

CertMatters:*Live*

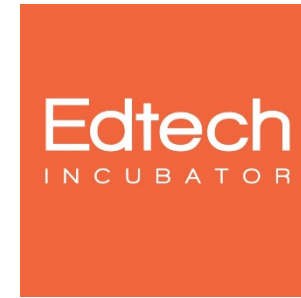
Ian Fordham

Director of Education, Microsoft



@ianfordham @microsofteduk





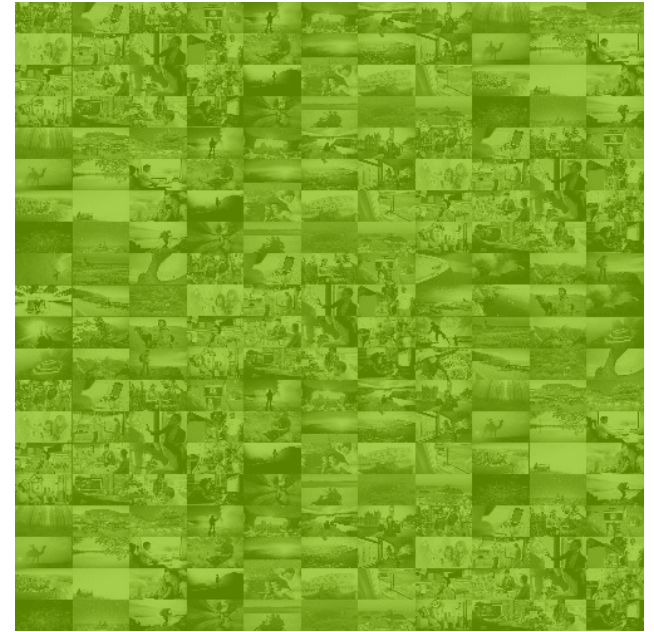
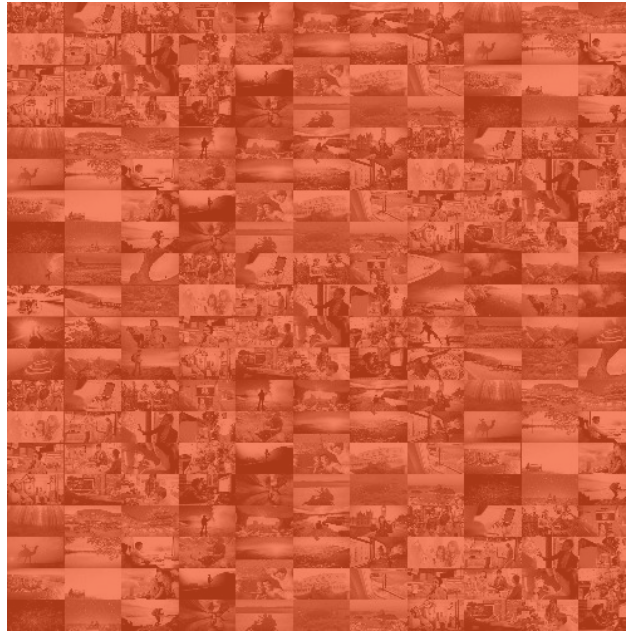
My journey

MAYOR OF LONDON



Microsoft mission

Empower every person and
every organisation on the
planet to achieve more




Education mission

Empower every **educator** and
every **learner** on the
planet to achieve more




where **skills** go next

A background image showing three people of diverse backgrounds (two women and one man) sitting at a desk, looking at a laptop. The image is overlaid with a semi-transparent blue rectangle containing white text.

More than 50% of today's jobs
require some technology skills,
and experts say that percentage
will increase to 77%
in less than a decade.

*Source: Bureau of Labor Statistics, Department of Labor

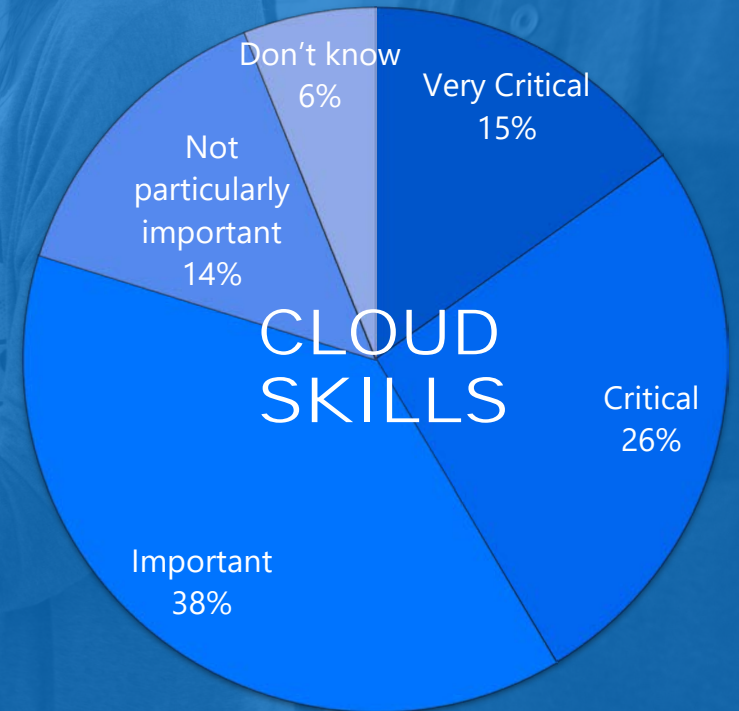
A photograph of two women in a park. One woman is standing on the left, wearing a blue denim jacket, black pants, and glasses, leaning against a bicycle. The other woman is sitting on a wooden bench on the right, wearing a dark jacket and blue jeans, looking at a smartphone. They are in a park with trees and a metal fence in the background.

BY 2022, THERE WILL BE 6.2 MILLION NEW IT JOBS

MOST IN CLOUD-RELATED FIELDS.

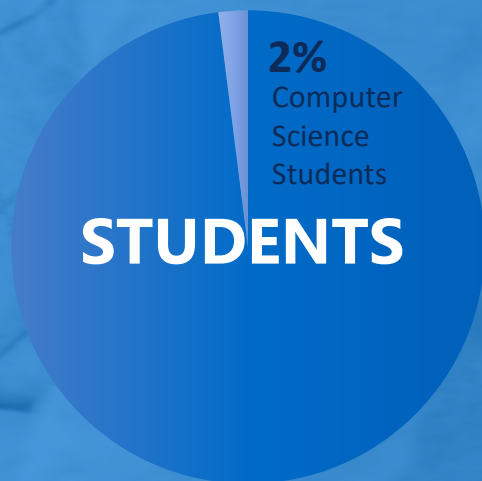
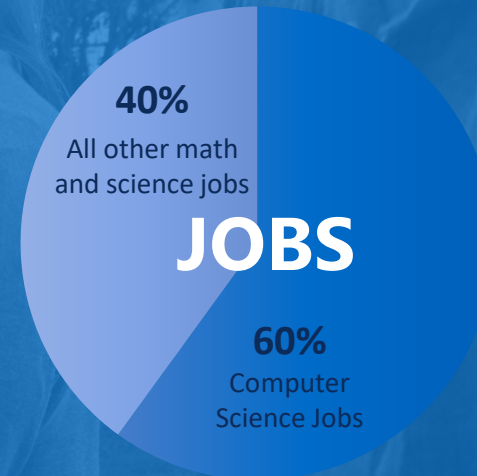
IT LABOUR SHORTAGE REPORT

80% of IT leaders are looking for
CLOUD SKILLS but **33%** have
struggled to find them



Breakdown of companies 250-999 employees

60% of STEM jobs are in
COMPUTER SCIENCE



Yet only 2% of STEM grads
FILL THE PIPELINE

Future ready skills across the education system

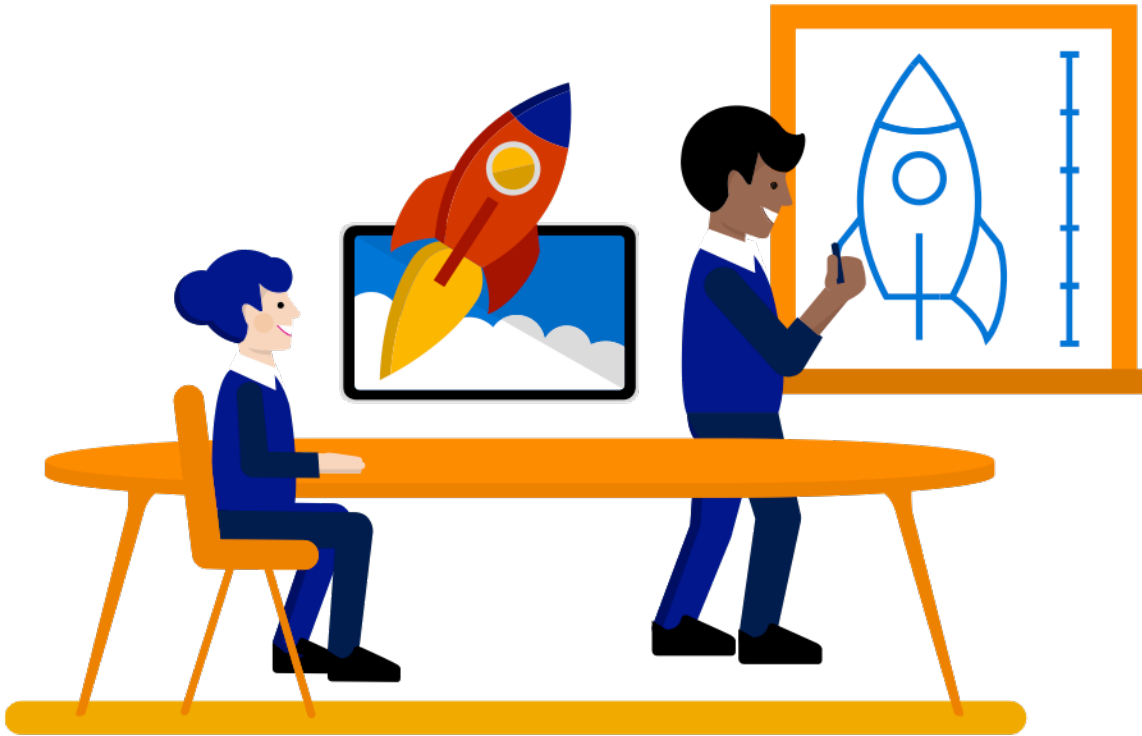
Top 10 skills

in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



Source: Future of Jobs Report, World Economic Forum

SUPPORTING THE STUDENT JOURNEY



Microsoft
Imagine Academy 

Computer Science,
Data Science,
IT Pro & Productivity



Game-based Learning,
Computational Thinking

POWERED BY
OPENedX on Microsoft Azure

Microsoft **Imagine** 

Free developer tools
& competitions including
Hello Cloud

Microsoft
Professional Program 

Microsoft Professional
Program: Data Science*



Maker Space,
IoT, Data Visualisation

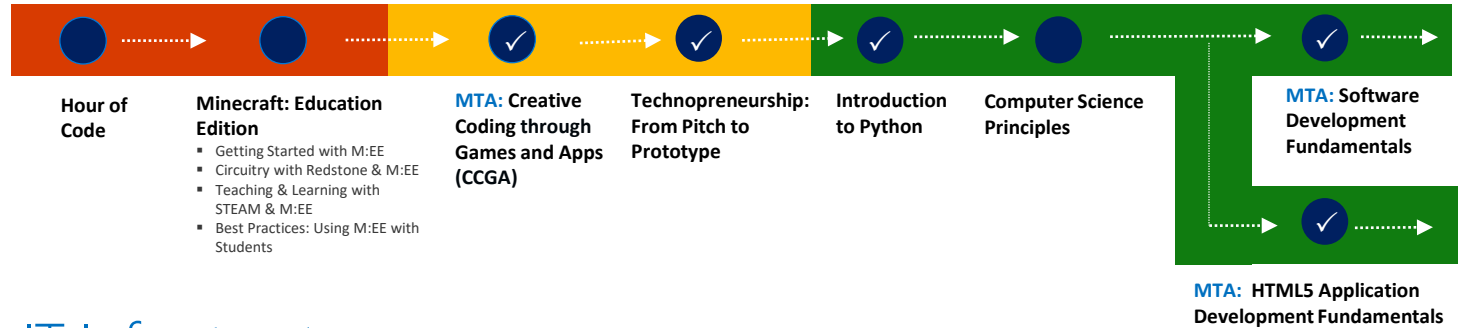


Partner STEM APPS,
Engineering, Robotics
& more

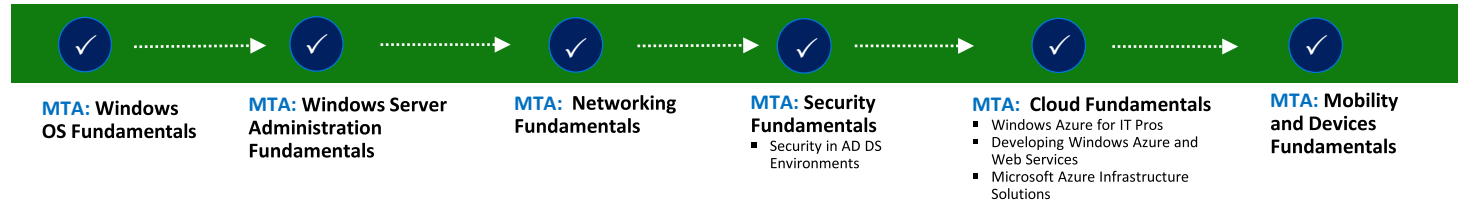
*Offers Official Microsoft Certification or Credential



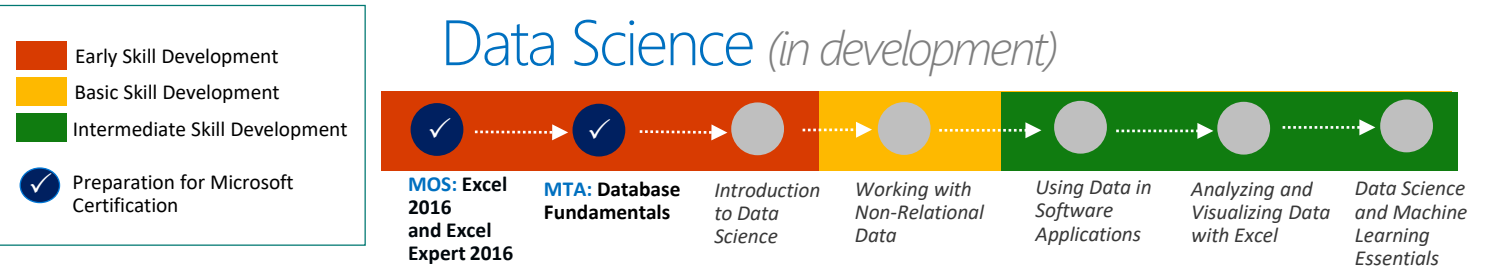
Computer Science



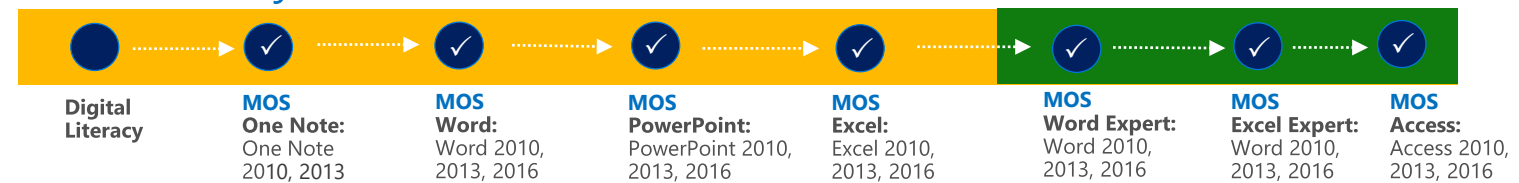
IT Infrastructure



Data Science *(in development)*



Productivity



SUPPORTING GREAT EDUCATORS

Microsoft Educator Community



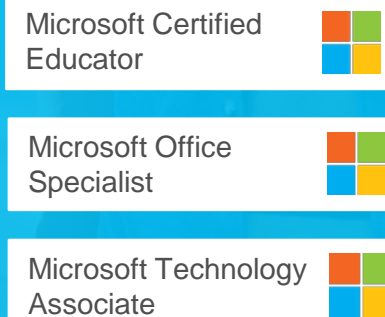
Microsoft Educator Experts



Microsoft Authorised Trainers



Microsoft Imagine Academy



Microsoft Showcase Schools



It is a fast changing, increasingly digital world
But its **people & culture** that deliver change

Growth mindset



Customer obsessed
Diverse and inclusive



Making a difference


Growth mindset



Fixed Mindset leads to a desire to look smart and therefore tendency to avoid challenges, give up easily, see failures as fruitless or worse, ignore useful negative feedback and feel threatened by success of others



Growth Mindset leads to a desire to learn and therefore a tendency to embrace challenges, persist in the face of setback, see failure as essential to mastery, learn from criticism and find lessons and inspiration in the success of others.

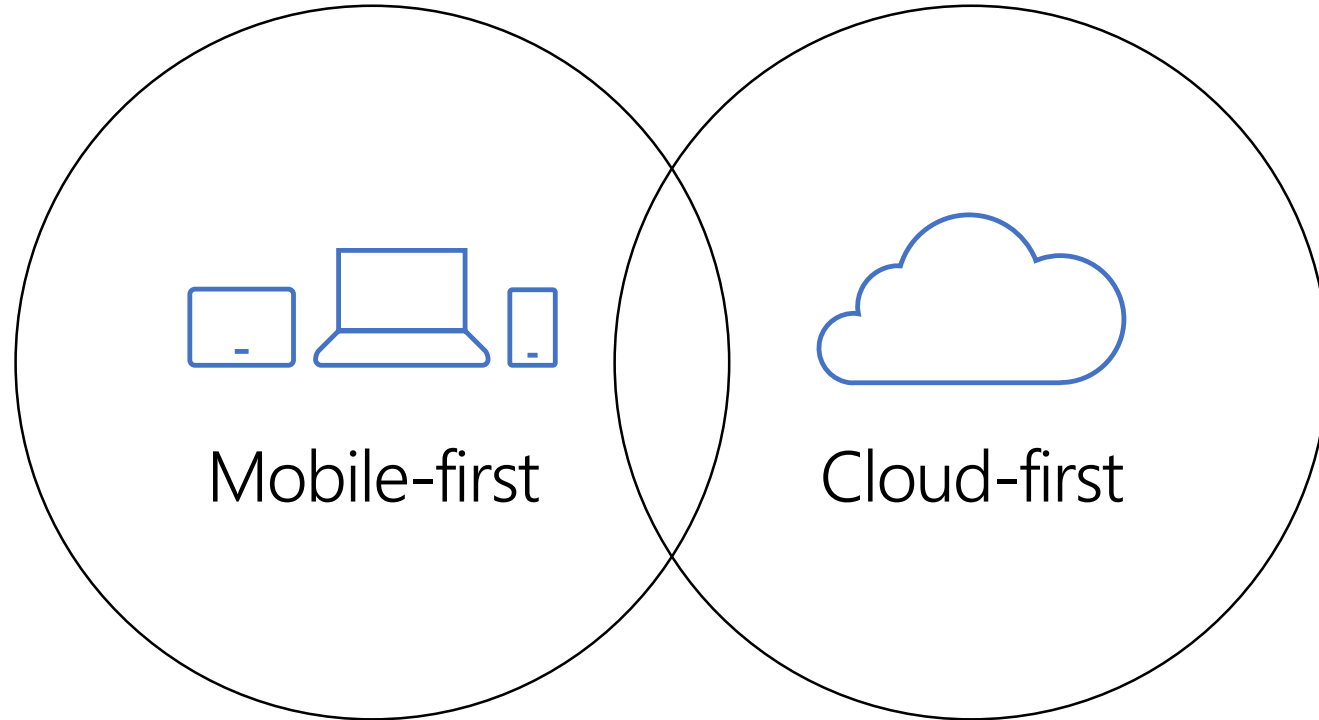


“As a culture, we are moving from
a group of people who know it all
to a group of people who need
to **learn it all**”

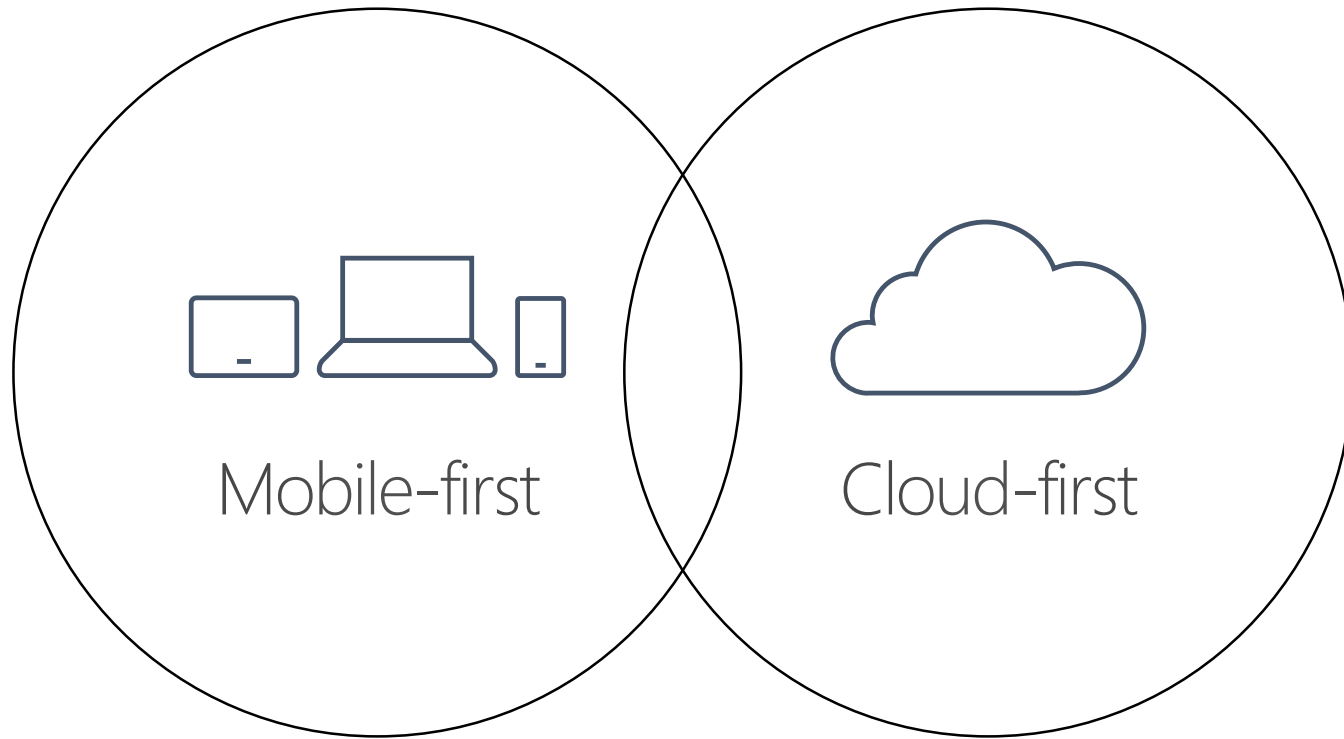
Satya Nadella, CEO, Microsoft

where **technology** goes next

Microsoft's view



Big picture view



Big picture view

Agents & Bots

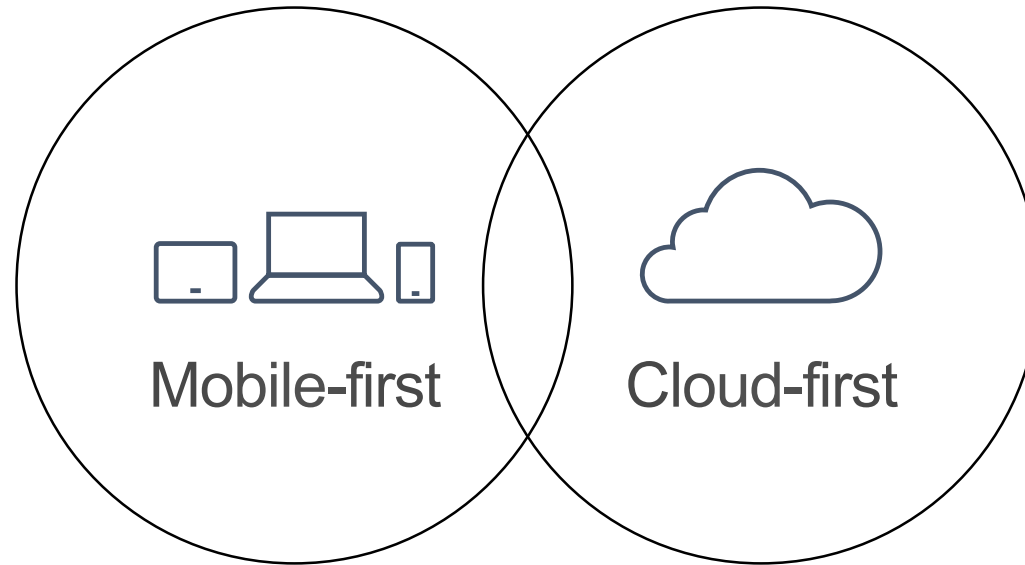
Natural &
conversational
user interfaces

Mixed Reality

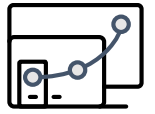
Augmented
Intelligence

Advanced analytics
& workflows

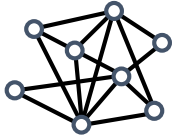
Internet of Things



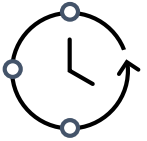
Big picture view



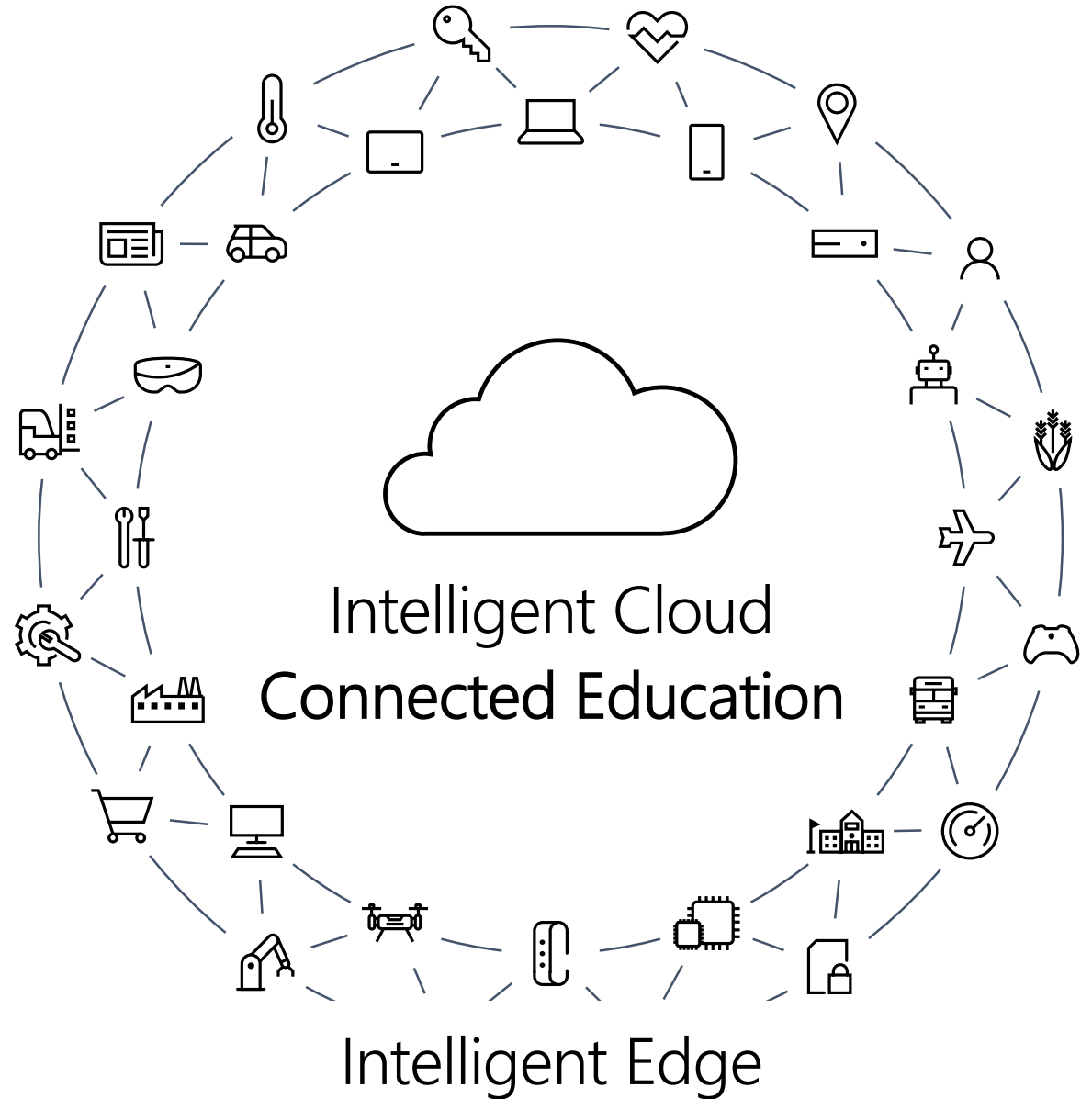
Multi-device,
Multi-sense



Augmented
Intelligence



Serverless



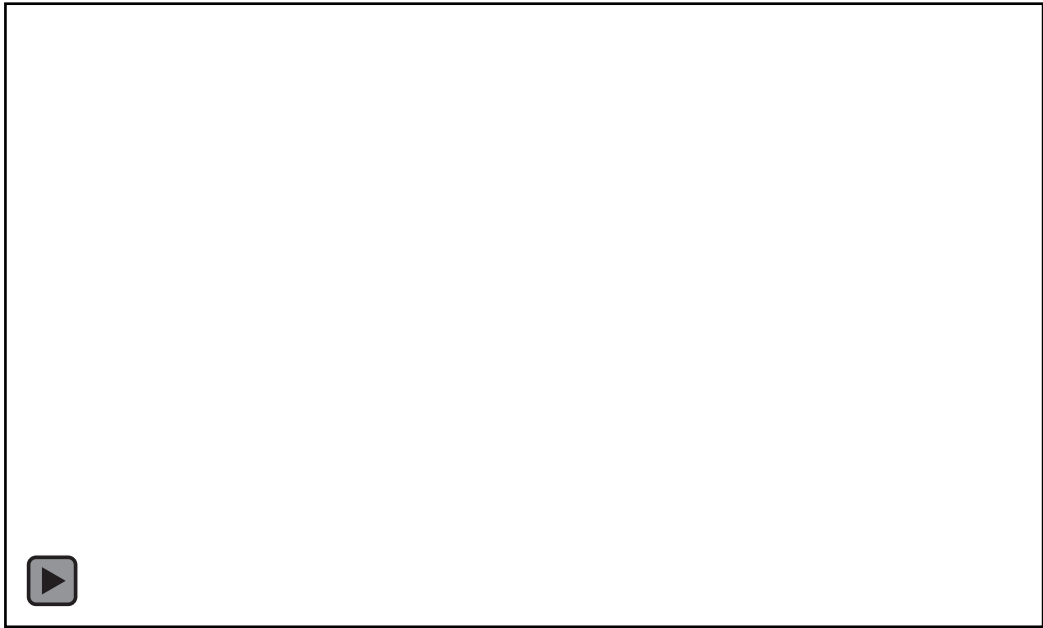
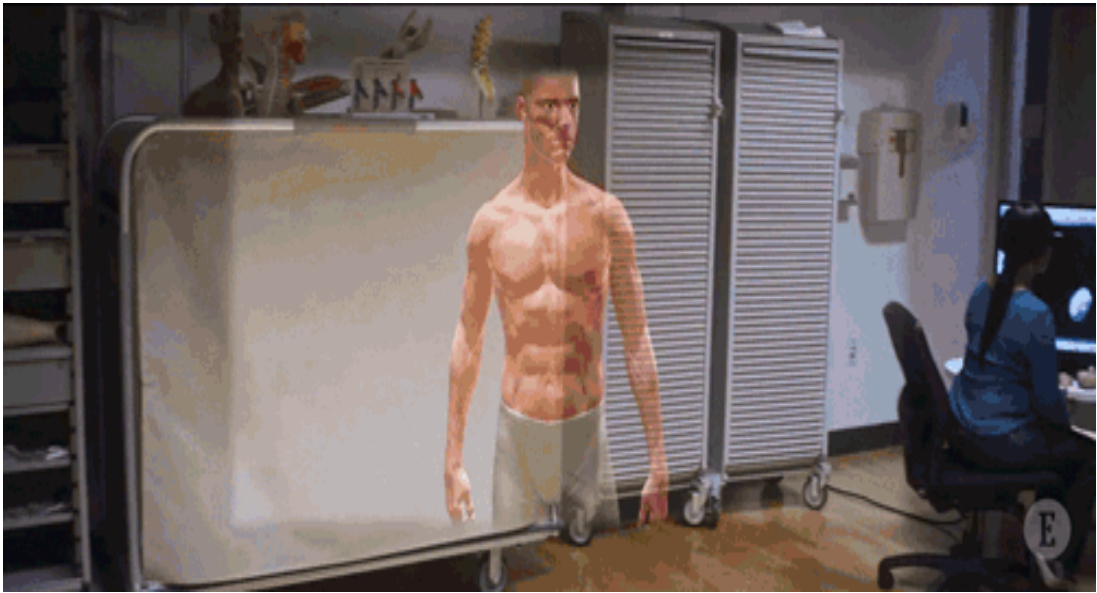
Augmented intelligence

Educators + machines

What is AI?

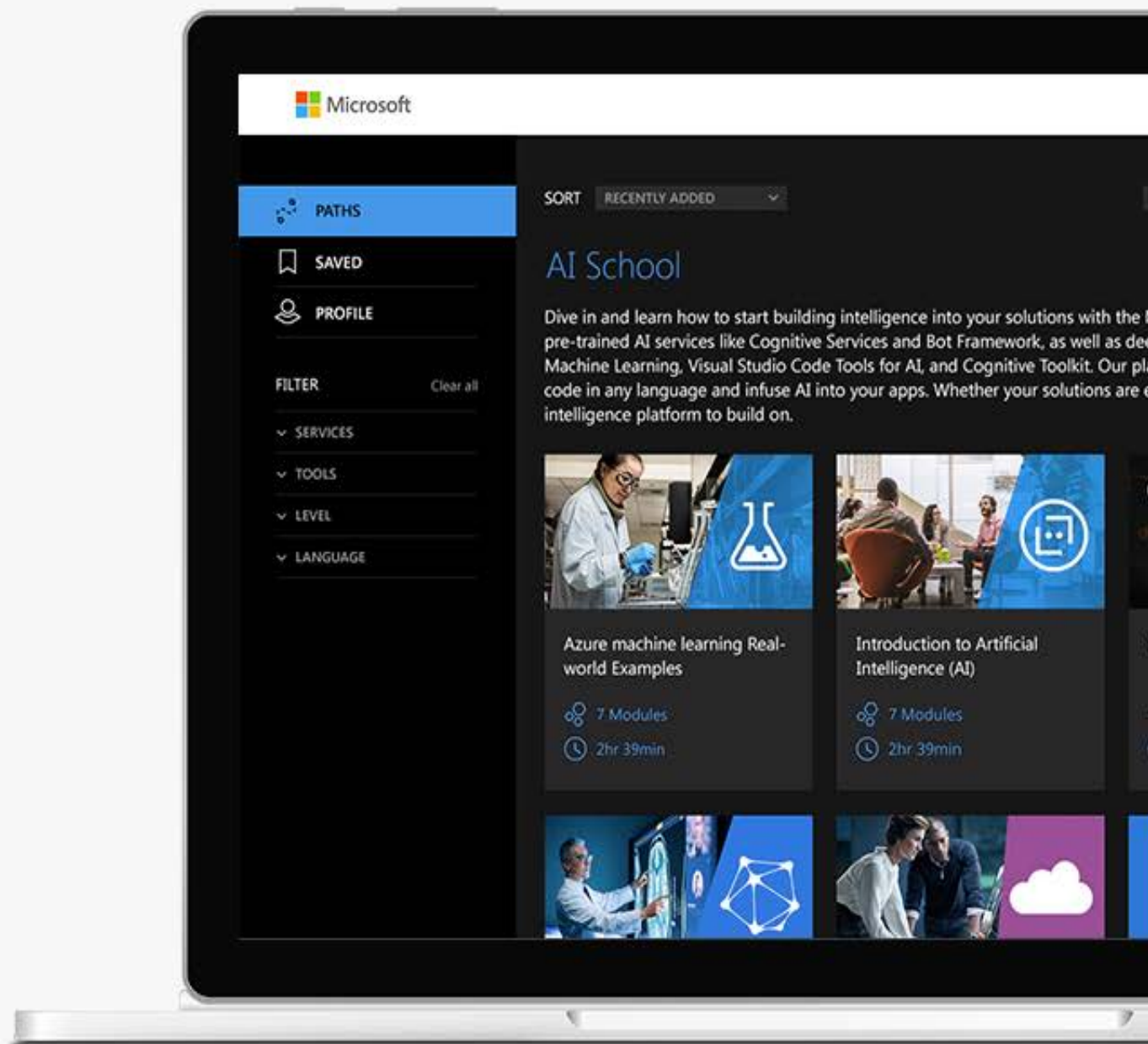
Technology that can perceive, learn, reason, assist in decision-making, and act to help us solve problems.

Vision | Language | Speech | Search | Knowledge





AI School



where **education** goes next





“When you think about progress and improvement in the world - **education is like a master switch** One that opens up opportunities for individuals & societies”

Bill Gates

How do we democratise education
opportunity?

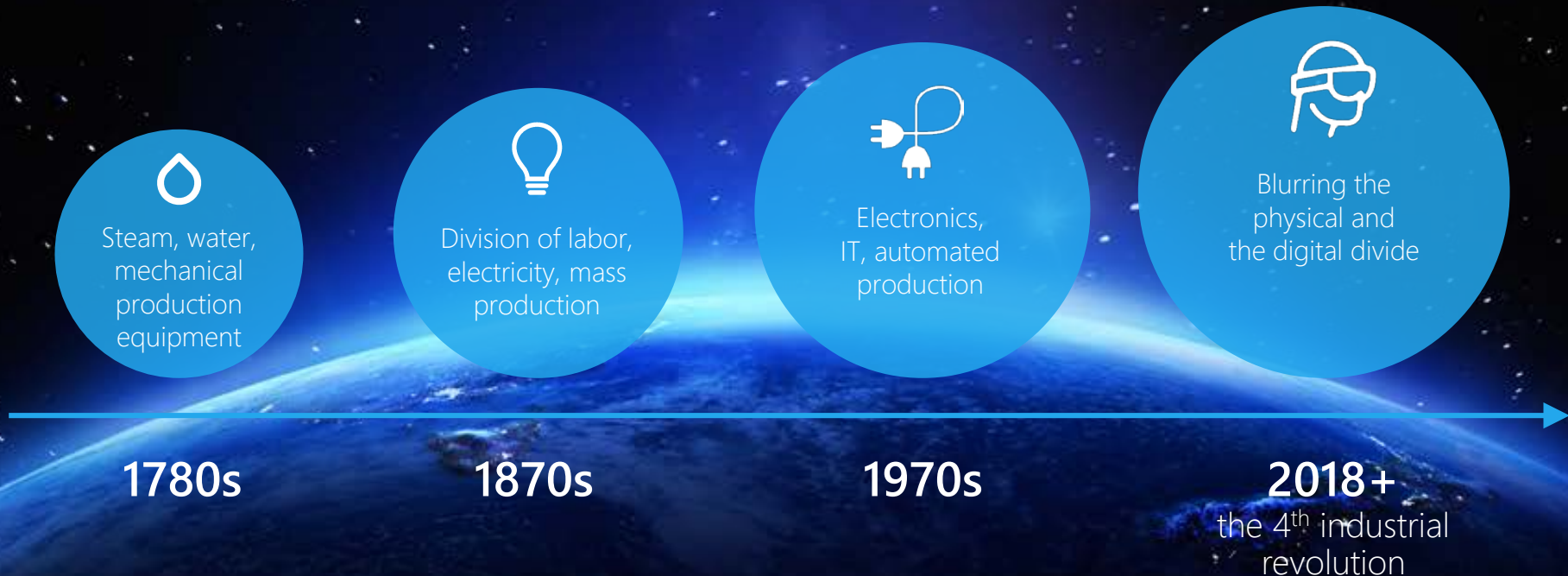
How do we tackle major education challenges?

How do we make learning accessible to all?

How can we use technology (Data, AI and Cloud) to help?

We are entering the 4th Industrial Revolution...

So what might Education 4.0 look like?



“Technology must have a role in our sector, as it does in other sectors, to be able to ease workload – which is a matter I know is of great importance for teachers in this country, and quite rightly so.

And I share their drive to be able to track and monitor the progress of pupils – and where there are further opportunities to bring new types of content to students and effectively introduce them to whole new worlds”

Damian Hinds, Secretary of State for Education
Education World Forum, January 2018



Microsoft Education

Empowering every educator and learner to achieve more.



Better learning
outcomes



Save educators and
leaders time



Impactful, accessible
technology



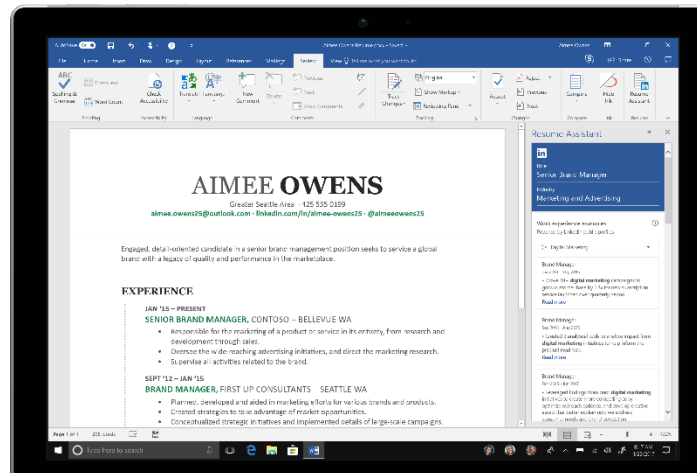
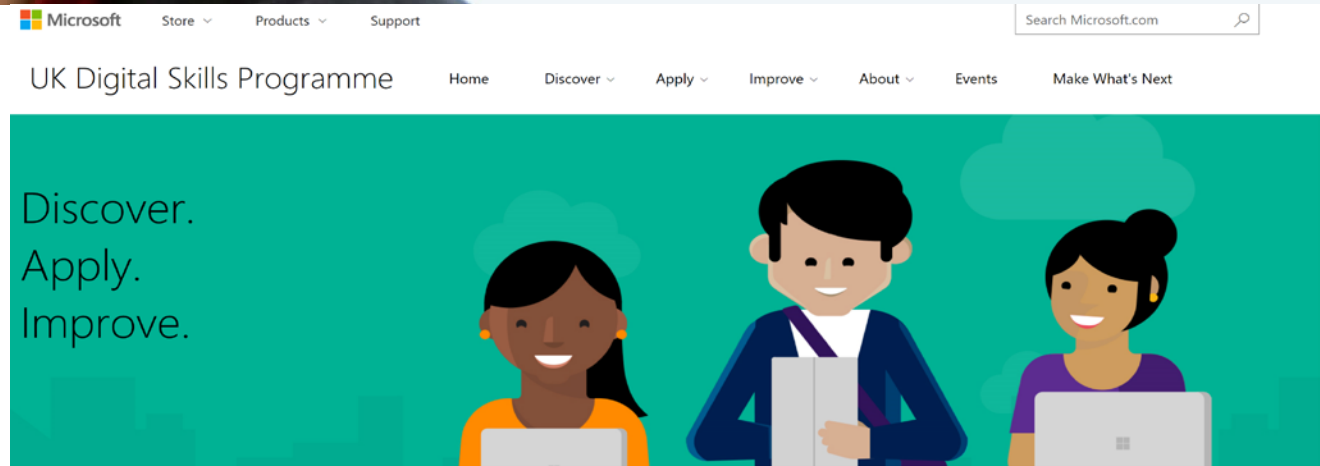
Igniting interest in STEM & AI by developing coding and problem-solving skills



- Transform the experience of learning computer science using [Code Builder in Minecraft: Education Edition](#)
- Bridge science, engineering and coding with hands-on experiential learning with [MakeCode](#) and [Hacking STEM](#)



Prepare students for
the future with skills
they need now and
for future work and
life



ramme
Step forwards – whether in
the Microsoft UK Digital
over your level. From 7 to
the resources to help you
ge.



Save educators and leaders time

- Save teachers time with tools for planning, assignments and communication
- Improve collaboration and teamwork in the classroom and around the world
- Increase independence and engagement of all students
- Stay focused on learning with reliable devices



Save educators time
with easy to use
tools for planning,
homework and
collaboration



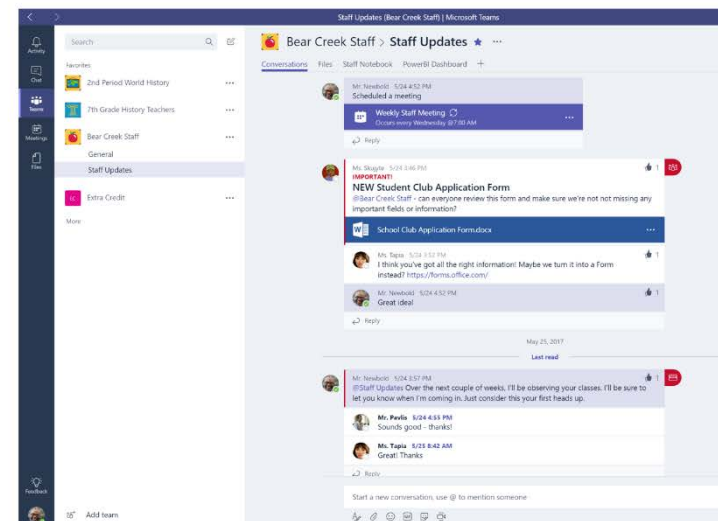
Streamline Staff Communication

Share information across
educators, staff and
school leaders

Collaborate on school
wide initiatives with
built-in Staff Notebooks

Easily create and share
content with embedded
Office apps and files

Come together in a
team for any team-
based or project based
activity



- Manage classroom workflow and mark homework using **Microsoft Teams**. Create lesson plans and share class notes with **OneNote Class Notebook**, which syncs with your LMS
- Connect regularly with peers to share best practices and lesson plans with a **Professional learning community or team**



Improve collaboration and teamwork in the classroom and around the world



Microsoft
Translator

- Communicate, collaborate and create in and out of class with **Office**, the top-requested software skill by employers
- Create collaborative classrooms that better engage students and provide continuous feedback to individual students with **Microsoft Teams**





TAKE THE PLUNGE

with Microsoft and BBC Earth!



A UK-wide focus on Digital Skills – by 2020



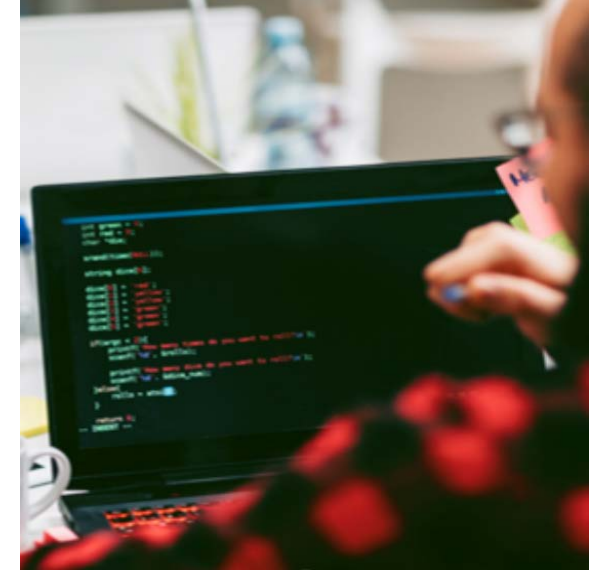
STEM and Computing Science

Get more young people active with CS
Engage 3 million young people in 3 years
Double # CS Grads and % who are women



Routes into tech: Apprenticeships

New Apprenticeship routes
100k Microsoft Apprenticeships



Keeping the workforce skilled

500k cloud heroes
Digital skills for 30k public servants

Through partnerships and Microsoft-led programmes

An aerial photograph of London, England, featuring the River Thames and the Tower Bridge. A semi-transparent network of white lines connects various points across the city, symbolizing a digital or technological infrastructure. The text is overlaid on the center of the image.

"The most profound technologies are those that disappear.
They weave themselves into the fabric of everyday life
until they are indistinguishable from it."

Mark Weiser

one final thought

Thank you 😊

Ian Fordham
Director of Education, Microsoft

 @ianfordham @microsofteduk

