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AI in Education Workshop

UNICEF Innovation Camp 2025

22 October, 2025 | 15:15-17:00

Niall McNulty, AI Product Lead, Education Futures

Workshop Structure: The 3 x Formula

Today we'll follow this structure:

Instruction



Core concepts explained clearly

45 minutes

Demonstration



Watch it work in real-time

15 minutes

Practice



Try it yourself with guidance

45 minutes

Workshop Objectives

By the end of today's session, you will:

1. Understand AI fundamentals and current advances in educational AI
2. Identify global trends and tools for AI in education
3. Apply simple prompting techniques with freely available tools
4. Use text files to create shareable teaching content for AI chatbots
5. Understand context engineering and 'sovereign' pedagogy principles
6. Generate formative assessments with AI
7. Explore WhatsApp chatbot solutions for teacher support
8. Develop a context for personalised AI assistance
9. Create shareable Lesson Planner GEMS in Gemini

Niall McNulty, Education Futures

- Teach 'Designing Assessments with AI' for Cambridge Assessment
- Run a project on AI for STEM teaching in Kuwait
- Create local curriculum content using AI and open-source tools
- Building a WhatsApp teacher support AI chatbot for South Africa
- Build AI chatbots on research knowledge-bases
- Developing an AI for school leaders programme
- HP Futures: AI & Educators Council, Cambridge HP Edtech Fellowship
- Running an AI lesson planner project for local curriculum in the Maldives



AI
+ Education



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PART 1: Understanding AI in Education

Benefits, risks, impact and policy consideration

Time: 15:15 - 16:00

So what is Artificial Intelligence?

Computer systems that simulate human intelligence by recognising patterns, learning from data, generating content, and solving problems.

You're already using AI daily



Email

Spam filters, smart categorization, and auto-complete suggestions

Common Examples:

- Gmail spam detection
- Outlook smart sorting
- Auto-reply suggestions



Navigation

Route optimization, traffic prediction, and voice directions

Common Examples:

- Google Maps traffic predictions
- Waze route suggestions
- Voice navigation



Social Media

Content recommendations, face recognition, and automated translations

Common Examples:

- Instagram feed algorithm
- Facebook photo tagging
- TikTok "For You" page



Smartphone

Face/fingerprint unlock, voice assistants, and photo enhancement

Common Examples:

- Face ID
- Google Assistant
- Portrait mode photo processing



Traditional Software

Deterministic & Rule-based

Follows exact rules

If this, then that

Same input = Same output

Programmed knowledge

Cannot handle ambiguity



AI/Machine Learning

Probabilistic & Adaptive

Learns patterns from data

Recognises patterns

Same input $\approx$ Similar output

Learned knowledge

Thrives on ambiguity

Think: **Calculator** vs **Weather Forecaster**

A calculator follows precise rules to give exact answers, while a weather forecaster uses patterns to predict likely outcomes.

4 Types of AI for Education



MACHINE LEARNING

Recognizes patterns in data



NATURAL LANGUAGE PROCESSING

Understands and generates language



COMPUTER VISION

Analyses images and video



GENERATIVE AI

Creates new content (text, images, video, code)

How LLMs Work to Answer your Queries



1. TRAINING PHASE

Learns patterns from billions of texts



2. YOUR INPUT

Processes your prompt into tokens



3. GENERATION

Predicts next words, creates response

Stage 1: Training Phase

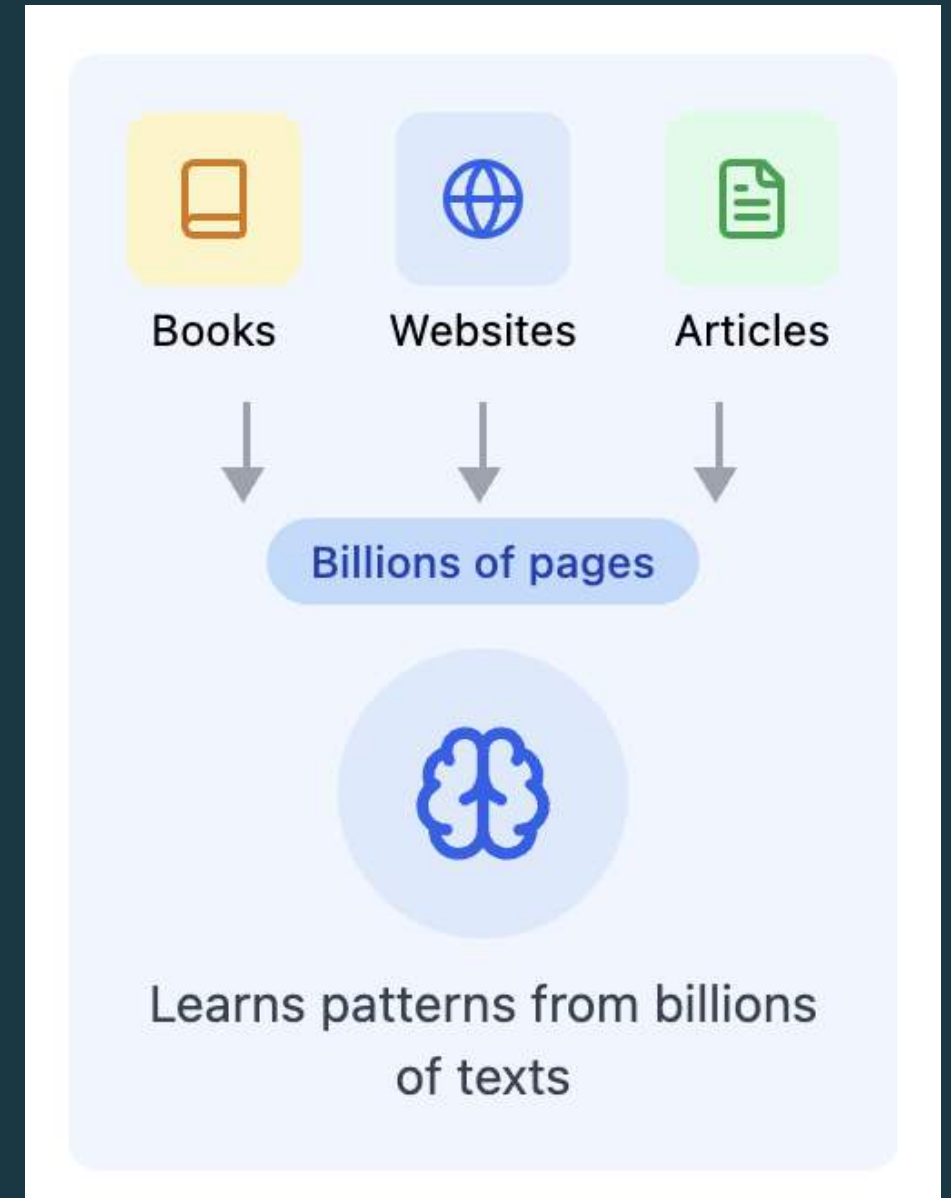
(Already complete before you use it)

Fed billions of pages of text

Learned patterns:

- Grammar rules
- Factual associations
- Reasoning styles

Like a student reading entire libraries



Stage 2: Your Input

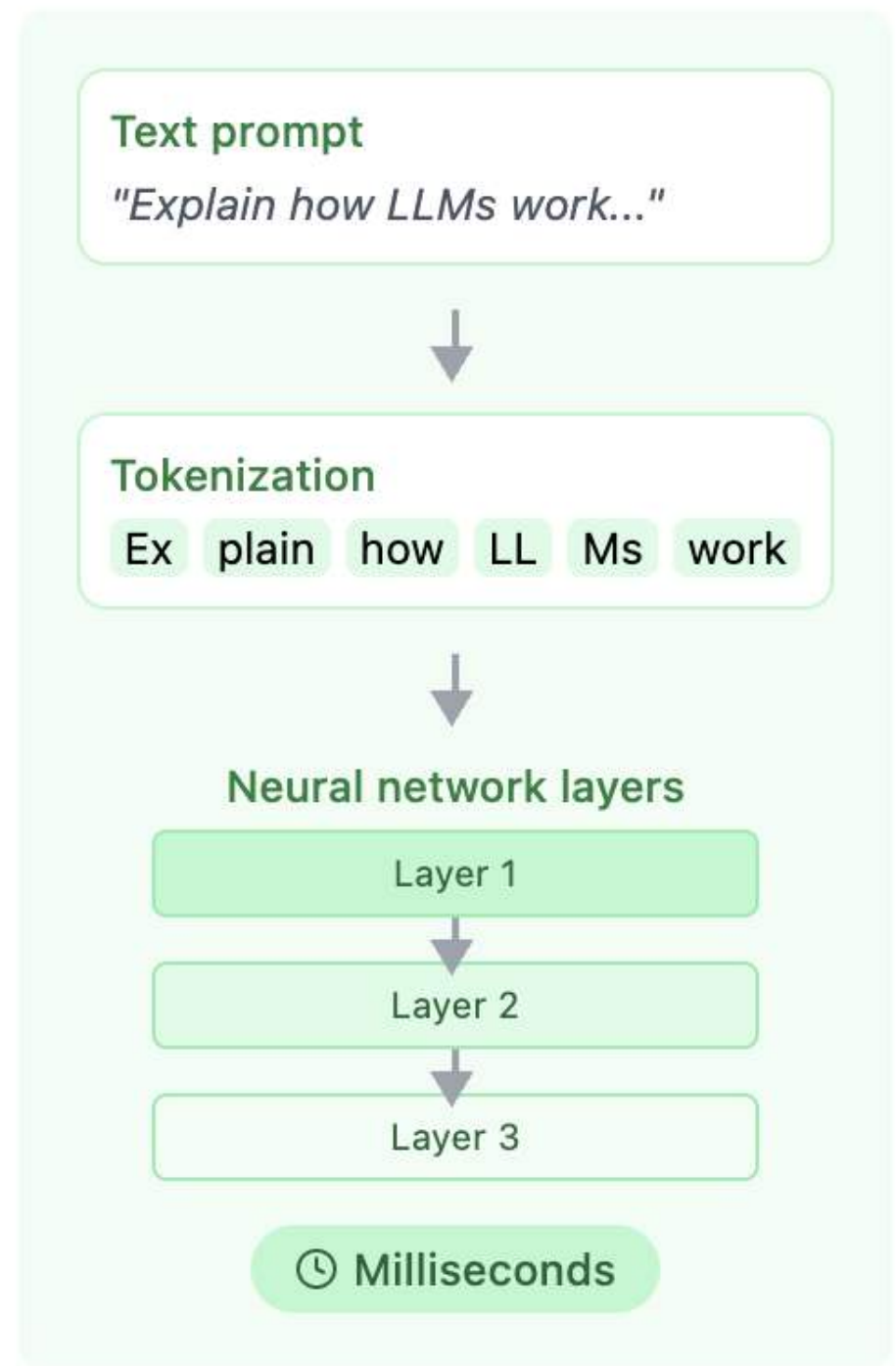
(When you hit "Send")

Your text → Broken into TOKENS
→ Processed through layers

Each layer adds understanding:

- Syntax (Is this a question?)
- Semantics (What is this about?)
- Context (What's the appropriate response?)

⚡ Happens in milliseconds



Stage 3: Generation

(The response you see)

Predicts most likely next word

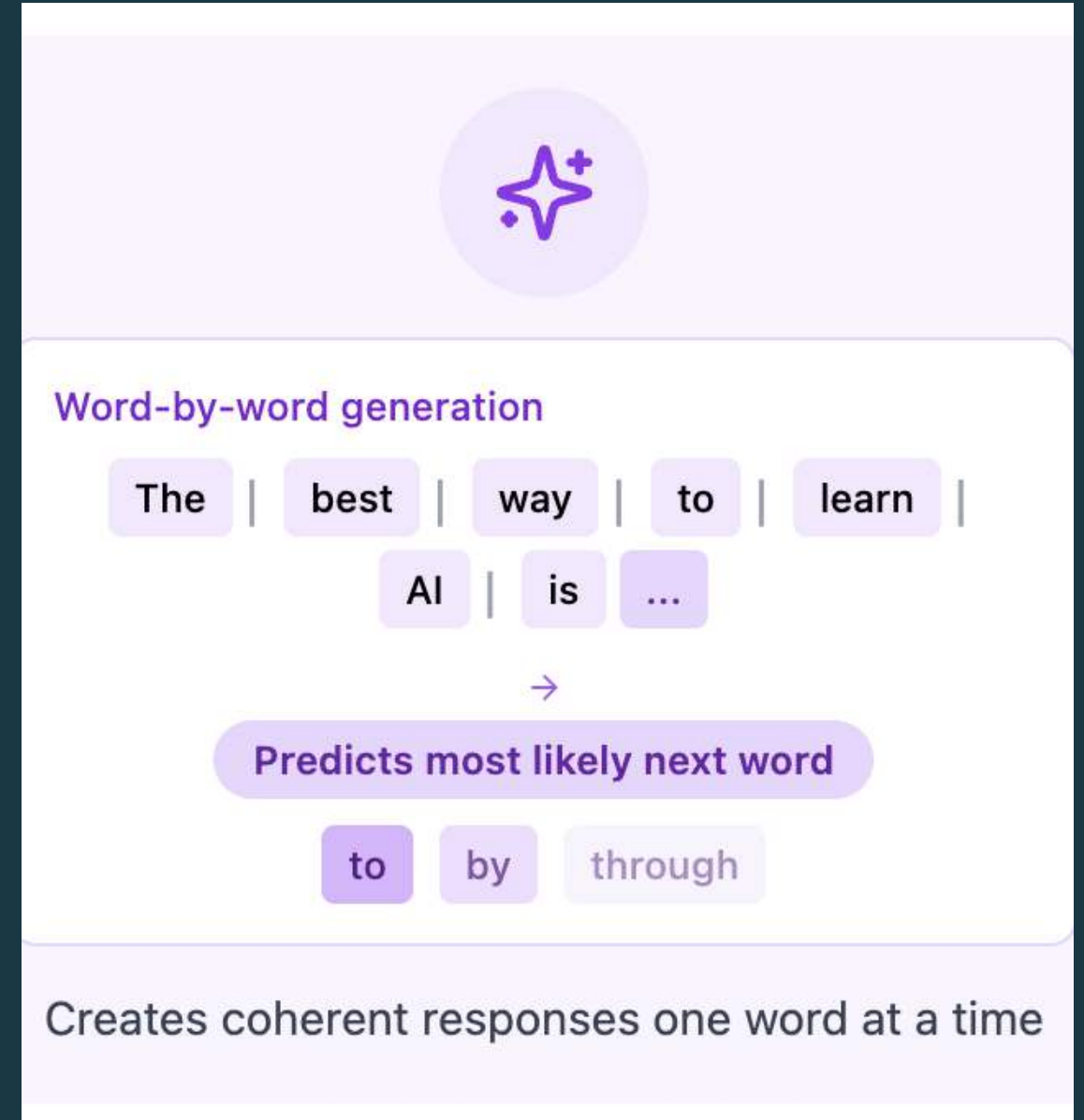


Repeats thousands of times



Complete response

- **NOT** retrieving stored answers
- **CREATING** fresh text every time



Why Hallucinations Happen

Predicts "Likely" Text, Not "True" Text

User asks: "The capital of France is..."

 Paris 95% likely

User asks: "The lost city of Atlantis was discovered in..."

 the Mediterranean Sea in 1985 75% likely

LLMs generate text based on **statistical patterns** in their training data, not based on what's factually correct. They predict what words are likely to come next in a sequence.

No Real-Time Fact-Checking Mechanism





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How to Get What You Want from an AI

With simple text files, written in natural language, you can create powerful tools for your education system

Writing Clear Instructions

Prompt Engineering

The Difference: Vague vs. Specific

Vague Prompt (A Wish): Write about the Great Karoo.

→ Leads to generic, unpredictable results.

Specific Prompt (An Instruction): Act as a geographer writing for a Grade 8 textbook. Describe the key geological features of the Great Karoo in a 150-word paragraph. Focus on its sediment layers and fossil record.

→ Leads to targeted, useful content.

The Anatomy of an Effective Prompt (CRAFT)

Context: The background information, the "why." (e.g., *This is for a chapter on South African biomes.*)

Role: Who the AI should be. (Act as...)

Action: What the AI should do; the verb. (Write, summarise, create, explain, list...)

Format: The desired structure of the output. (in a table, as bullet points, as a 300-word paragraph...)

Tone: The style of the output and the rules to follow. (Use a formal tone, write for a Grade 6 reading level, avoid jargon, do not mention...)

Context Engineering

Making AI Relevant for your Education System

Key Principles



LOCAL CONTEXT AND DATASETS

Incorporate local curriculum documents, teaching plans, and assessment guidelines to make AI systems contextually relevant to specific educational environments.



TEMPLATES FOR AI GUIDANCE

Create example templates that show AI what "good" looks like in your specific context, providing clear models of desired outputs and quality standards.



WORKFLOWS AND TOOL USE

Develop step-by-step processes that integrate AI tools into existing educational workflows, creating clear pathways for implementation and use.



These strategies help bridge the gap between generic AI capabilities and specific educational contexts.

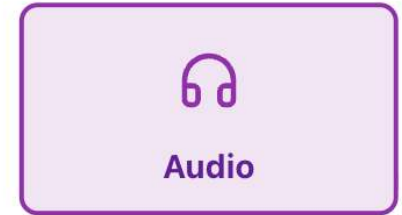
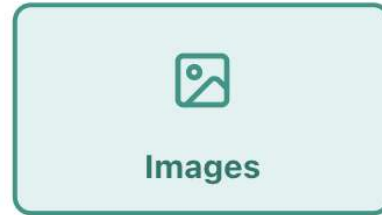
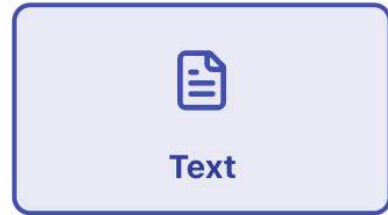


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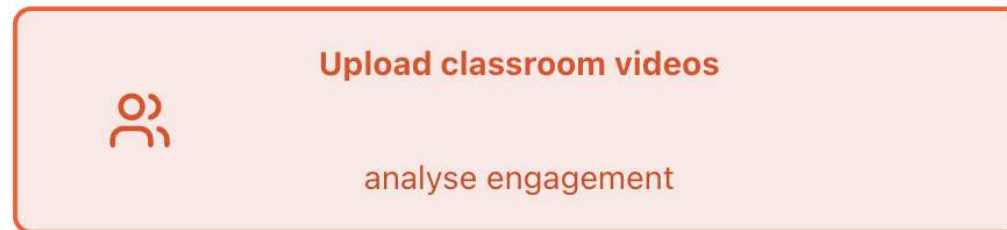
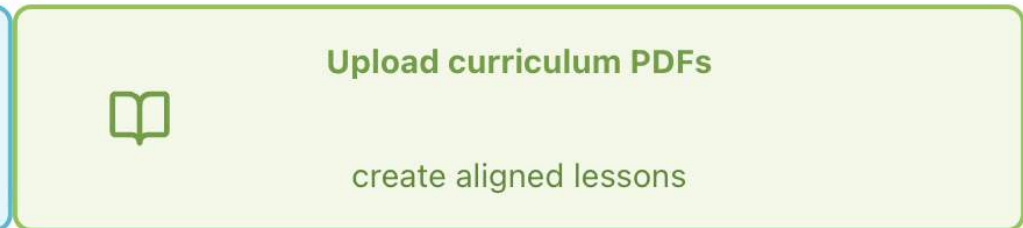
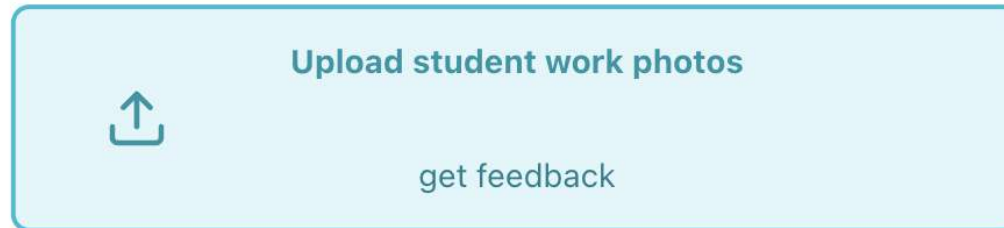
What's New in AI?

Recent advances that matter for education

Multimodal Models



What This Means For You



Reasoning



Better at complex problem-solving



Break down multi-step problems



Check their own work

Benefits of Reasoning Models

More reliable results and transparent reasoning process

Agentic AI



**Can work autonomously
toward goals**



**Search the web for current
info**



Use multiple tools



**Complete complex tasks
independently**

What This Means for YOU

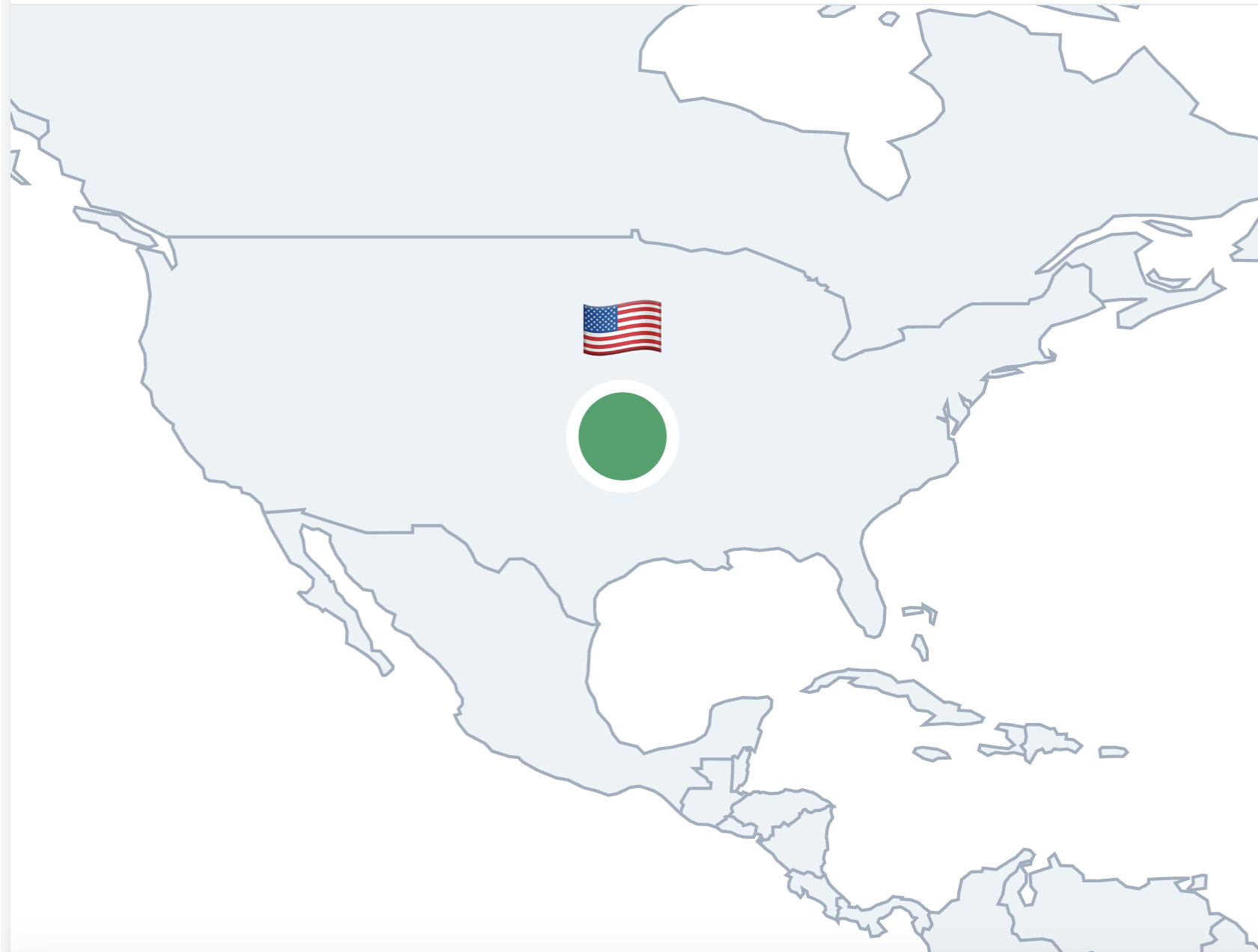


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AI in Education Globally



Whistle stop tour on what's happening around the world



United States

AI Education Initiatives:

State-level guidance

TeachAI initiative

Gemini K-12 tools

- NETP has AI focus
- President directed Ai curriculum developed
- Vibrant NGO sector, e.g. KhanMigo
- AI companies partnering with teacher unions for PD

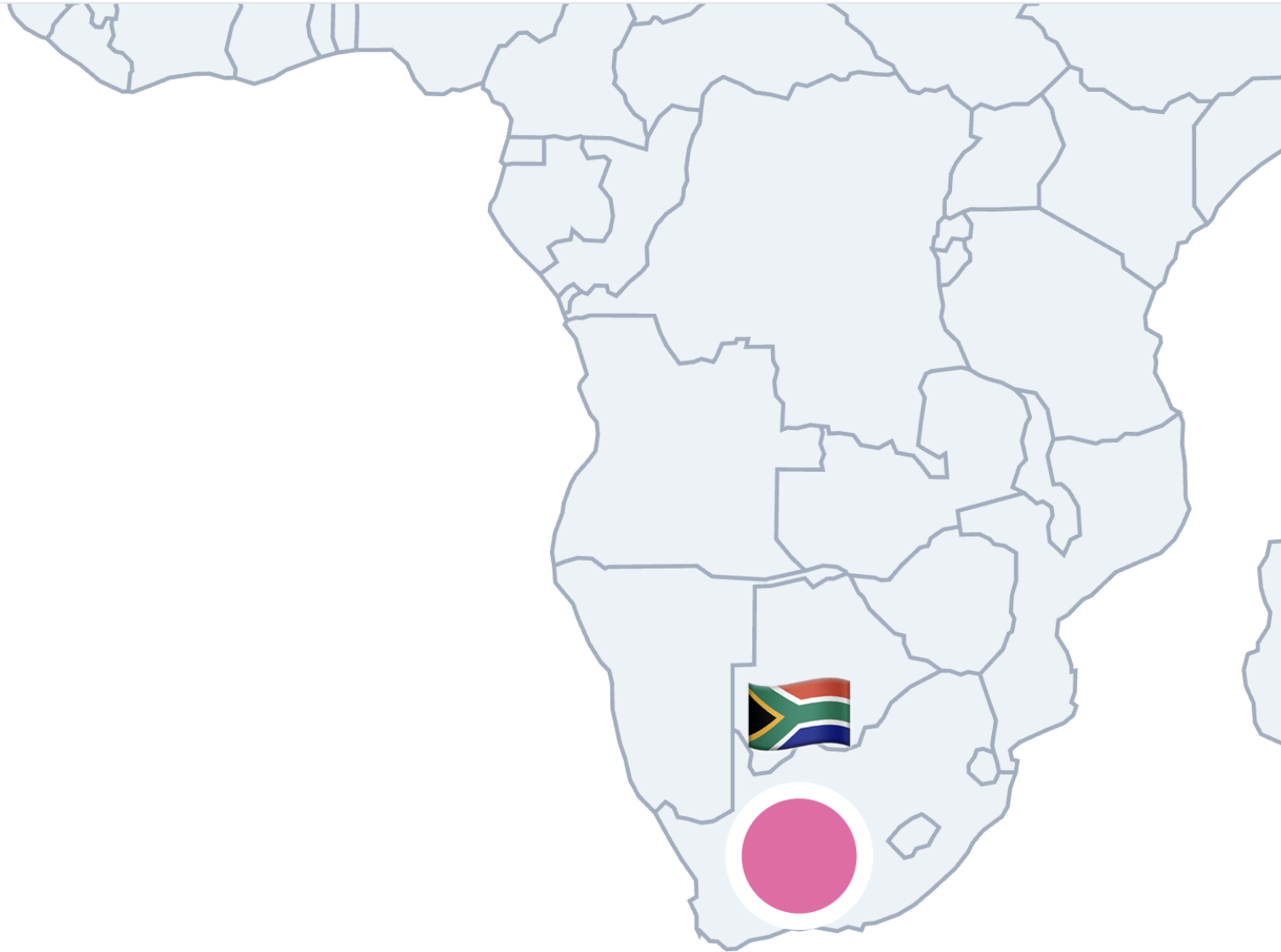


Brazil

AI Education Initiatives:

AI for teacher professional development

Personalised coaching at scale in public schools



South Africa

AI Education Initiatives:

WhatsApp chatbots for teacher support

Local language models and datasets

- G20 Education Forum: teachers who don't adopt AI will be left behind
- AIED startup scene – Mindjoy and Snapplify BookBuddy



European Union

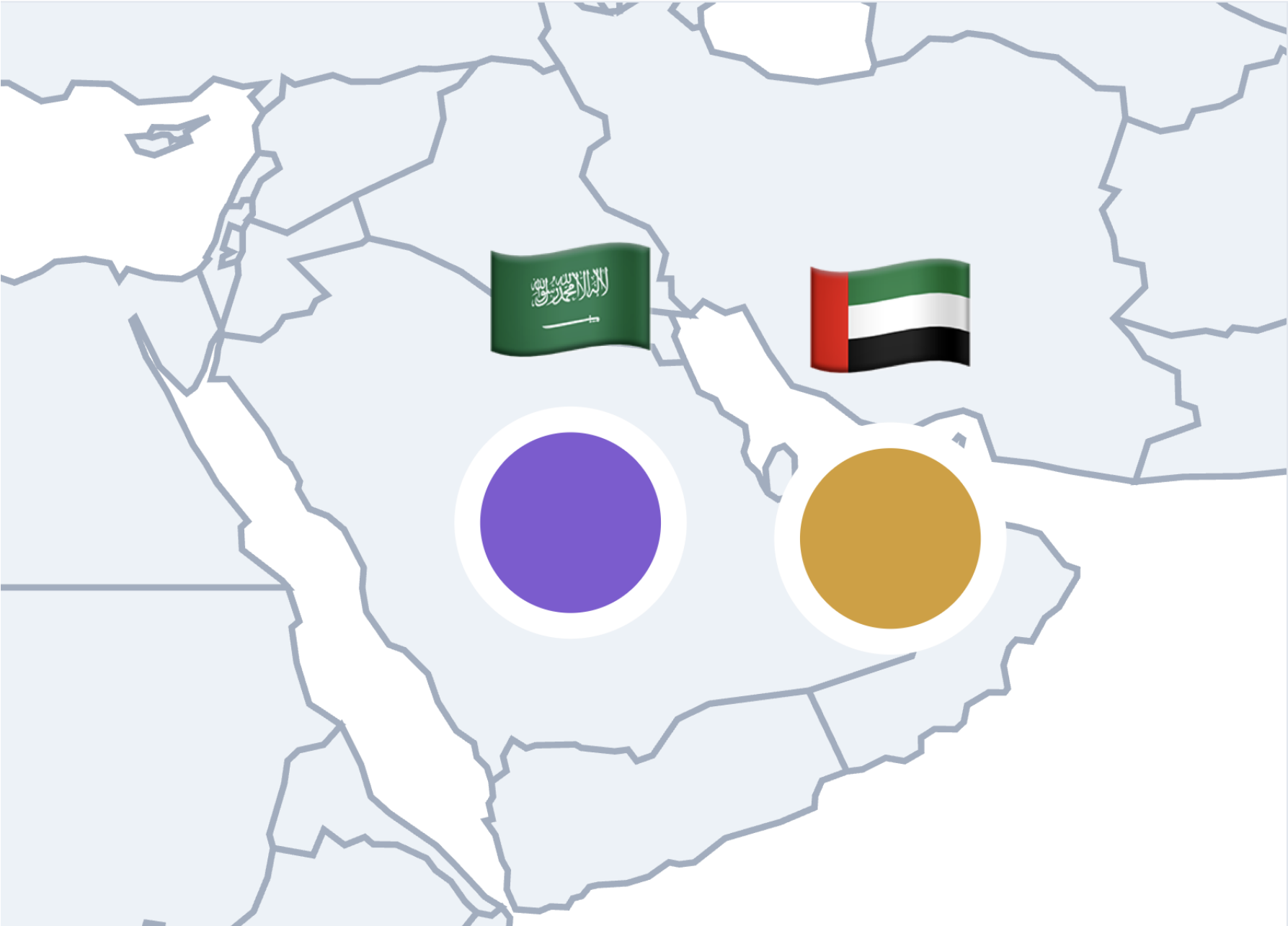
AI Education Initiatives:

Digital Education Action Plan

Coordinated guidelines across member states

Implementation of the EU AI Act

- **AI and Ethics**



Saudi Arabia

AI Education Initiatives:

Humain

AI curriculum

NeLC Framework for Artificial
Intelligence in Digital Learning



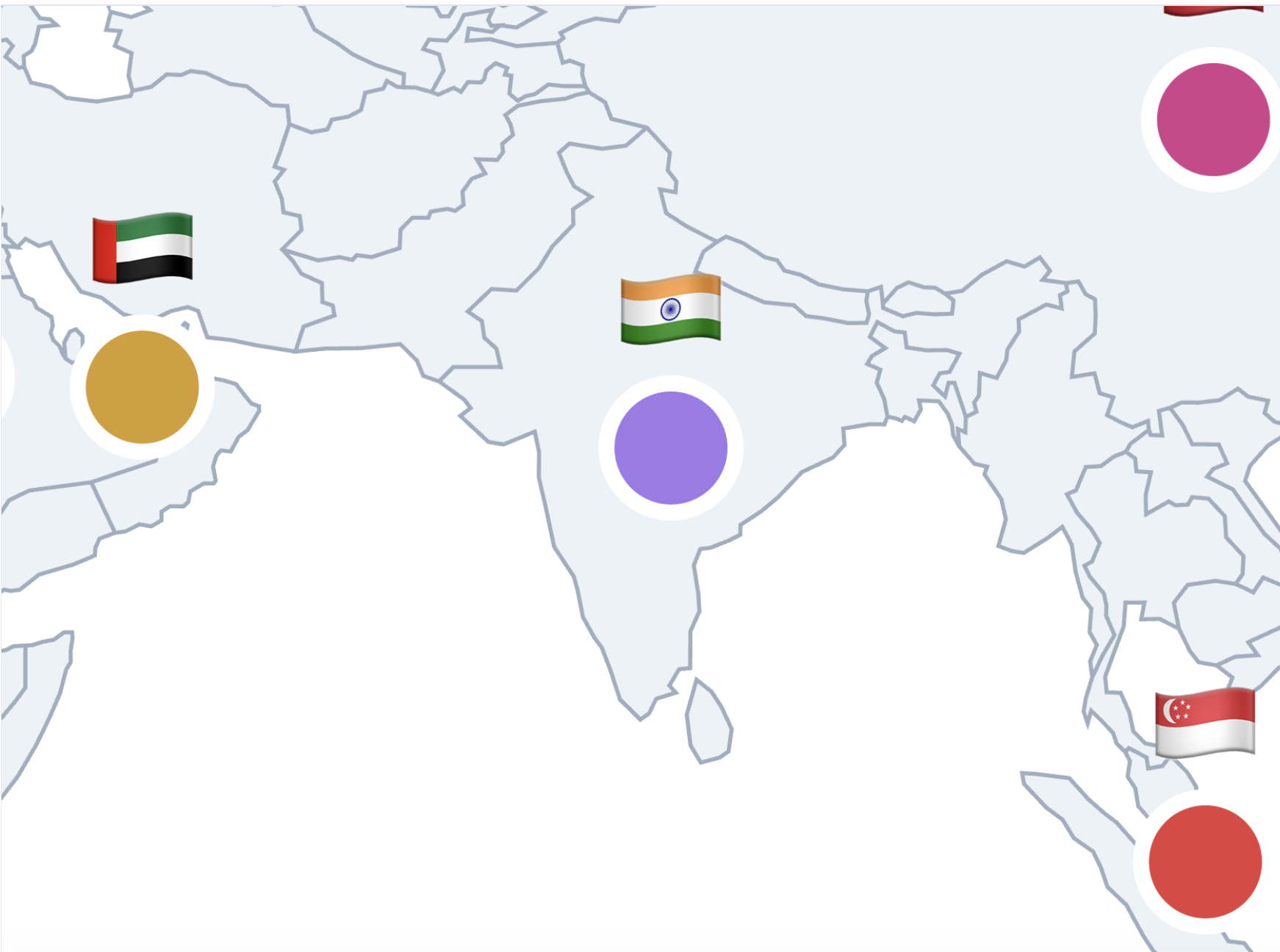
 UAE

AI Education Initiatives:

AI integrated into national curriculum framework

Falcon open-source models

- Existing edtech and AIED startup scene
- Strong desire for UAE to be seen leading in AI in the region
- AI University



 **India**

AI Education Initiatives:

AI for regional language support across dozens of languages

Low-cost ChatGPT access

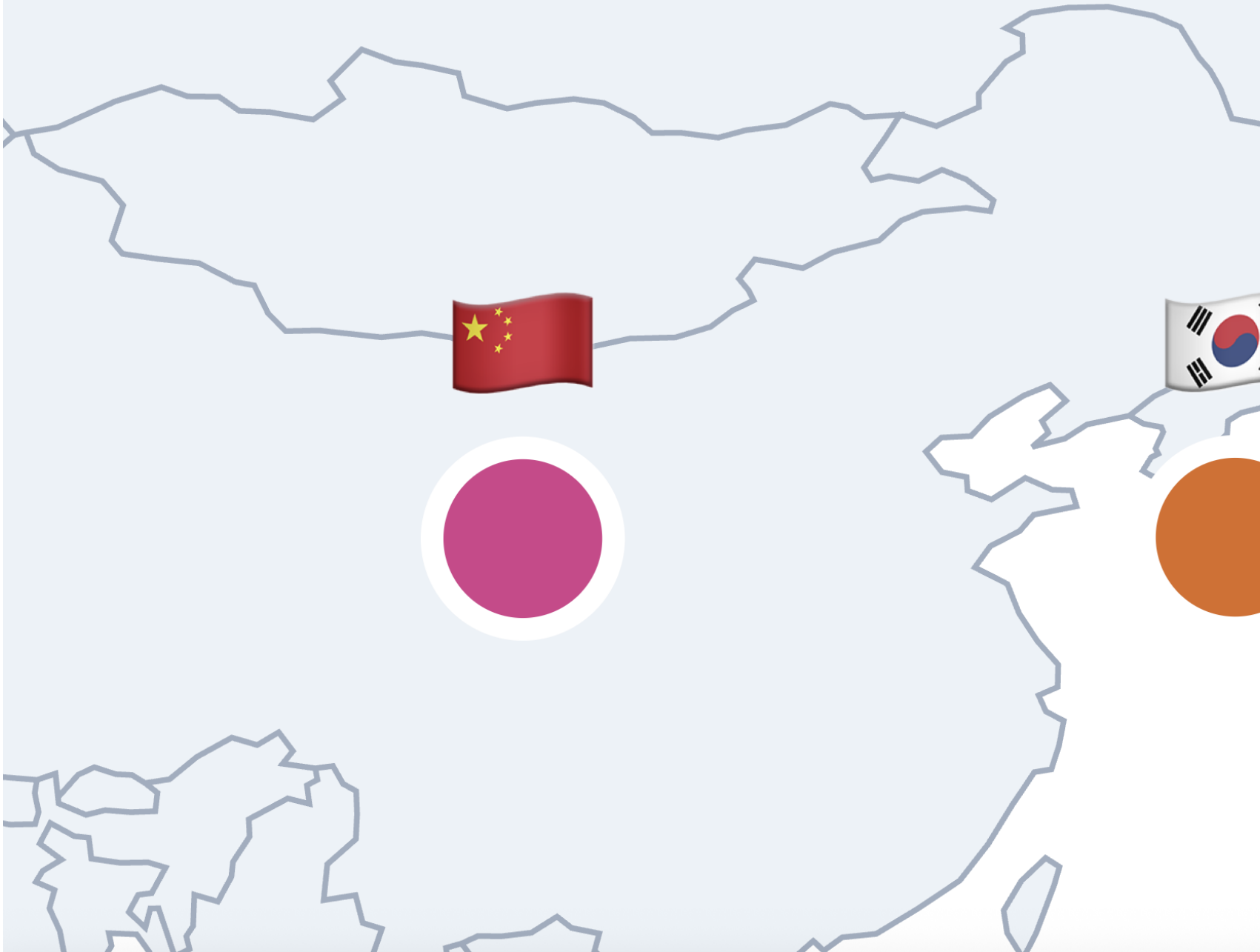


 Singapore

AI Education Initiatives:

National AI Strategy

AI literacy curriculum



China

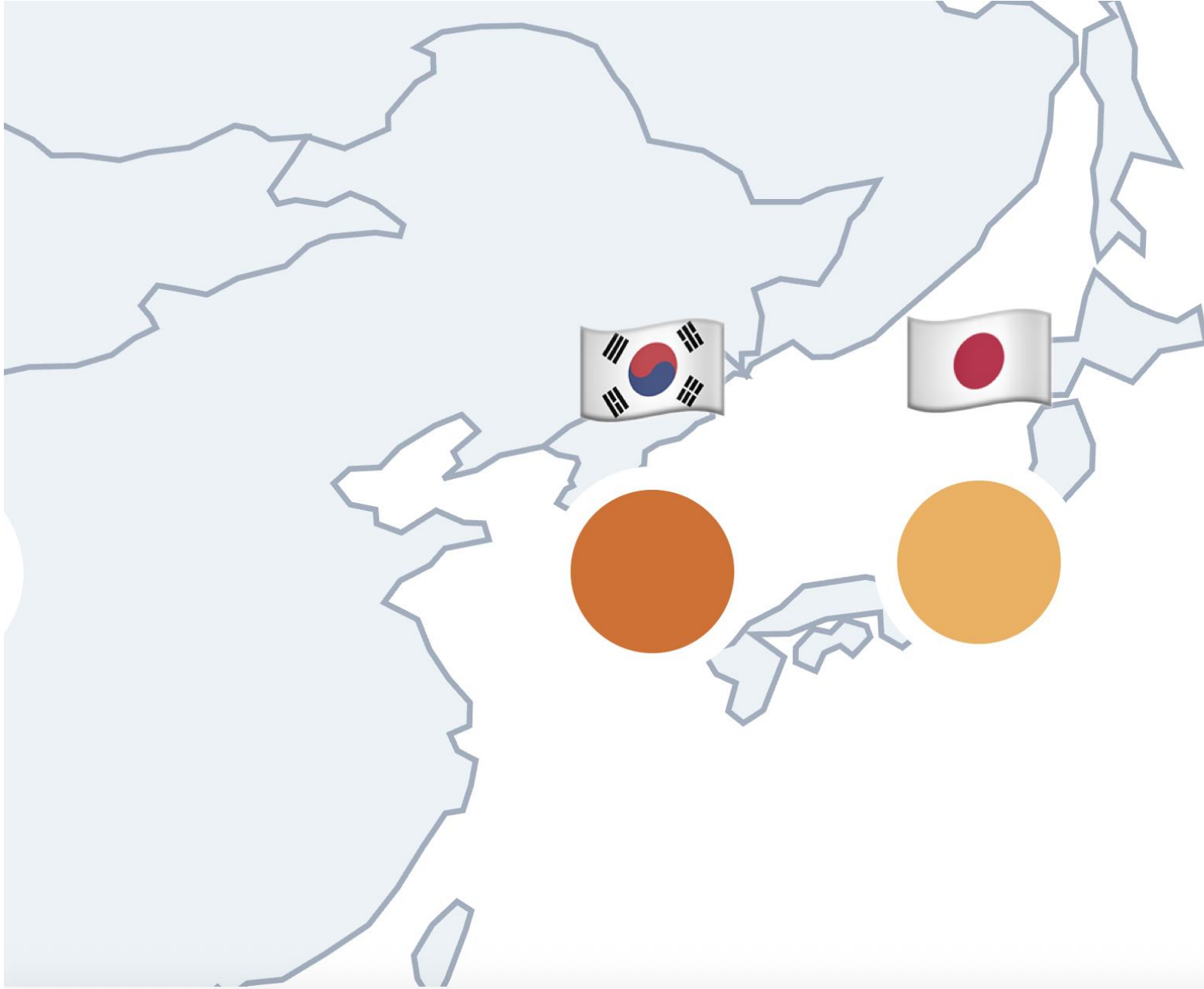
AI Education Initiatives:

DeepSeek

Qwen (open-source models)

AI K12 Curriculum

- Leading centre of AI research
- Strong government support to integrate AI across the economy
- Building a complete AI hardware and software ecosystem

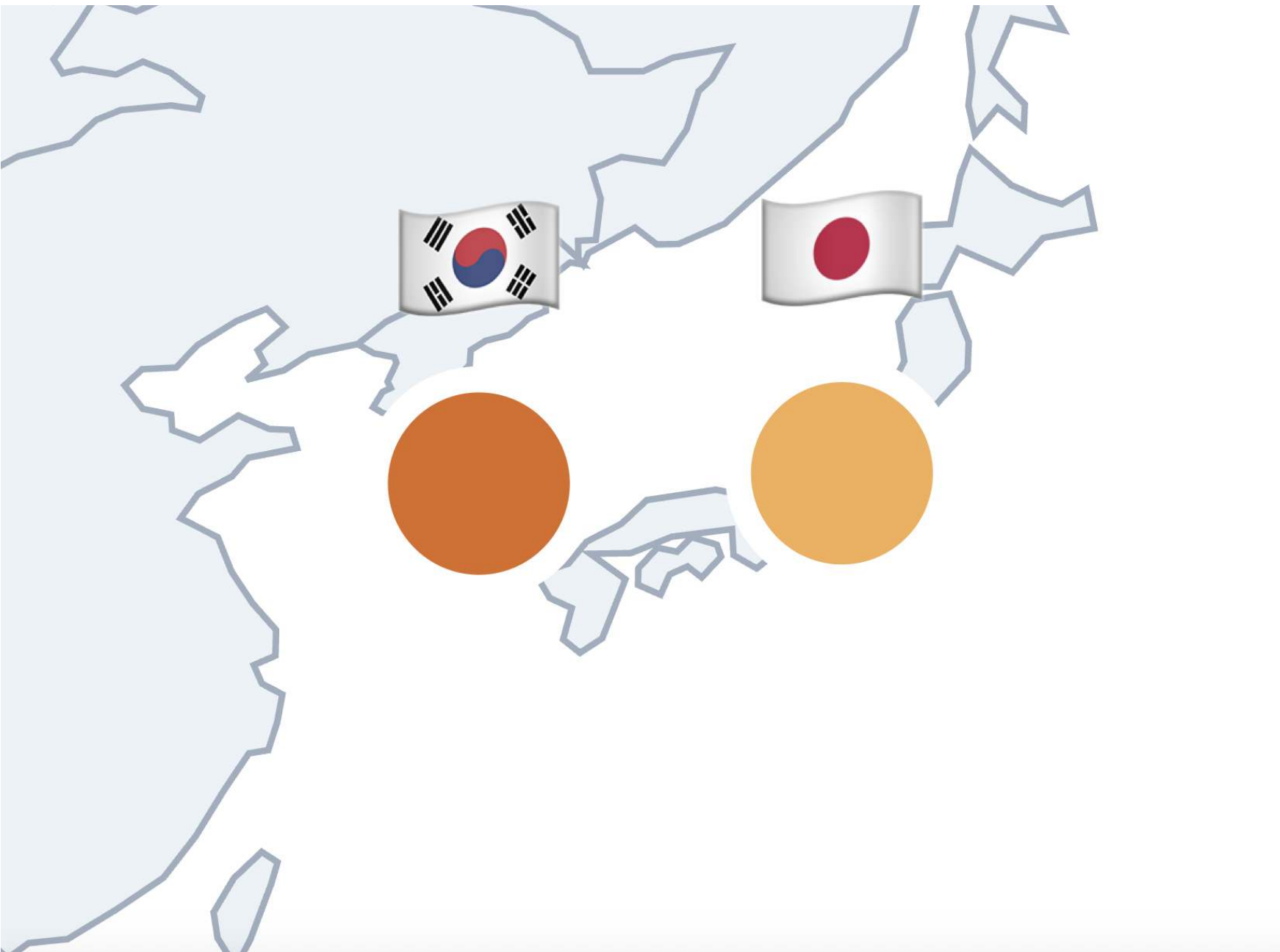


 South Korea

AI Education Initiatives:

AI-powered digital textbooks nationwide

Capacity-building



 Japan

AI Education Initiatives:

Nationwide AI literacy curriculum



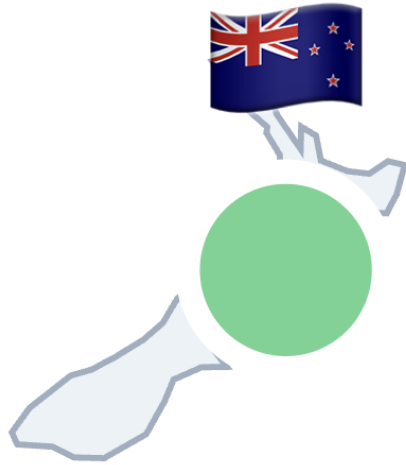
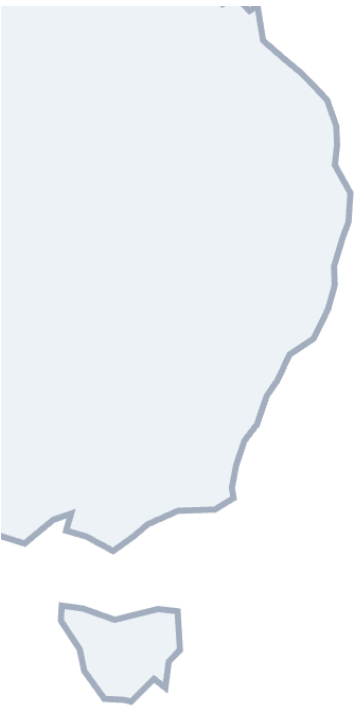
Australia

AI Education Initiatives:

National framework for ethical AI use

Local curriculum chatbots

- AI being used to support equity aims, providing quality education to rural schools



New Zealand

AI Education Initiatives:

AI Ethics in Schools program

Focus on critical thinking about AI applications

- Maori language and culture contextualised in AI system

Common Themes Across All Education Systems

1

TEACHER PD
FIRST: Professional development before student tools

2

DATA PRIVACY :
Student data protection is non-negotiable

3

LOCAL RELEVANCE :
Culturally adapted solutions - one size does NOT fit all

4

INFRASTRUCTURE MATTERS:
Solutions must match connectivity reality



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Available AI Tools

Free and accessible options

Tools for Educators: General Purpose LLMs

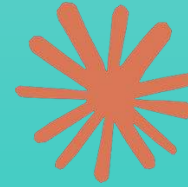
01



ChatGPT (OpenAI):
Free tier available,
good for general
tasks

Study

02



Claude (Anthropic):
Free tier, strong at
reasoning and
document analysis

Learning

03



Gemini (Google):
Free tier, Google
Workspace, can
create shareable
GEMS

LearnLM

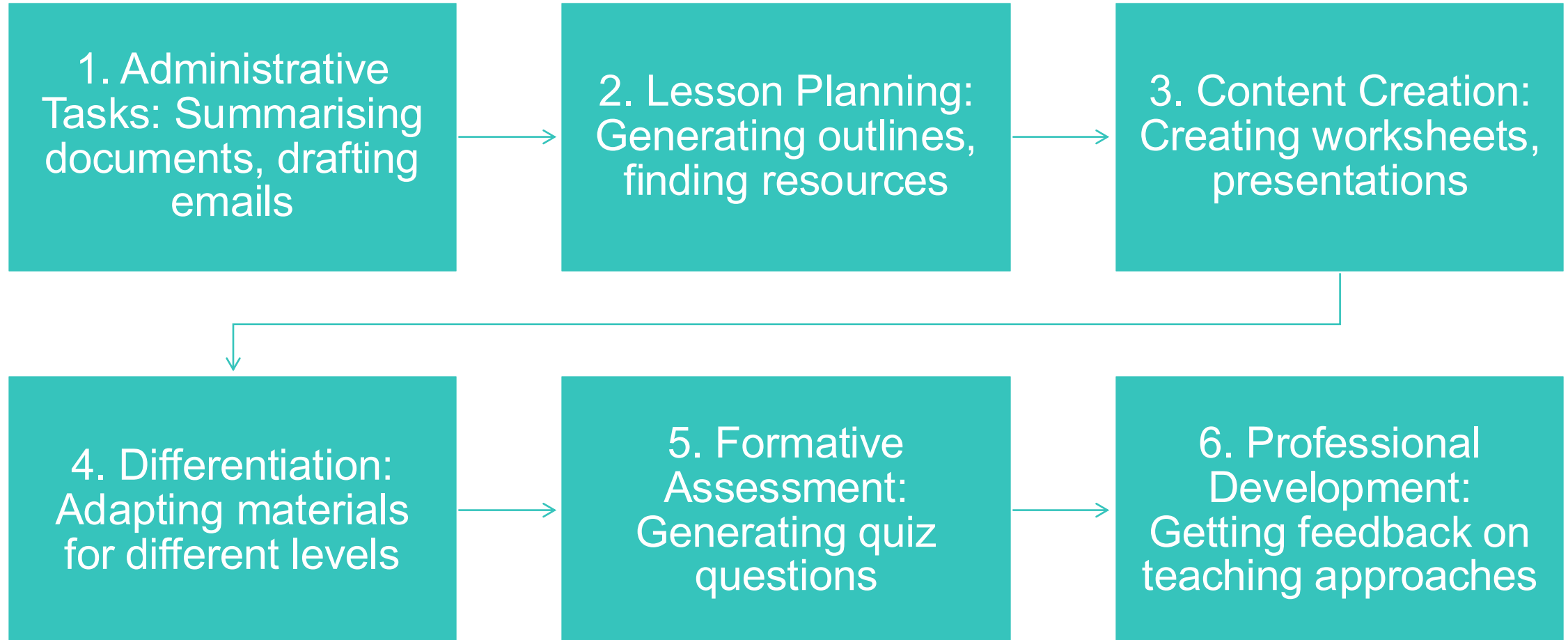
Which AI to Use?

- If you have good prompts, good context engineering, an understanding of workflows required and templates to show AI what to do you can get good results from any commercial or open-source AI system
- Tool choice should be based off own requirements, available support and constraints

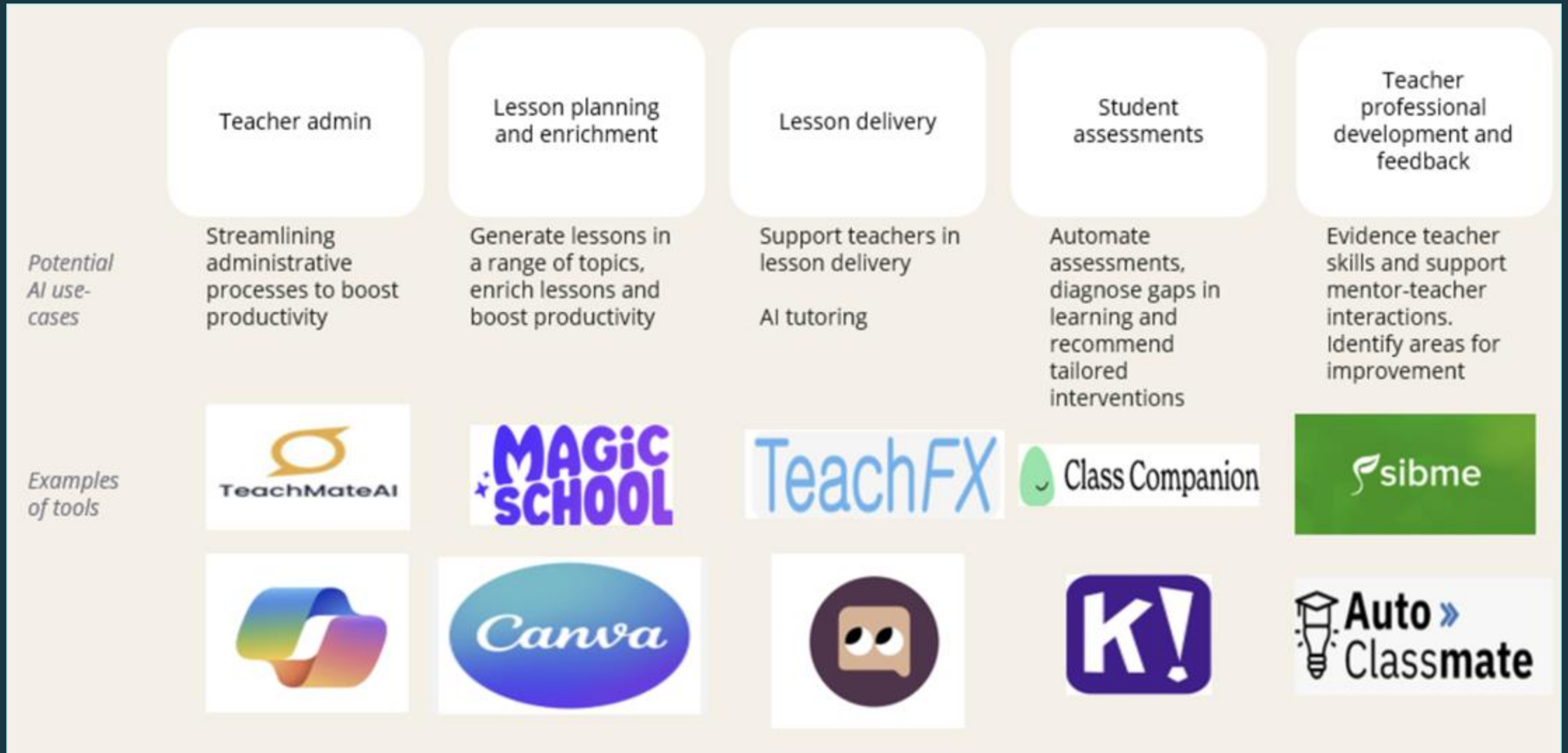


Is becoming a commodity

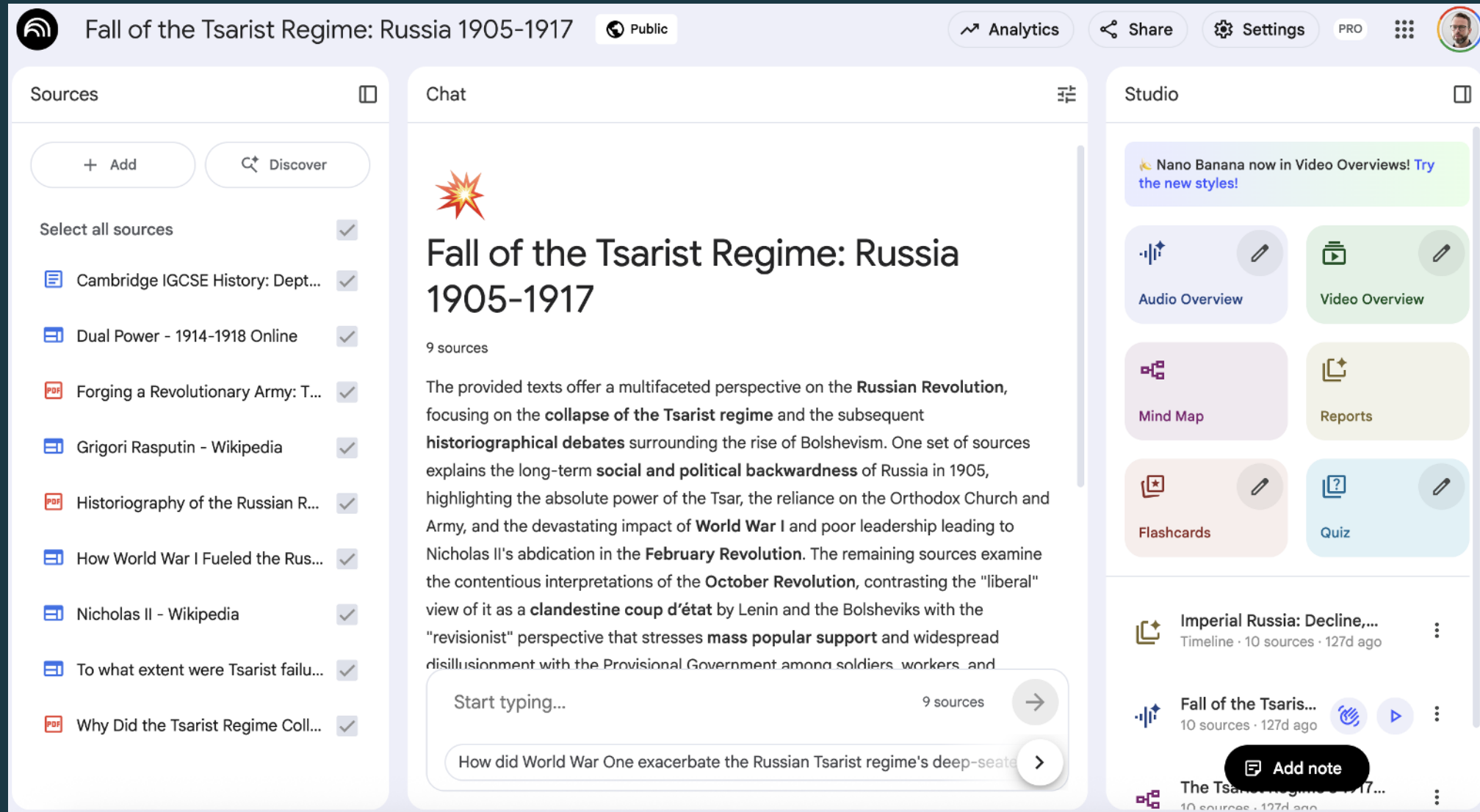
Simple Use Cases for Education



Examples of AIED Apps responding to these use cases



Google's NotebookLM – One AIED tool to test



The screenshot displays the Google NotebookLM interface. At the top, the notebook title is "Fall of the Tsarist Regime: Russia 1905-1917", with a "Public" status indicator. Navigation buttons for "Analytics", "Share", "Settings", and a "PRO" badge are visible. A user profile icon is in the top right corner.

The interface is divided into three main panels:

- Sources:** A list of sources used for the notebook, each with a checkbox to select it. The sources include:
 - Cambridge IGCSE History: Dept...
 - Dual Power - 1914-1918 Online
 - Forging a Revolutionary Army: T...
 - Grigori Rasputin - Wikipedia
 - Historiography of the Russian R...
 - How World War I Fueled the Rus...
 - Nicholas II - Wikipedia
 - To what extent were Tsarist failu...
 - Why Did the Tsarist Regime Coll...
- Chat:** The central area for interacting with the AI. It features a star icon and the title "Fall of the Tsarist Regime: Russia 1905-1917". Below the title, it states "9 sources". The chat text reads: "The provided texts offer a multifaceted perspective on the **Russian Revolution**, focusing on the **collapse of the Tsarist regime** and the subsequent **historiographical debates** surrounding the rise of Bolshevism. One set of sources explains the long-term **social and political backwardness** of Russia in 1905, highlighting the absolute power of the Tsar, the reliance on the Orthodox Church and Army, and the devastating impact of **World War I** and poor leadership leading to Nicholas II's abdication in the **February Revolution**. The remaining sources examine the contentious interpretations of the **October Revolution**, contrasting the "liberal" view of it as a **clandestine coup d'état** by Lenin and the Bolsheviks with the "revisionist" perspective that stresses **mass popular support** and widespread disillusionment with the Provisional Government among soldiers, workers, and...". At the bottom, there is a text input field with the placeholder "Start typing..." and a "9 sources" indicator.
- Studio:** The right-hand panel for creating and managing content. It includes a notification: "Nano Banana now in Video Overviews! Try the new styles!". Below this are buttons for "Audio Overview", "Video Overview", "Mind Map", "Reports", "Flashcards", and "Quiz". At the bottom, there is a list of generated notes, including "Imperial Russia: Decline,..." and "Fall of the Tsaris...", each with a play button and a "Add note" button.

Custom Solutions for Your Education System



RAG-Based Chatbots

Retrieval-Augmented Generation with
curriculum documents



WhatsApp Integration

For low-infrastructure contexts



Open-Source Models

For data sovereignty



Locally Hosted Options

For privacy and control



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Critical Considerations

Making informed decisions

Questions for Policy Makers



Student use: When and how can students use AI tools?



Teacher PD: What training is needed?



Data privacy: Where is data stored? Who has access?



Tool vetting: How do we evaluate AI tools?



Equity: How do we ensure equal access?



Assessment design: How do we assess in an AI-enabled world?

Regional Challenges to Address

LANGUAGE MARGINALIZATION

AI works best in English, with limited support for smaller languages, creating barriers for non-English speakers.

CULTURAL/CONTEXTUAL BARRIERS

AI systems often reflect Western cultural biases and may misunderstand or misrepresent local cultural contexts.

CURRICULUM CHALLENGES

AI educational tools may not align with local curriculum standards or educational priorities of different regions.

DATA SOVEREIGNTY CONCERNS

Questions about who owns, controls, and has access to educational data processed by AI systems across borders.

INFRASTRUCTURE GAPS

Unequal access to reliable internet, devices, and technical support needed to implement AI educational tools.

Infrastructure Reality

Connectivity



High Connectivity

- Cloud-based tools
- Real-time collaboration
- API integrations
- Full model capabilities
- Continuous updates



Low Connectivity

- Downloadable models
- Offline-first design
- SMS/WhatsApp integration
- Sync when available
- Reduced model size



No Connectivity

- Offline AI models
- On-device processing
- Pre-generated libraries
- Limited capabilities
- No external data access



Pricing Considerations

- Free tier options with usage limits
- Premium features require subscription
- On-device models may have one-time cost vs. subscription

Open-Source LMs (and on device)

Open-Source Infrastructure for National Education Systems



CHALLENGE: Commercial AI subscriptions cost
\$16-20/user/month



SOLUTION: Open-source, nationally-hosted AI
infrastructure

COMPONENTS



Authorization System



AI Gateway

Application Layer

BENEFITS



Lower Cost



Data Sovereignty



No Vendor Lock-in

Ethics of AIED

Key Ethical Concerns



BIAS AND FAIRNESS

AI trained on Western data may not reflect local contexts and can reinforce existing biases.



PRIVACY

Student data protection is paramount. Educational AI must safeguard sensitive information.



TRANSPARENCY

Understanding how AI makes decisions is essential for trust and responsible use in education.



CULTURAL RELEVANCE

AI must respect local values and knowledge systems to be effective across diverse cultural contexts.

EU AI Act Risk Tiers

- **Unacceptable risk** - Prohibited. Things like social scoring.
- **High risk** - Strict requirements. AI used for student assessment would be here.
- **Limited risk** - Transparency obligations. Users need to know they're interacting with AI.
- **Minimal risk** - No specific obligations.



Capacity Building

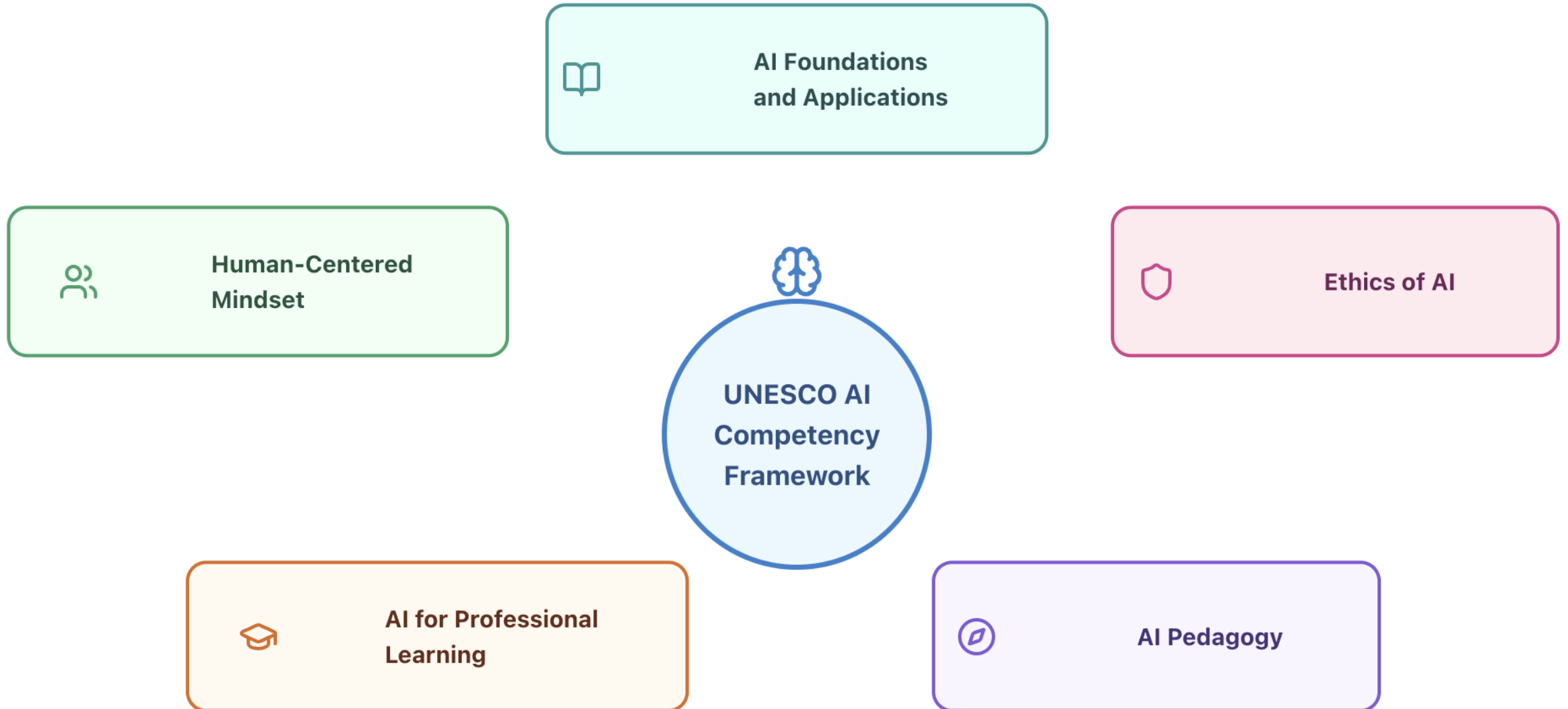


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UNESCO AI Competency Framework

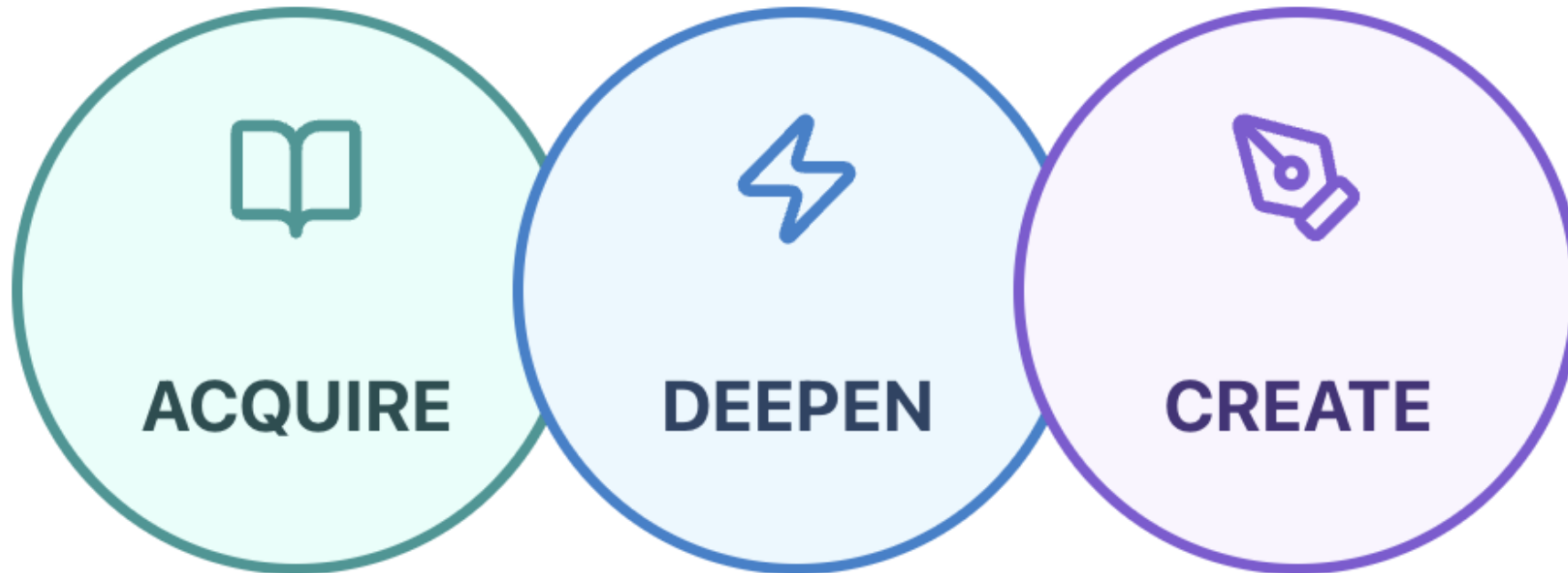
Structured approach for building capacity

UNESCO AI Competency Framework: 5 Core Dimensions



Progression Levels

See also EU
OECD AI Lit
Framework



*A framework for progressive
skill development and mastery*

Protecting Your Education System from Pedagogic ‘Flattening’

Sovereign Pedagogy



**EDUCATION THAT REFLECTS AND EMPOWERS LOCAL
CULTURE, LANGUAGE, AND KNOWLEDGE SYSTEMS**



WHY IT MATTERS

Generic AI may marginalize local languages, impose foreign frameworks, and undermine indigenous knowledge systems, leading to cultural erosion.



HOW TO ACHIEVE IT

AI for Multilingual Education

Research on African Language support

What We Learned:

ChatGPT 4o: 4.1 out of 5

Claude Sonnet: 3.9 out of 5

Lelapa Inkubane : 3.75/5

Gemini Flash: 2.5/5

DeepSeek: 1.5/5



Sawubona! 



PART 2: Demonstrations

What is possible using simple text files to
'program' these systems

Time: 15:45 - 16:05

Demo 1: Text-file AI Tutor

Gemini

2.5 Flash ▼

 Invite a friend

PRO



Low
Resource

Student

Context

Hello, Niall

Ask Gemini



 Tools



 Create Image

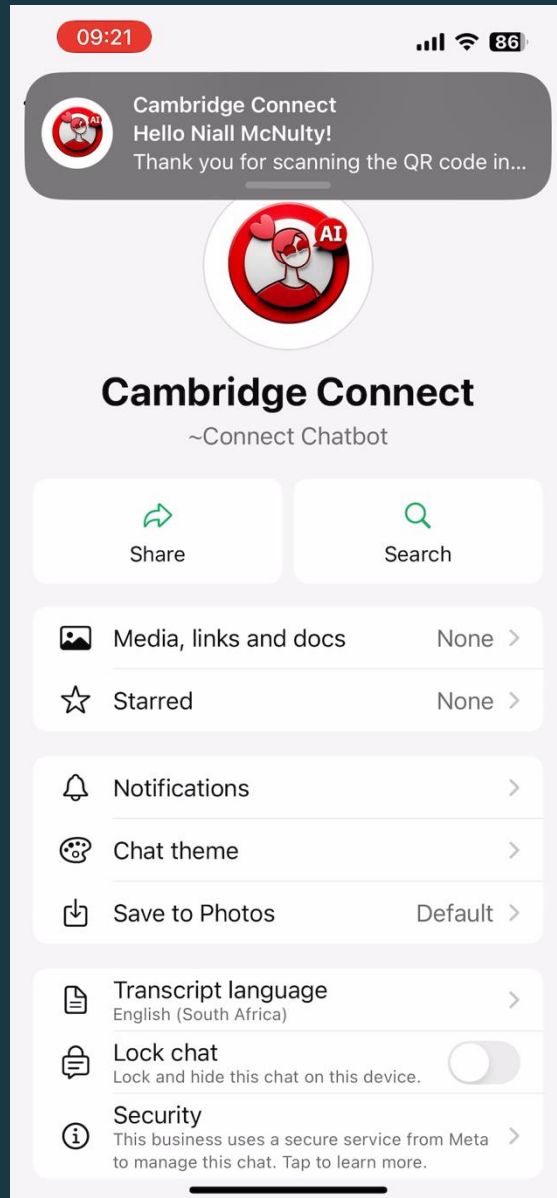
Write

Build

Deep Research

Create video

Learn



Demo 2: WhatsApp Chatbot for Teachers

- Knowledge source is CAPS curriculum docs, annual teaching plan and Cambridge textbooks
- Template for lesson plan provided
- AI is activated behind the scenes using open-source n8n workflow

Context

Low
Resource

Teacher

Demo 3: Building an Educator Context File

Template

Teacher

Gemini

2.5 Flash ▾

 Invite a friend

PRO



Hello, Niall

Use the `educator\_interview\_script.md` file to ask the questions one by one, waiting for responses between each question. After all questions are answered, use the responses to fill in the `educator\_context\_template.md` file and generate a completed Educator Context File. 

+  Tools



Demo 4: Creating a Lesson Planner for Local Curriculum

← All projects

Lesson Planner

Automated lesson planner

How can I help you today?

+ ↺ ⌚ Sonnet 4.5 ↗

Fifth grade curriculum planning
Last message 23 seconds ago

Sixth grade academic schedule
Last message 4 hours ago

Grade 4 English language learning
Last message 13 hours ago

Instructions

CAPS English FAL Intermediate Phase - Automated Lesson Planner ## Project Overvie...

Files

5% of project capacity used • Retrieving

CAPS IP FAL ENGLISH GR 4-6 WEB.pdf
10,614 lines
PDF

evaluation
121 lines
TEXT

template
275 lines
TEXT


PDF

Agentic

Template

Context

Teacher

Demo 5: Formative Assessment Assistant

Agentic

Template

Tools

Advisor

← All projects

Formative Assessment Generator

Create formative assessment

How can I help you today?

+ ⚙️ ⌚ Sonnet 4.5 ↗

Fifth grade English learning
Last message 3 hours ago

Grade 5 Math MCQ Assessment
Last message 1 month ago

Grade 4 Math MCQ Assessment
Last message 1 month ago

Grade 5 Math Assessment
Last message 1 month ago

Instructions

Overview You are an AI assistant specialised in creating detailed, curriculum-aligned formative...

Files

3% of project capacity used

Assessment_Best_Practices.md 787 lines MD	Differentiation_Strategies.md 620 lines MD
Rubric_Design_Templates.md 407 lines MD	SA_Context_Examples.md 351 lines MD
Common_Misconceptions_Database.md 402 lines MD	Blooms_Taxonomy_Guide.md 436 lines MD

/chat/34735079-d7f9-427a-92dd-b44437e756cb

Now It's Your Turn



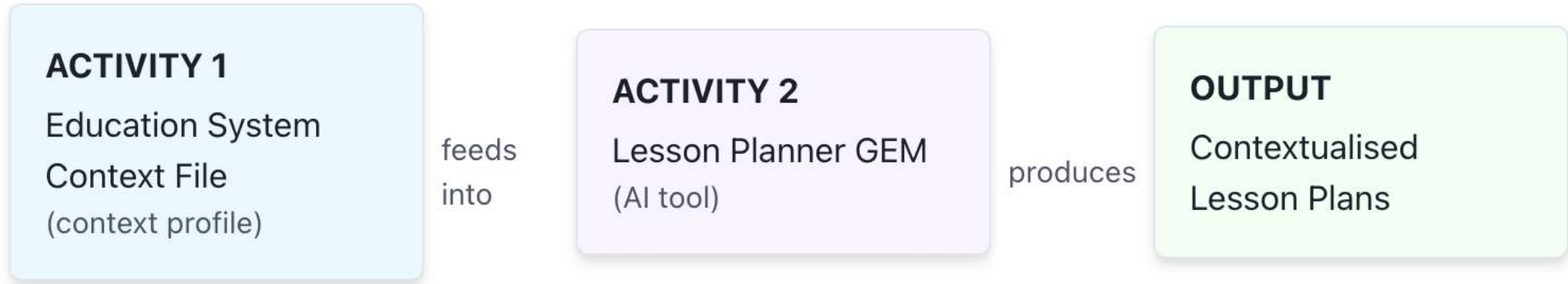
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PART 3: Hands-On Practice

Building your AI toolkit

Time: 10:00 - 10:45

Why these two activities?



Activity 1: Create Your Education System Context File

15 minutes

YOUR TASK:

Open the Education System Context File template (make a copy)

Fill in YOUR teaching and education system context

Save as a text or markdown file



Individual

Education System Context File - Example Snippet

My Teaching Context

Role & School

I am a Grade 7 Science teacher at Moi Secondary School in Kisumu, Kenya. I teach 3 classes with 50-60 students each in a semi-urban setting

Students

My students are ages 12-14. Most speak Dholuo or Swahili at home and are learning in English (their 3rd language).

About 30% have smartphones at home, but classroom access to devices is limited to a shared computer lab with 15 computers (booked weeks in advance).

Curriculum

I teach the Kenyan CBC (Competency-Based Curriculum) for Grade 7 Science, focusing on...

Activity 1: Now Use It, With Any Chatbot

15 minutes

[Paste your Education System Context File]

1. Given this context, suggest three strategies for improving mathematics learning outcomes that are practical and scalable.
2. Create a professional development plan for teachers to integrate technology that works within our infrastructure constraints.
3. Design a pilot program for using AI to support teachers that respects our data privacy requirements and works offline.
4. What low-cost, high-impact interventions would you recommend for improving literacy in our context?

Activity 1 - Share Out

From Context to Tool

Activity 2: Build a Lesson Planner GEM in Gemini

WHAT YOU'RE CREATING:

A custom AI lesson planning assistant that:

- Already knows YOUR teaching context
- Produces lessons for YOUR students
- Aligns to YOUR curriculum
- Respects YOUR constraints
- Can be shared with YOUR colleagues

YOUR TASK:

- Go to gemini.google.com
- Open Gem Manager → New Gem
- Name it & add instructions (template provide)
- UPLOAD your Education System Context File (you created)
- Upload curriculum docs (if you have any)
- Upload lesson plan template(template provide)
- Test it with a real lesson planning task



Pair

Gemini

2.5 Flash ▾

 Invite a friend

PRO



New Gem

Save

Give your Gem a name

Description

Describe your Gem and explain what it does

Instructions ⓘ

Example: You are a horticulturist with a background in natural lawns and native plants and you help people plan low-water gardens. Take into



Knowledge ⓘ

Add files for your Gem to reference



Preview



To preview your Gem, start by giving it a name

Ask Gemini



Activity 2 - Share Out

What else could we build?

- For **teachers**: You could build an **assessment designer** that creates quizzes aligned to your curriculum. Or a **differentiation assistant** that adapts materials for struggling learners. Or a **parent communication helper** that drafts report cards or updates in your school's style.
- For **school leaders**: You could build a **curriculum planning tool** that helps you map out the year. Or a **professional development resource generator**. Or a **data analysis helper** that interprets your school's performance data.
- For **district officials**: You could build tools for **teacher deployment**, resource planning, scaling professional development across your district, monitoring and evaluation.
- For **policymakers**: You could build a **policy analysis assistant** that reviews proposed policies against evidence. Or a **budget impact analyzer**.

Framework for Success



PROMPTS

Instructions matter

Clear, specific prompts lead to better outcomes.
Be precise about what you want.



CONTEXT

Specificity creates relevance

Provide relevant background information to frame the response appropriately.



WORKFLOW/TOOLS

Build once, use forever

Create reusable templates and processes to streamline your work.



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Key Takeaways

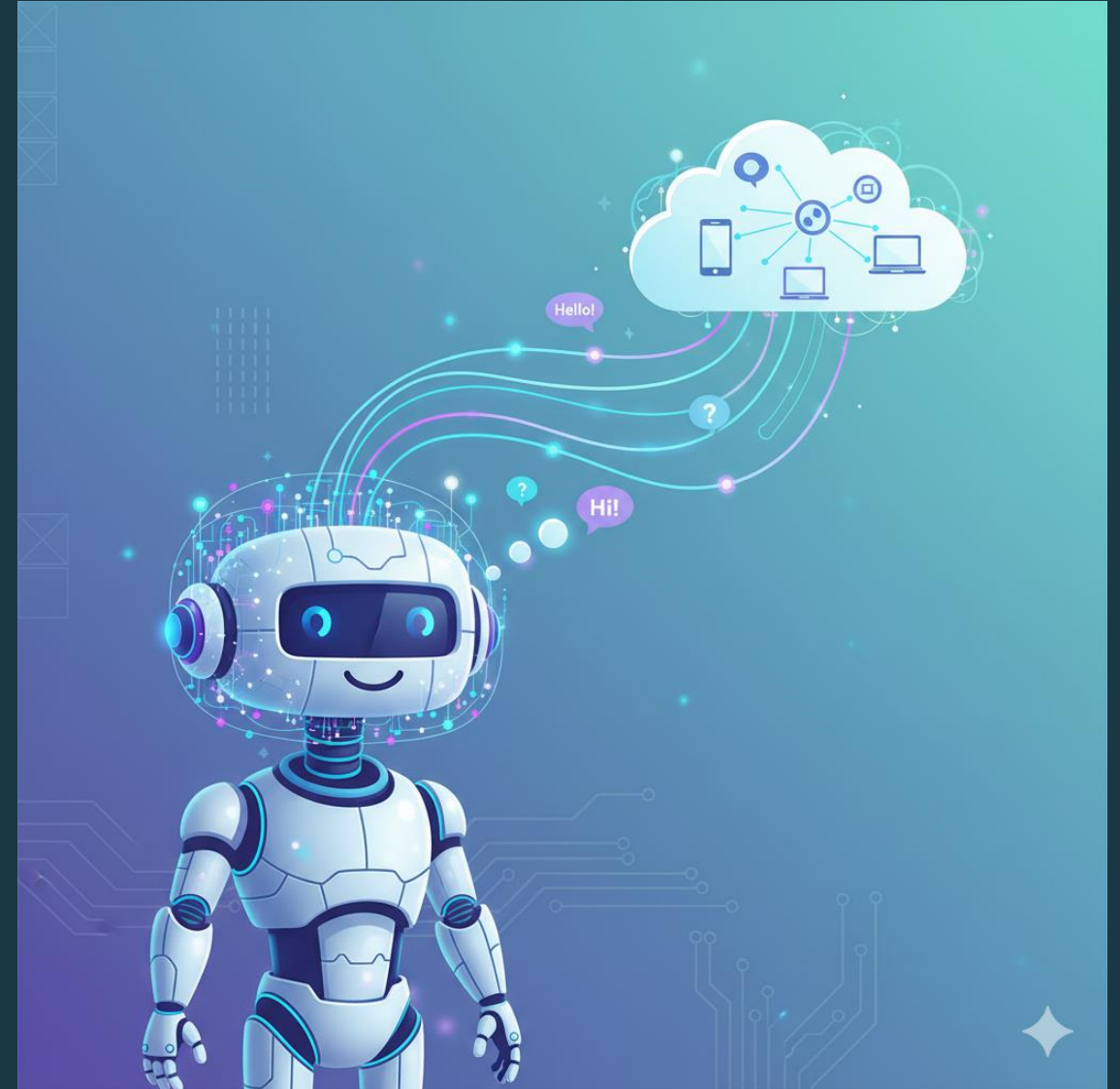
What we learned today

What We Learned

- AI tools are accessible now (free tiers available)
- Simple text files + AI = powerful teaching assistants
- Context engineering ensures cultural relevance
- AI can be affordable and scalable with right approach
- Test tools for your languages and context
- Think about workflows, templates, and where humans add value
- Infrastructure-appropriate solutions exist

AI as Operating System

- Model Context Protocol (connecting to the apps we use)
- Skills (apps run from chat)
- Search (inside chat)
- ChatGPT as the new app store



AI will disappear into professional and consumer products – word processors and video editors, communication platforms such as Zoom and Teams, social media, games, and household goods from doorbells to heating systems. By the late 2020s, AI will no longer be a “thing”, it will be part of everything.

Professor Mike Sharples, Professor of Educational Technology at The Open University



Questions?

Digital Education Leadership Programme

In **development** – in partnership with:



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Transforming
Education

6 domains:

- *Strategic Leadership*
- *Governance & Policy*
- *Technical Evaluation*
- *Data-Driven Decision Making*
- *Capacity Building*
- *Financial Sustainability*

A learning journey in 7 modules to support Learning Pioneers and Tech4Ed countries

- *sustained and structured learning opportunities* throughout the Learning Pioneers Journey to build relevant digital transformation content knowledge and apply it to their national digital education frameworks.
- *collaborative country-to-country networks and activities* to help you leverage tech for your education system with a partnership network.

Virtual (Zoom)

2 hours per module

Once every 3 weeks

Expert lecture

Flipped classroom activities

Plenary discussion

Self-paced online

Written learning content

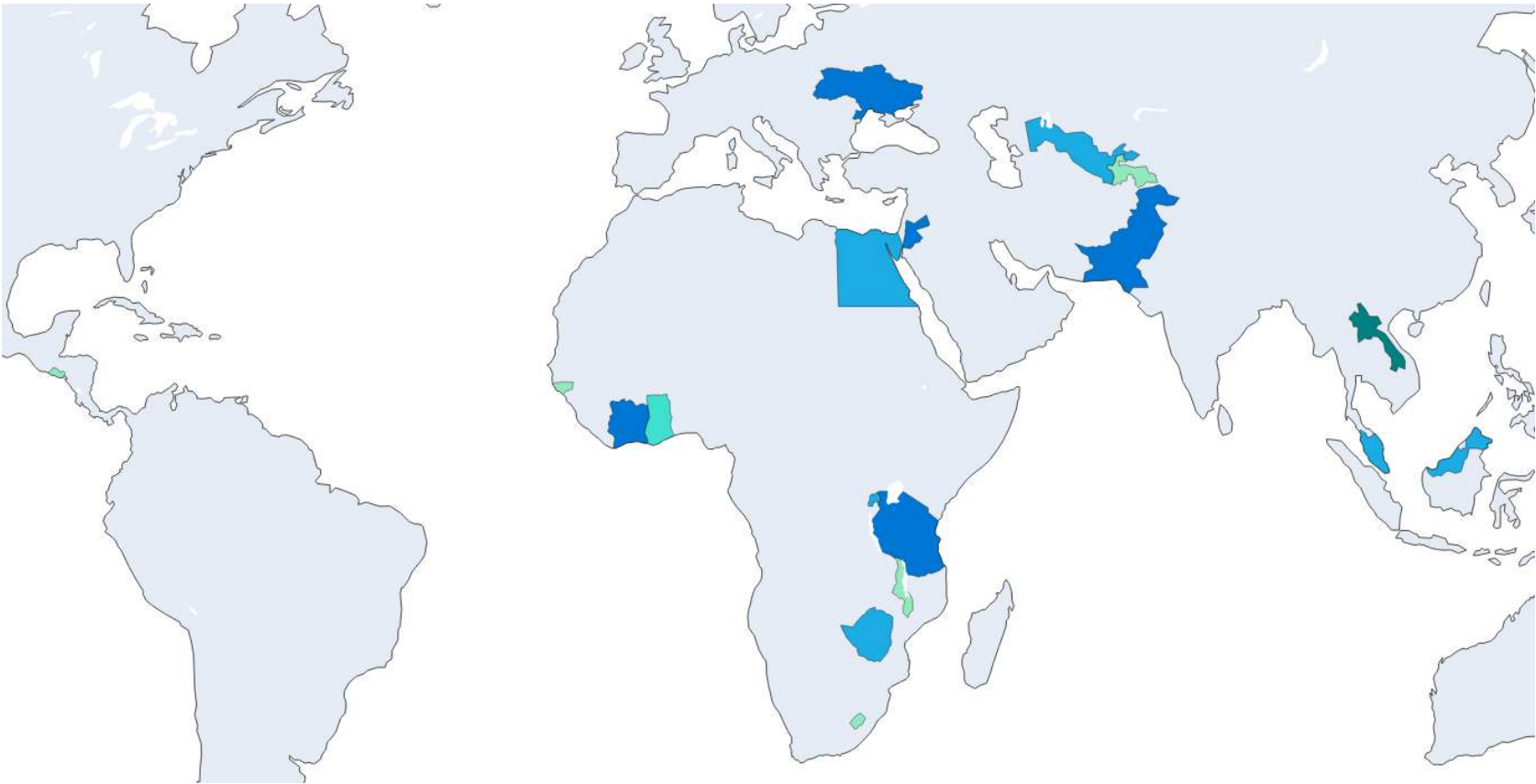
Instructional videos

Interactive knowledge checks

Case study analysis

The leaders

2-3 leaders from 18 MoEs and UNICEF COs



- Initiative
- Tech4Ed
 - Tech4Ed and LPP1
 - Tech4Ed and LPP2
 - LPP1
 - LPP2

El Salvador, Guinea-Bissau, Lesotho, Malawi, Maldives, Tajikistan, Ghana, Lao PDR, Egypt, Uzbekistan, Rwanda, Zimbabwe, Malaysia, Côte d’Ivoire, Jordan, Pakistan, Tanzania, and Ukraine.