



Tech In and Beyond the Classroom

June 4th, 1-4, Caroline McKinnon, Director of EdTech

What is digital literacy?

▶ What it is not!

- ▶ Excel or word spreadsheets
- ▶ Social media
- ▶ Technical

▶ What it IS

- ▶ How to effectively use technology
- ▶ How to identify authentic sources
- ▶ How to apply soft skills to the technical world

Digital Literacy Landscape

The Current Context for Adult Learners

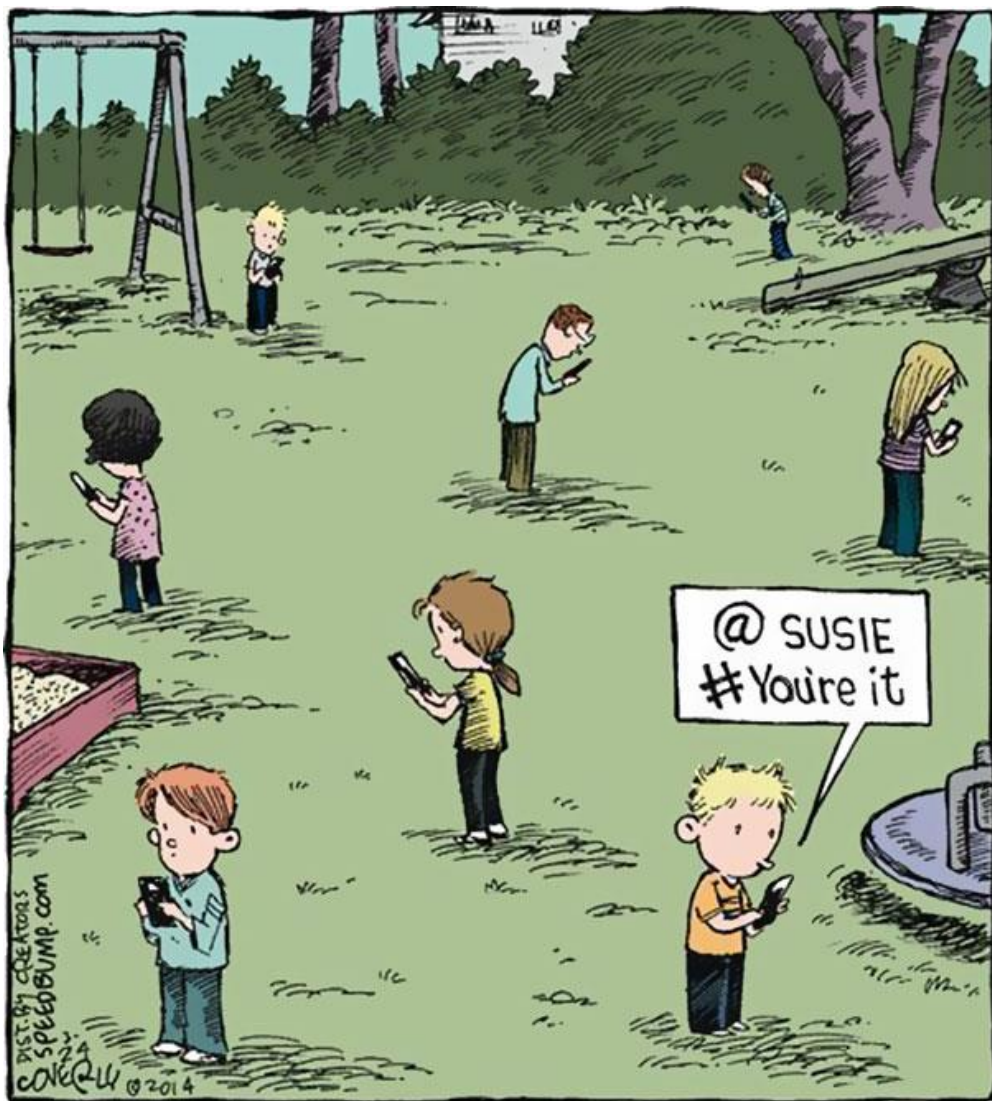
84% of jobs require digital skills

Digital divide continues to impact vulnerable populations

Accelerated digitization post-pandemic

Adults need both basic and advanced digital competencies

Technology evolves at an increasing pace



Smart Phones

- ▶ How many times a day (on average) do Americans check their phones?
- ▶ In the US, what is the daily average phone usage time?
- ▶ What percentage of people have bought something via their phone?
- ▶ What percentage (on average) do people use phones to call someone?
- ▶ What percentage of time (on average) do people use to watch videos?



So how can
we use this
to our
advantage?

Real-time polling ▶ and feedback





A magnifying glass is positioned over a DNA microarray, which displays a grid of small, colorful spots (red, green, blue, yellow) on a white background. The magnifying glass's lens is focused on a specific area, highlighting the intricate details of the DNA spots. The background of the slide features a blue and white geometric pattern.

Research

- ▶ Assign "micro-research" tasks where learners use their phones to find information, compare sources, or analyze data during class. This builds digital literacy skills while teaching subject matter, and works well for small group activities where students can immediately share and discuss their findings.



A Blank Wall for Student Ideas...

Collaboration

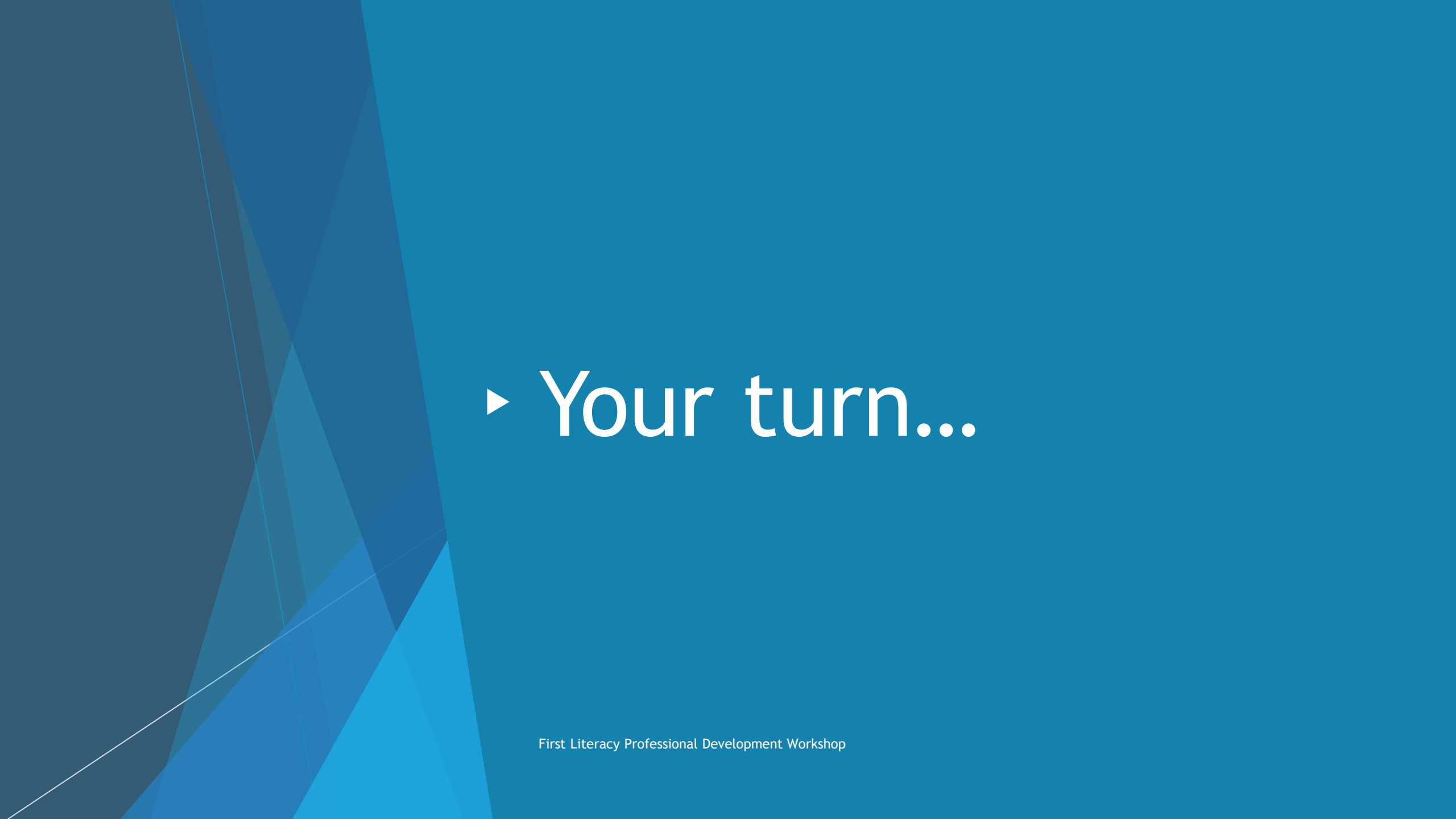
Document and capture



First Literacy Professional Development
Workshop

Apps, dictionary and pronunciation





► Your turn...

In breakout groups:

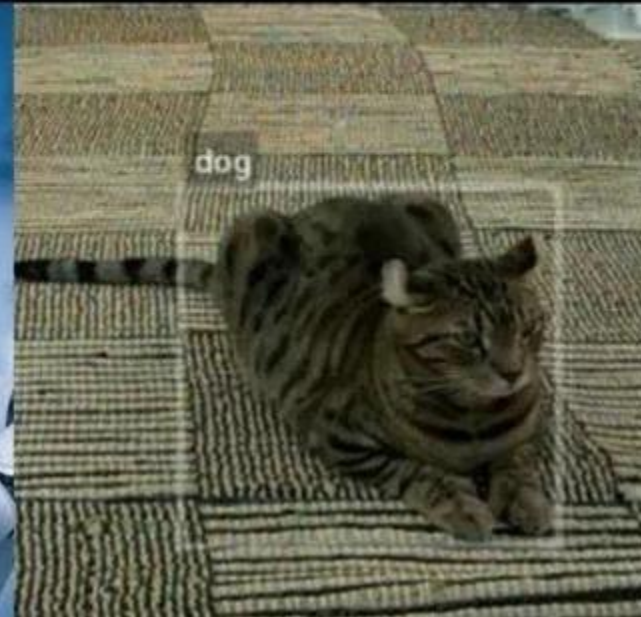
- ▶ Share one app you have used or would use with your learners
- ▶ What App/website have learners taught you?
- ▶ What one way of using phones would you like to try, and how?

People in 1990: AI will probably be very advanced in 30 years

The AI they expected:



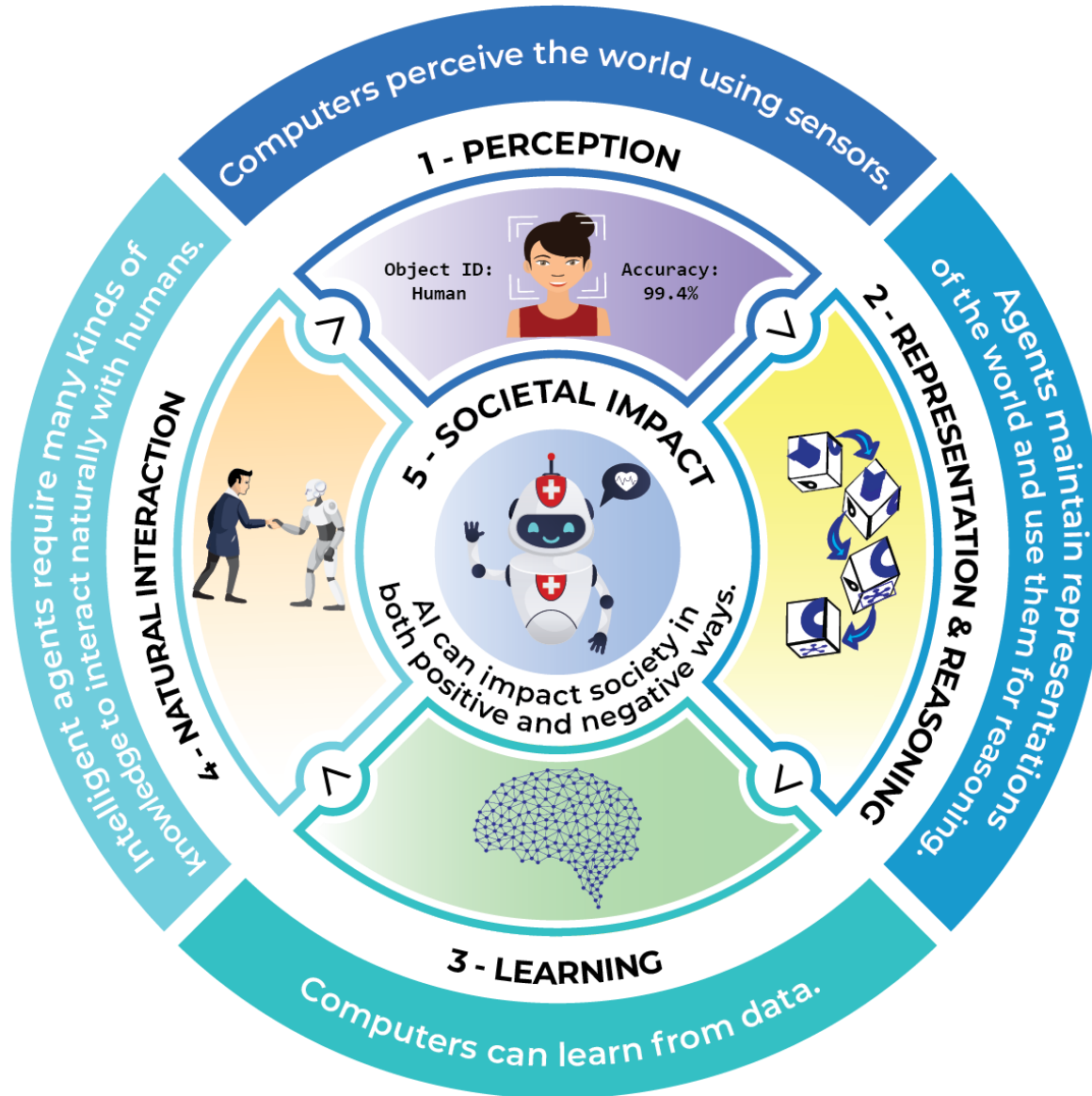
The AI now:



What can't AI do?

 Reply via chat! 





AI will solve EVERYTHING...

- ▶ It has the potential to help build a more equitable and inclusive learning space.
- ▶ BUT.....



Bias is real, and it can affect outcomes

- ▶ **AI bias**, also referred to as machine learning bias or algorithm bias, refers to AI systems that produce biased results that reflect and perpetuate human biases within a society, including historical and current social inequality.

▶ Example:

- *AI has been seen to negatively affect non-native English speakers, who might have different written patterns, by accusing them of copying their written work.*
- *AI has shown gender bias in certain roles, often labelling nursing roles as female, and more senior roles as male.*



THE LONDON
INTERDISCIPLINARY
SCHOOL

Why You Shouldn't Mix **Barbie** with Biased AI Image Generators



Are you surprised?
Does this mean don't use AI?
Or, is there a lesson here?

Have you heard about Prompt Engineering?

The process of **writing instructions** for AI language models to get desired outputs. It involves framing questions or tasks in a way that guides the AI to provide more **accurate, relevant, or useful** responses.

- **Clarity:** Writing clear, specific instructions
- **Context:** Providing relevant background information
- **Formatting:** Structuring the prompt in a way that AI can easily understand
- **Constraints:** Setting boundaries or limitations for the response
- **Examples:** Including sample inputs and outputs

Comparing Prompts

"What can we do about climate change?"

"Provide three specific technological solutions to combat climate change. For each solution, briefly explain how it works, its potential impact, and one major challenge in implementing it. Limit your response to about 150 words per solution."

Use Case #1: Lesson Planning

- Generate activity ideas that will help adult students learn **how to build a budget**.
- Review this lesson plan and anticipate student responses. What observations might they make? What questions might they ask? How would you respond?
- ▶ Create a one-hour lesson plan focusing on **basic budgeting** concepts for an adult education financial literacy class. Include objectives, activities, and resources.

Use Case #2: Adapt and Translate Materials

- Rewrite this article at a 4th, 7th, and 10th grade reading level.
 - *Copy and paste the article below the prompt.*
- Translate this article into Spanish, Arabic, and French.
 - *Copy and paste the article below the prompt.*

Career Dreamer | Grow with Google

- ▶ Back to breakout rooms: This time, play with Career Dreamer and working together thinking of an activity where this could be useful. It doesn't have to be a 'teaching' activity, it could be for staff.





XR... is this possible?



Want to go on a trip with me?

- **Google Arts & Culture** - Virtual museum tours with 360° views
- **Google Earth VR** on desktop - Explore locations together
- **YouTube 360° videos** - Immersive content accessible to all participants
- **National Geographic VR experiences** - Many available free online

Smithsonian National Museum of Natural History

First Literacy Professional Development Workshop



Explore Careers

First Literacy Professional Development Workshop



Final Activity!





Thank you!

We want your feedback. Please be sure to complete the evaluation.

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