

The background is a deep blue gradient with a complex, abstract pattern of flowing, curved lines that create a sense of movement and depth. The lines are darker in some areas and lighter in others, giving it a three-dimensional appearance.

Design for all:

How AI can help enable innovation for inclusion

NEXER



Chris Bush

Head of design group



Lee Valentine

Business analyst

Thinking about inclusion

1 in 6



1.4 billion people

worldwide have a
long-term disability

16 million people

in the UK
have some form of disability



Types of impairment



Visual

ability to perceive or process visual information



Auditory

ability to perceive or process auditory information



Sensorimotor

ability to feel and manipulate a physical device quickly, smoothly, and accurately



Speech

ability to produce sounds clearly, smoothly, and understandably



Cognitive

ability in mentally demanding areas: reading, memory, attention, language, complex concepts, problem solving



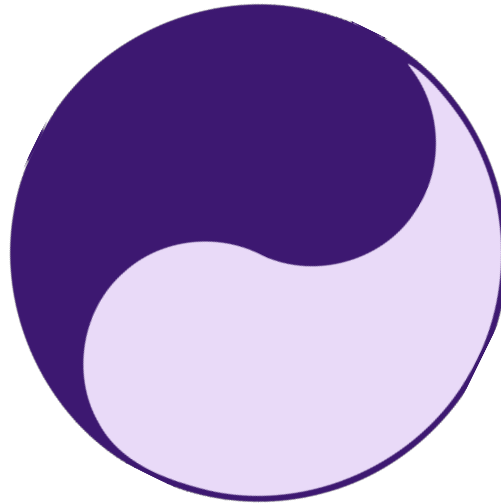
Mental health

a mental health condition is considered a disability if it has a long-term effect on your normal day-to-day activity.

AI + Accessibility

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**Improving the
user experience**



**Supporting inclusive
ways of working**

Inclusive design principles for generative AI

<https://www.nexerdigital.com/news-and-thoughts/ai-for-all-public-sector>

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Involve real users

Focus on user needs and context

Remove barriers (Empower and Inspire)

Provide control

Design with transparency

Maintain quality and accuracy

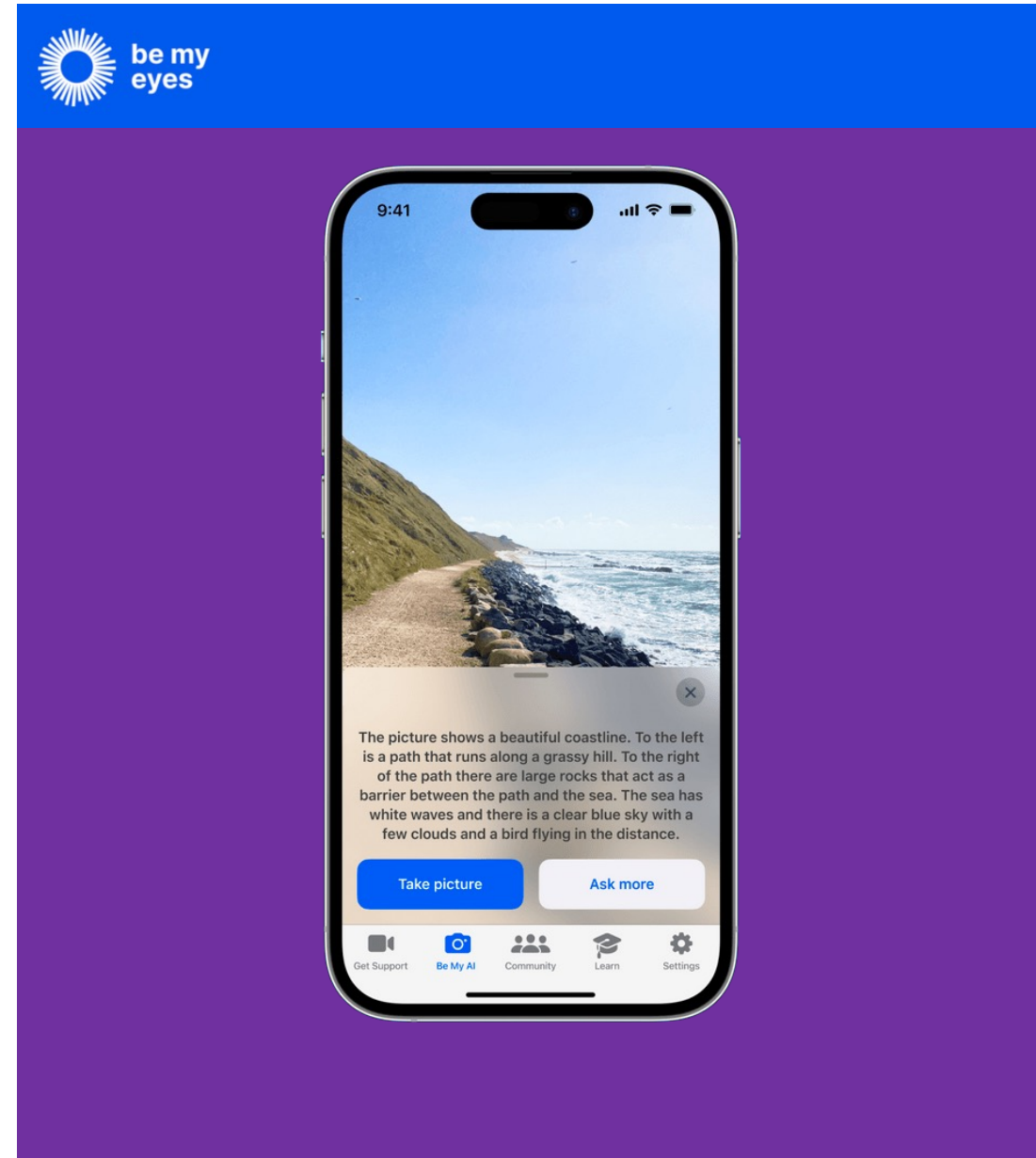
Ethical and responsible use

Support different interaction preferences

Compliance with accessibility standards

Focus on user needs and their context

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[Home](#) > [Health assessment tools](#)

Calculate your body mass index (BMI)

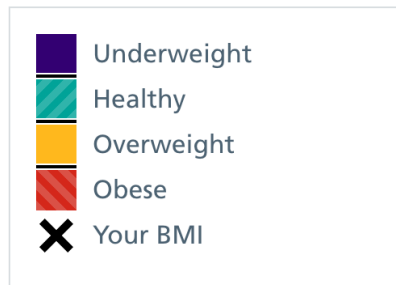
Check your BMI to find out if you're a healthy weight for your height.

[Calculate your BMI for adults](#)

[Calculate your BMI for children and teenagers](#)

Your BMI is 31.5

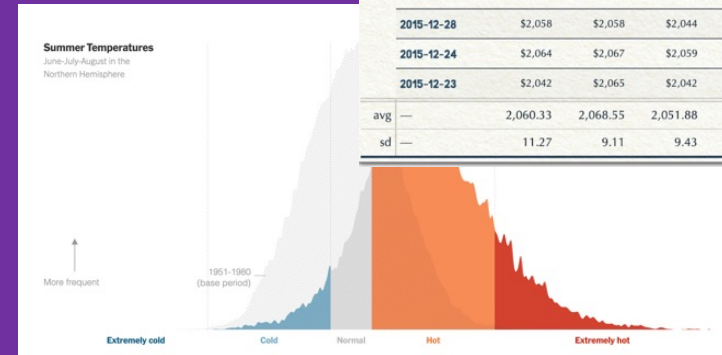
Your BMI is in the obese category.



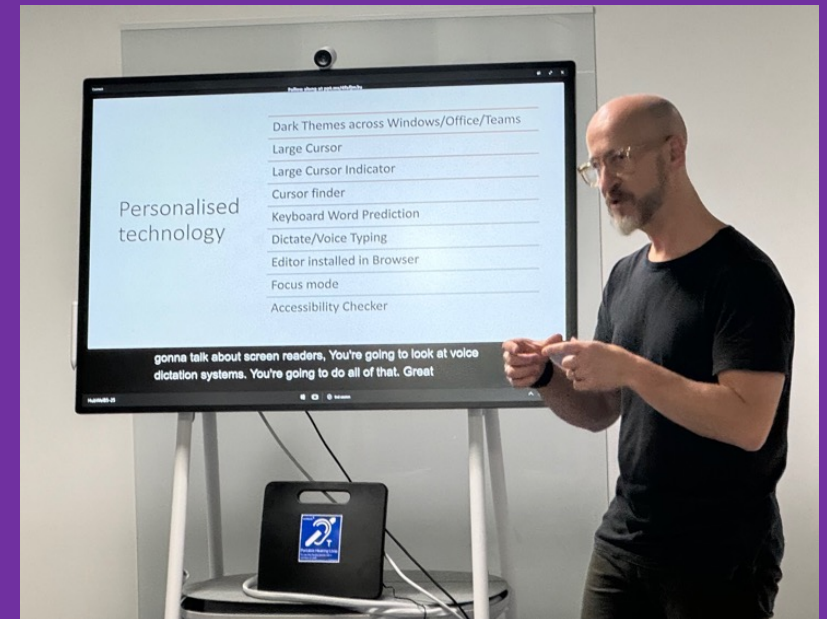
[▶ Chart description](#)

Empower and inspire

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DATE	OPEN	HIGH	LOW	CLOSE	VOLUME	ADJ_CLOSE
2015-12-31	\$2,061	\$2,063	\$2,044	\$2,044	\$2,655,330,000	\$2,044
2015-12-30	\$2,077	\$2,077	\$2,062	\$2,063	\$2,367,430,000	\$2,063
2015-12-29	\$2,061	\$2,082	\$2,061	\$2,078	\$2,542,000,000	\$2,078
2015-12-28	\$2,058	\$2,058	\$2,044	\$2,056	\$2,492,510,000	\$2,056
2015-12-24	\$2,064	\$2,067	\$2,059	\$2,061	\$1,411,860,000	\$2,061
2015-12-23	\$2,042	\$2,065	\$2,042	\$2,064	\$3,484,090,000	\$2,064
avg	2,060.33	2,068.55	2,051.88	2,061.24	2,492,203,333.33	2,061.24
sd	11.27	9.11	9.43	11.21	662,667,242.82	11.21



Swindon Council (+ Experts by experience)



Paying for your service



We tell you what your daily charge is.

We will charge you £ each month, and send you an invoice for this amount every month.



You can pay us directly from your bank account on Day 28 of each month.



Every year we will look at what you pay.

If the cost changes you will get a new Easy Read Agreement showing the new cost.

What your service includes



- All the support in your agreement
- Support to match your individual needs
- How we can support you to stay healthy and safe
- Use of the centre when you need to.

What your service does not include



- Travelling to and from the centre
- The cost of activities Freedom Support does not provide such as
 - going to the gym
 - going out for a meal
 - going out to see a film.

Do you need help with travel?



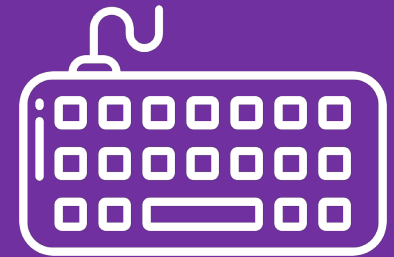
We can help you to travel to and from the centre, and add this to your daily costs.

<https://www.youtube.com/watch?v=leQegdK-1M8>

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Support different interaction preferences

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Google Research

Project

Euphonia

Communication powered by
research

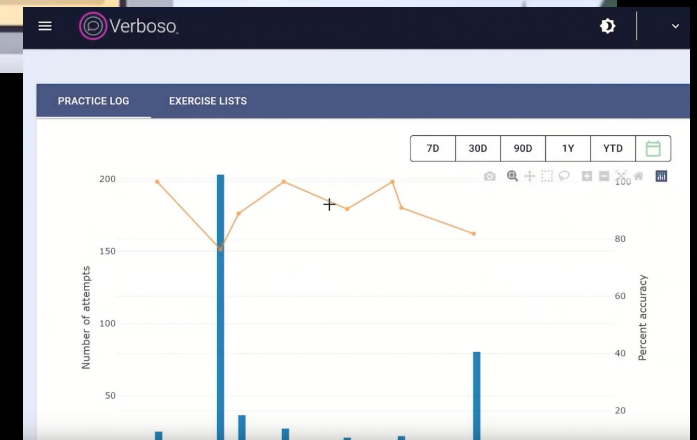


Watch video

<https://sites.research.google/euphonia/about/>

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Verboso



**Maintain quality
and accuracy.**

**Get real
user feedback**

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Inclusive ways of working

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How we make working inclusive at Nexer



MANUAL OF ME...
LEE VALENTINE – BUSINESS ANALYST

The basics you should know about me are ...

- I know I look grumpy 24/7, but I'm honestly very friendly and like being approached
- Live in Manchester, enjoy training in wrestling and Brazilian jujitsu
- Problem solver, good with words and letters, genuinely shocking with maths and numbers

I work brilliantly when...

- I am trusted and respected
- There is clear communication – I am hearing impaired, and so may often ask for repetition and/or confirmation
- I can apply visual context to help understand problems and solutions

When I'm dealing with stress, I ...

- Take a mini break, breathe and refocus
- Eat my weight in cookies or choc hobnobs
- Strangle my friends after work (at training of course.)

My best working patterns look like ...

- Flexible but lose focus and effectiveness with too many back-to-back meetings

Three things I've done recently which I'm proud of are ...

- Stopped working for a Russian state-owned company

There are some things which I'd love to resolve as a team ...

- Wherever I can contribute and hopefully add value

The sort of projects which really excite me have ...

- Opportunities for personal and collective growth

What motivates me to come into work each day is ...

- The chance to learn from a wide range of talented humans

Our ERGs

C.A.R.I.N.G	Access at Nexer	Still Proud
Cultural and Religious Inclusion at Nexer Group - or CARING - was set up in Summer 2023 for the growing number of staff from various ethnic and religious backgrounds, for a way to share thoughts, feelings, develop educational resources and create a shared community.	Access at Nexer is a disability discovery and focus group. Their mission is to understand and address barriers which may prevent individuals from gaining access to tools, processes and ways of working that will benefit the entire Nexer community.	Still Proud was formed off the back of the successful event in Summer 2023, as a space for LGBTQIA+ employees to share experiences, develop resources and champion individual voices.

Employee Resource Groups

Access @ Nexer Disability

- Published guidance on inclusive meetings
- Early research on M365 Copilot for disabled and neurodiverse experiences
- Delivered accessibility awareness sessions to colleagues in Sweden

C.A.R.I.N.G Cultural and religious

- Creating awareness and increasing cultural intelligence
- Improving diversity in leadership roles
- Helping colleagues to participate in cultural events

Still Proud LGBTQIA+


- Developed resources to educate about LGBTQIA+ inclusion
- Organised charity event for #StillProud
- Show and Learn for International Pronoun Day

Manual of Me

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MANUAL OF ME...

LEE VALENTINE – BUSINESS ANALYST



- The basics you should know about me are ...**
 - I know I look grumpy 24/7, but I'm honestly very friendly and like being approached
 - Live in Manchester, enjoy training in wrestling and Brazilian jujitsu
 - Problem solver, good with words and letters, genuinely shocking with maths and numbers
- I work brilliantly when...**
 - I am trusted and respected
 - There is clear communication – I am hearing impaired, and so may often ask for repetition and/or confirmation
 - I can apply visual context to help understand problems and solutions
- When I'm dealing with stress, I ...**
 - Take a mini break, breathe and refocus
 - Eat my weight in cookies or choc hobnobs
 - Strangle my friends after work (at training of course..)
- My best working patterns look like ...**
 - Flexible but lose focus and effectiveness with too many back-to-back meetings
- Three things I've done recently which I'm proud of are ...**
 - Stopped working for a Russian state-owned company
 - Joined Nexer
 - Won a few jujitsu matches and competitions
- There are some things which I'd love to resolve as a team ...**
 - Wherever I can contribute and hopefully add value
 - How I can help you feel included and heard
- The sort of projects which really excite me have ...**
 - Opportunities for personal and collective growth
 - Anything we can do to change or improve lives
- What motivates me to come into work each day is ...**
 - The chance to learn from a wide range of talented humans and contribute towards their successes

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-  Access needs and preferred communication methods
-  Supportive environment with respect for diversity
-  Sharing personal experiences and challenges

Lived and learned experiences



Neurodiverse Ways of Working Field Guide



Good Practice for Hearing Loss in meetings



Neurodiversity awareness and communication training



Accessible Design for Older Adults




Sharing knowledge
across our teams

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Recognising and overcoming barriers

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Liam
Business Analyst



Liam is a skilled business analyst with expertise in analysing data and creating accessible digital solutions.

Liam has a **hearing impairment** and uses lip reading and captioning for communication.

Barriers / Difficulties	How Copilot can help Liam
<ul style="list-style-type: none">• Cannot watch video without subtitles / closed captioning.• Cannot participate in remote or hybrid meetings without captioning or transcriptions.• Cognitive load from note taking can lead to missed information.• Challenges in following different perspectives discussed in meetings.• Difficulty in recognising who said what during meetings.	<ul style="list-style-type: none">• Real-time captioning and transcriptions enabled• Recaps of meetings using transcriptions Provides text versions of his meetings• Catch up and gain insights from videos Helps isolate key information from long recordings• Recap of meetings Helps them catch up without needing to read through extensive meeting minutes• Attribute contributions to specific speakers Helps them recognise each individual contributor and follow discussions more effectively

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Liam

Business Analyst



Liam is a skilled business analyst with expertise in analysing data and creating accessible digital solutions.

Liam has a **hearing impairment** and uses lip reading and captioning for communication.

Barriers / Difficulties

- Cannot watch video without subtitles / closed captioning.
- Cannot participate in remote or hybrid meetings without captioning or transcriptions.
- Cognitive load from note taking can lead to missed information.
- Challenges in following different perspectives discussed in meetings.
- Difficulty in recognising who said what during meetings.

How Copilot can help Liam

- **Real-time captioning and transcriptions enabled**
- **Recaps of meetings using transcriptions**
Provides text versions of his meetings and use Copilot for analysis
- **Catch up and gain insights from videos**
Helps isolate key information from long recordings
- **Meeting summaries and note generation assistance**
Helps them catch up without needing to read/write extensive meeting minutes
- **Attribute contributions to specific speakers**
Helps them recognise each individual contributor and follow discussions more effectively

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Emma

UX designer



Emma has been working as a UX designer for over ten years. She is passionate about creating inclusive designs that cater to all users.

Emma has a **visual impairment** and relies on screen readers and magnification tools to interact with digital content.

Barriers / Difficulties

- Cannot see small text
- Difficult to consume long or complex content
- Team collaboration – digital whiteboards on occasions are not accessible
- File sharing and version control – challenging to navigate to easily find relevant information
- Difficulty using mouse to target small areas

How Copilot can help Emma

- **Summarise emails**
Helps them quickly grasp the content of her emails without extensive reading and navigating
- **Create draft emails**
Helps dictate and draft emails more efficiently
- **Search for and locate files**
Provides easier access to enterprise search
- **Recap of meetings**
Helps catch up without needing to read through extensive meeting minutes and transcriptions
- **Generate meeting notes**
Helps with her meeting facilitation and note generation and distribution

Kevin

Software developer



Kevin is a skilled front-end developer who is detail-oriented and focuses on coding accessible and efficient web applications.

Kevin has a **cognitive impairment** that affects his ability to process complex information quickly.

Barriers / Difficulties

- Time consuming to filter large amounts of information
- Difficult to assess credibility of multiple sources of data
- Struggles with ideation and creating ideas from scratch
- Finds detailed technical documents hard to absorb
- Needs explanations to improve clarity and flow of content

How Copilot can help Kevin

- **Copilot enterprise search**
Helps find internal resources he needs without being overwhelmed by unnecessary information
- **Integrated web content search**
Helps gather information and resources from multiple external sources
- **Generate ideas from a blank canvas**
Helps ideate and brainstorm solutions when starting new projects or features
- **Summarising complex documents**
Helps understand and process detailed technical documents
- **Ask Copilot questions about content**
Quickly get clarification on complex code or project requirements

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Sofia

Project Manager



Sofia has extensive experience managing digital transformation projects ensuring they are delivered on time and within budget.

Sofia has a **motor impairment** and uses voice recognition software and adaptive keyboards for her work.

Barriers / Difficulties

- Struggles with traditional input methods, often requiring hands-free workarounds
- Extensive note taking places a strain on motor skills
- Maintaining and reviewing historical records of activities requires sustained physical effort
- Managing daily tasks, to-do lists, and next steps can be physically draining
- Producing detailed project planning and reporting documents can be exhausting

How Copilot can help Sofia

- **Voice enabled prompting**
- **Copilot assistance during meetings**
Provides a single platform for multi-channel information retrieval
- **Recap of historical meetings**
Helps track project progress by providing summaries of past meetings
- **End of day summary and advisory actions**
Helps with organisation by summarising daily activities and next steps
- **Quick and easy drafting of documents and presentations**
Helps generate quick first drafts for her to build upon

Maya

Content designer



Maya is a talented content designer who brings creativity and innovation to the team.

Maya is **neurodiverse** and experiences **sensory sensitivities** and needs structured environments.

Barriers / Difficulties

- Struggles with managing sensory overload
- Difficulty starting from a blank slate
- Lack of structure and consistency can cause confusion and frustration
- Challenges with focus and prioritisation
- Overwhelm from unstructured information

How Copilot can help Maya

- **Simplify workshop content management**
Helps group content based on themes to focus on key information without feeling overwhelmed by clutter
- **Summarise MS Whiteboard sessions**
Helps turn detailed discussions into concise points to help focus on essential takeaways
- **Generate initial ideas in MS Loop**
Helps ideate and brainstorm solutions when starting new projects or features from scratch
- **Create MS Forms with a single prompt**
Helps draft structured forms to avoid the overwhelming task of starting from a blank slate
- **Prioritising emails**
Helps focus on important tasks amongst an unorganised inbox

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What are we doing
next?

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Activity roadmap

Service Development

- MS365 and Copilot implementation projects
- MS365 and Copilot consultancy
- Accessibility audits
- Accessibility training and support

Knowledge Sharing

- Nexer Group Copilot webinar (November)
- Nexer Digital blog posts
- Conference appearances
- Annual Nexer Digital UK conference (Camp Digital)
- Joining advisory groups and forums to share and learn best practice

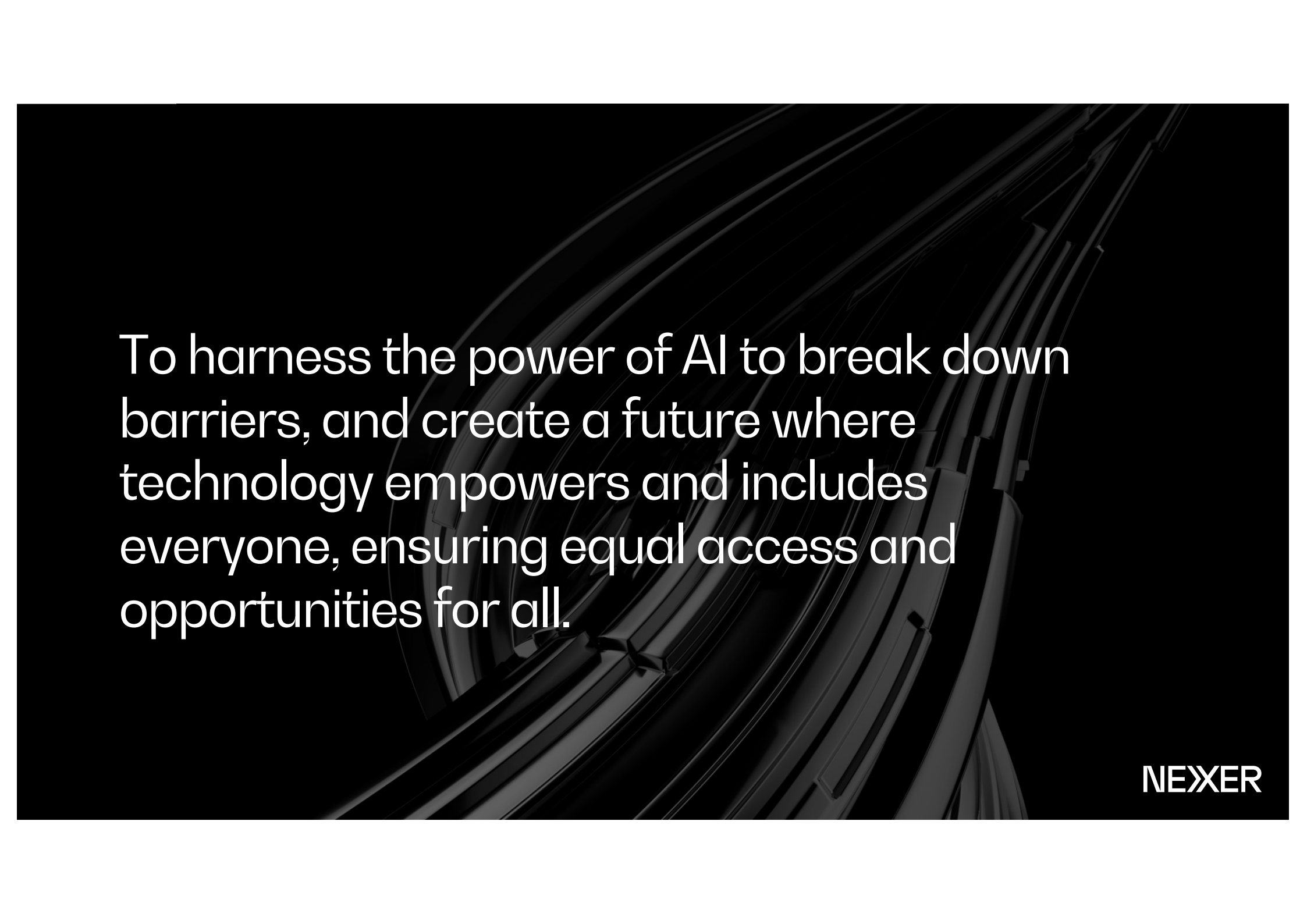
Ongoing Research

- Copilot Studio
- Copilot Wave 2 release
- Copilot extension
- Further iteration of personas and resources



Why are we doing this?

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To harness the power of AI to break down barriers, and create a future where technology empowers and includes everyone, ensuring equal access and opportunities for all.

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THANK YOU

Any questions?

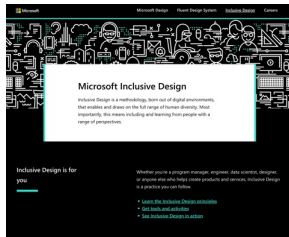
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<https://www.nexerdigital.com/news-and-thoughts/>

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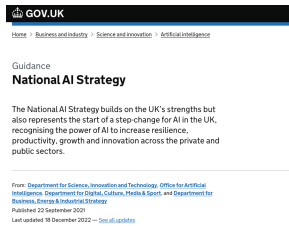
Useful resources



Microsoft inclusive design



Designing generative AI to work for people with disabilities



UK National AI strategy



AI and a new era for disability services



Opportunities for AI in Accessibility



Council using AI to help people with learning disabilities