

Learning in a World with AI

Forum on Artificial Intelligence

Riga, Latvia

21 November 2025

Dale P. Johnson

Senior Director, Digital Innovation

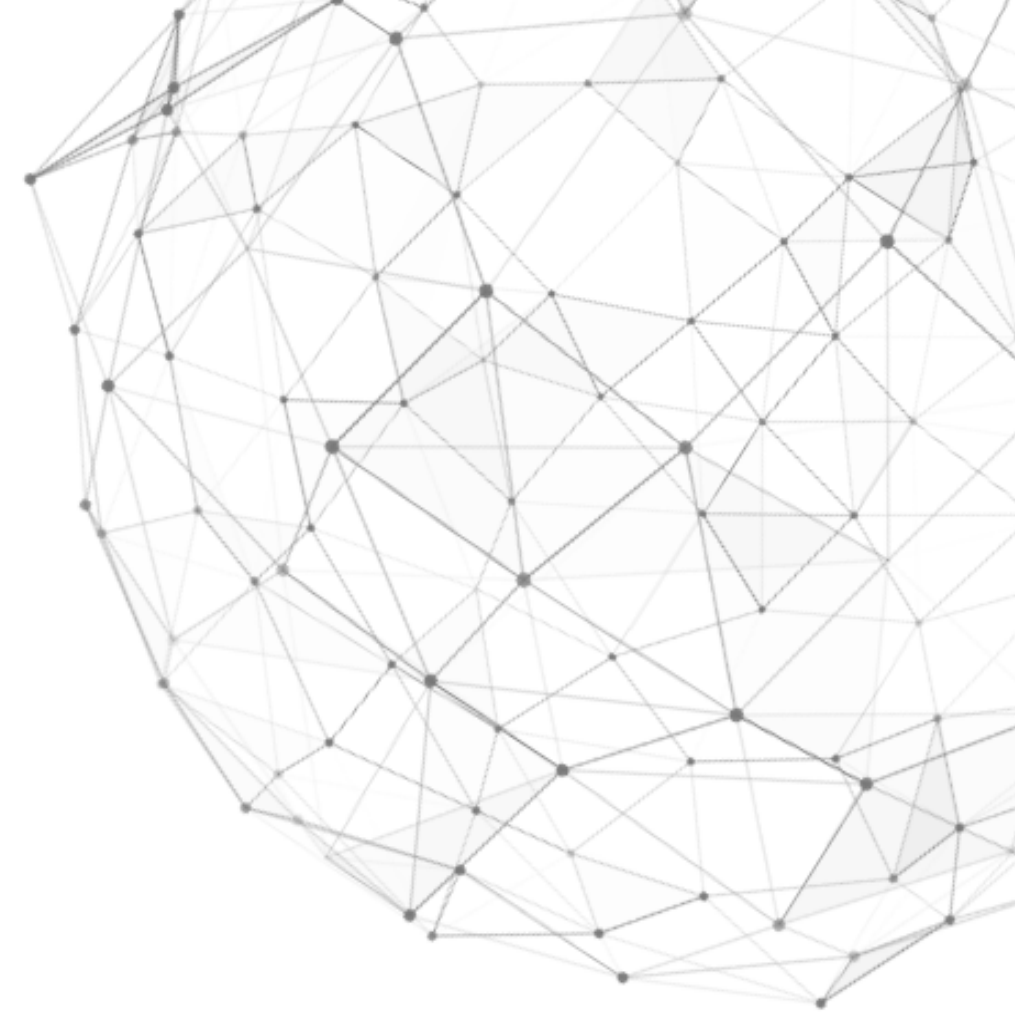
University Design Institute

Arizona State University

Reimagine.

Redesign.

Rebuild.



Why is AI in education so important?



Why is AI in education so important?

2050



Public University

180,000 students

- 85,000 residential
- 95,000 digital

Phoenix ~ 5.0 million



ASU Arizona State University

#1 **BEST COLLEGES**
US NEWS

in the U.S. for
Innovation

— U.S. News & World Report

2026

#1 **BEST COLLEGES**
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— U.S. News & World Report

2016

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2017

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2018

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2019

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2020

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2021

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2022

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2023

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2024

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US NEWS

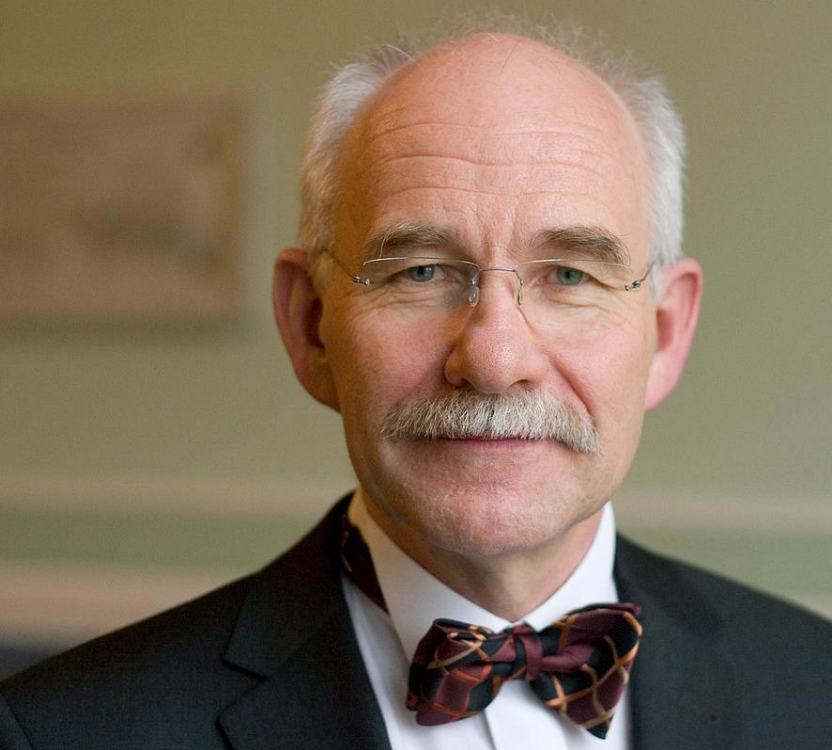
in the U.S. for
Innovation

— U.S. News & World Report

2025

University Design Institute @ ASU







ChatGPT



Copilot



Gemini



Claude



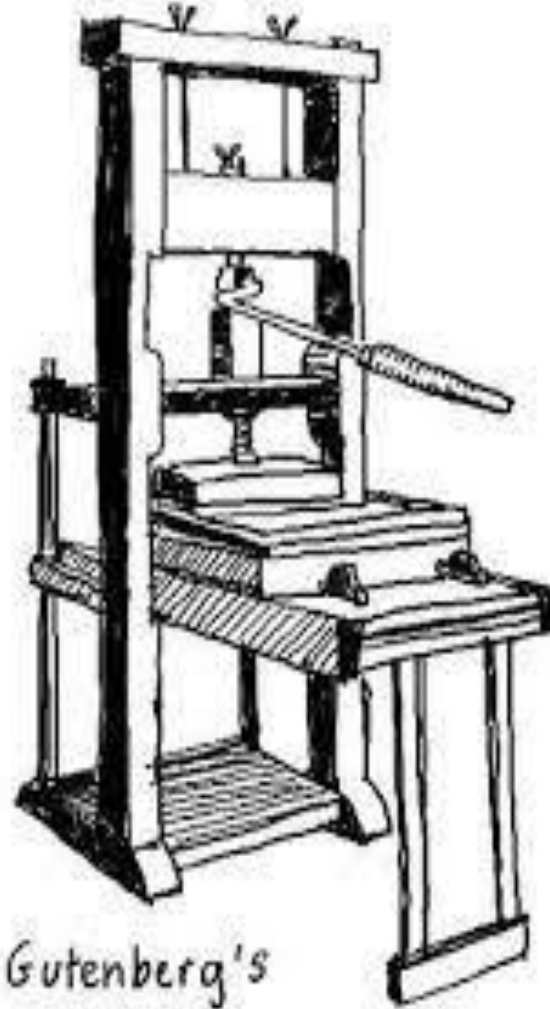
deepseek



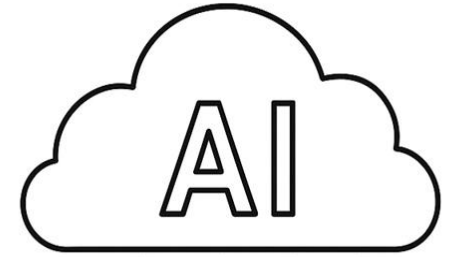
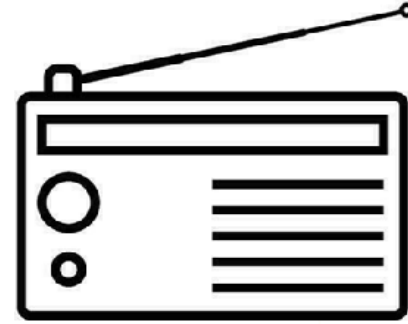
Building trust in technology is hard!



Building trust in technology is hard!



Gutenberg's
Press



Trust requires: Competency



Trust requires: **Honesty**



False Citations

Overconfidence

Systemic Bias

Trust requires: **Transparency**



OpenAI

ANTHROPIC

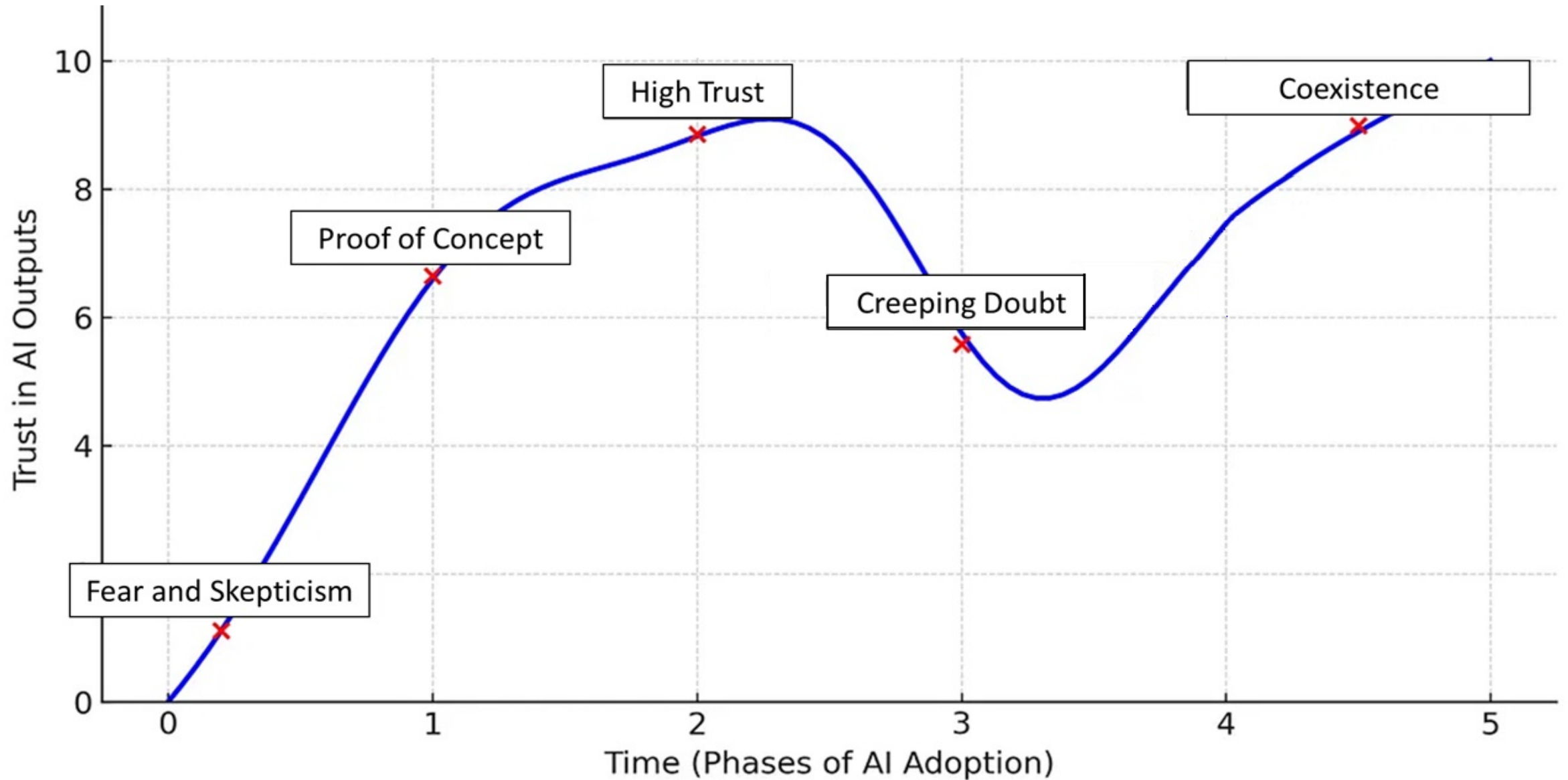
Google

Gemini

X



AI Trust Curve: Rapid transformation



AI Trust Curve: Fear and Skepticism



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ChatGPT banned in Italy over privacy concerns

1 April 2023

Share  Save 

Shiona McCallum

Technology reporter

AI Trust Curve: Climbing to Coexistence

THE CHOSUN Daily

[National](#) [Market & Money](#) [Industry](#) [North Korea](#) [Entertainment+](#) [Lifestyle](#) [World](#) [Opinion](#) [Sports](#)

[English](#) > [National](#)

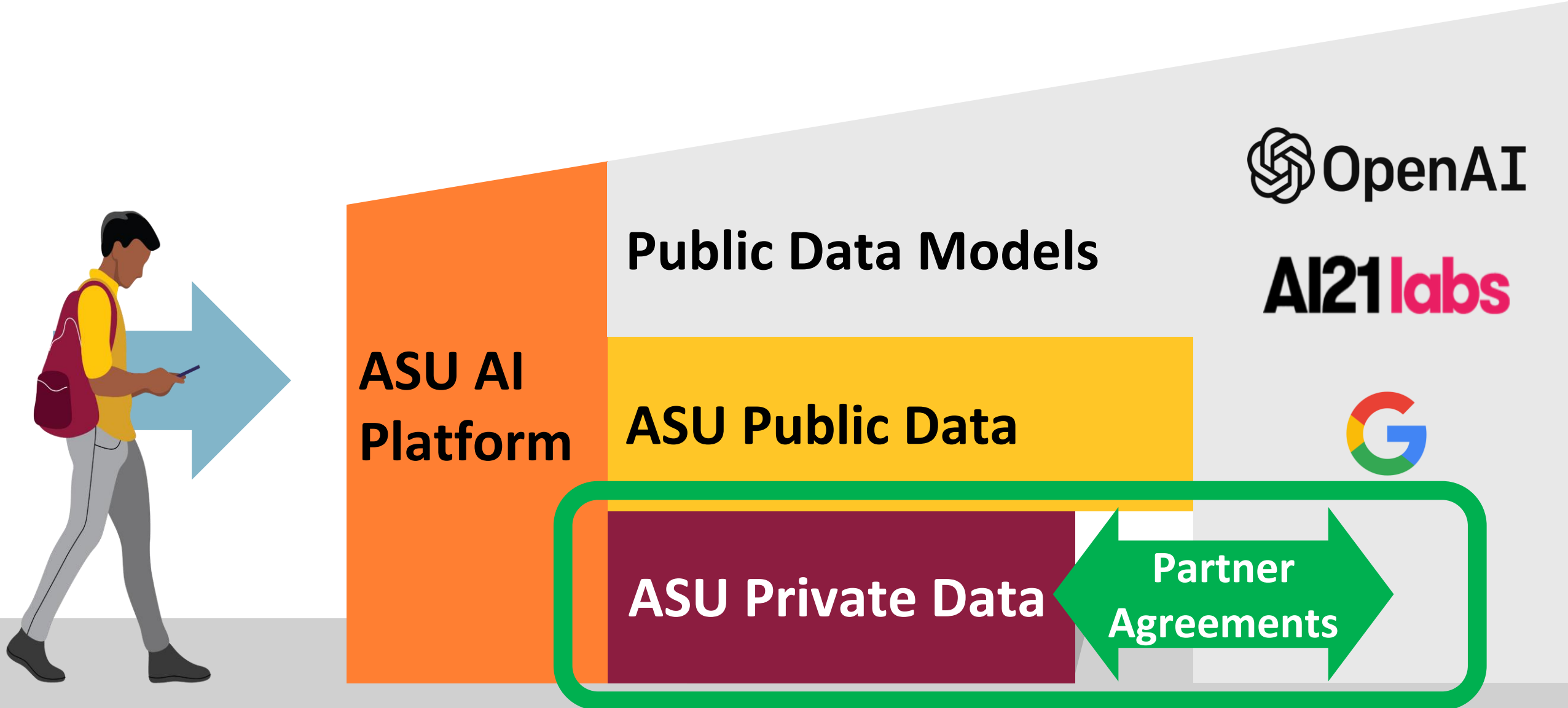
Korean University Students to Receive Mandatory AI Education

Ministry of Education's 4 trillion won plan boosts regional universities with AI education, employment-linked

AI Strategy: ASU Approach



AI Strategy: **Controlled Collaboration**



AI Strategy: **Controlled Collaboration**

ASU Private Data

Academic

Administrative



ASU Sol
Supercomputer



PeopleSoft



zoom

servicenow

AI Strategy: “LLM Library”

**Store
Seek
Share**



AI Strategy: ASU “LLM Library”

MyAI Builder



**CreateAI
Platform**

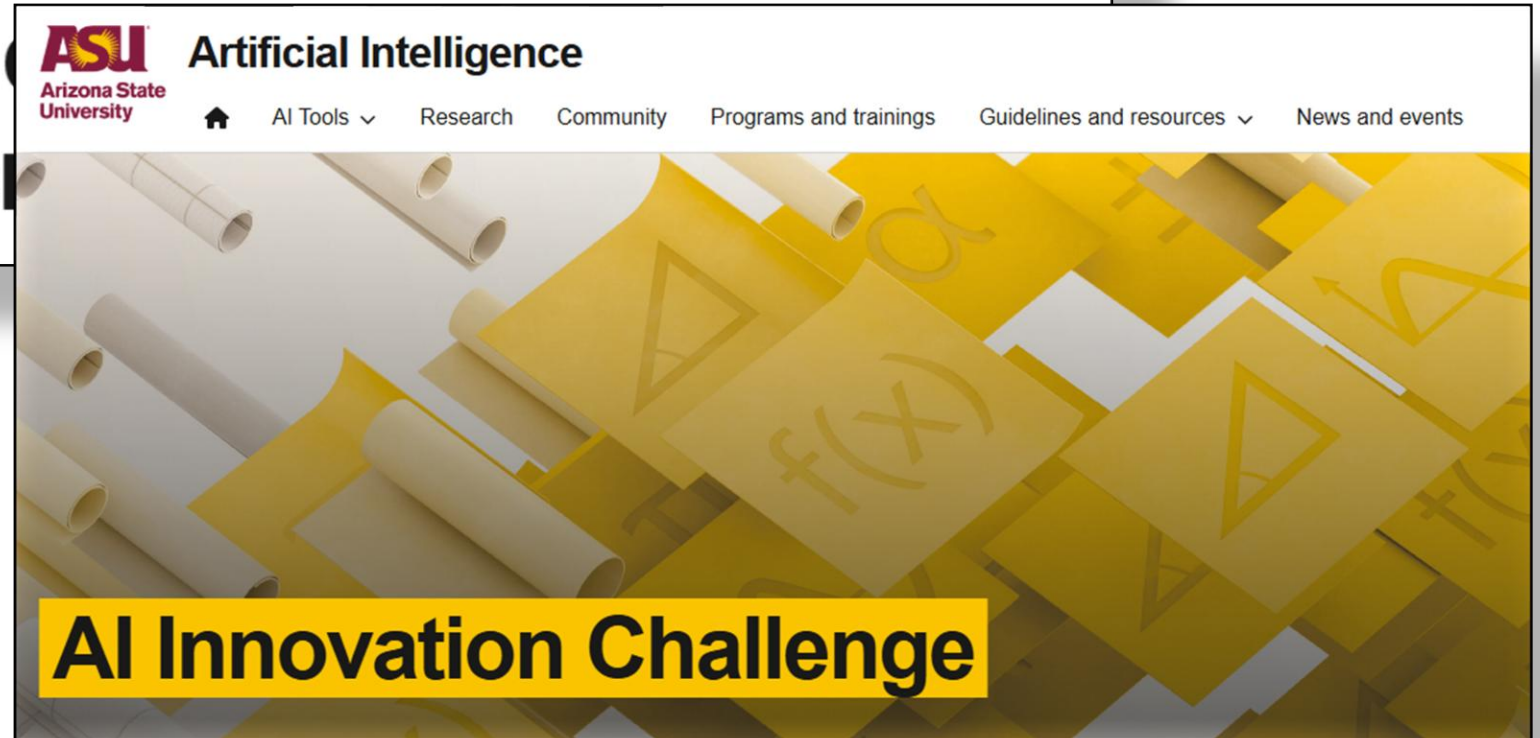
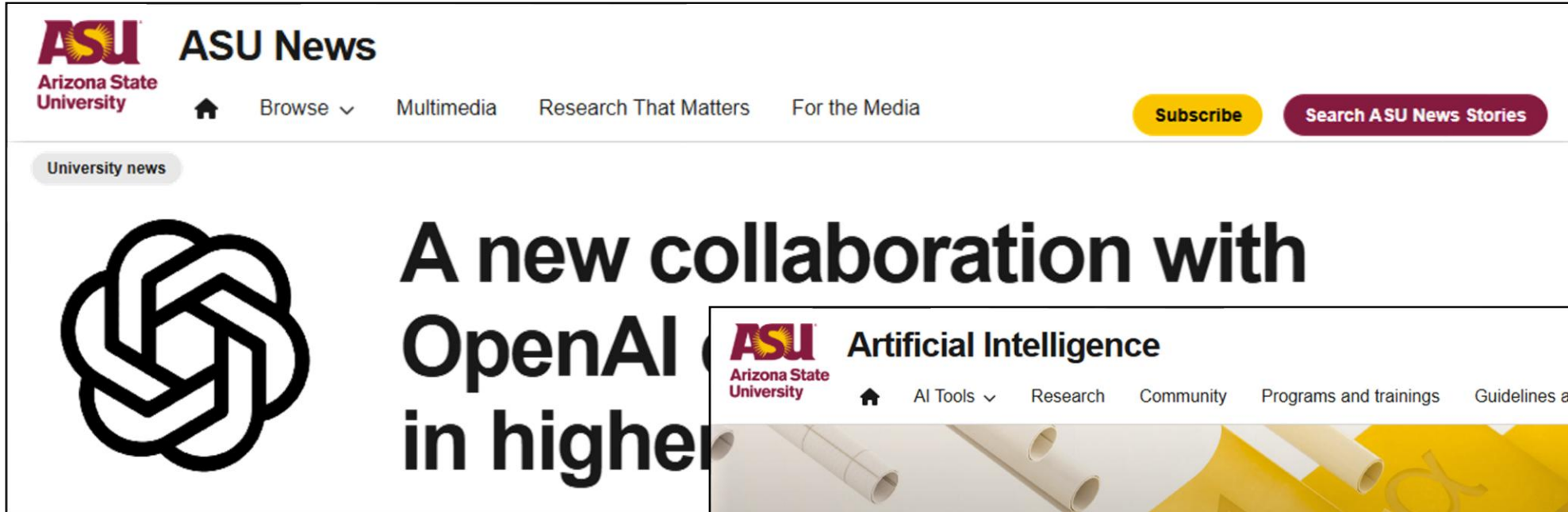
- Custom API
- Ethical AI engine
- 40+ LLMs
- Single Sign-On
- Control/Audit
- Cloud Based

AI Strategy: ASU “LLM Library”



- ✓ Store, Seek, Share **SAFELY**
- ✓ AI “Makerspace”
- ✓ Accelerate AI use
- ✓ Conduct AI research
- ✓ Control LLM data sharing

AI Strategy: ASU “LLM Library”



AI Strategy: ASU “LLM Library”

ASU CreateAI Compare

compare.ai.ml.asu.edu

ASU Arizona State University

ASU CreateAI Compare

Step 1: Select up to 6 models to compare ^

 Claude 3 Haiku <i>Anthropic</i> ☒	 Claude 3 Opus <i>Anthropic</i> ☒	 Claude 3 Sonnet <i>Anthropic</i> ☐	 Claude 3.5 Sonnet <i>Anthropic</i> ☐
 GPT OSS 120B <i>OpenAI</i> ☒	 GPT OSS 20B <i>OpenAI</i> ☐	 Gemini 2 Flash <i>GCP Deepmind</i> ☒	 Gemini 2 Flash Lite <i>GCP Deepmind</i> ☐
 Llama 4 Scout <i>Meta</i> ☒	 Llama3 405B <i>Meta</i> ☐	 Mistral 7B <i>Mistral AI</i> ☒	 Mistral 8x7B <i>Mistral AI</i> ☐

AI Strategy: ASU “LLM Library”

ASU CreateAI Compare

compare.ai.ml.asu.edu

Step 2: Type your question or task in the box below to see how the 6 selected models interpret and handle it

Token count: 7

What do Latvians do on November 11th?

Generate

View Model Outputs

Compare and analyze model capabilities, speed, and interpretation.

What do Latvians do on November 11th?

Step 2: Type your question or task in the box

What do Latvians do on November 11th?

background	comes from the legendary Latvian folk	reinstated after Latvia	and other events to mark the occasion.	blood							
Best match	Tokens 1378	Cost € 0.0827	9.4 s	Best match	Tokens 126	Cost € 0.0083	4.1 s	Best match	Tokens 122	Cost € 0.0085	7.5 s

AI Strategy: ASU “LLM Library”

ASU CreateAI Compare x +

compare.ai.ml.asu.edu

Step 2: Type your question or task in the box below to see how the 6 selected models interpret and handle it

Token count: 7

What do Latvians do on November 11th? x Generate

View Model Outputs

Compare and analyze model capabilities, speed, and interpretation.

What do Latvians do on November 11th?

AI Claude 3 Haiku
Anthropic

November 11th is Lāčplēsis Day in Latvia, which is a national holiday commemorating the Latvian War of Independence.

Some key things about how Latvians observe Lāčplēsis Day:

- It is a national holiday, so many businesses and schools are closed for the day.
- There are parades, concerts, and other public events held to honor the day.

Best match Tokens 255 Cost € 0.0319 5.2 s

AI Claude 3 Opus
Anthropic

On November 11th, Latvians celebrate Lāčplēsis Day, also known as Lāčplēša Diena in Latvian. This day commemorates the victory of Latvian forces over the West Russian Volunteer Army on November 11, 1919, during the Latvian War of Independence.

Key aspects of Lāčplēsis Day include:

- The day is named after the Latvian epic hero Lāčplēsis, who symbolizes

Best match Tokens 281 Cost € 2.1075 14.9 s

Gemini 2 Flash
GCP Deepmind

November 11th in Latvia is Lāčplēsis Day, a day of remembrance for the soldiers who fought for Latvia's independence. Here's what Latvians typically do on this day:

- Attend commemorative events:** People gather at war memorials, cemeteries, and other significant locations to honor the fallen soldiers.
- Participate in torchlight processions:** Torchlight processions are a common sight in Riga and other cities, symbolizing the light of freedom and

Best match Tokens 1085 Cost € 0.0434 15.7 s

GPT OSS 120B
OpenAI

Latvia's November 11 – Lāčplēsis Day (Lāčplēša diena)

Aspect	What it is	How it's observed
Historical background	The date marks the Battle of Riga (1919) and the broader struggle for Latvian independence (1918-1920). The name "Lāčplēsis" (literally "Bear-slayer") comes from the legendary Latvian folk	The day was officially established in 1928, discontinued during Soviet era, and reinstated after Latvian folk

Best match Tokens 1378 Cost € 0.0827 9.4 s

Llama 4 Scout
Meta

On November 11th, Latvians celebrate Lāčplēsis Day, which is a public holiday in Latvia. It commemorates the Latvian Army's victory over the Bermontians (a German-Russian military formation) in 1919. The holiday is named after Andrejs Pumpurs' epic poem "Lāčplēsis," which tells the story of a mythical Latvian hero.

On this day, Latvians honor their national heroes and celebrate their country's history, culture, and military bravery. People often attend ceremonies, parades, and other events to mark the occasion.

Best match Tokens 126 Cost € 0.0083 4.1 s

Mistral 8x7B
Mistral AI

November 11 is commemorated as Lāčplēsis Day in Latvia, which marks the victory of Latvian forces over the West Russian Volunteer Army in 1919. This day is celebrated to honor the Latvian soldiers who fought for the country's independence. On this day, people often lay wreaths and flowers at the Freedom Monument in Riga, the capital of Latvia. There are also ceremonies, parades, concerts, and other events to celebrate Lāčplēsis Day. Additionally, it is a national holiday in Latvia, so schools, government offices, and many businesses are closed.

Best match Tokens 122 Cost € 0.0085 7.5 s

AI Strategy: ASU “LLM Library”

Llama 4 Scout
Meta

Fastest **Best Cost**

On November 11th, Latvians celebrate Lāčplēsis Day, which is a public holiday in Latvia. It commemorates the Latvian Army's victory over the Bermontians (a German-Russian military formation) in 1919. The holiday is named after Andrejs Pumpurs' epic poem 'Lāčplēsis,' which tells the story of a mythical Latvian hero.

On this day, Latvians honor their national heroes and celebrate their country's history, culture, and military bravery. People often attend ceremonies, parades, and other events to mark the occasion.

Best match Tokens 126 Cost ¢ 0.0083 4.1 s  

AI Strategy: ASU “LLM Library”

Integrity -Through- Design

Teaching in the Age of AI



ASU EdPlus
Arizona State University

AI Strategy: “AI Sovereignty”

“If universities have a clear AI strategy, if they control critical AI infrastructure and if students and staff are competent in dealing with the technology, **then the point has been reached at which these institutions can be considered AI sovereign**. It is urgent to strive for this now.”

➤ *Dr. Peter Salden, director of the Center for Teaching and Learning,
Ruhr University, Bochum, Germany*

AI Strategy: “AI Sovereignty”



AI Tactics: AI Literacy Framework

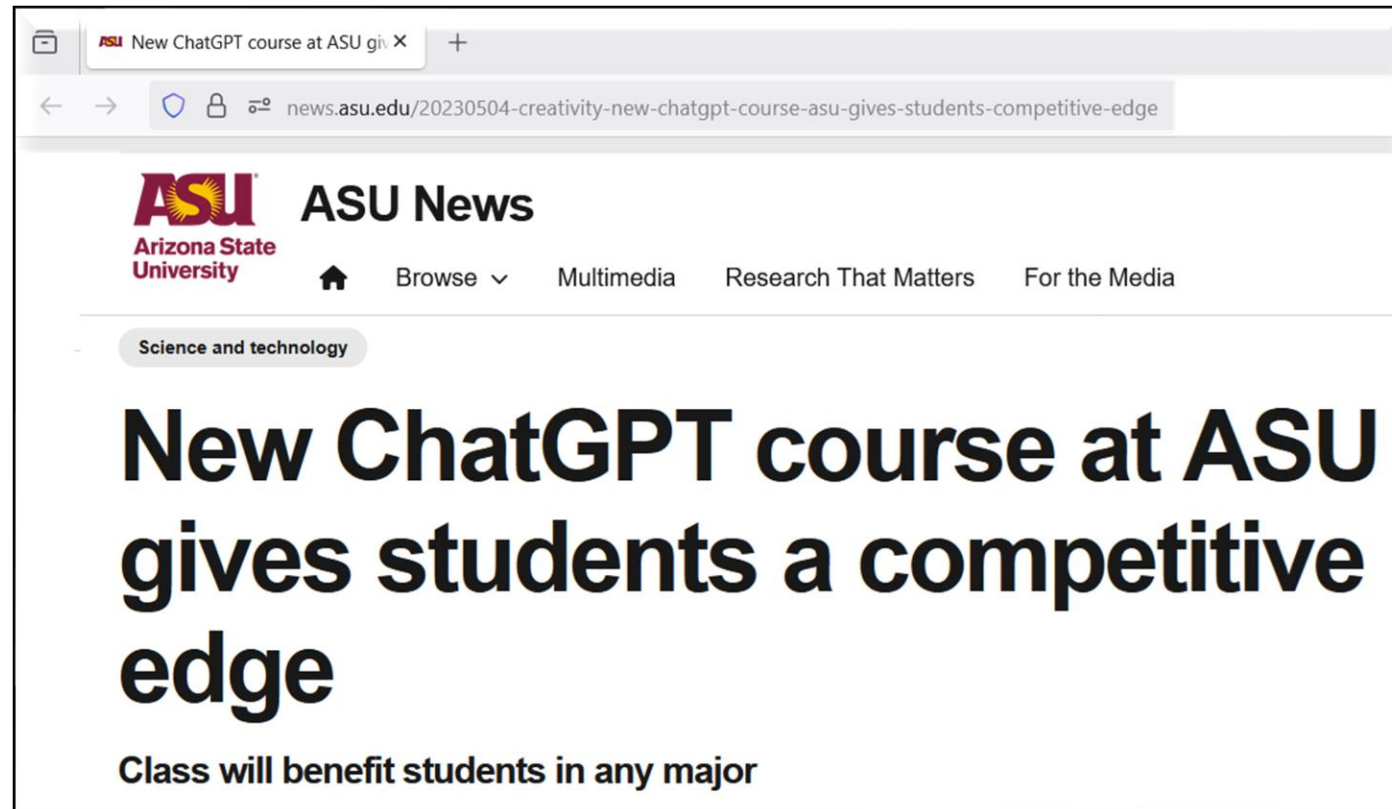
Digital Education Council



AI Tactics: **AI Literacy Framework**

General AI Literacy for All

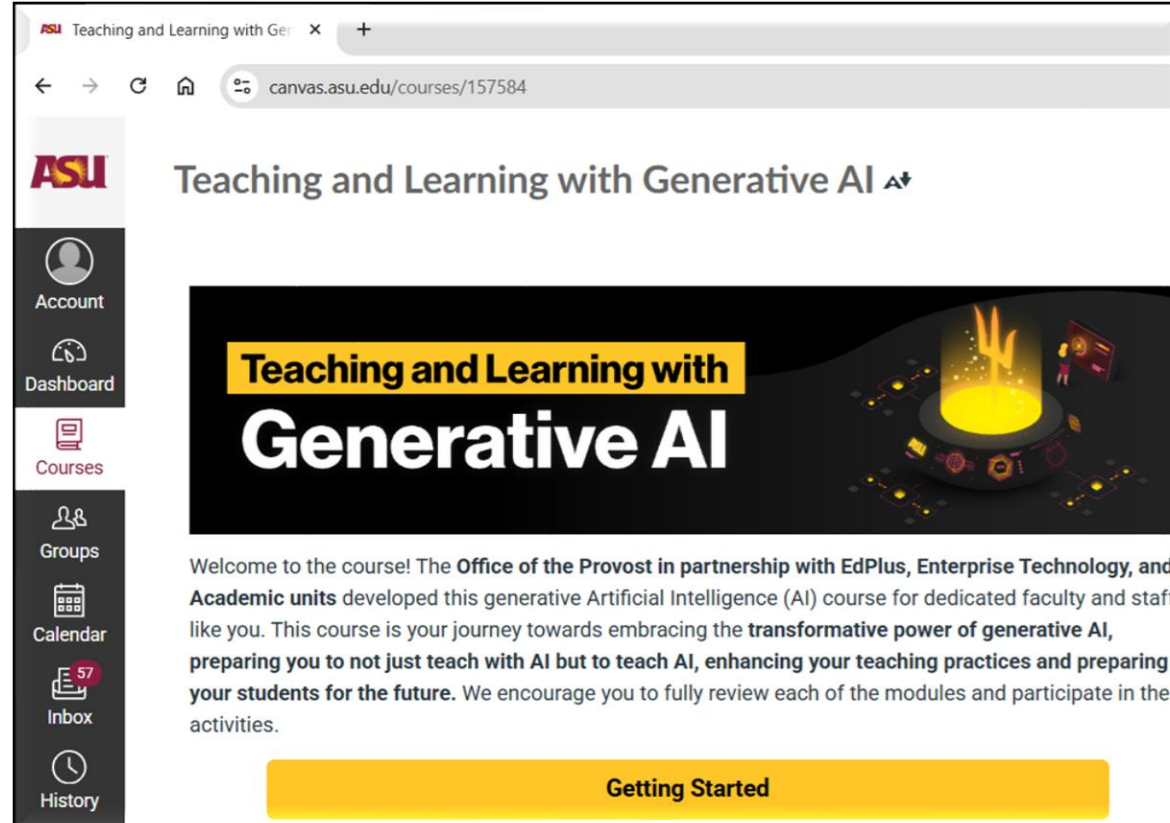
Students



AI Tactics: AI Literacy Framework

General AI Literacy for All

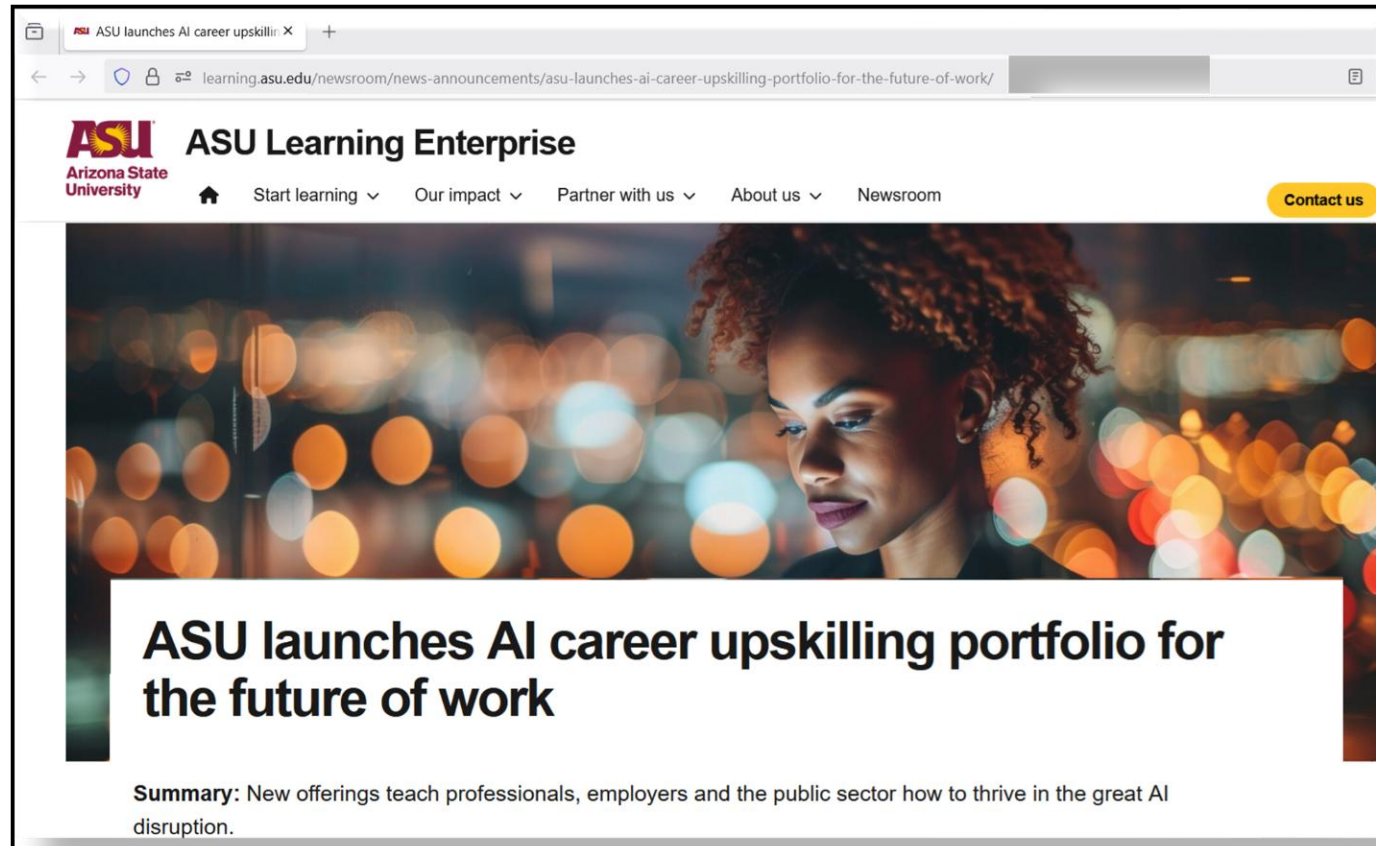
Faculty



AI Tactics: **AI Literacy Framework**

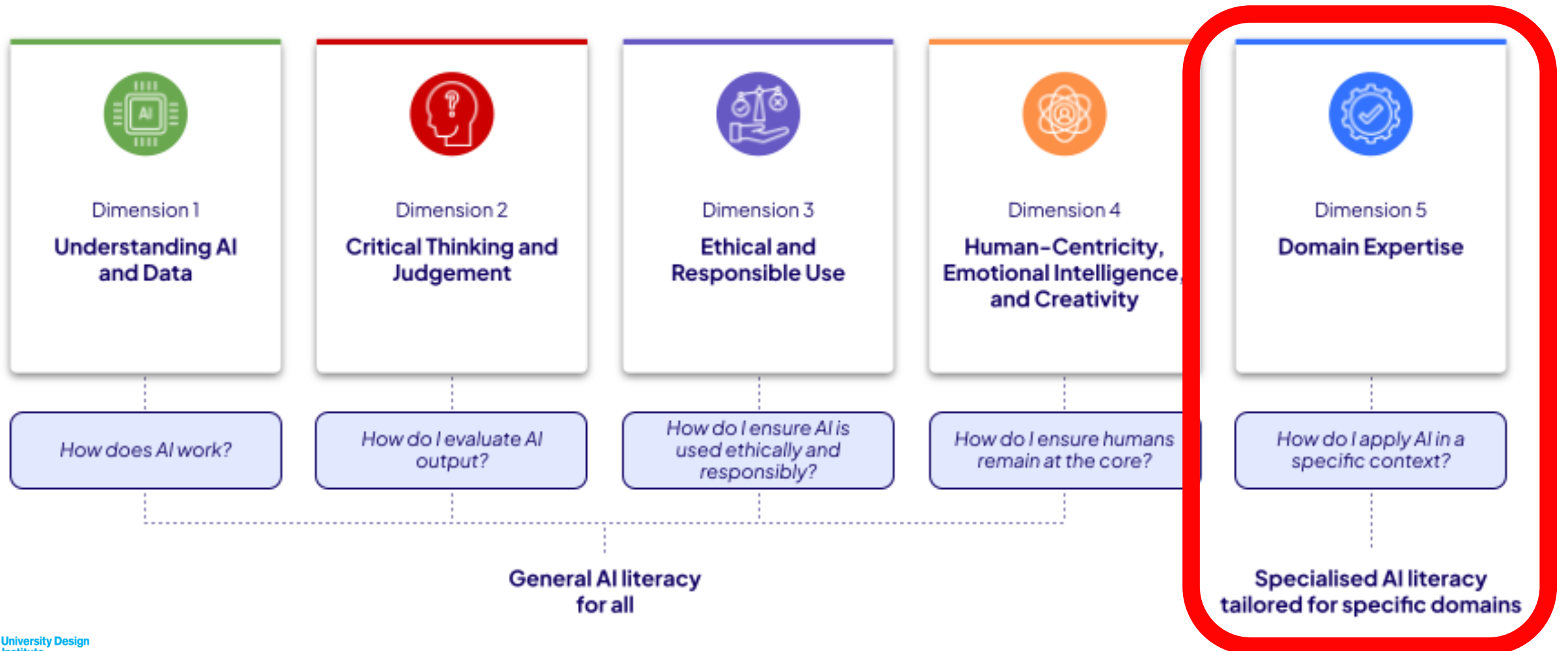
General AI Literacy for All

Community



AI Tactics: AI Literacy Framework

Digital Education Council



AI Tactics: Mass Personalization

Mass Personalization



AI Tactics: **Mass Personalization**

A woman with curly hair wearing a yellow shirt is pointing at a computer monitor. A man with a beard and glasses, wearing a plaid shirt, is sitting at the desk and looking at the screen. The background is a blurred office environment.

Right Lesson

Right Student

Right Time

AI Tactics: Mass Personalization



AI Tactics: Mass Personalization

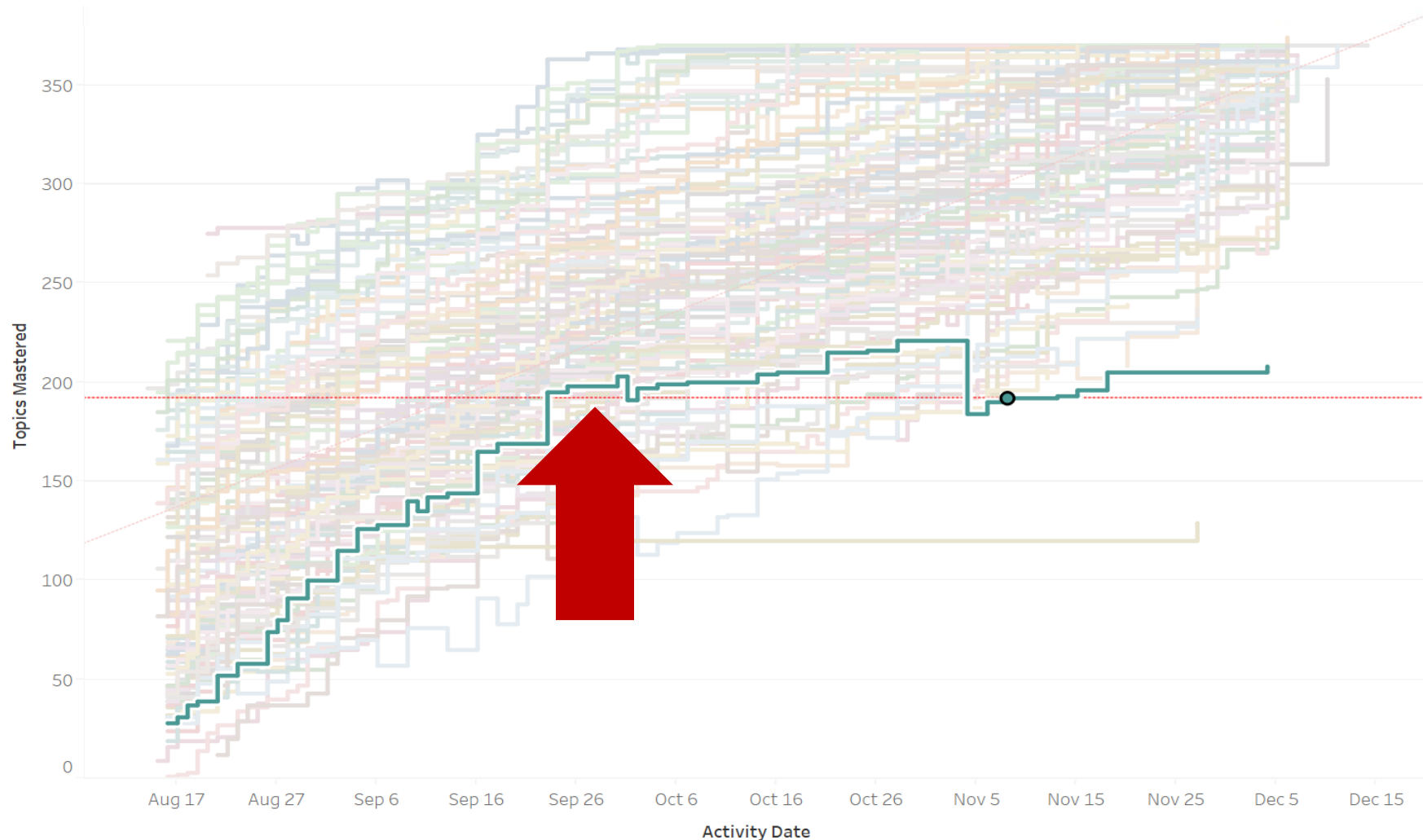


ALEKS[®]

<https://www.aleks.com/>

AI Tactics: Mass Personalization

ASU College Algebra ~ 10,000 students per year

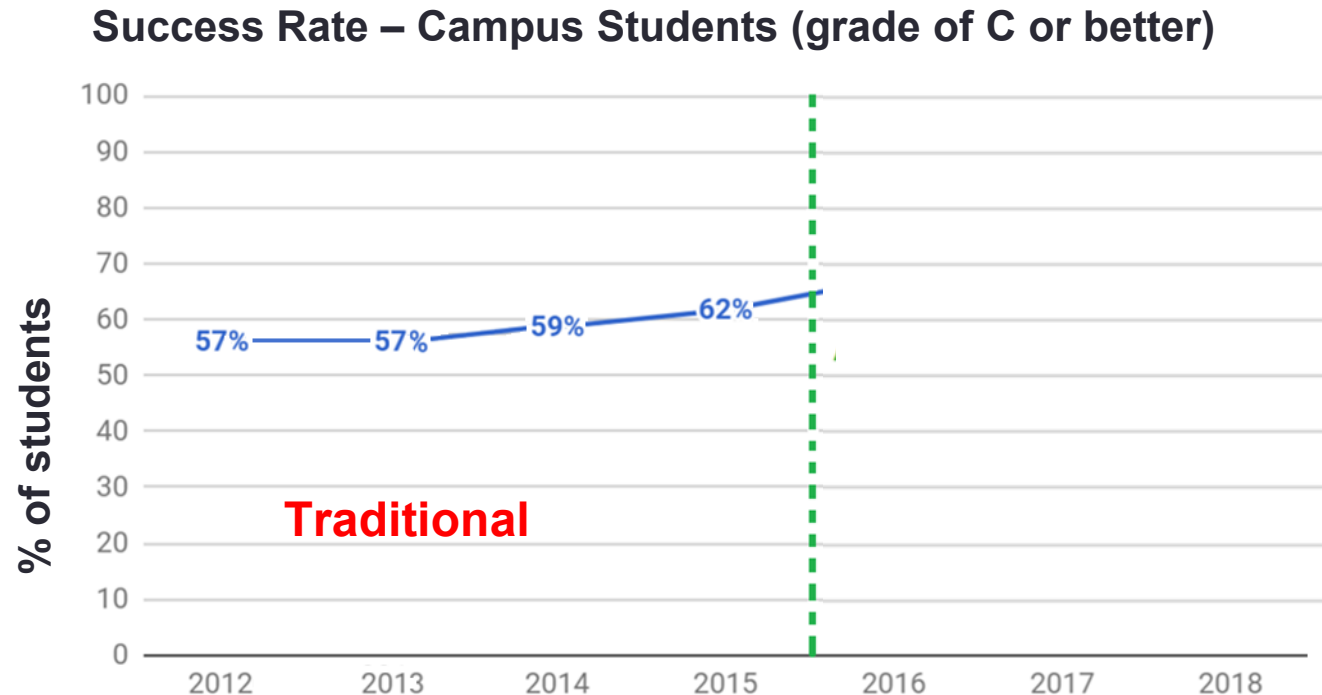


AI Tactics: Mass Personalization

ASU College Algebra ~ 10,000 students per year

2016 redesigned with McGraw Hill ALEKS

Same professors, curriculum, and assessments



+ 17 ppt

AI Tactics: Mass Personalization



Building trust in technology is possible!



Building trust in technology is possible!

**“The best way to predict
the future is to invent it.”**

Alan Kay, Futurist and Computer Scientist

Thank you for your attention!



Dale P. Johnson

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University Design Institute
Arizona State University

Dale.Johnson@asu.edu



Creating Collaborative Solutions