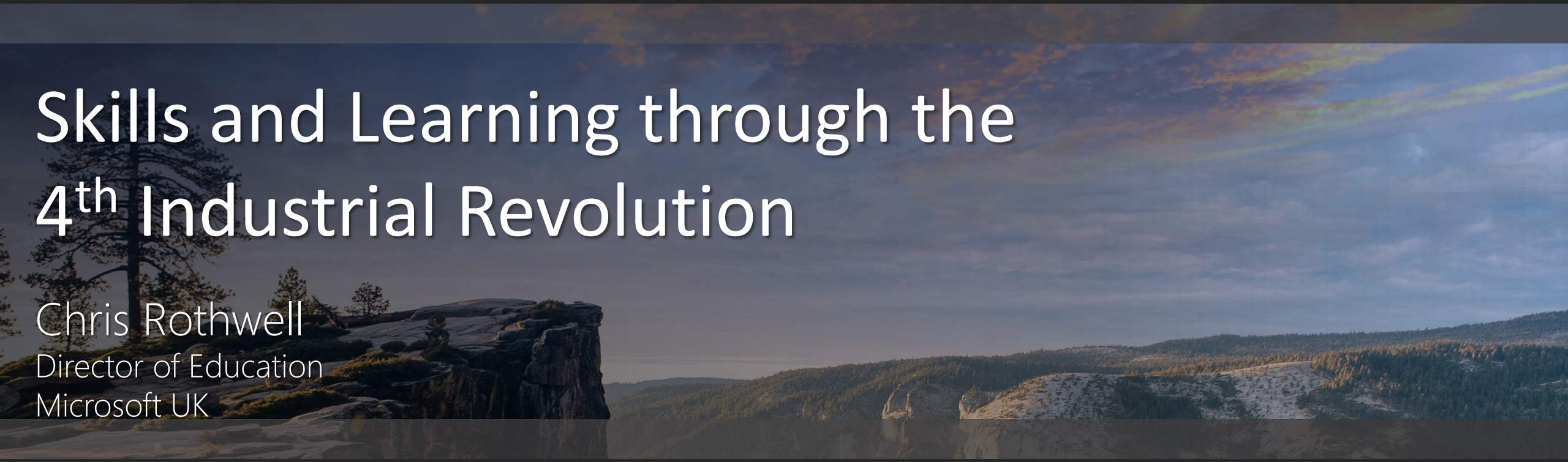
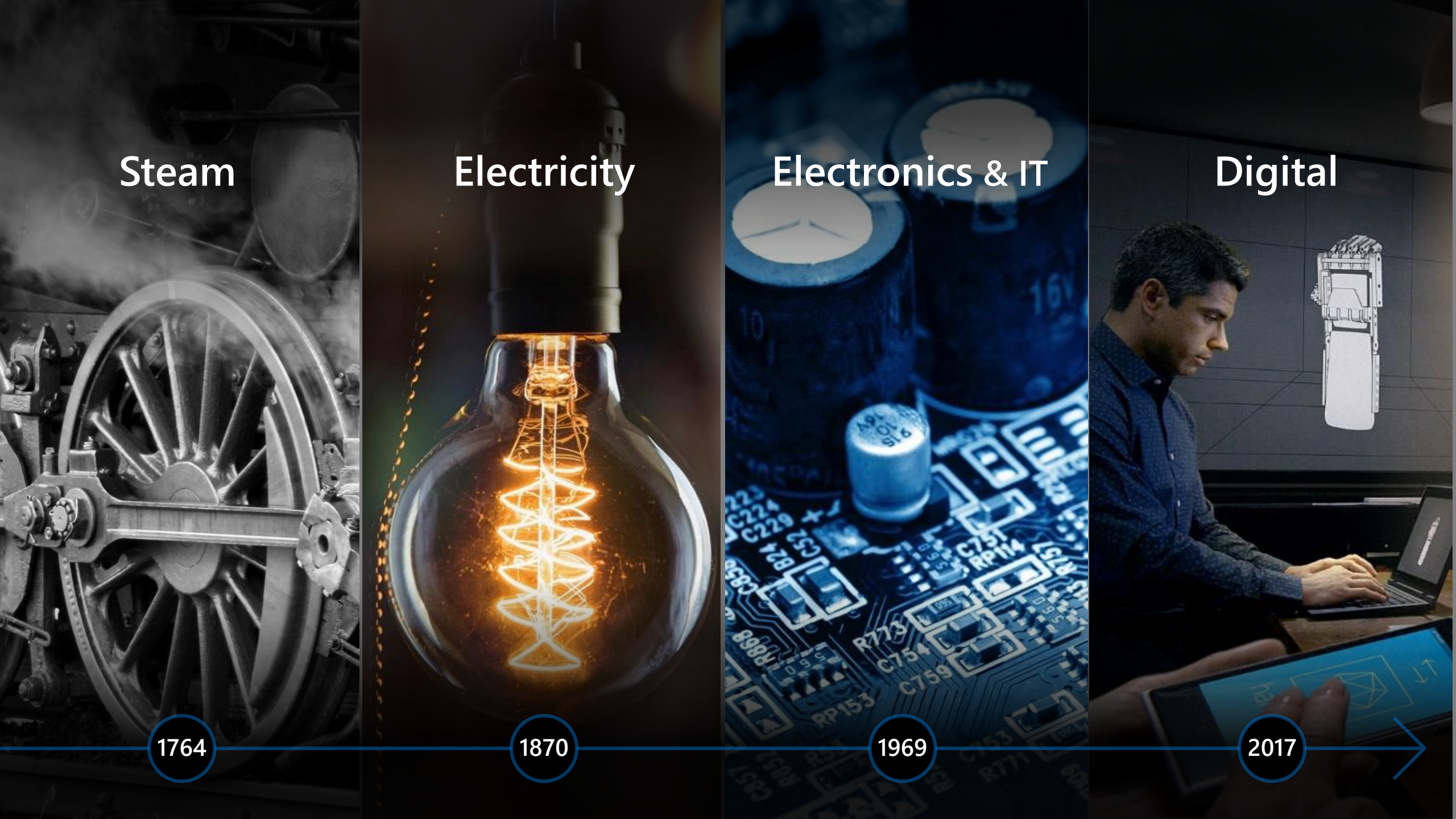


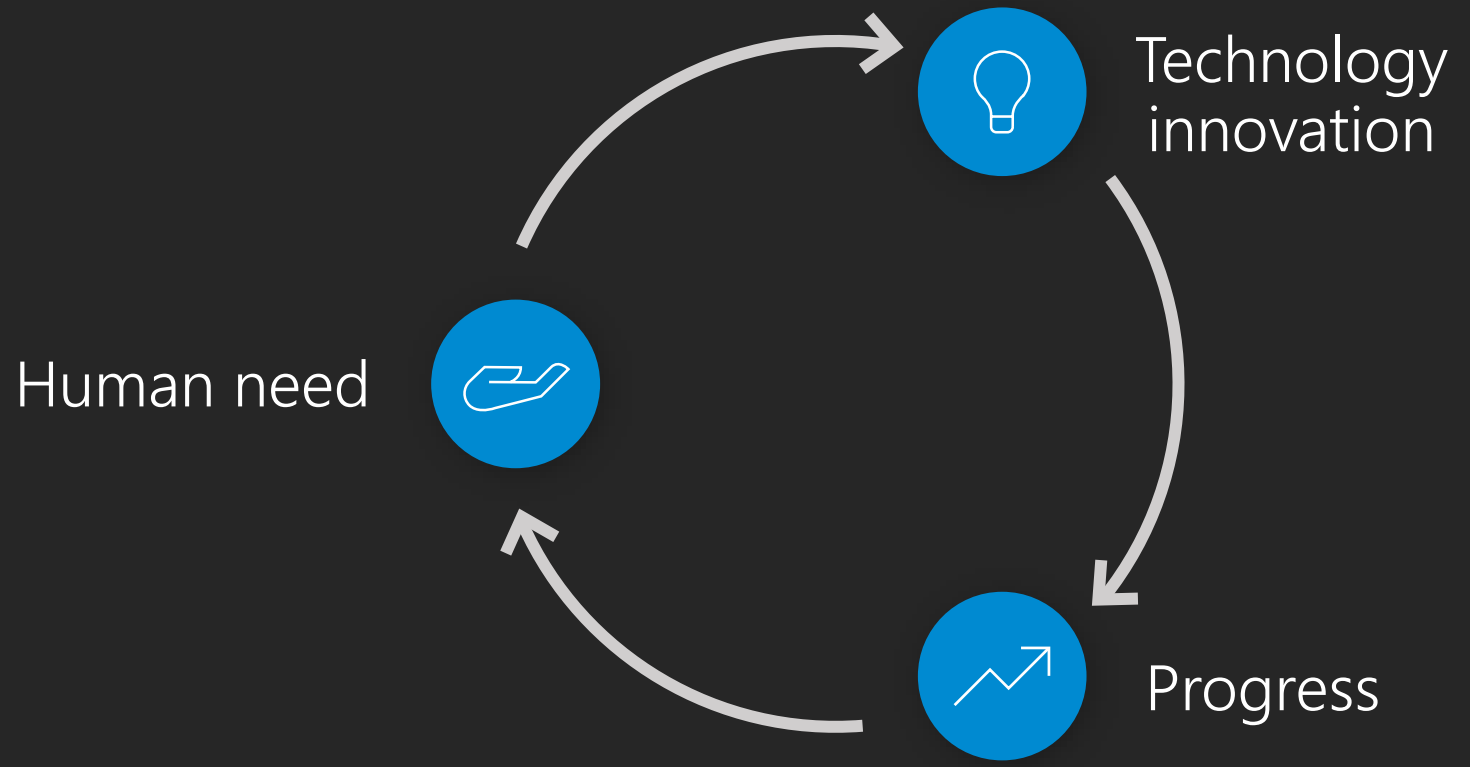
Skills and Learning through the 4th Industrial Revolution

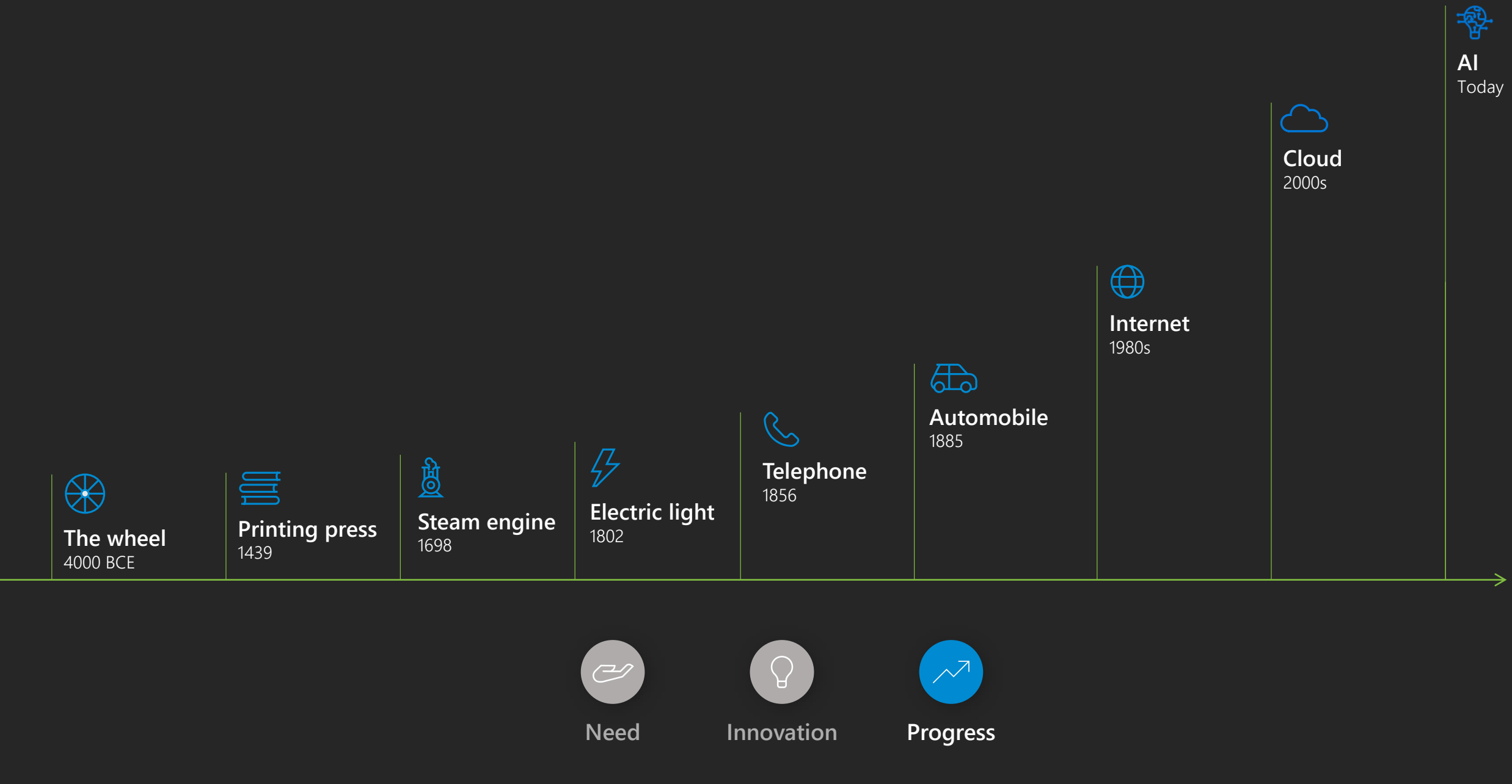
Chris Rothwell
Director of Education
Microsoft UK

@crothwell | @MicrosoftEdUK

Microsoft


Steam
Electricity
Electronics & IT
Digital
1764
1870
1969
2017


Technology innovation
Progress
Human need

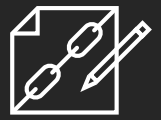

The wheel
4000 BCE
Printing press
1439
Steam engine
1698
Electric light
1802
Telephone
1856
Automobile
1885
Internet
1980s
Cloud
2000s
AI
Today
Need
Innovation
Progress

THE ENGINES OF OUR FUTURE

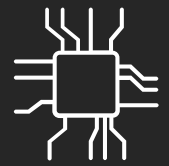
ARTIFICIAL INTELLIGENCE

INTERNET OF THINGS

MIXED REALITY



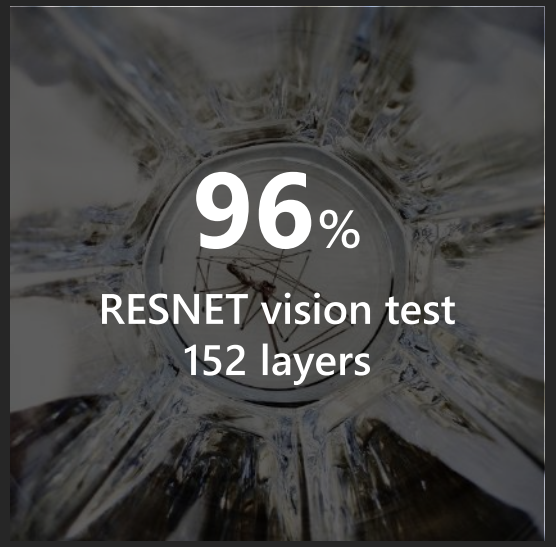
BLOCKCHAIN



QUANTUM COMPUTING

AI breakthroughs

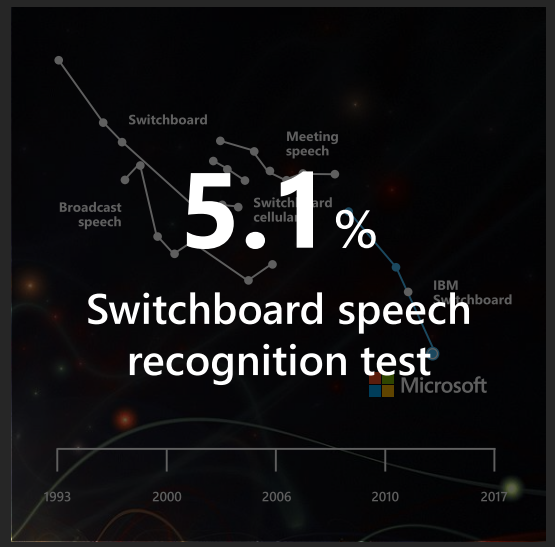
Vision



2016

Object recognition
Human parity

Speech



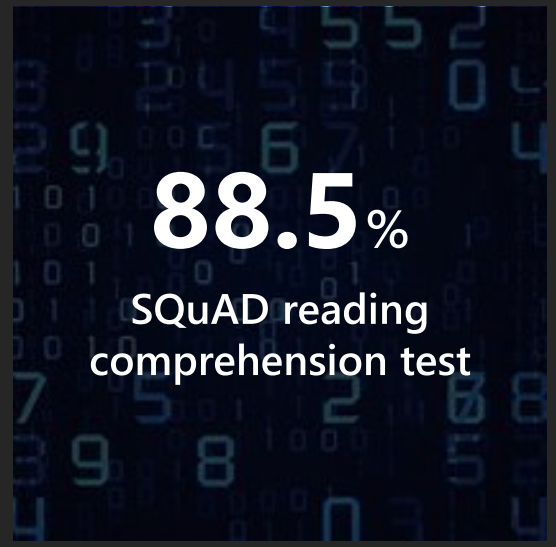
2017

Speech recognition
Human parity

March 2018

Machine translation
Human parity

Language

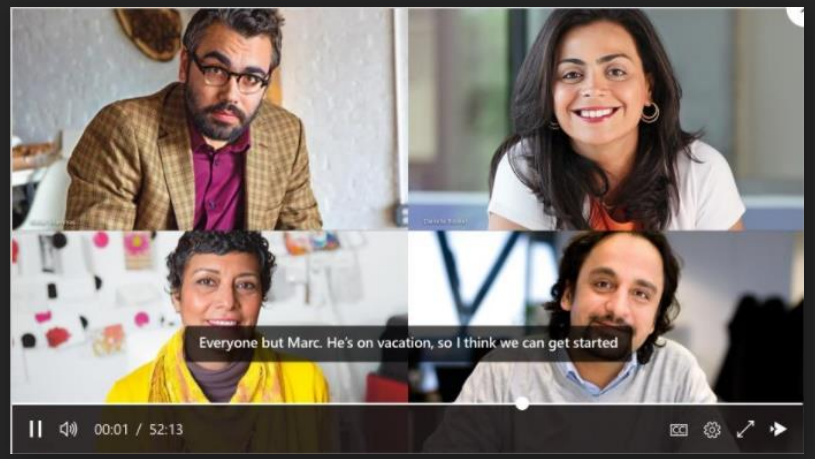


January 2018

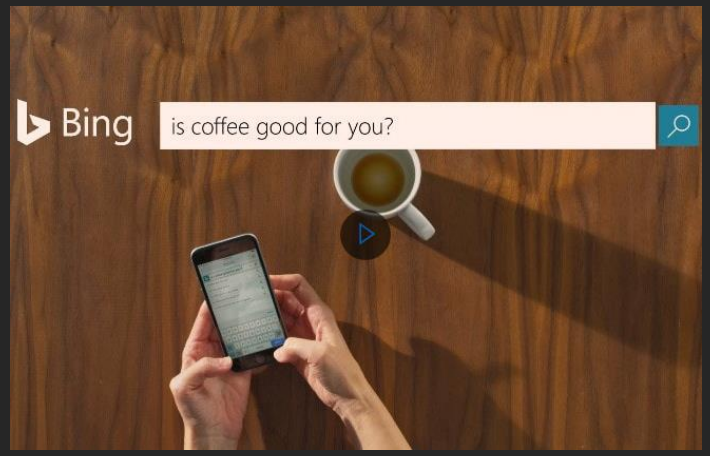
Machine reading comprehension
Human parity

Everyday AI

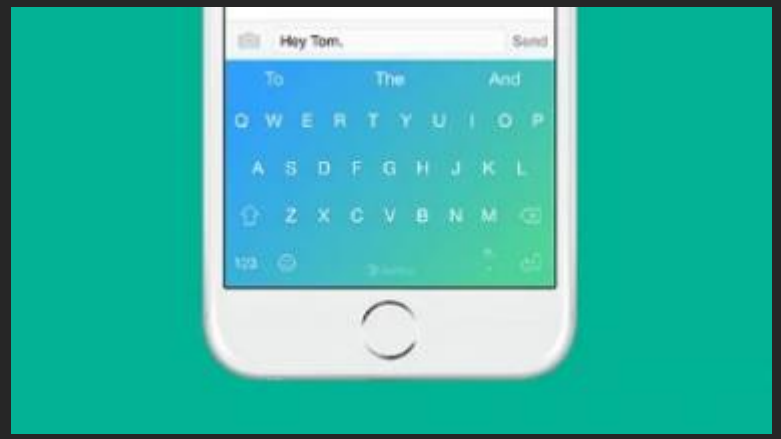
Inline Message Translation



Meeting Recording Transcription



Intelligent Search



Smart keyboards

Voice Assistants

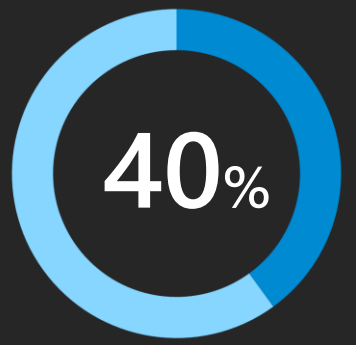
A global need to close the skills gap

Individuals need to learn new skills for their jobs by 2020.

Source:
LinkedIn

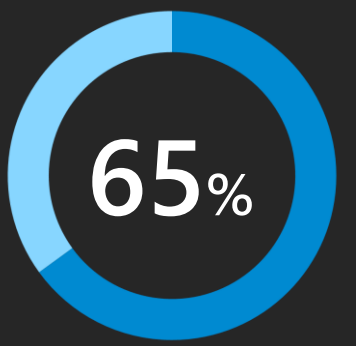
People who are needed to fill open technical jobs by 2030.

Source:
Burning Glass Technologies, 2015



Employers reporting that skill shortages have a negative impact on their business.

Source:
Manpower Group 2017



Of students today will do jobs that don’t yet exist.

Source:
The Future Laboratory

BUILDING ESSENTIAL LIFE SKILLS

Workforce trends

The way we're working is changing

Workforce trends

Scarcity of talent

Rapid transformation of work and skills

Purpose and culture is the new currency

From formal to dynamic teams

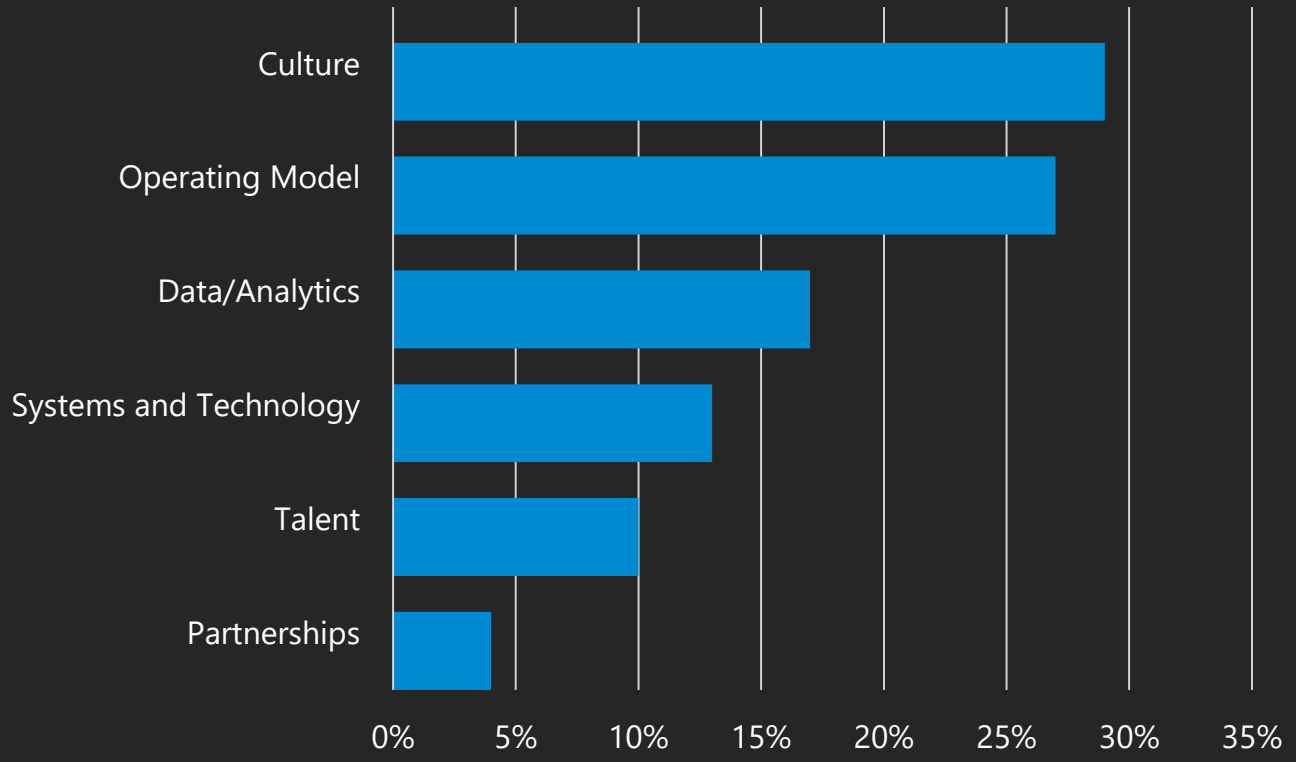
Flexible; work is not a place

human ingenuity

Amplifying human ingenuity

Not just ‘tech’ problems

What is the single biggest challenge your organization faces with regards to Digital Transformation?



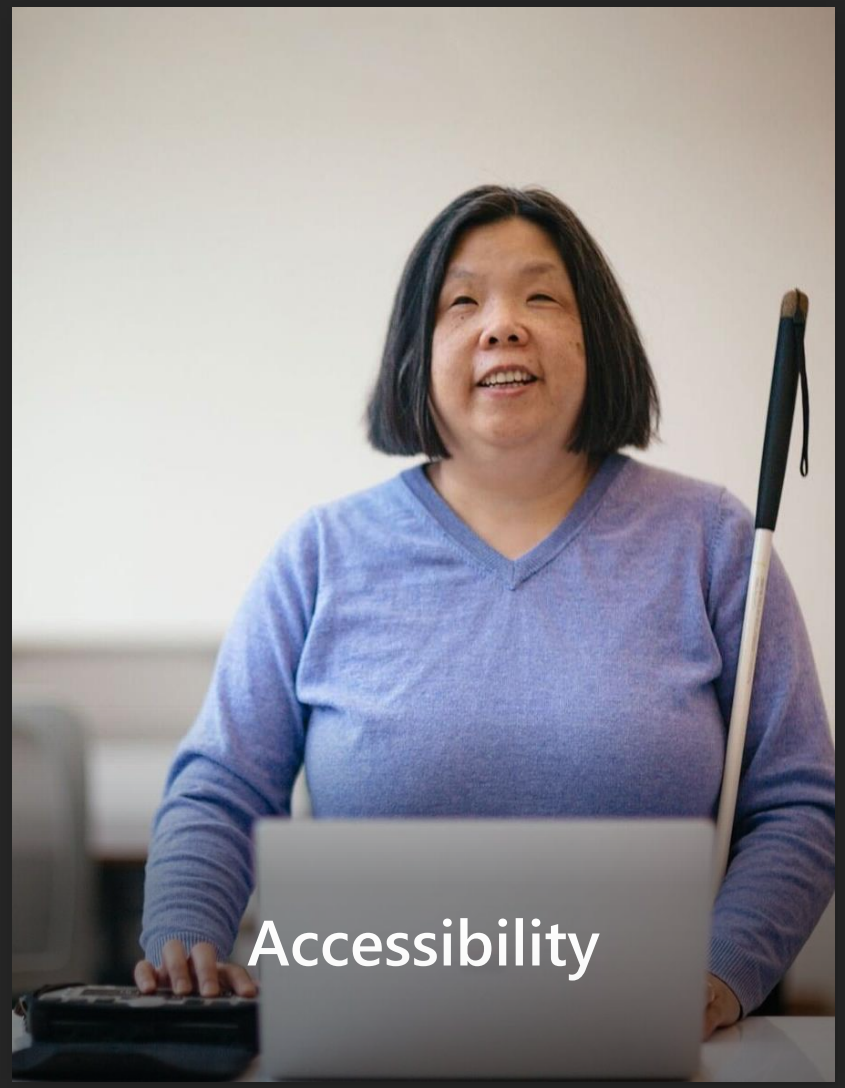
World Economic Forum survey of 51 global transformation executives

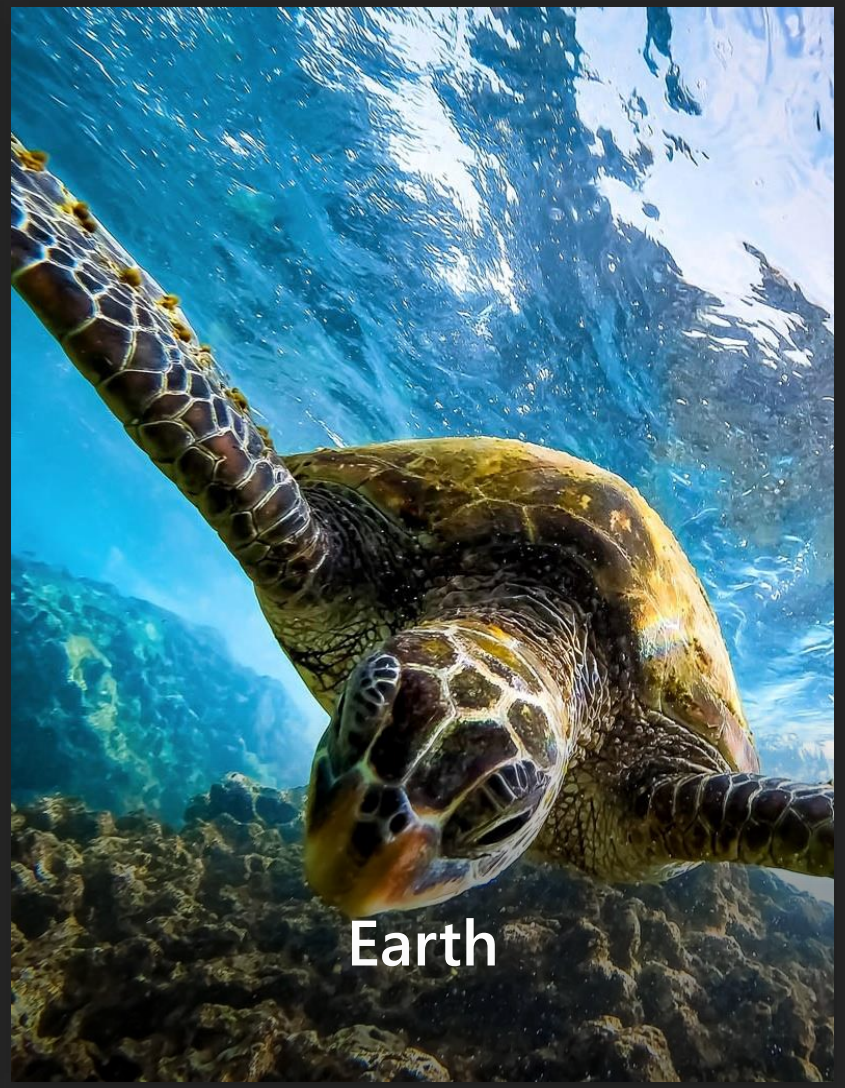
“50% of transformations fail to deliver impactful results because **people’s behavior doesn’t change**”

McKinsey Consulting Qrtly Transformation Exec Survey[1]

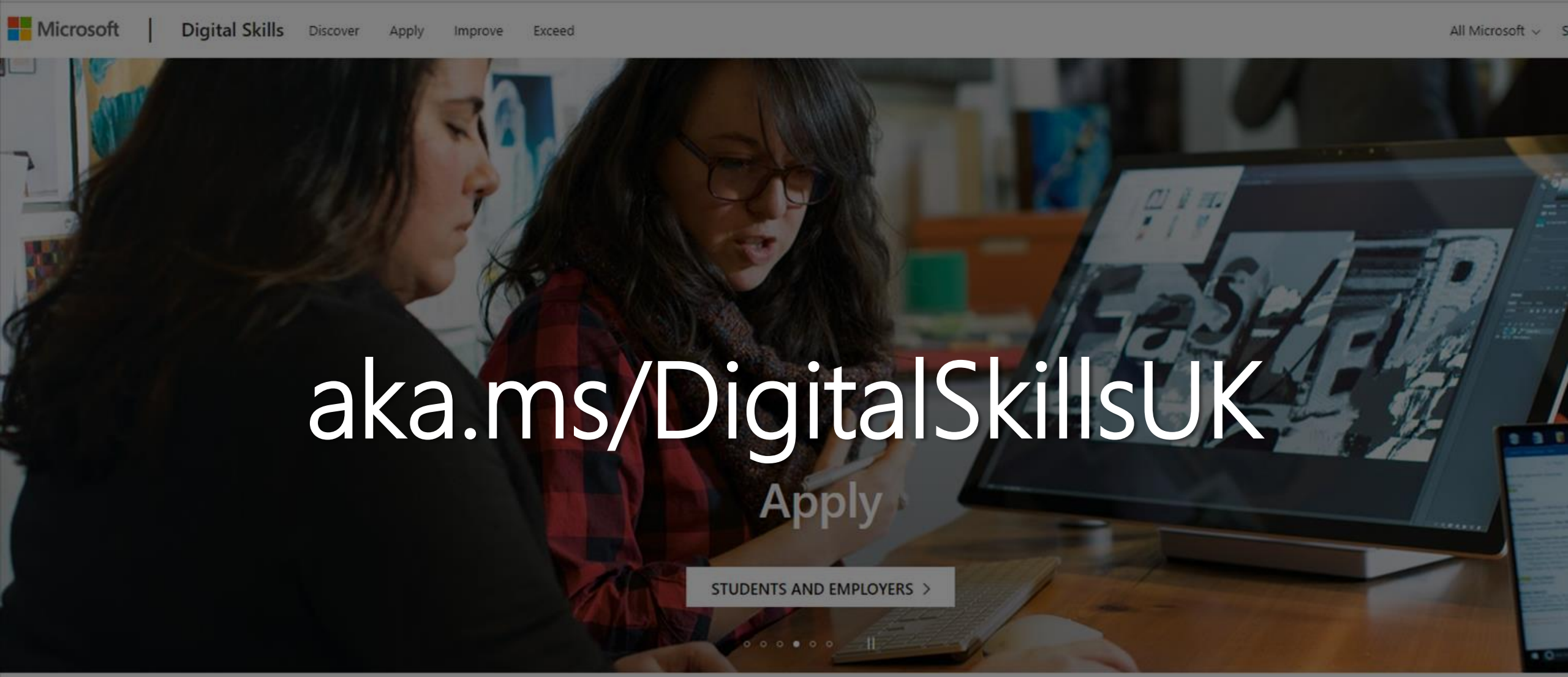
[1] McKinsey Quarterly Transformation Executive Survey, **How to beat the transformation odds**

AI for Good





THE LEARNING
SHIFT
IS HAPPENING
NOW



Welcome to Microsoft's digital skills programme

Building a stronger digital talent pipeline

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Microsoft