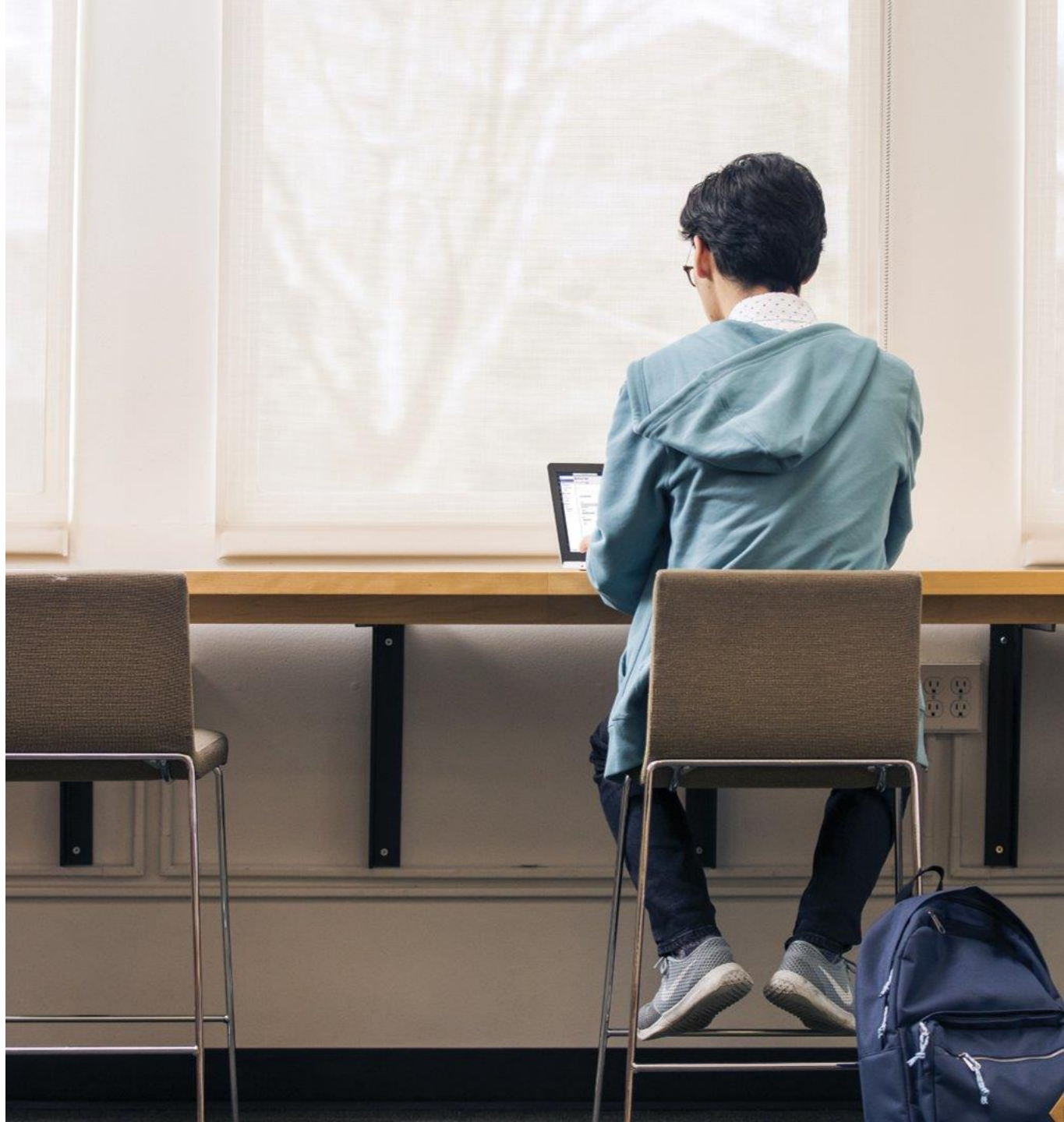
Microsoft

ChatGPT and Beyond

"Empower Education using AI: Revolutionizing learning for the 21st century"

(AI-generated text using ChatGPT, 2023)



Emelie Hansman

About me

2018-2021

BSc. Liberal Arts and Sciences (Major: Philosophy, Politics and Economics) – Erasmus University College

2021-2022

MSc. Business Administration (Specialization: Management) – Rotterdam School of Management

Jan 2022 – July 2022

Thesis Intern – Deloitte Technology Strategy & Transformation

Aug 2022 – Dec 2022

Exchange at National University of Singapore (AI Strategies for Business)

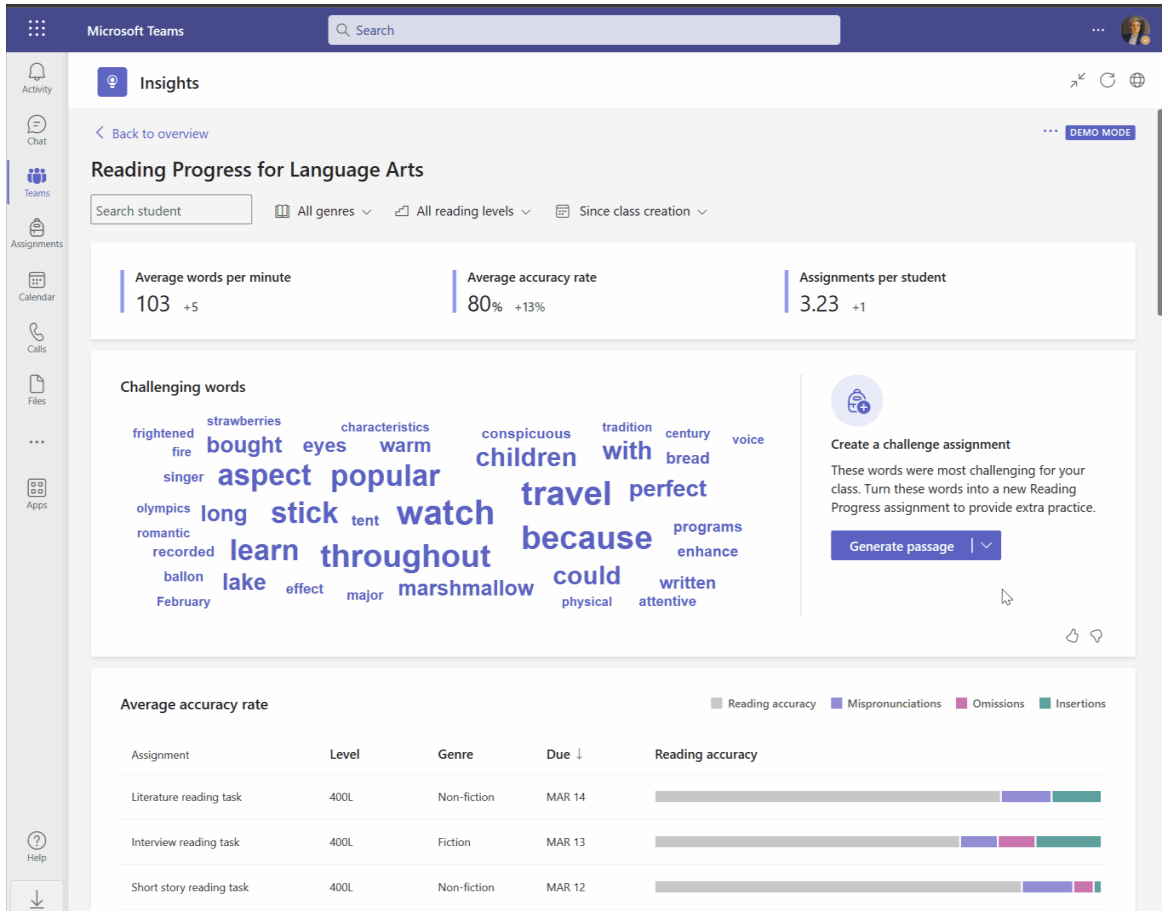
Feb 2023 – now

Solution Specialist Intern – Microsoft Education

What does AI in Education look like?

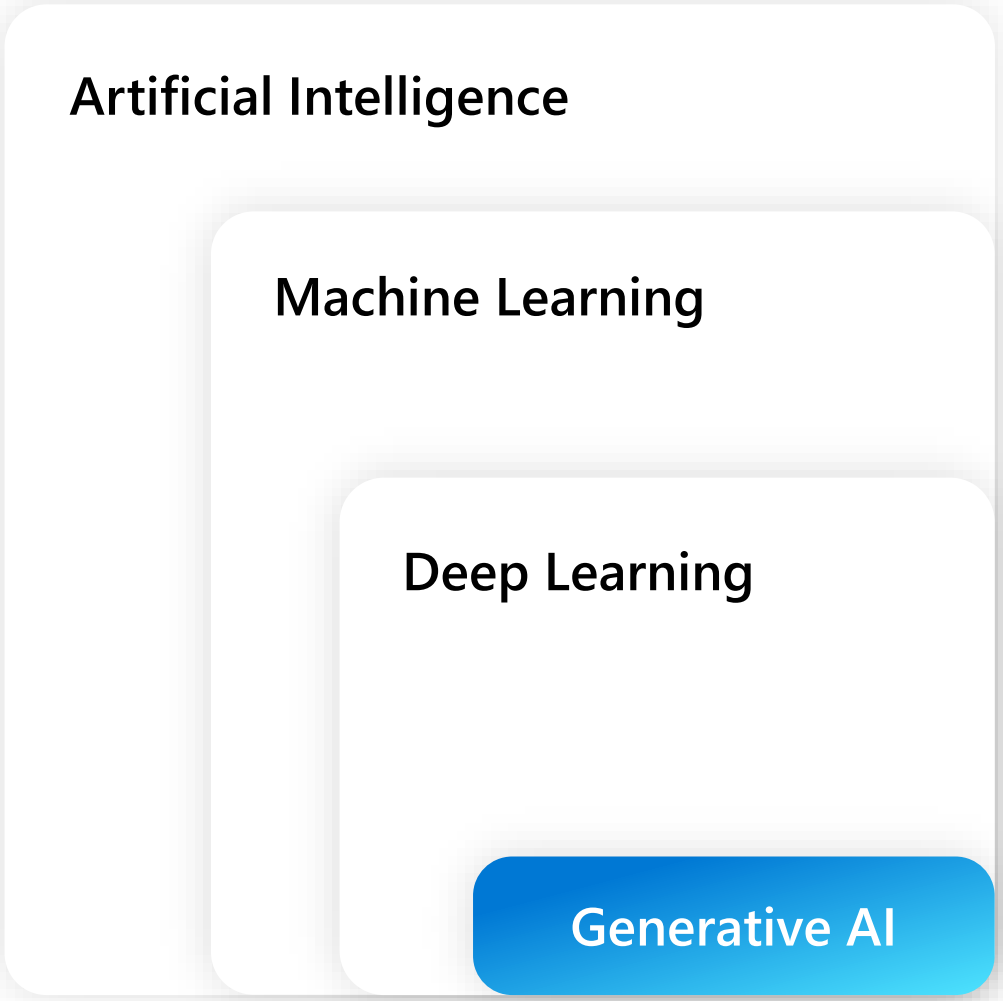
(AI-generated image using Microsoft Designer, 2023)

A lot of people think it's this



But really, it's more like this

A brief history of AI



1950s

Artificial Intelligence

the field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence.

1959

Machine Learning

subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions.

2017

Deep Learning

a machine learning technique in which layers of neural networks are used to process data and make decisions.

2021

Generative AI

create new written, visual, and auditory content given prompts or existing data.

OpenAI + Microsoft

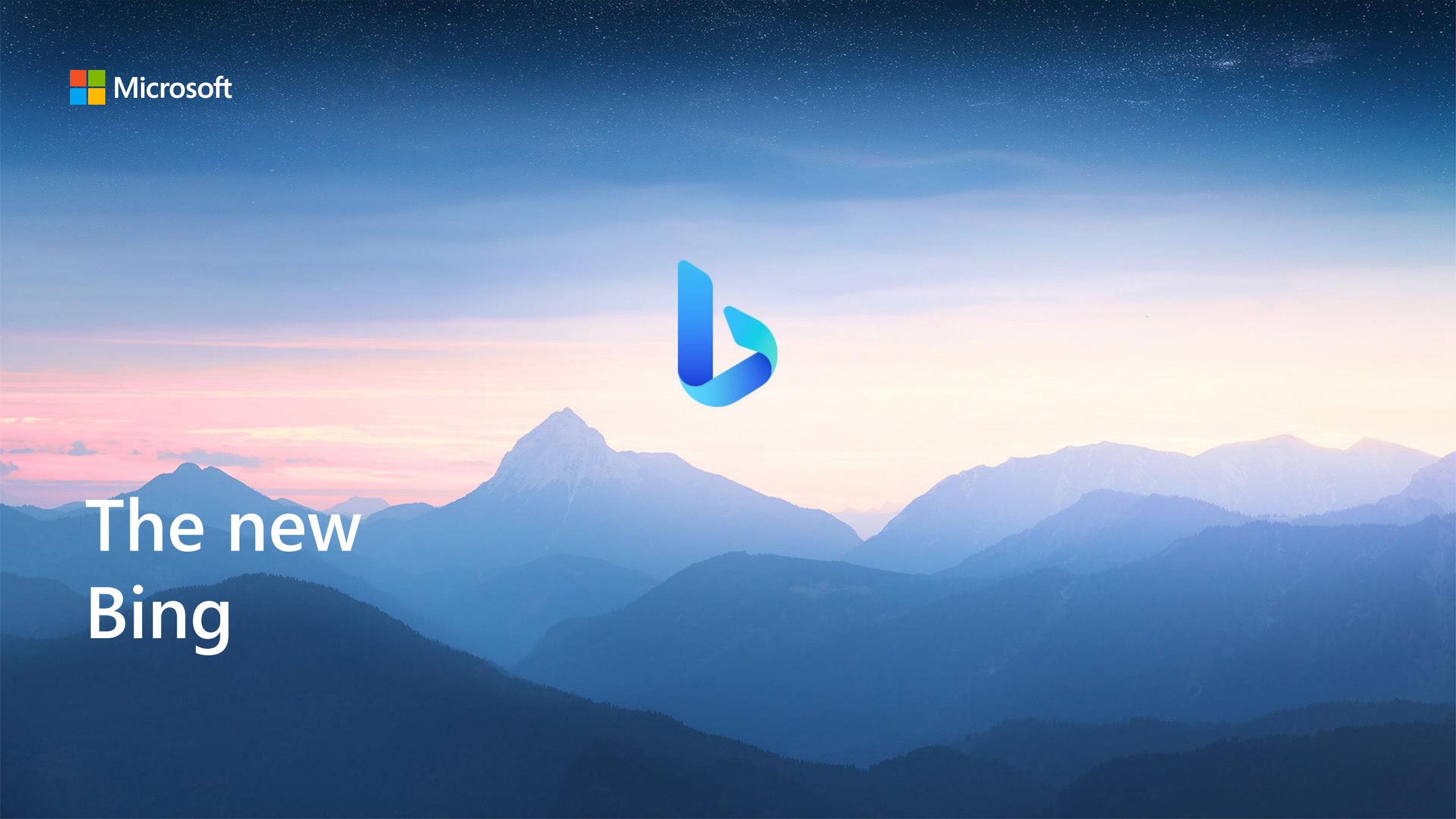
"We formed our partnership with OpenAI around a shared ambition to responsibly advance cutting-edge AI research and democratize AI as a new technology platform," said Satya Nadella, Chairman and CEO, Microsoft. "In this next phase of our partnership, developers and organizations across industries will have access to the best AI infrastructure, models, and toolchain with Azure to build and run their applications."

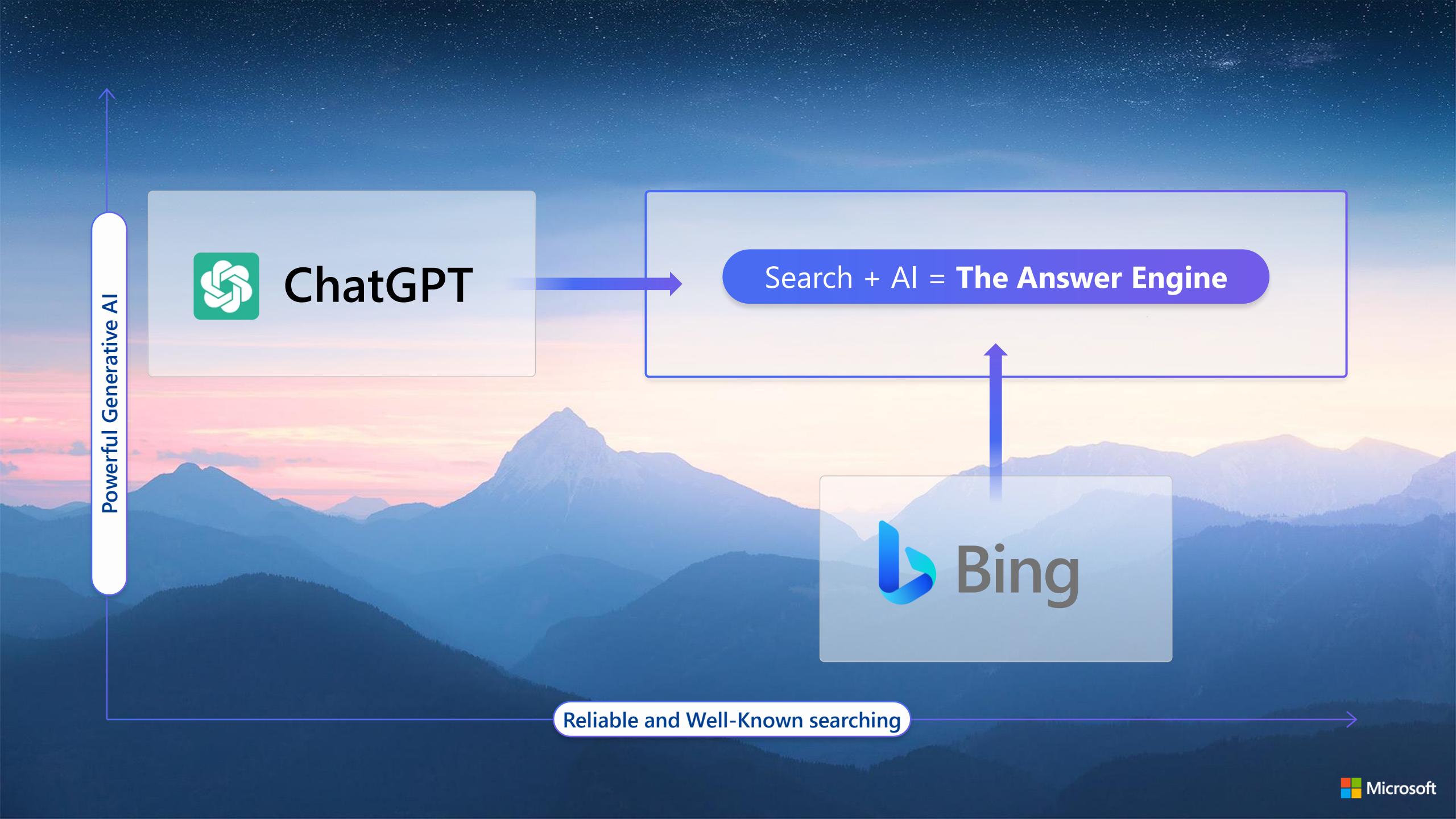
Supercomputing at scale

New AI experiences

Provision of cloud services

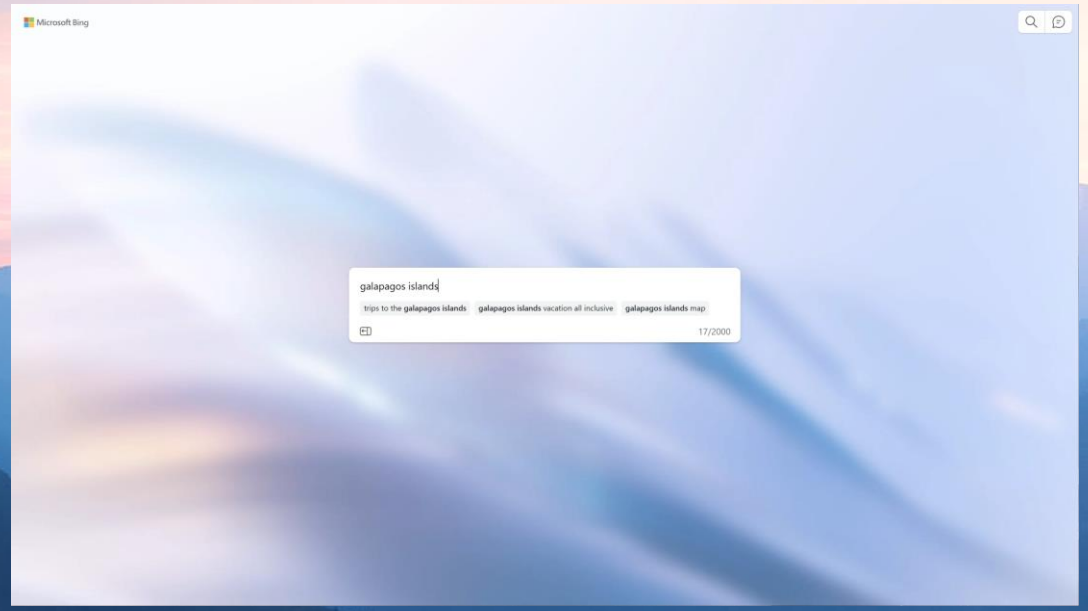
Let’s briefly talk about the difference between ChatGPT and Bing


Microsoft
The new
Bing


Powerful Generative AI
ChatGPT
Search + AI = The Answer Engine
Bing
Reliable and Well-Known searching
Microsoft

AI-powered copilot for the web

Joy of discovery



Microsoft

Bing

AI-powered copilot for the web

A better Search

It’s search you are familiar with that’s safe, more reliable, and delivers results like you expect.

Scenarios

- Web navigations
- Weather queries

Answers for You

It reviews results from across the web to find and summarize the answer you're looking for.

Scenarios

- Comprehensive summary
- Comparative insights

A new chat experience

Use chat to ask questions and get suggestions. It helps refine complicated research to get better recommendations.

Scenarios

- Travel planning
- Shopping research

Sparks your Creativity

You’re no longer limited by searching for what already exists. It helps you create new content with just a description.

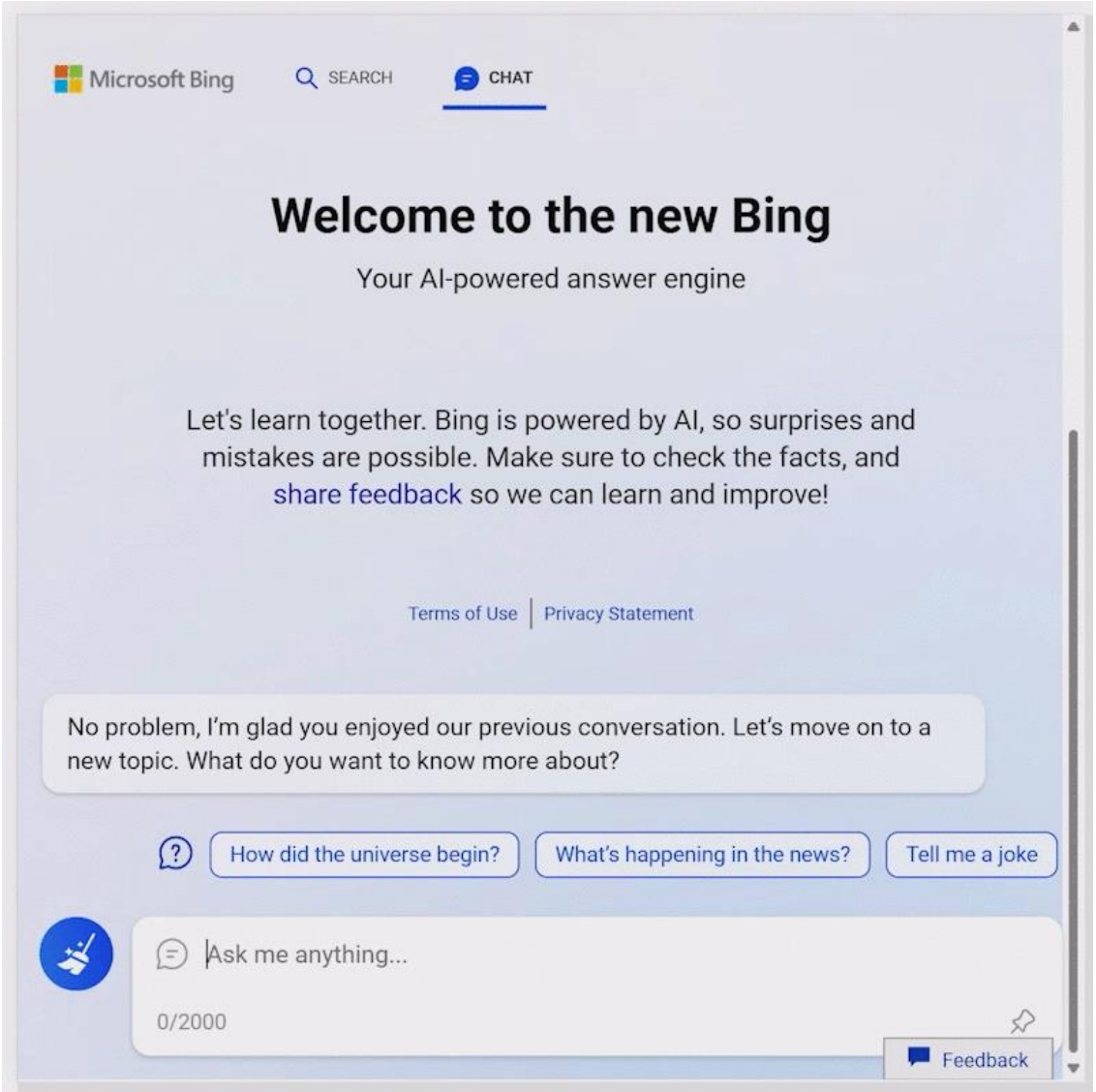
Scenarios

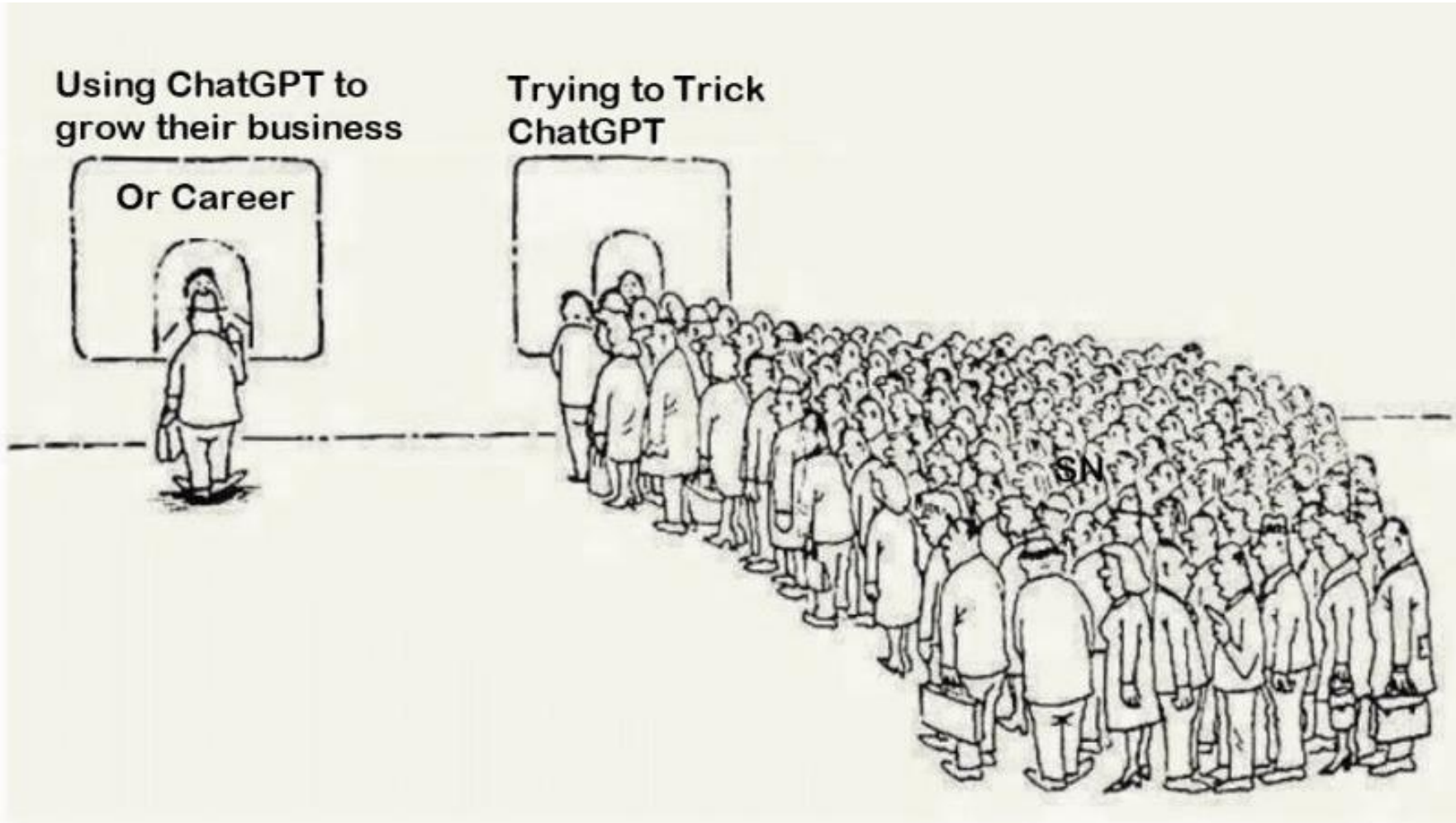
- Draft an email
- Create a meal plan

Microsoft

The *new* Bing (Search + Knowledge)

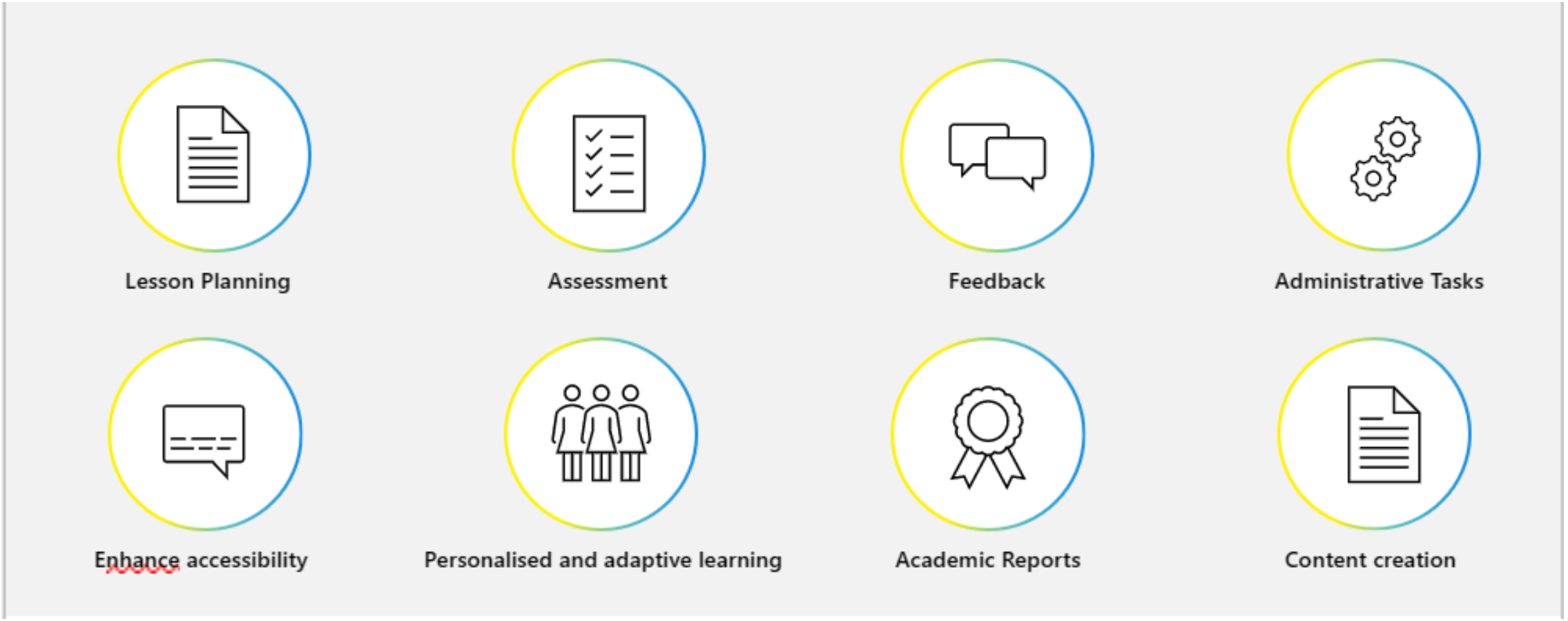
- **Next-generation OpenAI model.** Utilizes GPT-4.0 and builds on the key learnings of ChatGPT and GPT-3.5 – it's faster, more accurate and more capable.
- **Microsoft Prometheus model.** We have developed a proprietary way of working with the OpenAI model that allows us to best leverage its power. We call this collection of capabilities and techniques the Prometheus model. This combination gives you more relevant, timely and targeted results, with improved safety.
- **Applying AI to core search algorithm**. We've also applied the AI model to our core Bing search ranking engine. With this AI model, even basic search queries are more accurate and more relevant.




Using ChatGPT to grow their business
Or Career
Trying to Trick ChatGPT
SN

Question to the audience: How can we use (generative) AI for education now?

How can we use (generative) AI for education now?



Summarise text

Success criteria and examples

Glossary and definitions

Create emails

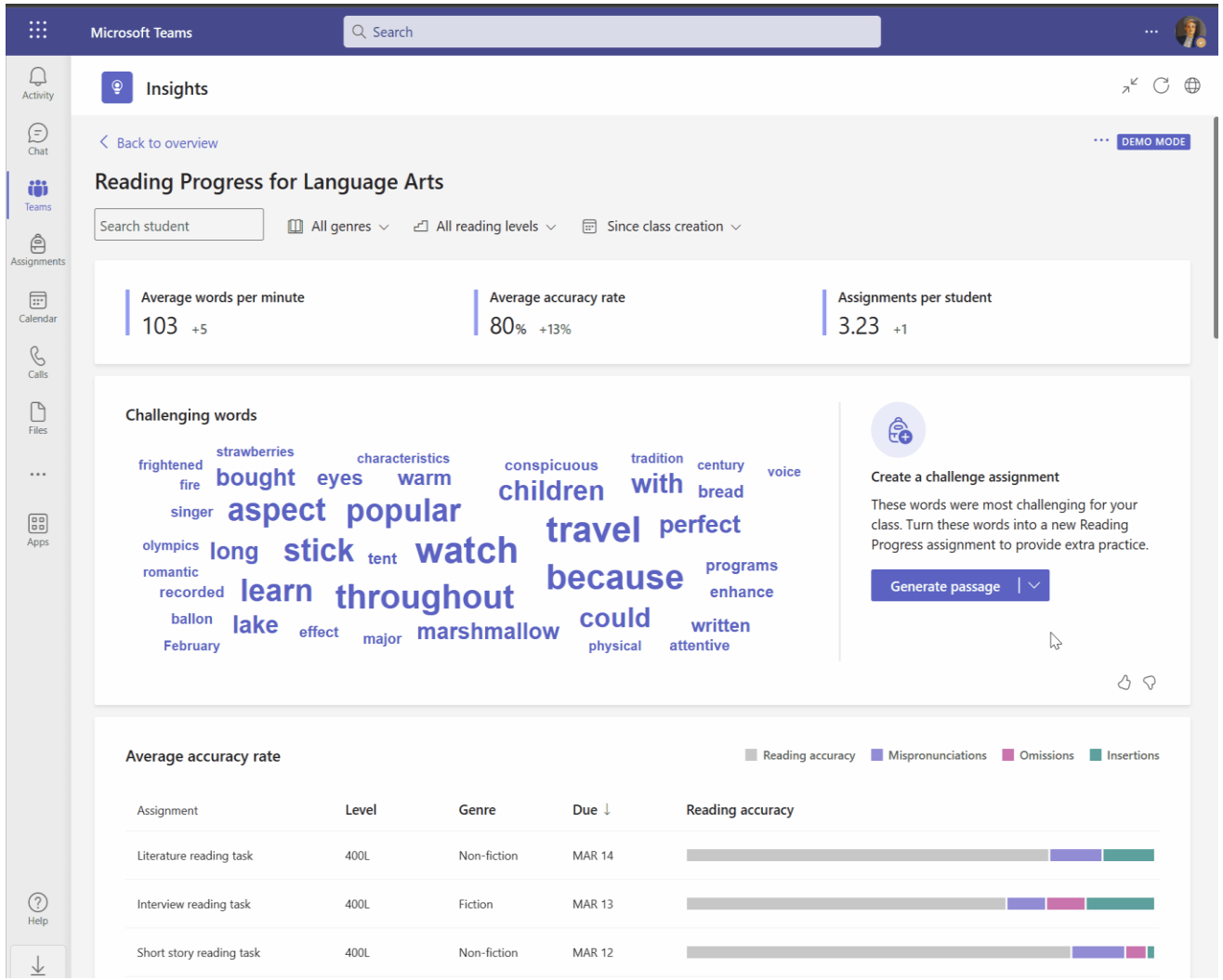
Budget and report creation

Create quizzes

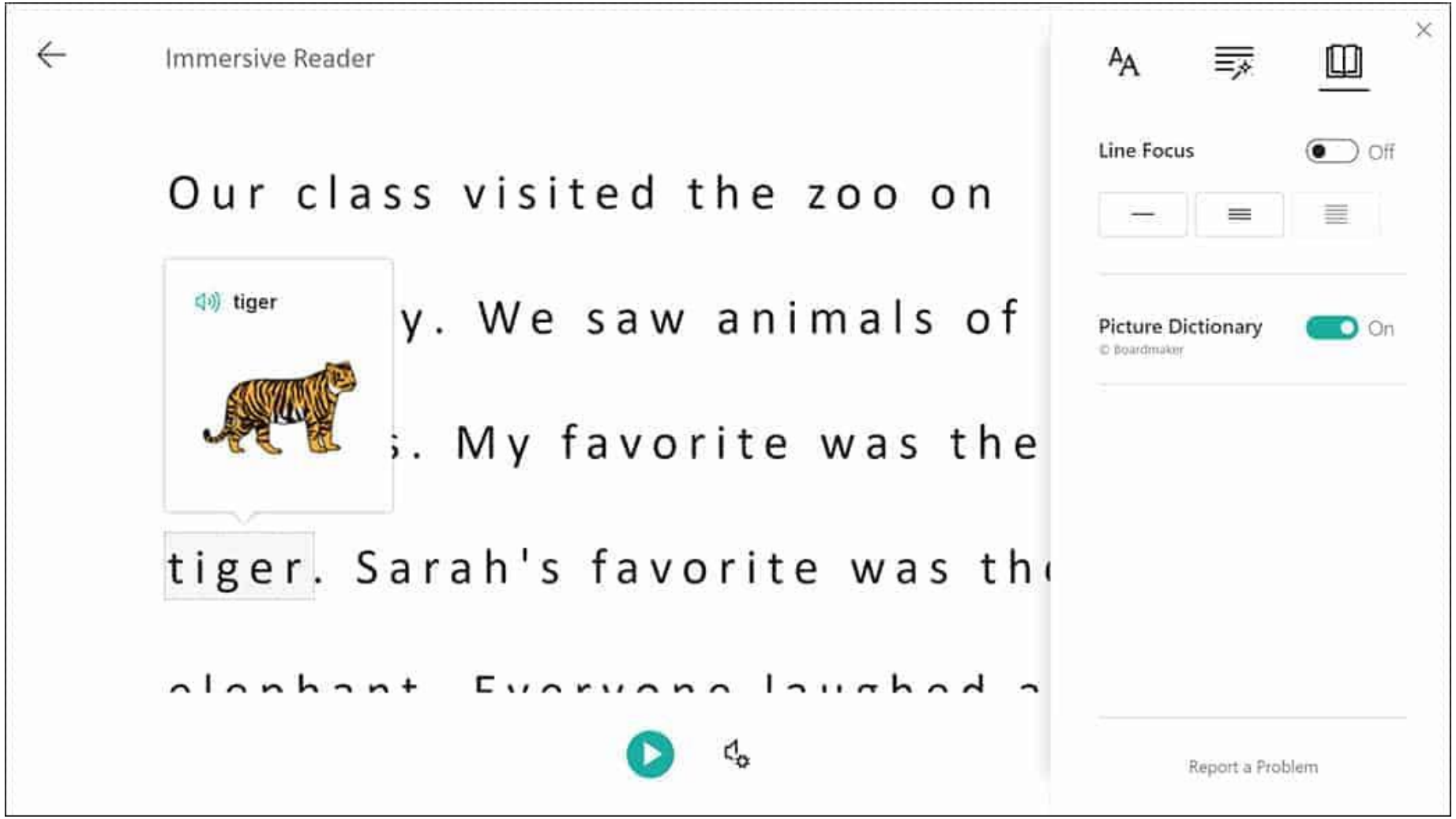
After school clubs

Create policy

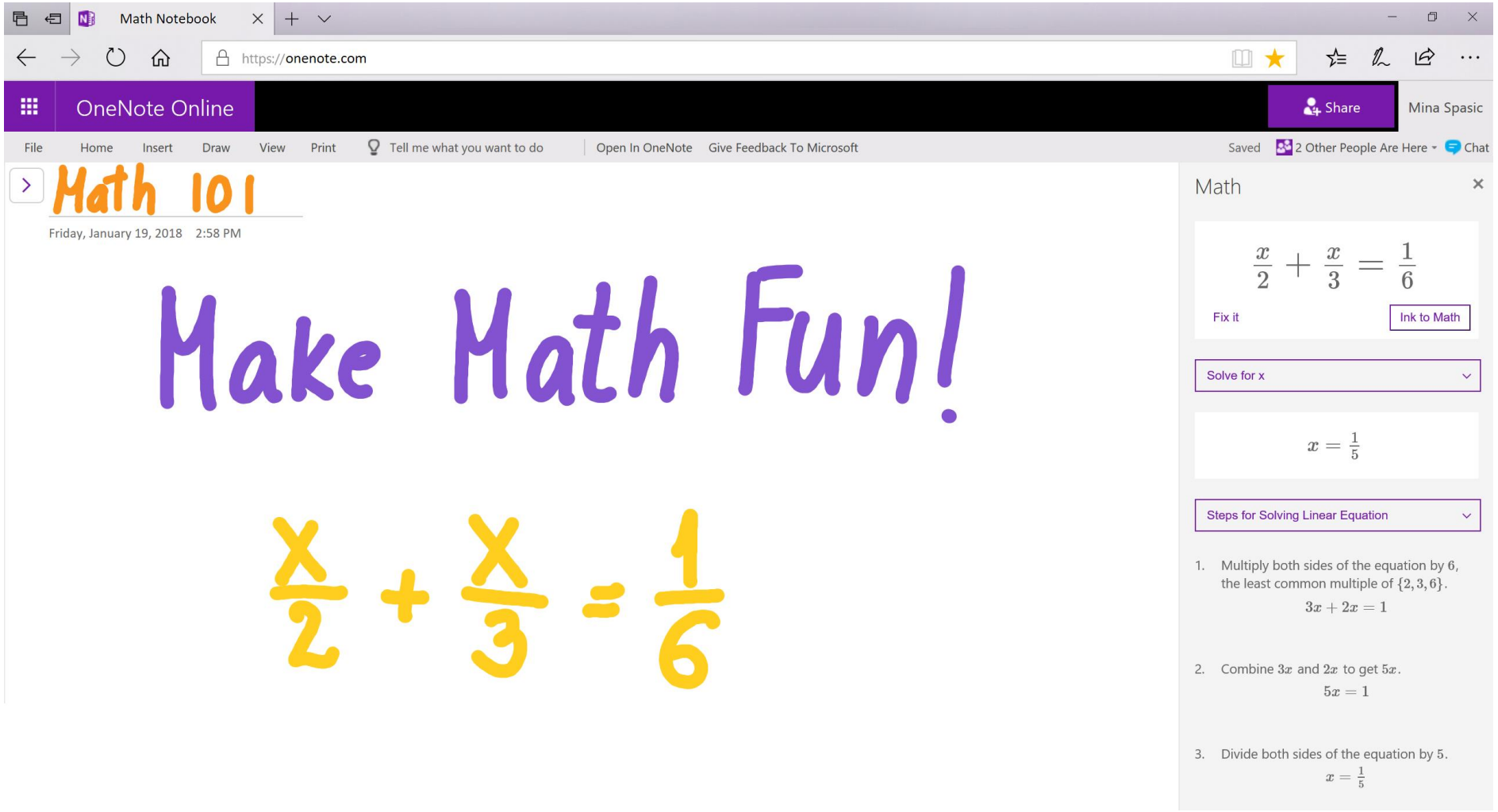
Reading Progress



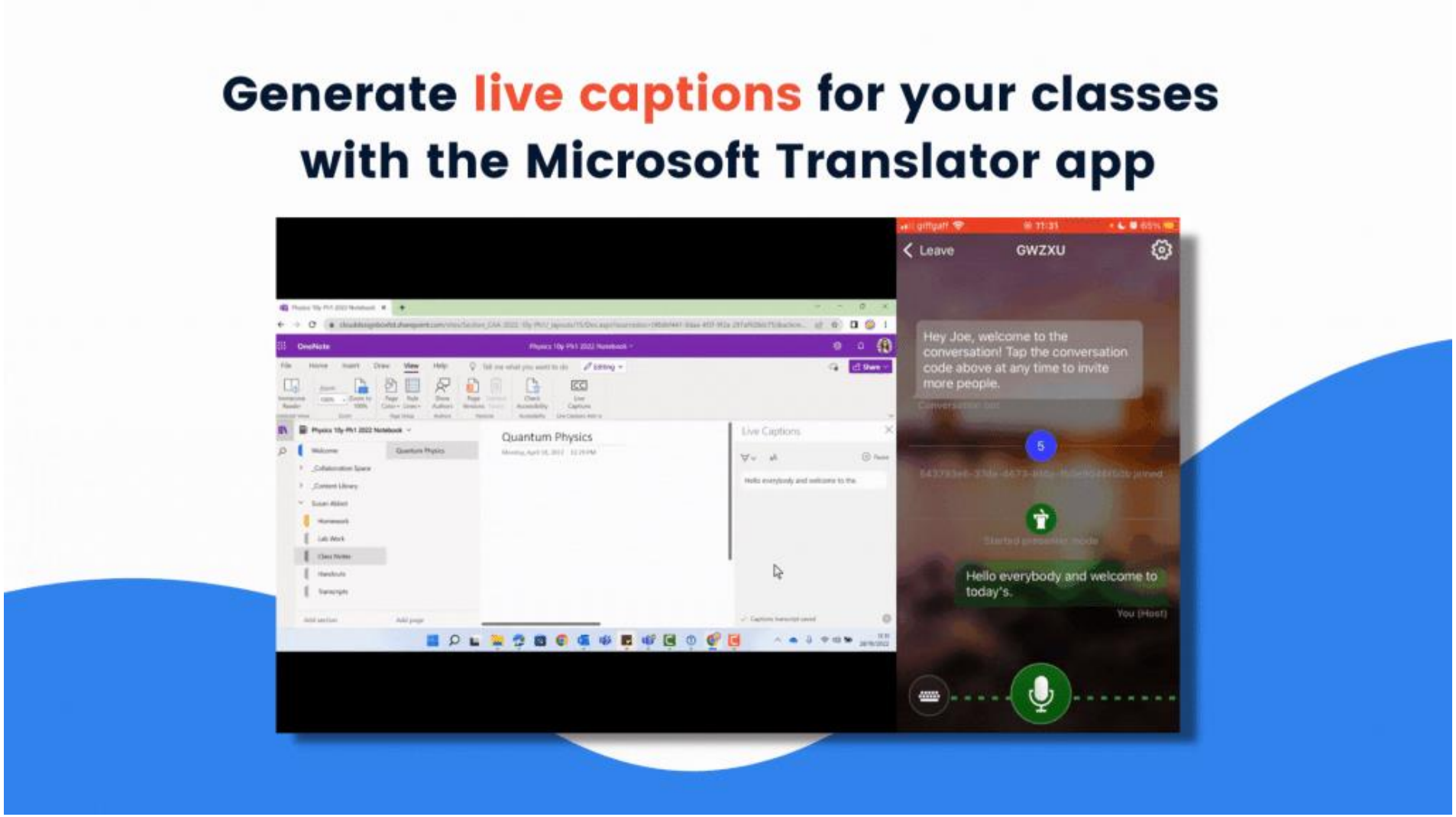
Immersive Reader



Math Assistant



Microsoft Translator



Question to the audience: What values and what skills are important in a world with Artificial Intelligence? And how can education adapt to this world?

Deep Learning

What values are important to us?

> *"By building products, features, and experiences that foster productivity and creativity, our ambition is to open doors to students everywhere."*
> *– Satya Nadella, Chairman and CEO*

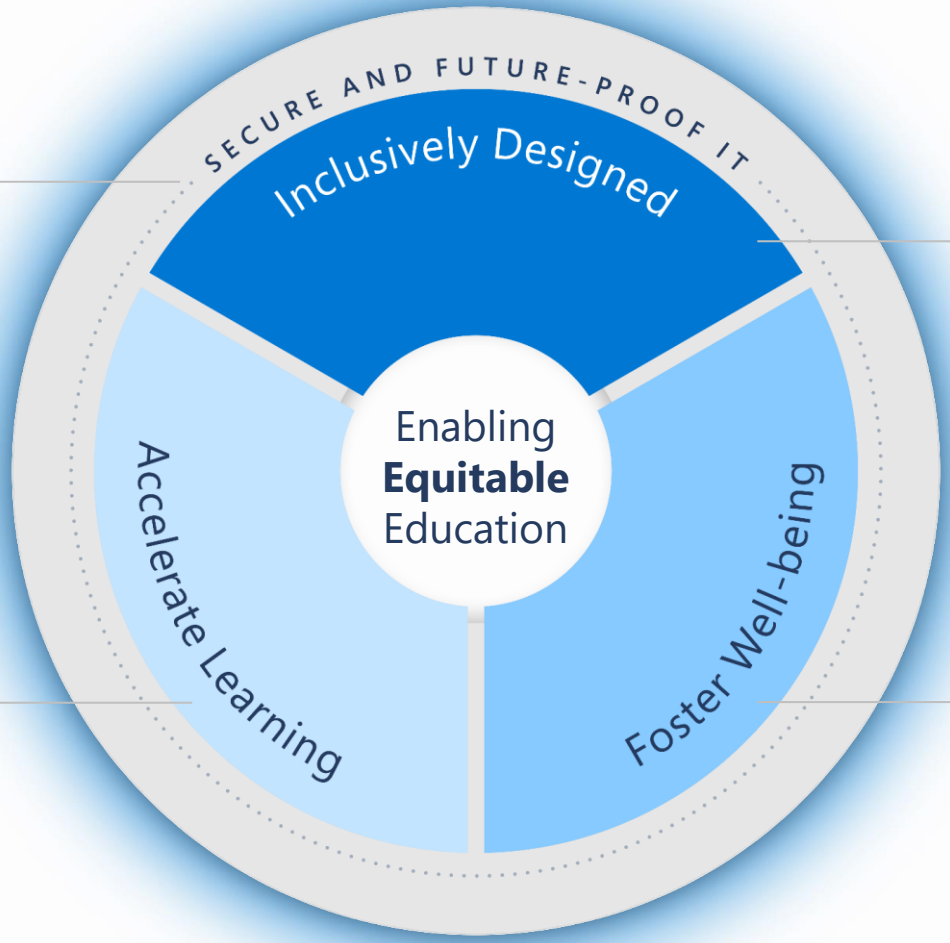
Enabling Equitable Education

Secure and Future-proof IT

Solutions that are secure, future-proof, and trustworthy are essential to unlocking digital transformation.

Accelerate Learning

Real-time data insights can accelerate learning and support career and workforce development.



Inclusively Designed

Accessible and inclusive tools provide the support students need to reach their full potential.

Foster Well-being

Products that support social and emotional well-being affect student motivation, engagement, and learning.

Microsoft

Solving education challenges

Microsoft solutions help students catch up, keep up, and get ahead in their learning with digital tools that empower educators and support administrators while improving security for everyone.

Core Components

Setup and securely manage devices, apps, and users.

Accessibility Solutions

Empower each person to better engage with the world.

Instructional Tools

Powerful tools improve collaboration and productivity.

Learning Accelerators

Driving student progress at scale with real-time feedback.

Microsoft 365 for education

Learning Accelerators

Foundational

- Reading Progress and Coach
- Reflect
- Math Progress and Coach

Future-Ready

- Search Progress and Coach
- Speaker Progress and Coach

Analytics

- Education Insights

Instructional Tools

- Teams for Education
- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- OneNote Class Notebook
- Microsoft Forms
- Microsoft Stream
- Microsoft Whiteboard
- Minecraft Education
- Flip
- Clipchamp

Accessibility Solutions

- Immersive Reader
- Translator
- Narrator
- Voice Typing
- Live Captions

Core Components

Platform

- Windows 11
- Education Devices

Management

- Intune for Education
- Azure Active Directory
- School Data Sync

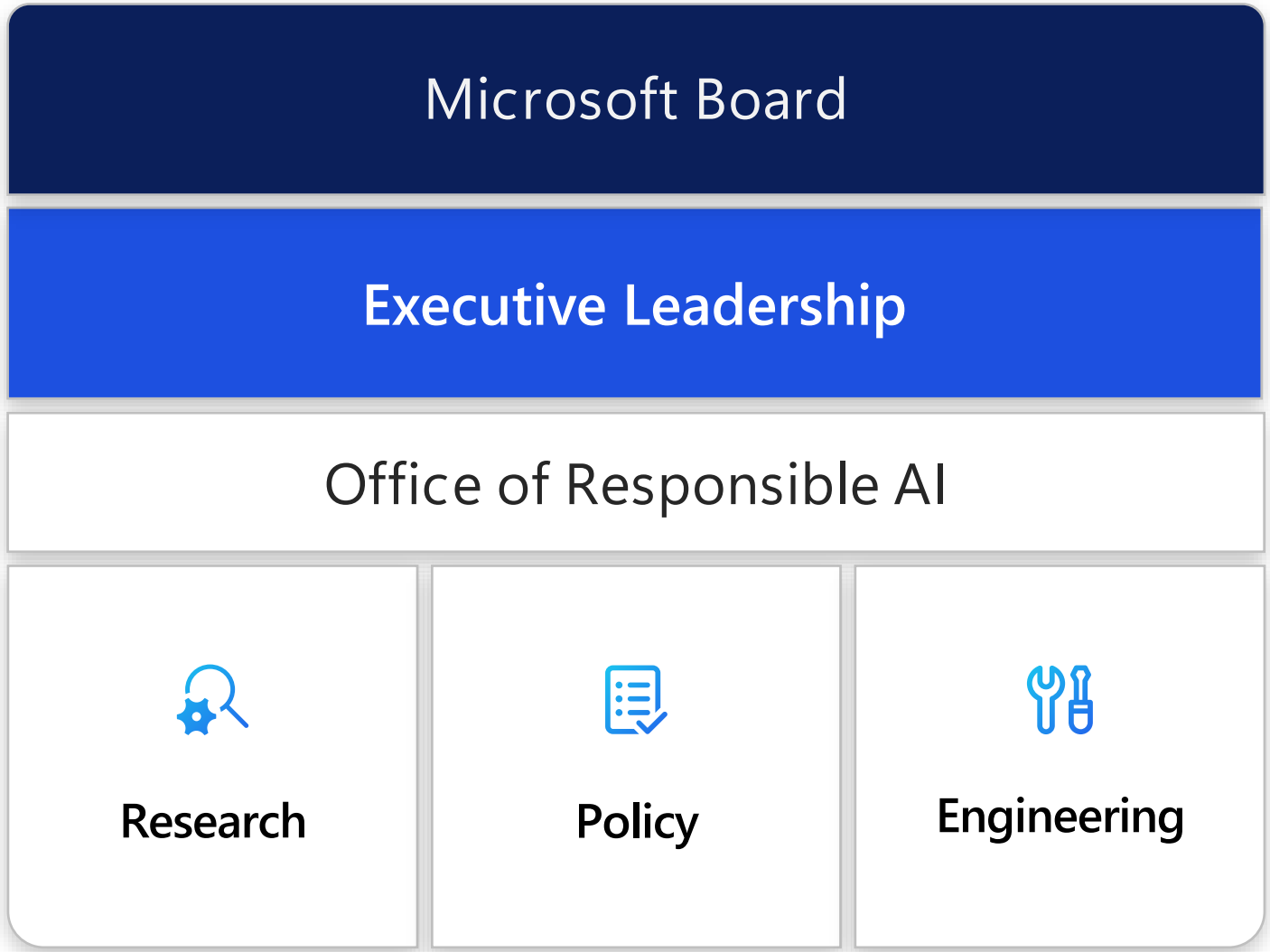
Security

- Microsoft Defender
- Defender for Endpoint
- Microsoft Sentinel
- Microsoft Purview

Microsoft’s approach to Responsible AI

Microsoft's AI Principles

Our ecosystem



Rules:
Responsible AI Standard

Records

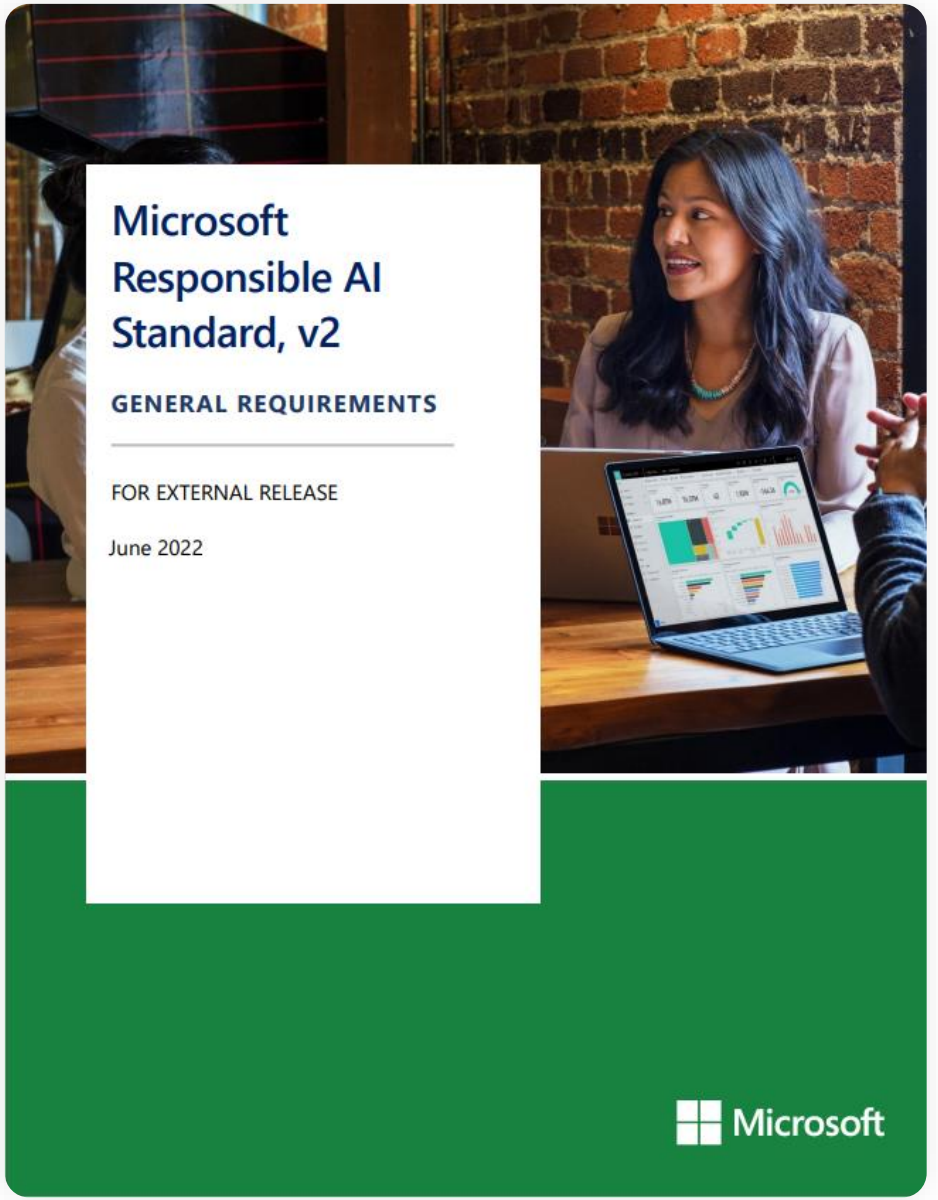
our practice of **Responsible AI by Design** – the proactive ways in which we guide the design, build, and testing of AI systems.

Establishes

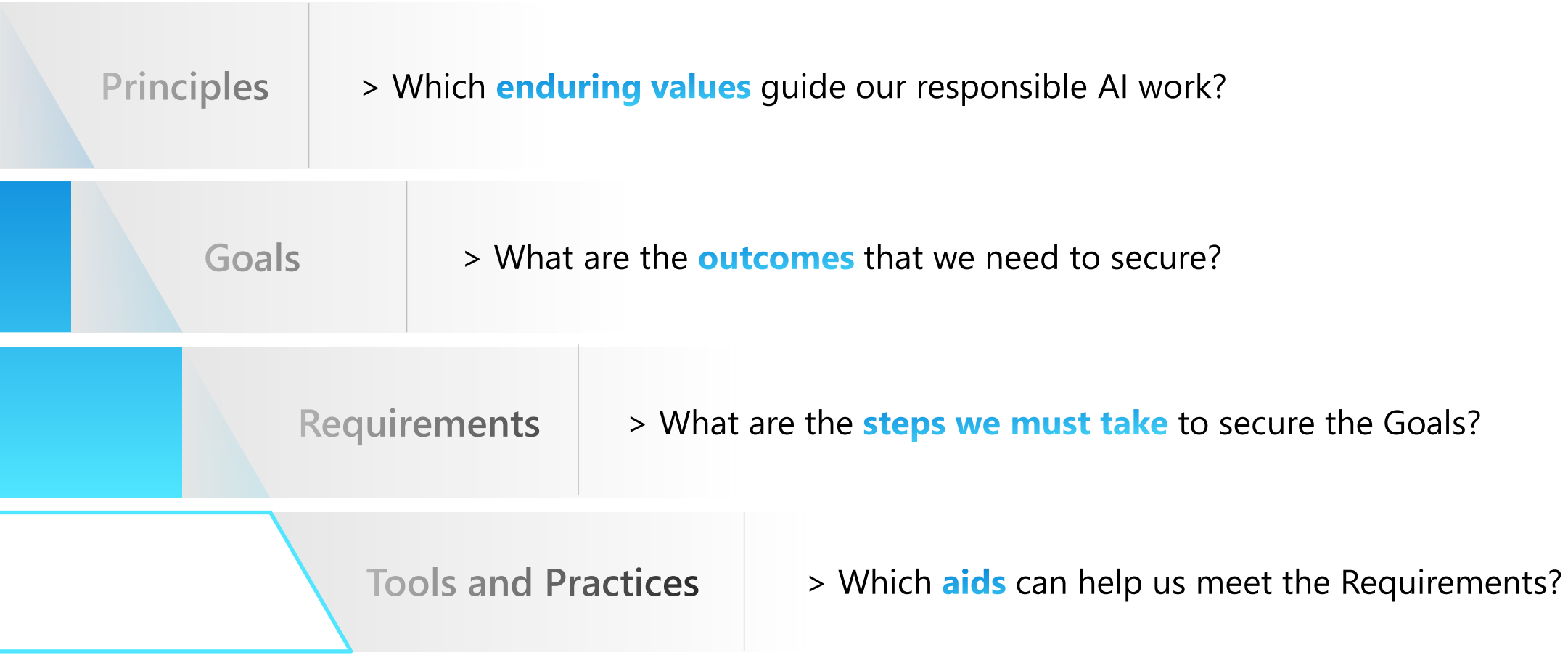
a **durable framework** for the maturing practice of responsible AI and evolving regulatory requirements.

Reflects

our **deeper exploration** of what our six AI principles mean and the steps we must taken to uphold them.



The Anatomy of the Responsible AI Standard



The Standard's Goals at a Glance

Accountability

A1: Impact Assessment
A2: Oversight of significant adverse impacts
A3: Fit for purpose
A4: Data governance and management
A5: Human oversight and control

Transparency

T1: System intelligibility for decision making
T2: Communication to stakeholders
T3: Disclosure of AI interaction

Fairness

F1: Quality of service
F2: Allocation of resources and opportunities
F3: Minimization of stereotyping, demeaning, and erasing outputs

Reliability & Safety

RS1: Reliability and safety guidance
RS2: Failures and remediations
RS3: Ongoing monitoring, feedback, and evaluation

Privacy & Security

PS1: Privacy Standard compliance
PS2: Security Policy compliance

Inclusiveness

I1: Accessibility Standards compliance

In summary, by moving beyond Chat GPT we can truly start to see the way that AI can empower education

- Powering personalized learning
- Enhancing teacher’s role
- Improving access and inclusion
- Innovating teaching and learning practices
- Developing new competencies for the AI era

However, we need interdisciplinary collaboration to build trustworthy and meaningful technology

We are grounded in the reality that we need to learn from the real world and real customers while we maintain safety and trust by building with the community

AI for Educators, NDA Community

AI business school for education - Training | Microsoft Learn

Teach forward: Best strategies for hybrid, remote, and blended learning - Training | Microsoft Learn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