



Using AI & IoT to transform the world of energy & services

Workplace Futures 2024



The context #1 the AI race



Britain aims for global leadership role with AI safety summit

Global AI Safety Summit

"There will come a point where no job is needed - you can have a job if you want one for personal satisfaction but AI will do everything"

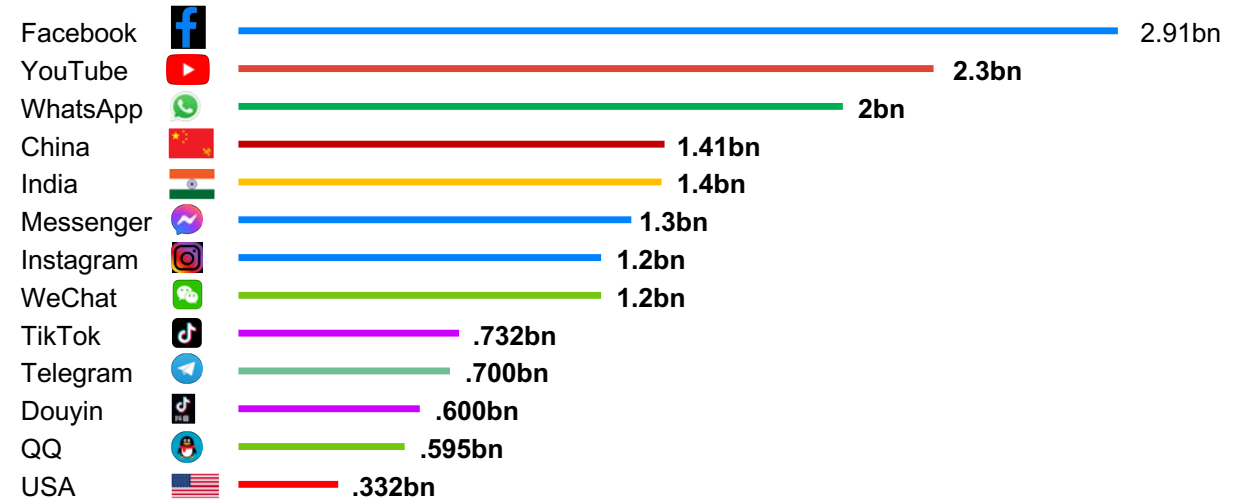
Elon Musk – Nov 23

The context #2 big tech

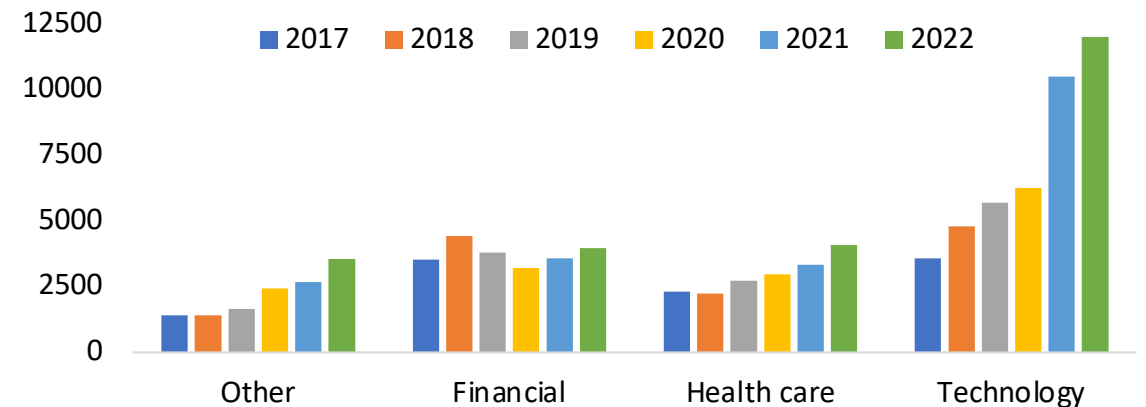
Tech companies are “bigger” than countries.

Country / Company	Nominal GDP (country) or Market Cap (company)
1. United States of America	\$21,433 B
2. China	\$14,343 B
3. Japan	\$5,082 B
4. Germany	\$3,861 B
5. India	\$2,869 B
6. United Kingdom	\$2,829 B
7. France	\$2,716 B
8. Apple	\$2,125 B
9. Italy	\$2,004 B
10. Microsoft	\$1,942 B

Active users of online platforms Vs country populations (billions)



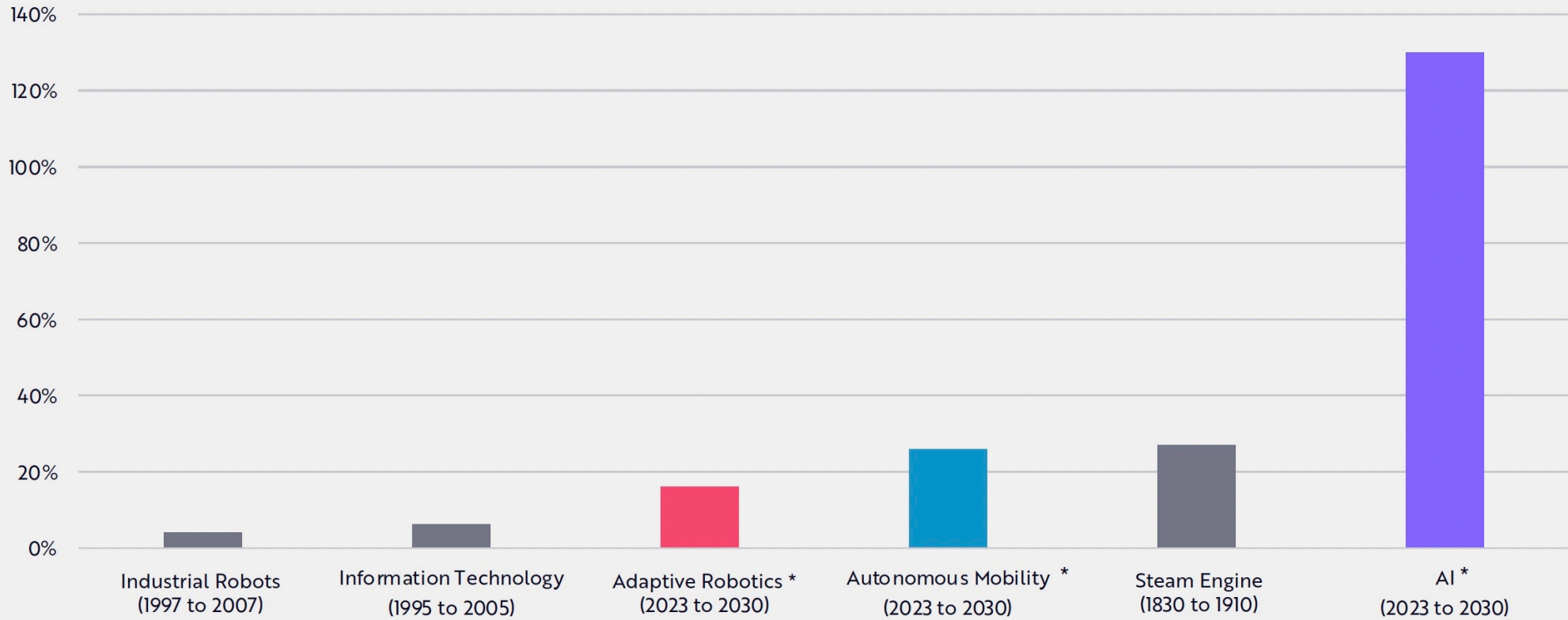
Relative size of economic sectors by market capitalization: 2017 - 2022



The context #3 the impact of AI?

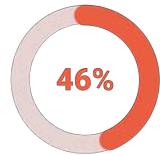
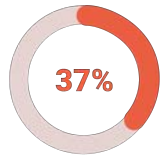
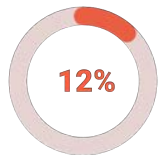
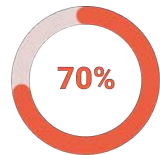
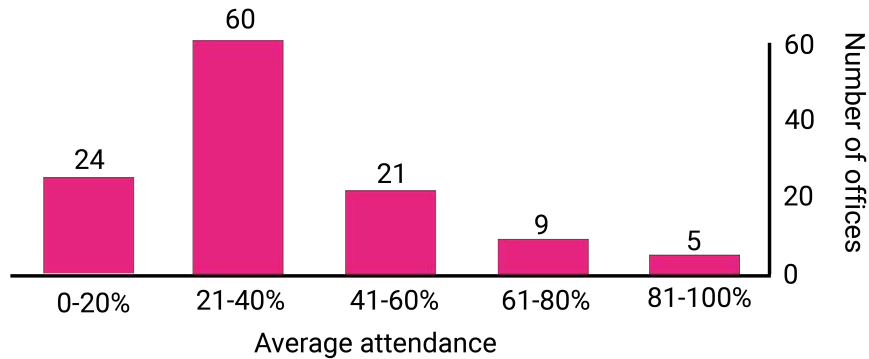
Economic Impact of Select Major Technologies

(Cumulative Increase In Real GDP Attributable to Technology After Introduction)



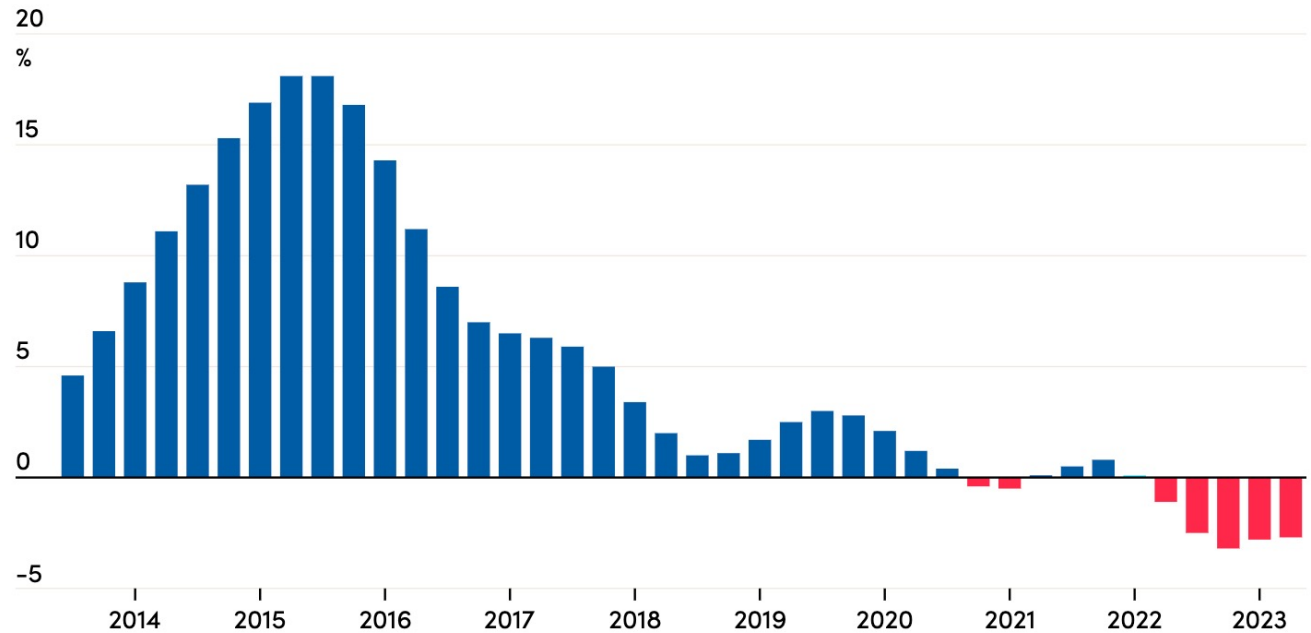
The context #3 post Covid working

Attendance Distribution



The office market is slowing

Change in average market sale price compared to the same quarter last year, UK (%)



CoStar, 2023

The context #4 our climate

January 2024 was the warmest January on record globally. ***This is the eighth month in a row that is the warmest on record for the respective month of the year.*** The global mean temperature for the past twelve months (Feb 2023 – Jan 2024) is the highest on record, ***1.52°C above the 1850-1900 pre-industrial average.***



Net Zero

UK legislation:
Net Zero by 2050



Energy Security

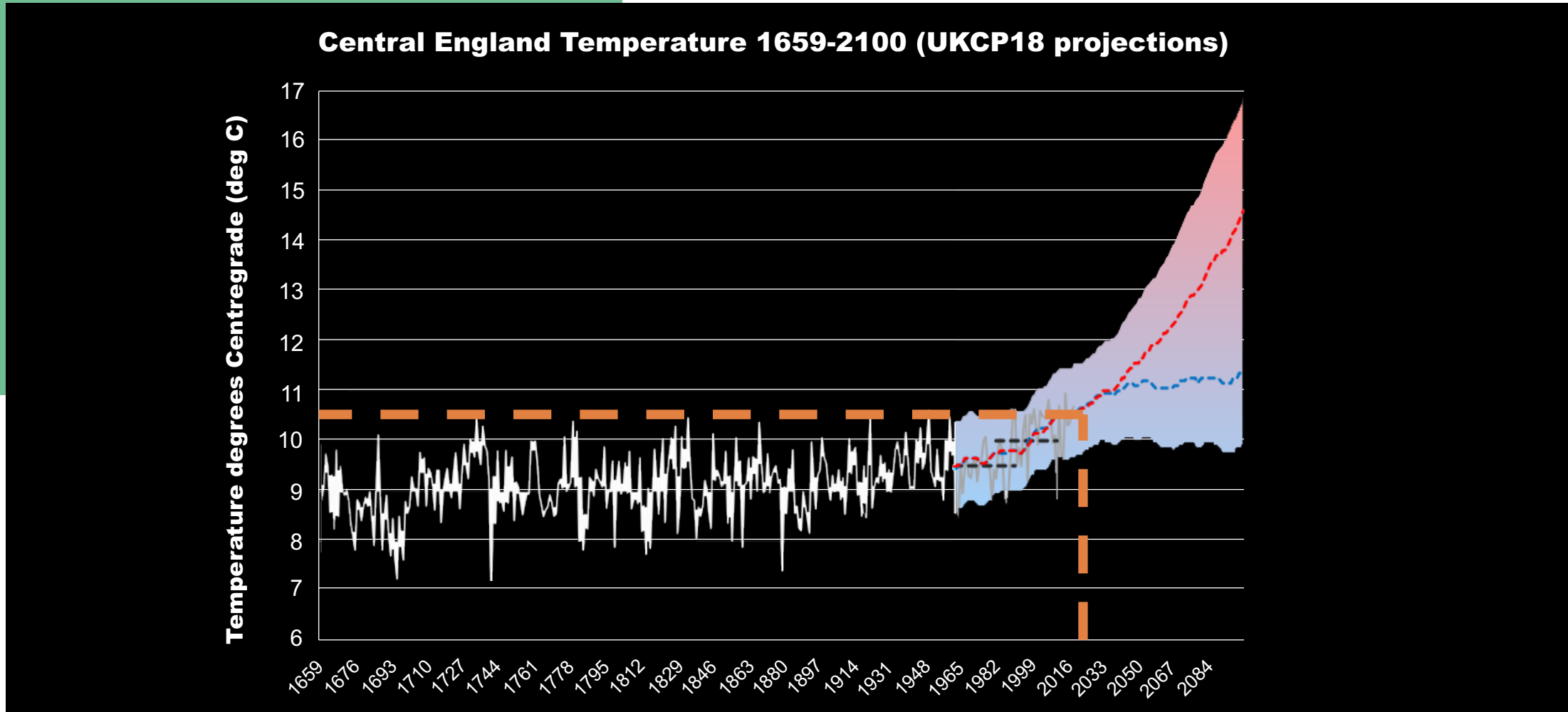
Geopolitical volatility



Climate Adaptation

Physical impacts of
climate change

The context #5 our climate... is already changing



The context

1. Countries are fighting for a slice of the AI revolution, to protect their future economic status
2. Big tech is bringing technological change at a pace and scale never seen before
3. The way we interact with work & physical environment has changed, permanently
4. Net zero is no longer enough... Our climate is already changing



The physical impacts of climate change



Physical risks for UK cities, buildings & infrastructure



Overheating

Heat stress is recognized as a major contributor to poor health outcomes, low productivity and excess deaths ¹



Flash flooding

Zurich estimates 2/5 of London businesses are at serious risk of flash flooding ⁴



Storm damage

320% increase in major UK storms 2010 – 2020 ²



Water scarcity

Dry summers are forecast to increase by up to 50% ⁷



Wild-fires

400% increase in wildfires in the UK since 2018 ³



Are your buildings climate safe?

Let's talk about climate change
adaptation for buildings



Equans' climate risk, adaptation and resilience services

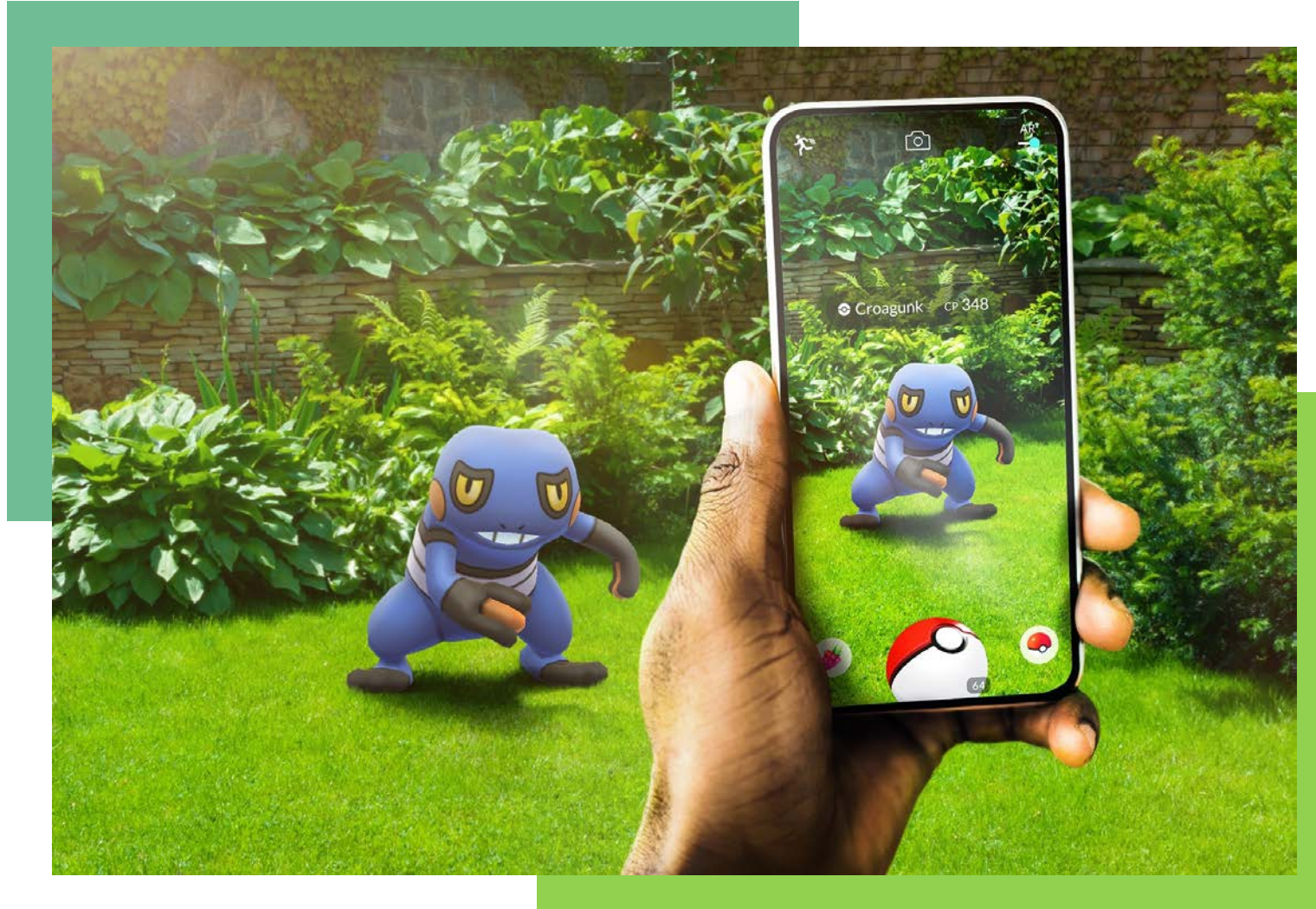


Equans Climate Risk, Adaptation and Resilience Service

1. Location specific climate risk analysis
2. Physical building adaptations e.g. property flood resilience measures
3. IoT sensor & weather data to generate predictive analytics
4. Mitigation plan & response team

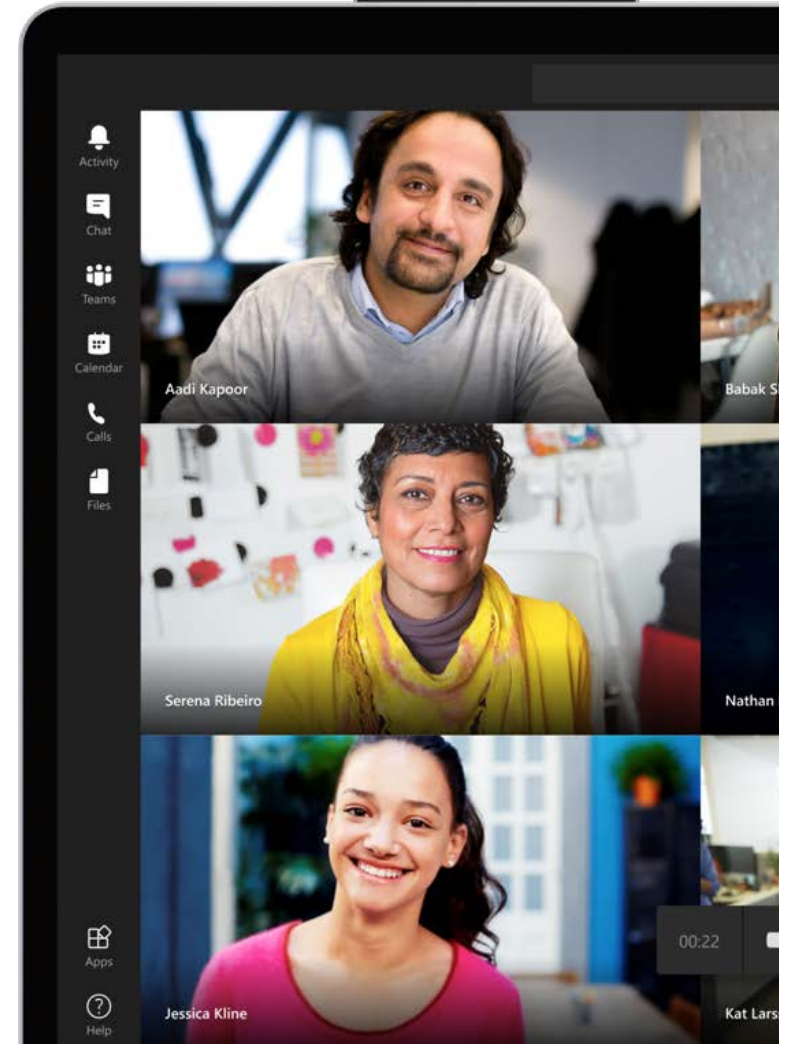
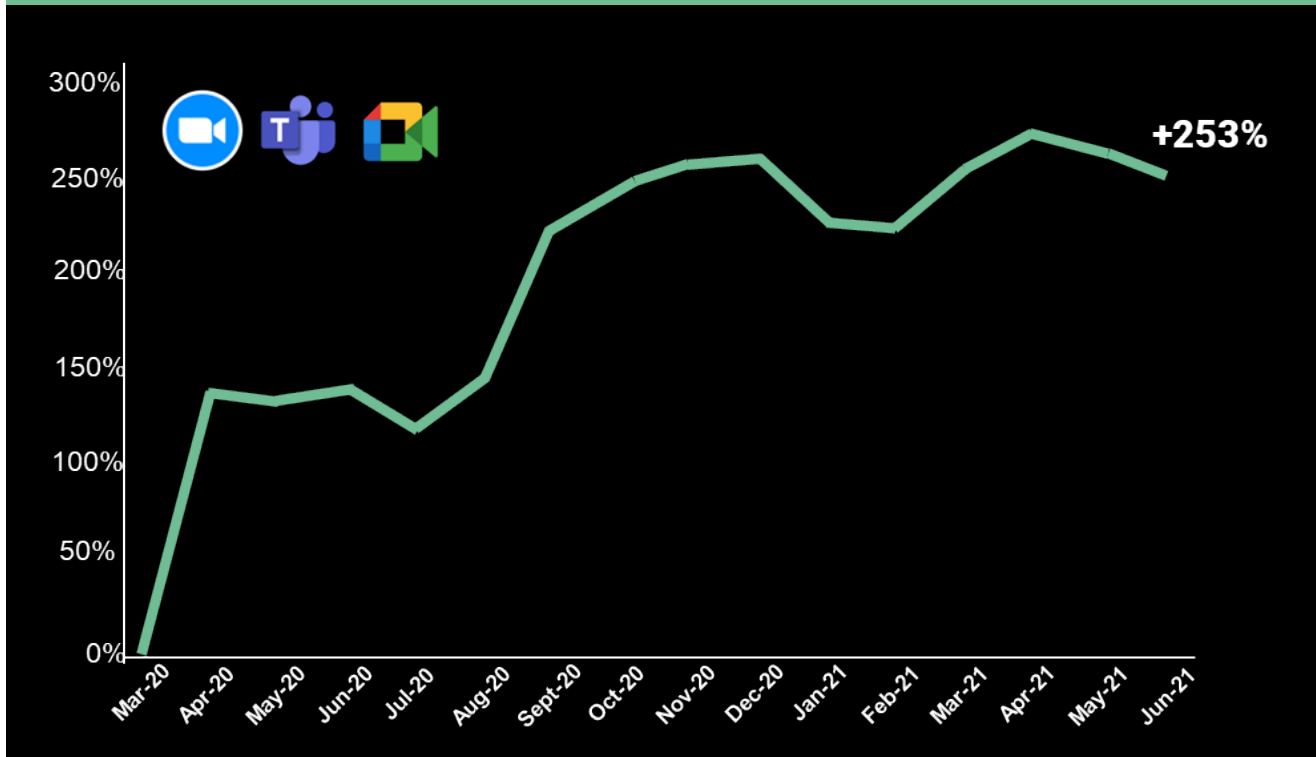
**Reduced likelihood and value of claim.
Enhanced resilience for customers**

Technology in the workplace

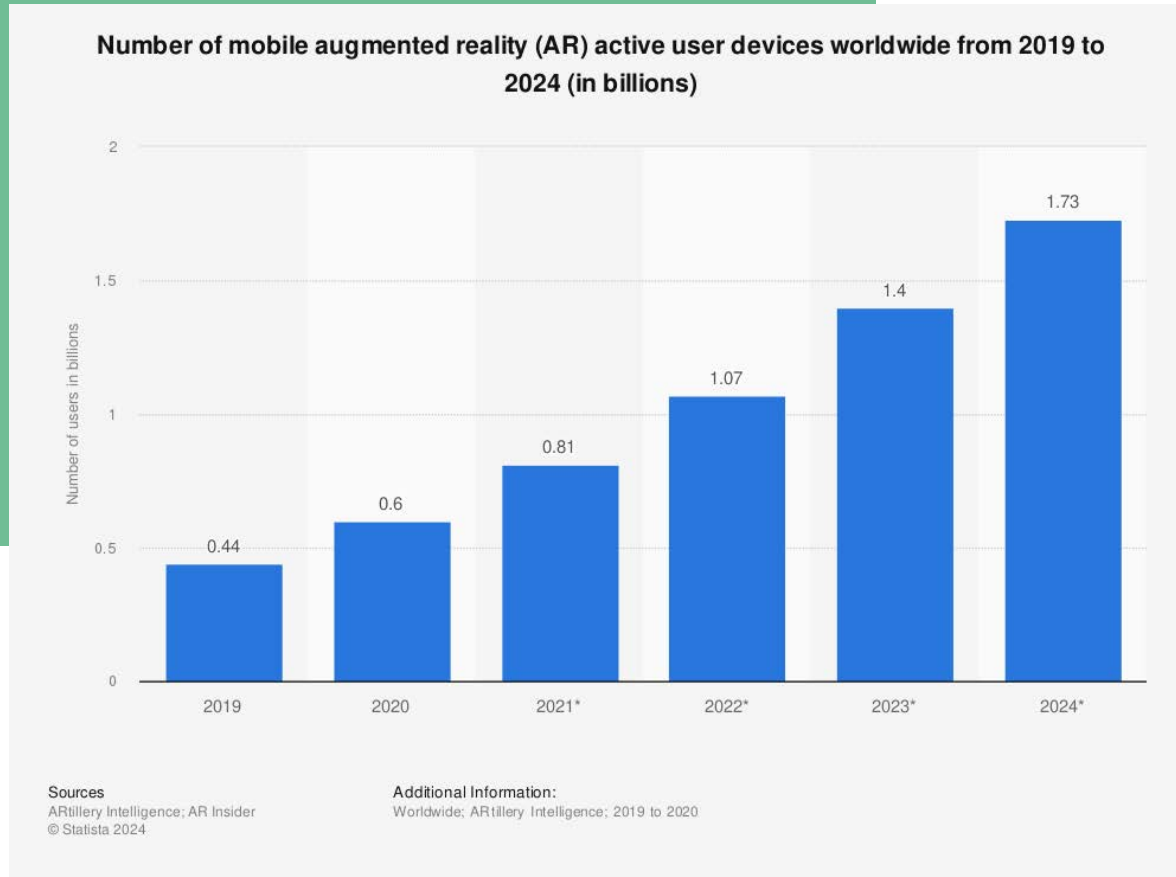


Physical presence is no longer required for many tasks

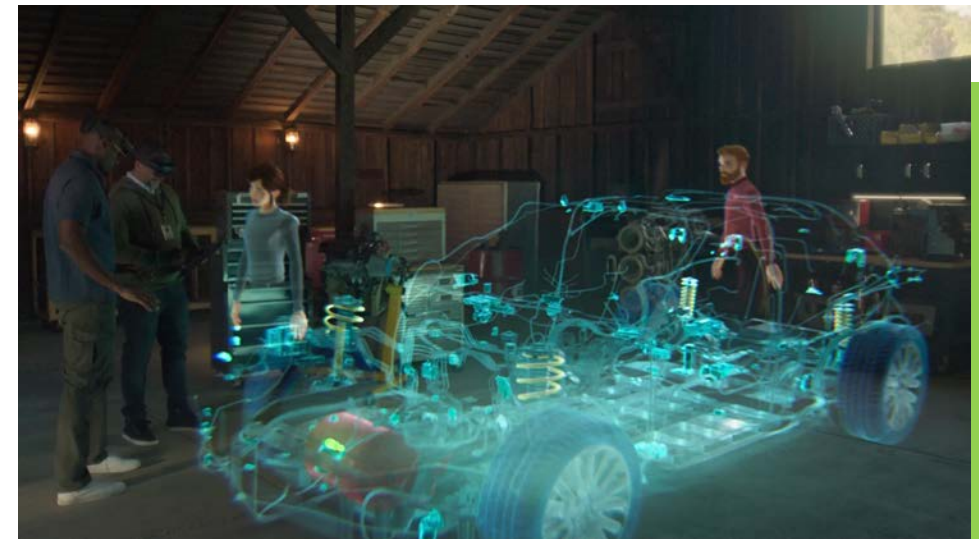
Growth in Global Monthly Active users of Video Conferencing Apps



Augmented Reality

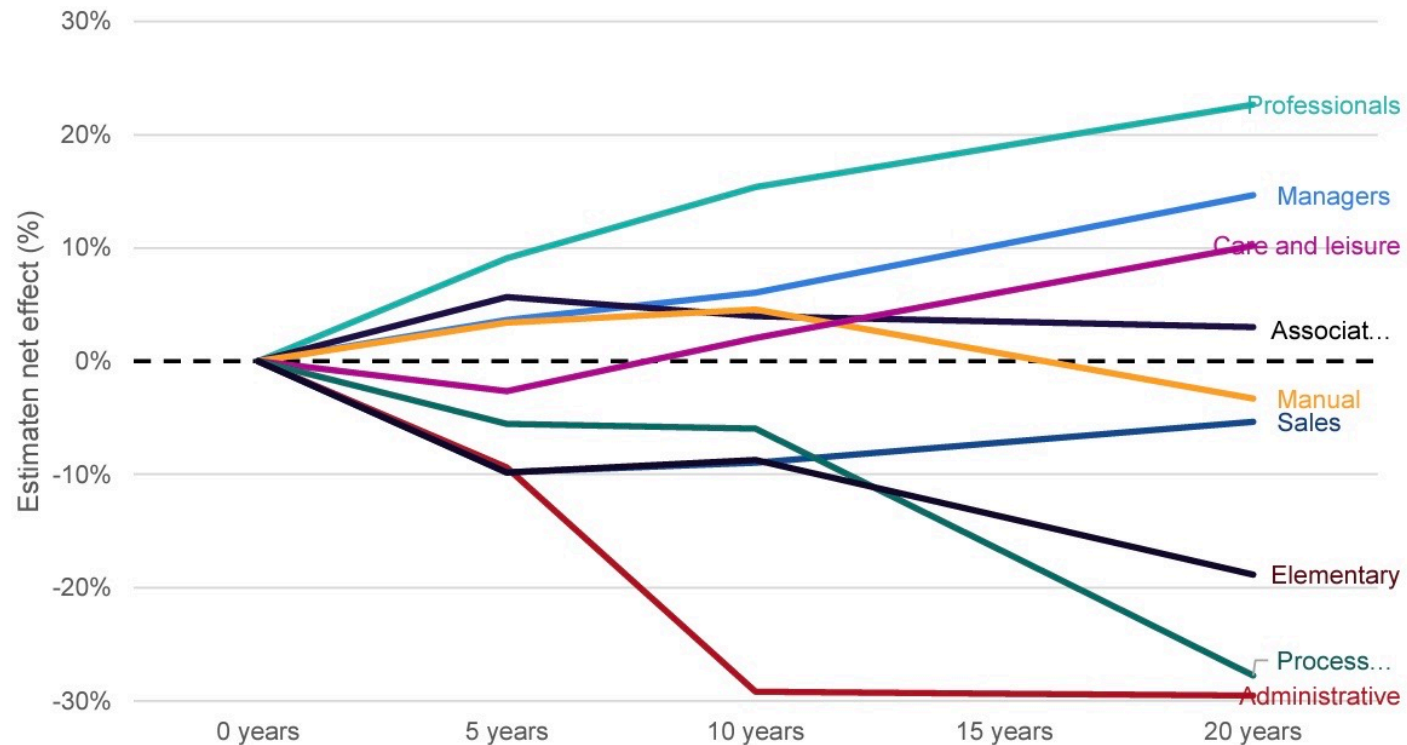


Tools such as Microsoft Mesh bring digital interaction that can replace in person collaboration



Automation of tasks is increasing the reduction of physical presence and... in certain cases, jobs.

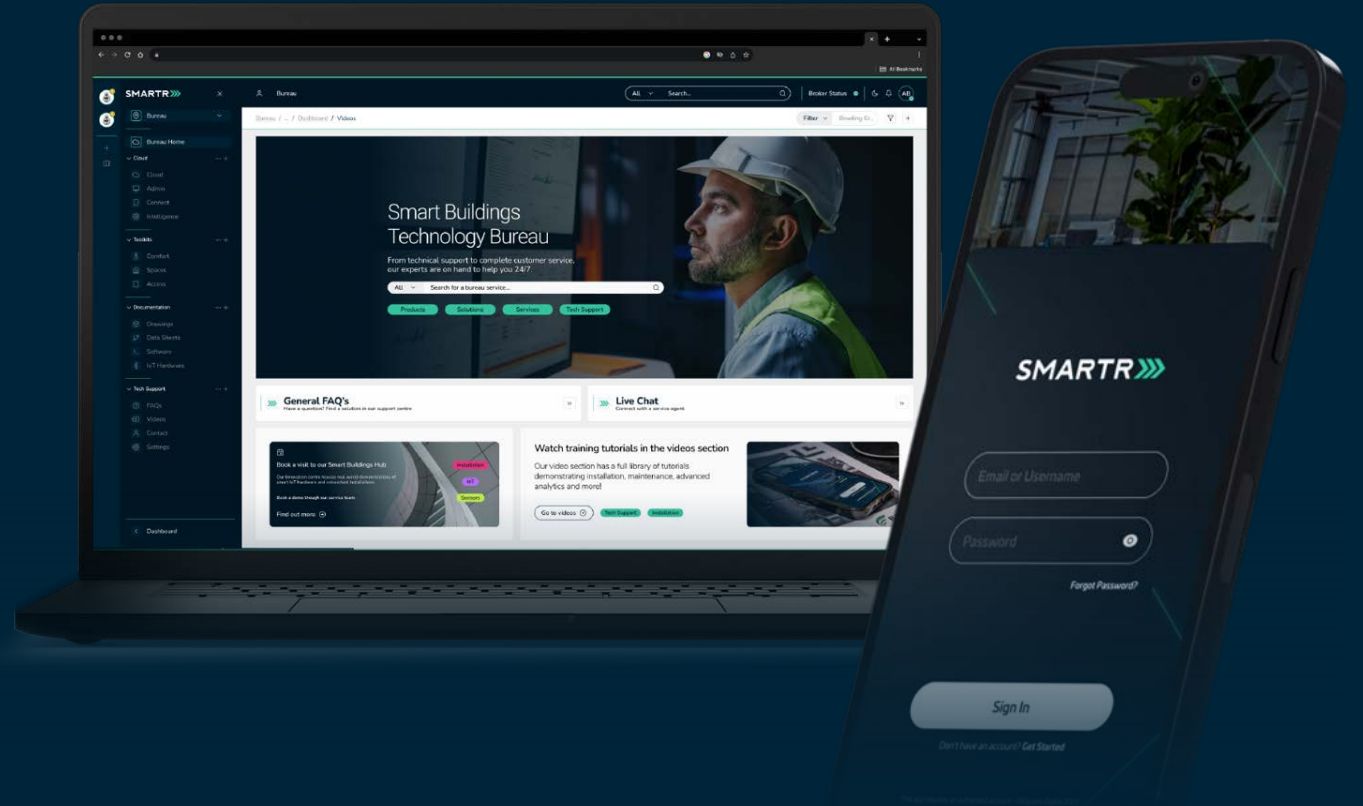
Figure 3-1: Estimated net employment effects of AI by broad occupational category (SIC 1)



Source: PwC analysis of OECD PIAAC and ONS APS data

Physical Assets Digital Solutions

Optimised Asset Performance - SMARTR is an intelligent smart buildings platform for large estate owners, occupiers and managers.

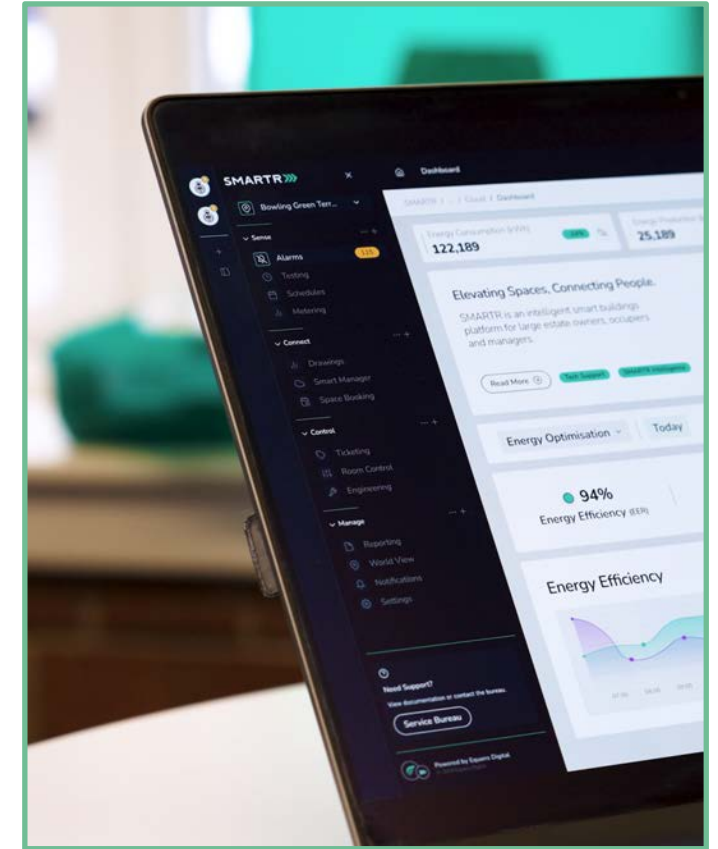
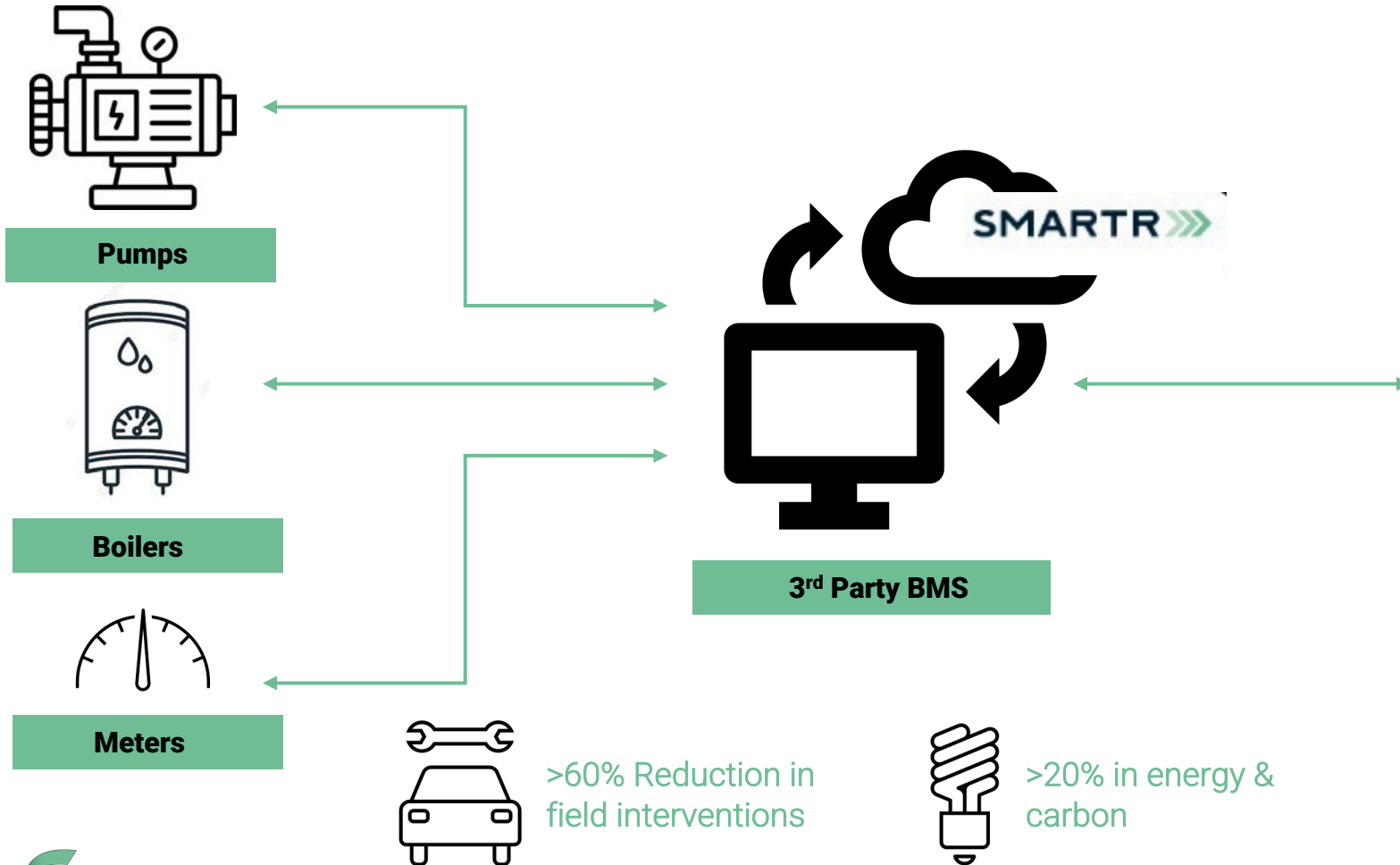


The way we deliver services has already changed

Remote monitoring and plant interventions optimise efficiency, reducing maintenance visits and costs.



Reducing cost and carbon through remote engineering & service automation



AI and IoT in action

AI in Equans

- Currently **54 AI driven projects** / use-cases underway across the business
- **Detection and identification**
- **Prediction and simulation**
- **Reduction** of manual interventions, energy cost and risk of failure

Calderdale Hospital

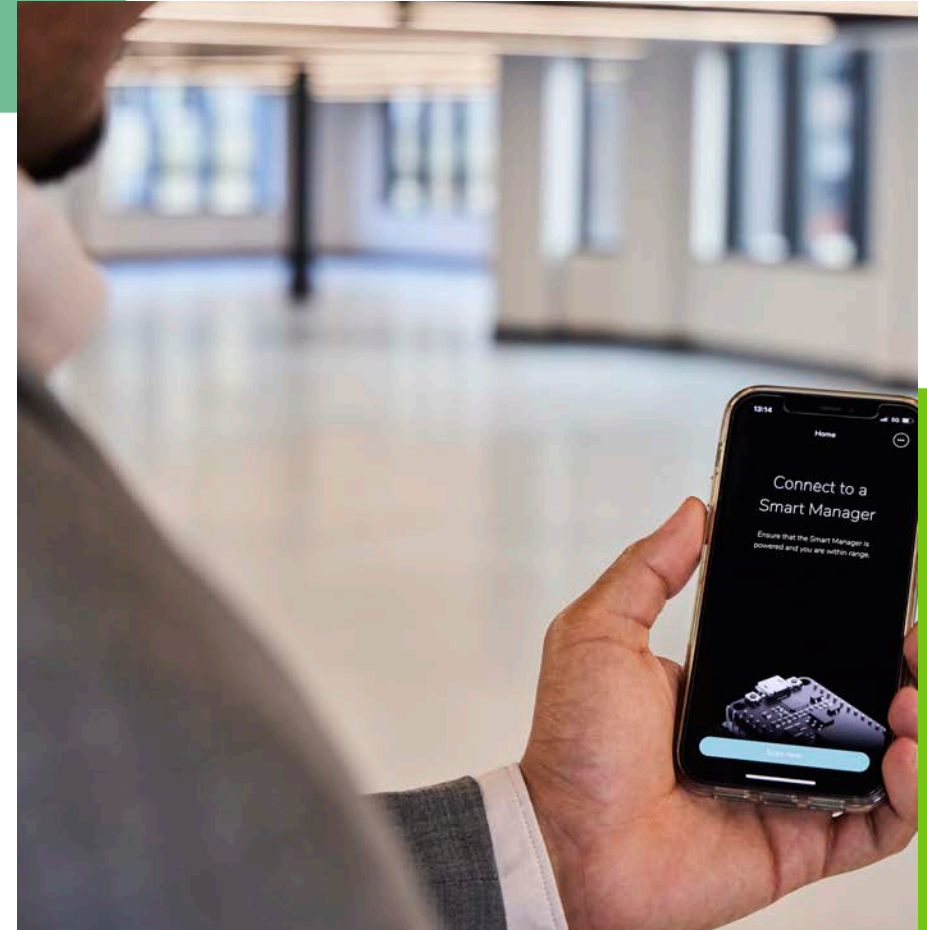
Smart Hospital - Asset optimisation – energy, carbon & lifecycle savings

King Street, Leeds

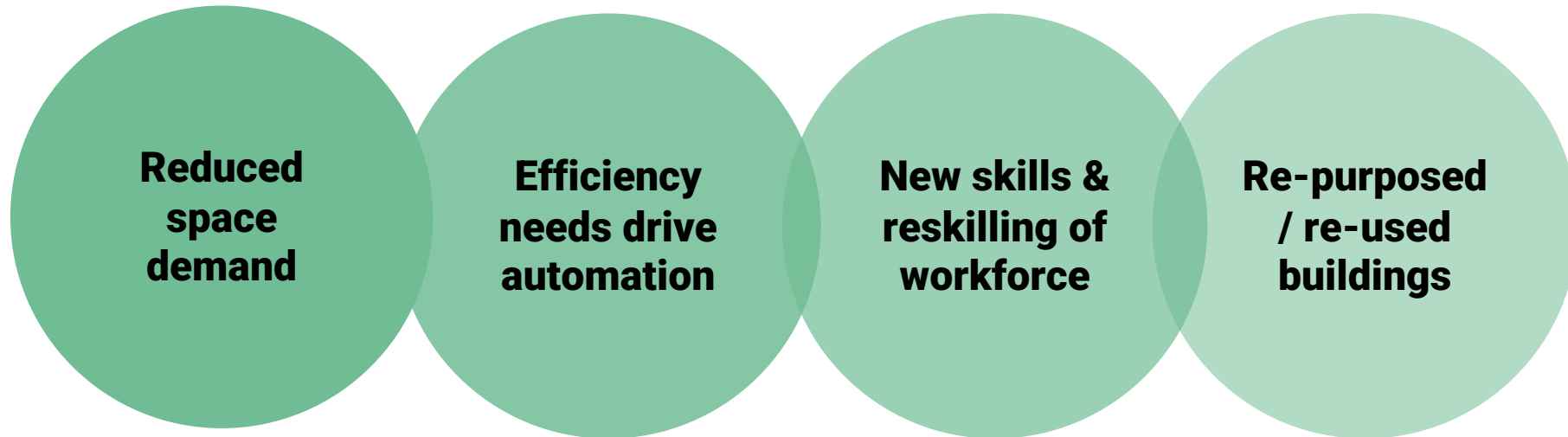
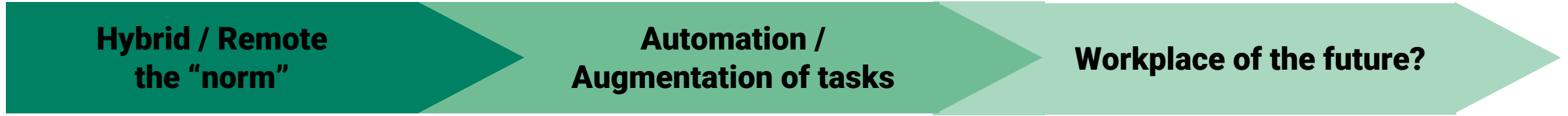
Fully integrated smart building – connecting people, places & things

HMCTS

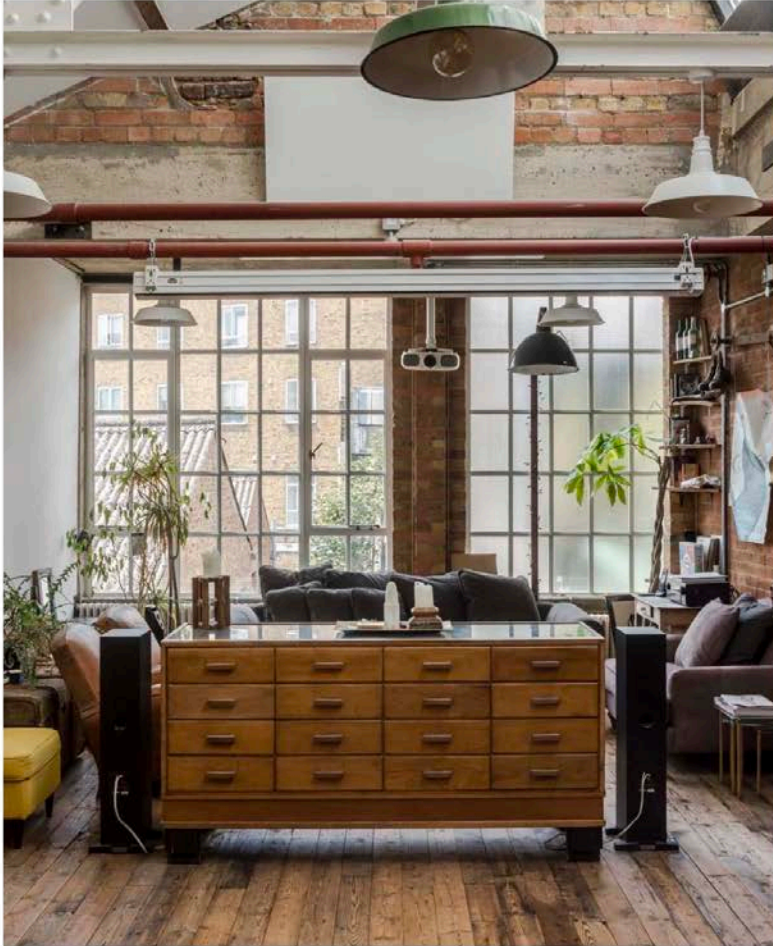
Leading cloud-based AI powered Energy Intelligence solution



Impacts on the workplace?



Will you be living in your office?



FORMER SHOE FACTORY LOFT

Tudor Road | Hackney | E9

1 Bedroom | 1 Reception | 1 Bathroom

Property	Featured Properties, For Sale, Hackney, Warehouse and Loft, Warehouses & Lofts
Information	Featured, Loft Apartment, Warehouse and Loft Featured, Warehouse and Lofts, Warehouse Apartment

£1,200,000

For Sale

REQUEST VIEWING





EQUANS
DIGITAL

The logo features a stylized green icon on the left, composed of three curved, overlapping bands that resemble a signal or a stylized letter 'E'. To the right of this icon, the word 'EQUANS' is written in a bold, white, sans-serif font. Below 'EQUANS', the word 'DIGITAL' is written in a lighter green, sans-serif font. The entire logo is centered on a dark blue background with a subtle pattern of concentric, light blue circles.