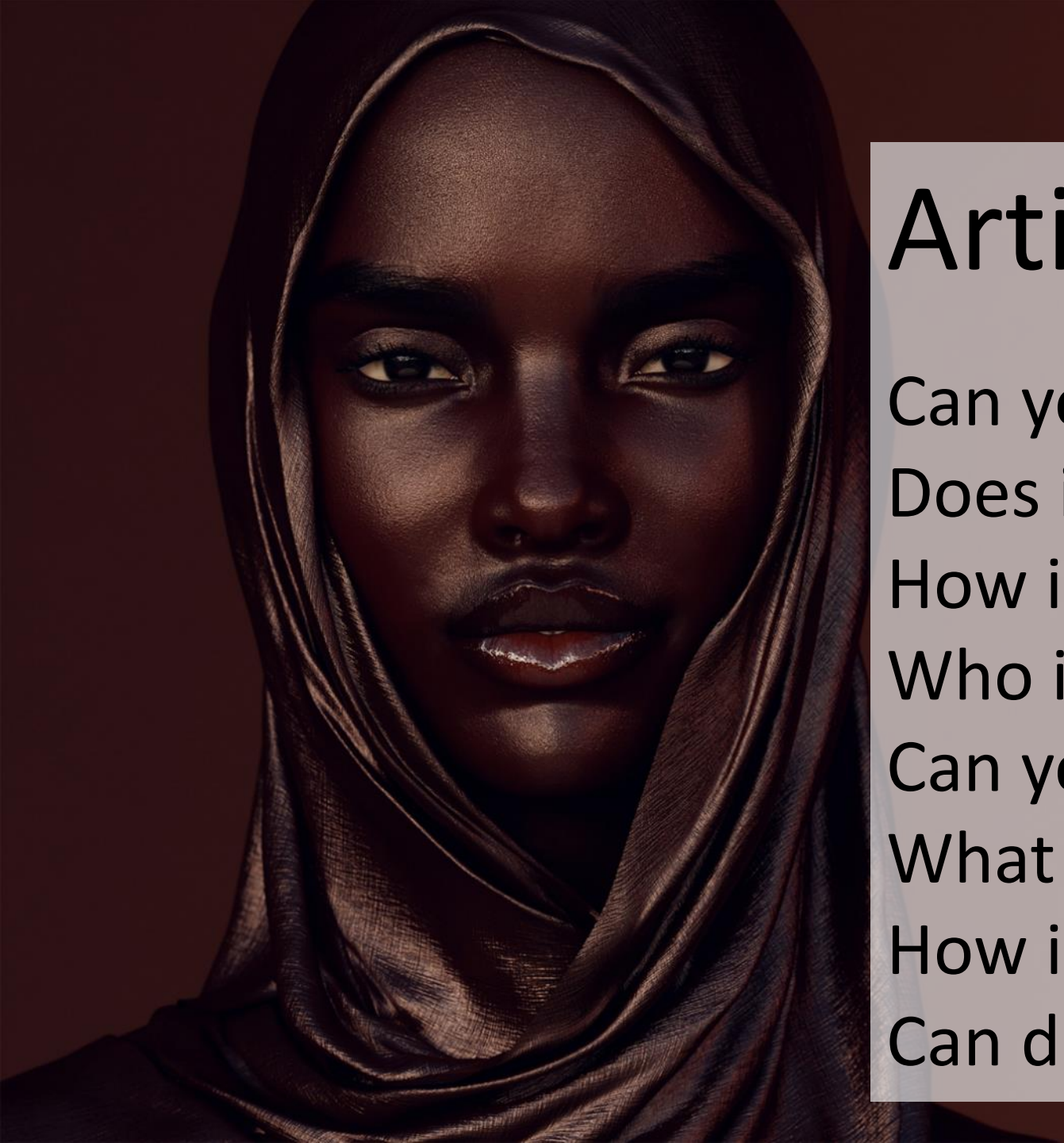
Constraints? Hardware



THIS IS XR

Constraints? Cost

Constraints? Artificial intelligence



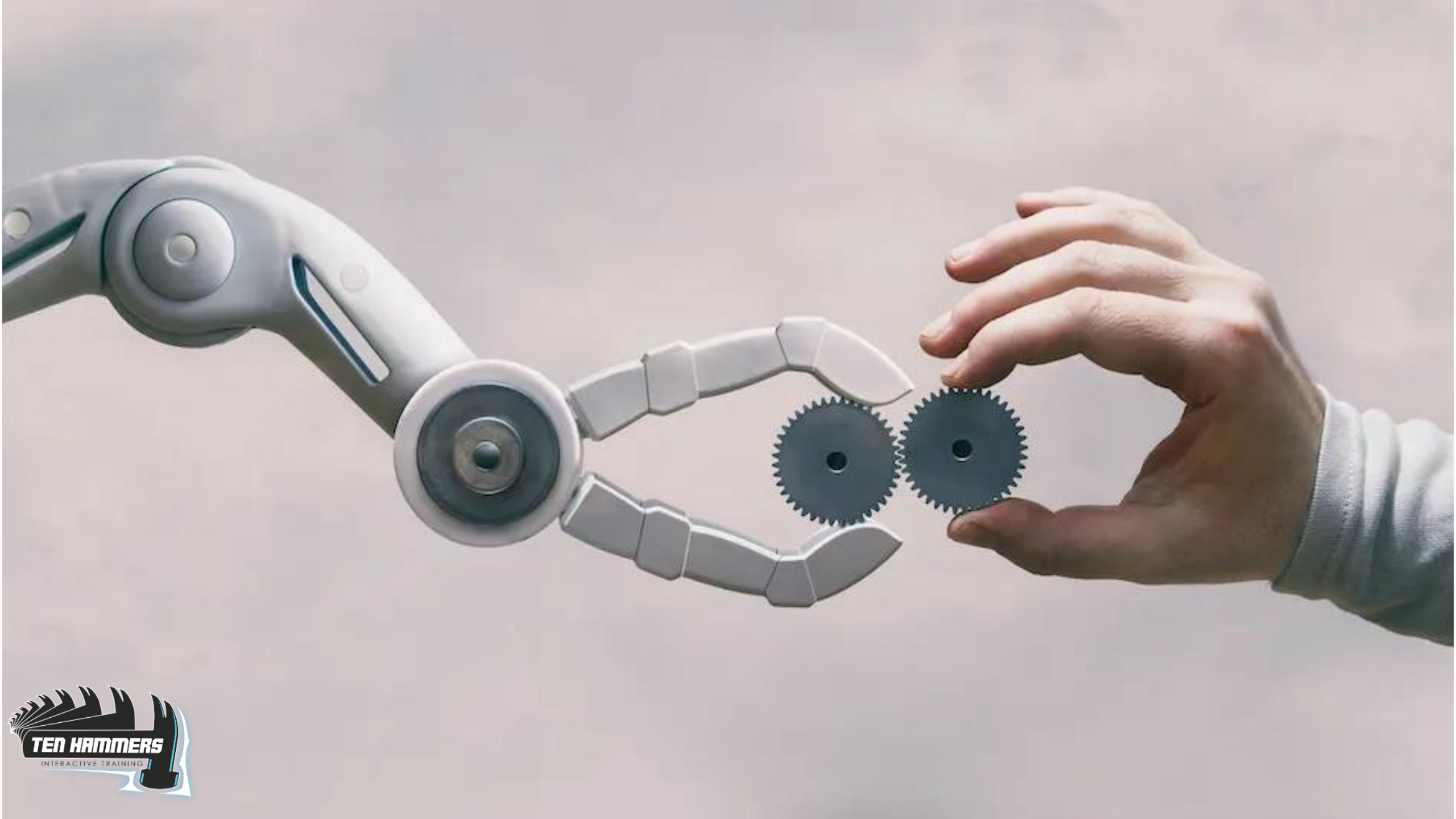
Artificial intelligence

(from Oppermann)

Can you tell?
Does it matter?
How is it qualified?
Who is responsible?
Can you trust it?
What is happening to my data?
How informed is my consent?
Can decisions be explained?

Ethical constraints?

Personal agency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Thank you