
CETF
CALIFORNIA EMERGING TECHNOLOGY FUND
California Emerging Technology Fund
ARTIFICIAL INTELLIGENCE (AI)
PANEL PRESENTATION
AND CONVERSATION
BOARD OF EXPERT ADVISORS
Moderated by CETF Directors
Carlos Ramos and Barb Yellowlees

Convene and Welcome

Luis Arteaga

Chair, CETF Board of Expert Advisors

Sunne Wright McPeak

President and CEO

California Emerging Technology Fund

CETF Policy Update

Kyle O'Ryan

Policy and Communications Director CETF

Co-Intelligence: Living and Working with AI
Overview of Key Themes

Kat Zigmont

Senior Vice President CETF

CETF Policy Update

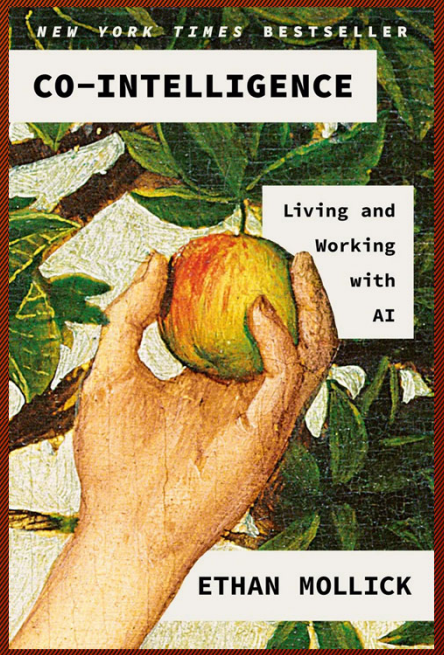
- **Regional Broadband Consortia Empowerment Act (AB 2279)**
  - Author: Assemblymember Mike Gipson (AD 65)
  - Status: Unanimous Support in Assembly Communications and Conveyance Committee; Referred to Assembly Appropriations Committee

- **Education Technology Empowerment Act (AB 2675)**
  - Author: Assemblymember Dr. Joaquin Arambula (AD 31)
  - Status: Hearing in Assembly Education Committee on Wednesday, April 22

- **California Home Internet LifeLine Act (SB 716)**
  - Author: Senator María Elena Durazo (SD 26)
  - Status: Assembly Floor with Continuing Conversations with Leadership

Co-Intelligence: Living and Working with AI

By Ethan Mollick



What is Co-Intelligence?

Humans and AI working together

Humans: judgment and creativity

AI: speed and patterns

How to Use AI Effectively

Personify	Give AI a role (teacher, editor, expert)
Brainstorm	Generate concepts
Collaborate	Refine through conversation (train)
Assess	Always apply human judgement (apply values)

Calculators in Schools

The Future of AI

"The AI you use today is the worst AI you'll ever use."

AI is improving rapidly

Learn to use it now

Take Aways

AI WILL **NOT** REPLACE US

AI **WILL** CHANGE HOW WE WORK

COLLABORATE WITH AI

Artificial Intelligence Panel
Introduction and Opening Remarks

Carlos Ramos

Director CETF

Former California State CIO

Principal Consultant, Maestro Public Sector

Barb Yellowlees

Director CETF

Chair, Nominating and Telehealth Committees

CEO, RoboPath, Inc.

Artificial Intelligence in Schools: Equity, Safety, and Access

Mike Lawrence

Member, CETF Board of Expert Advisors

District Director of Information and Technology ABCUSD

Rae Fearing

Director of Programs

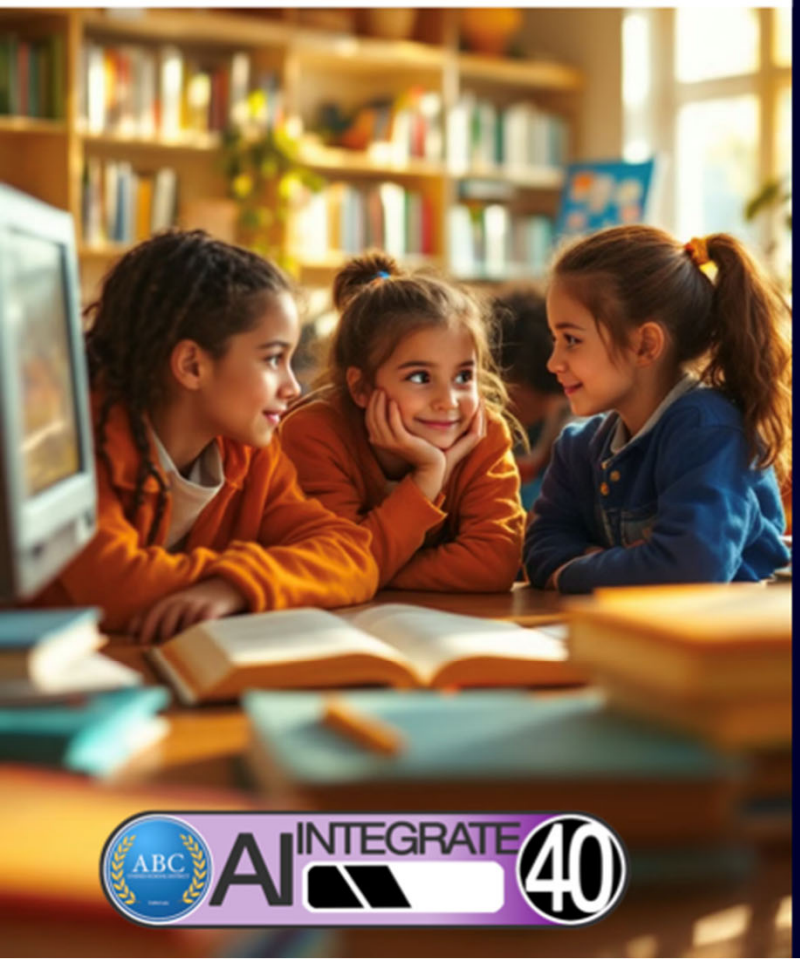
California Association for Leading Innovation in Education (CALIE)

Dr. Ruth Perez

Deputy Superintendent

Los Angeles County Office Education (LACOE)

CETF
CALIFORNIA EMERGING TECHNOLOGY FUND

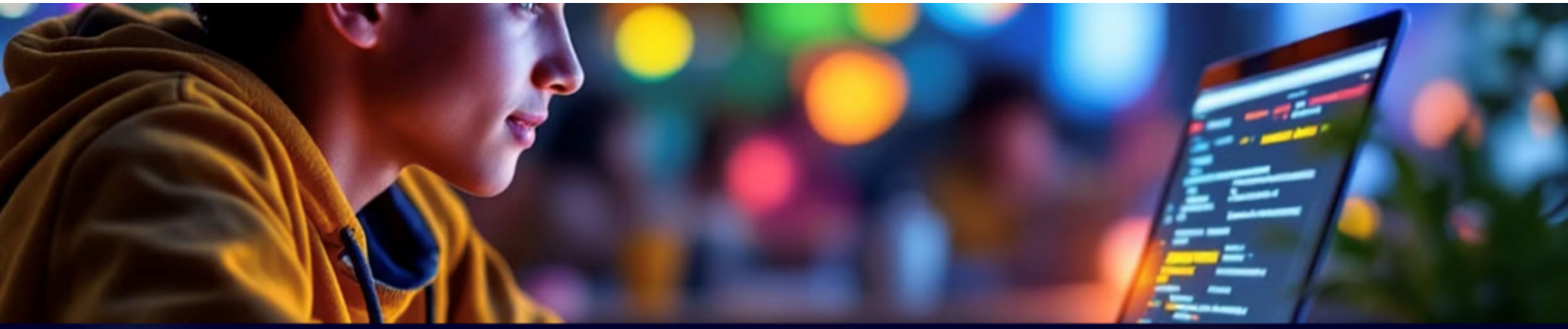


The ABCs of AI Leadership:
Start a Conversation, not an Accusation

Mike Lawrence
Director, Info & Technology
abcusd.us/ai
mikelawrence.me

ABC Unified School District

abcusd.us/ai



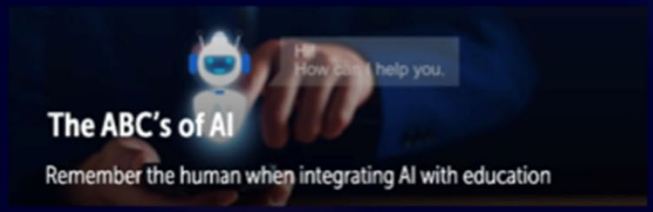
HI+AI: Guiding Inquiry with Artificial Intelligence

Human-Centered Inquiry

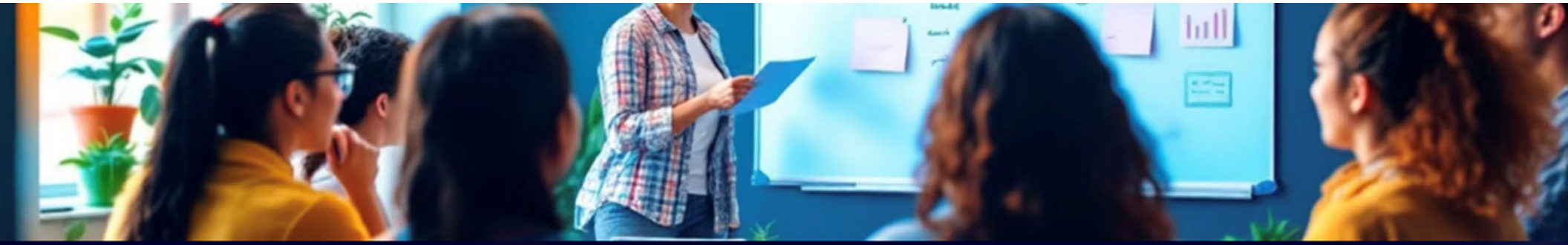
Remember the importance of human empathy and ethical considerations.

AI Tools & Resources

Leverage AI tools like abcusd.us/ai and abcusd.us/aiguide for guidance.



The ABCs of AI, published in ACSA Leadership Magazine, Nov/Dec 2024: leadership.acsa.org/the-abcs-of-ai



Engage Your Educational Community

Public Feedback Process — 1

Gather input from your educational community.

Community Roundtables — 2

Host discussions and workshops to explore AI in education.

Collaborative Partners — 3

Foster collaboration and share best practices.

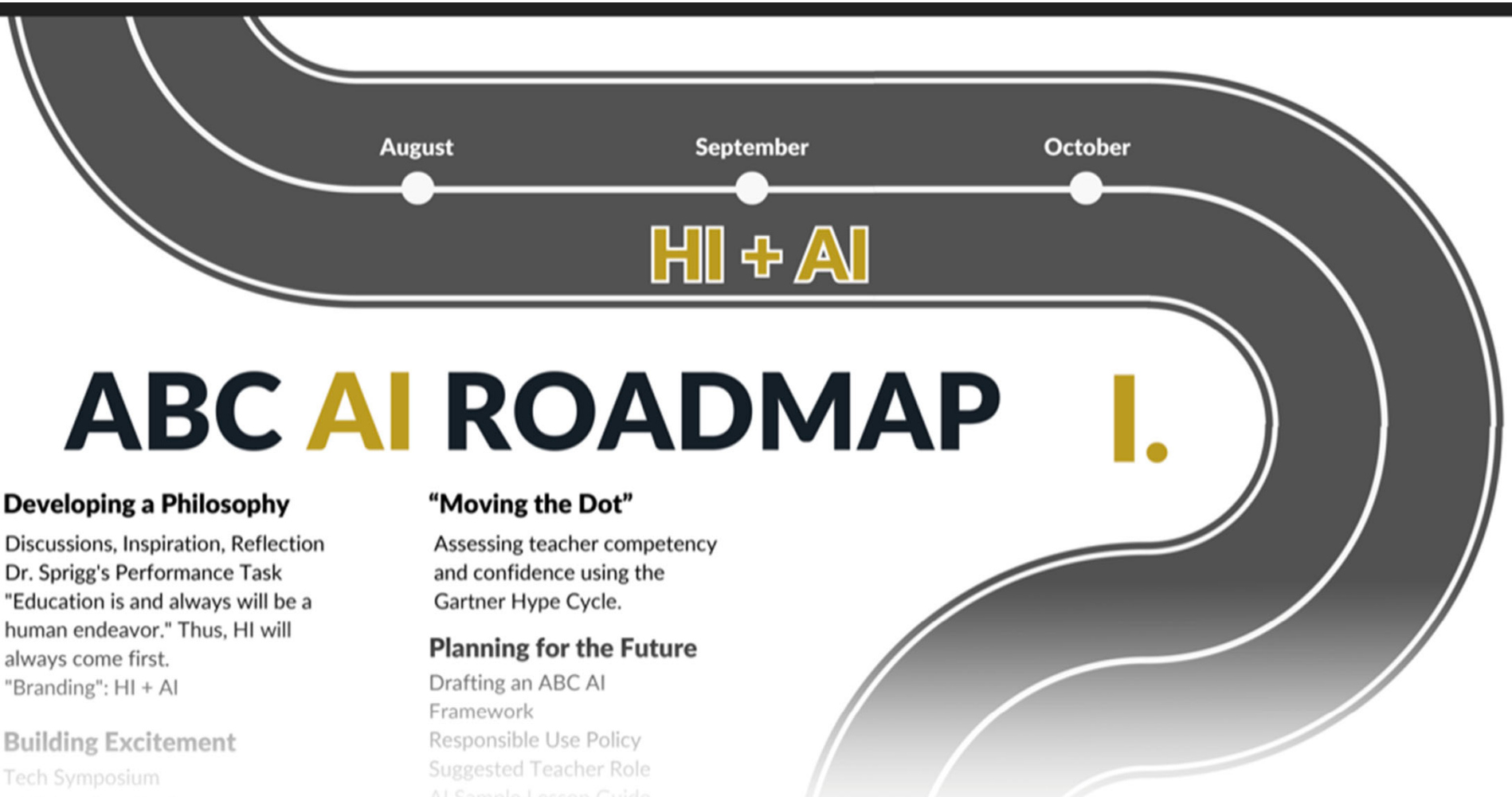
Deployment & Shared Learning — 4

Leverage Professional Learning

Repeat Regularly — ∞

HUMAN & ARTIFICIAL INTELLIGENCE

abcusd.us/ai



ABC AI ROADMAP I.

Developing a Philosophy

Discussions, Inspiration, Reflection
Dr. Sprigg's Performance Task
"Education is and always will be a human endeavor." Thus, HI will always come first.
"Branding": HI + AI

Building Excitement

Tech Symposium
• 44 Sessions/24 Presenters
• 300+ Partic

"Moving the Dot"

Assessing teacher competency and confidence using the Gartner Hype Cycle.

Planning for the Future

Drafting an ABC AI Framework
Responsible Use Policy
Suggested Teacher Role
AI Sample Lesson Guide

edushare.ing/airoadmap

Responsible Use Policy for AI
Addendum

RESPECT

Treat all AI tools and their outputs with respect. Avoid using them to generate content that is discriminatory, offensive, or harmful to any individual or group. Remember that AI is not a substitute for human judgment and critical thinking.

INTEGRITY

AI tools can be valuable learning aids, but they should not be used to shortcut or bypass the learning process. Use them responsibly to enhance your understanding of concepts, not to plagiarize or generate fraudulent work.

ATTRIBUTION

Be open about your use of generative AI in your work, and clearly communicate its role in content creation. Cite your sources, prompts used to generate AI content, and use attribution badges (below) to maintain transparency in your use of Generative AI.

Responsible Use Policy for AI
Addendum

PRIVACY

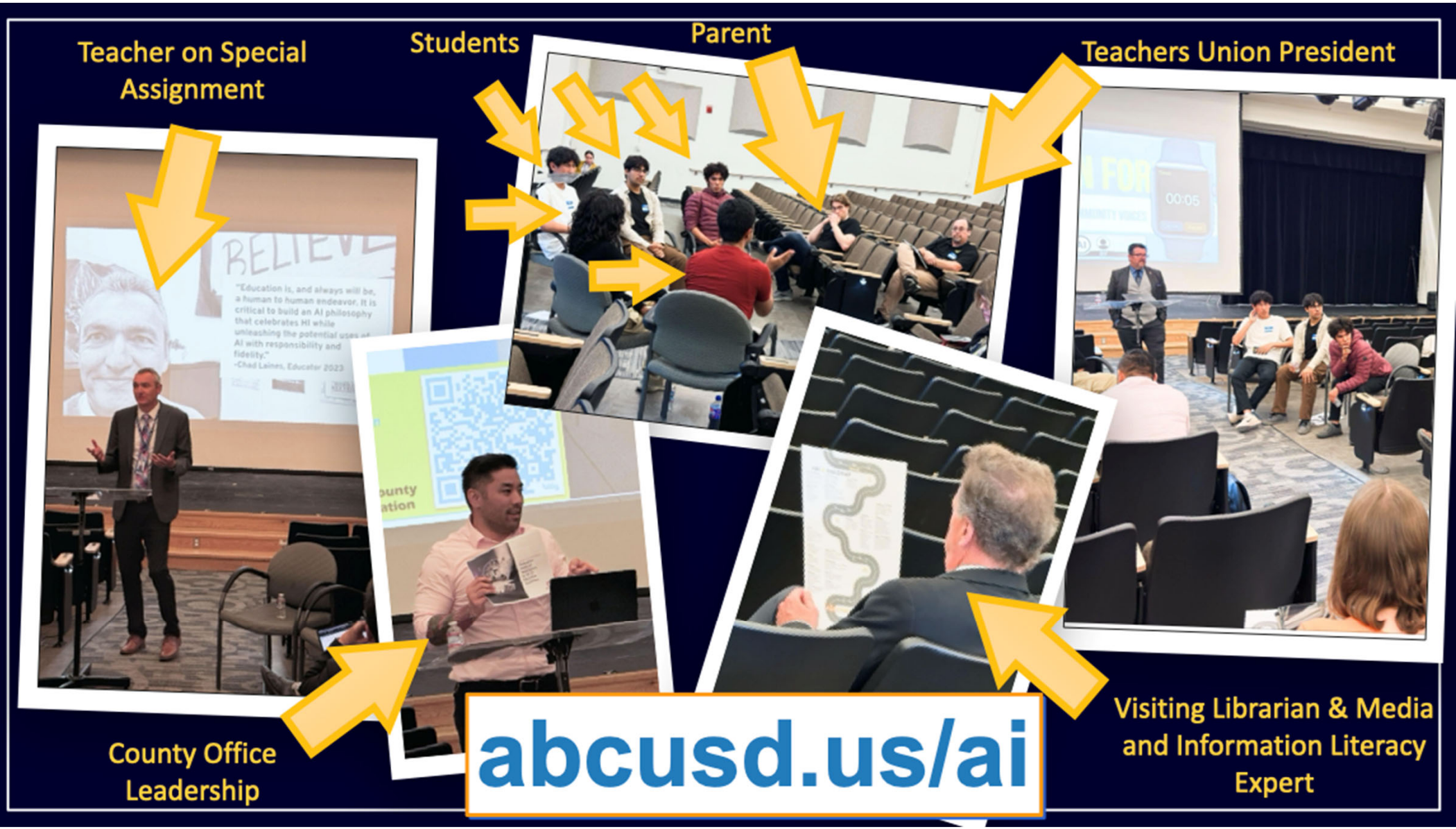
Be mindful of the data you input into AI tools, especially when it pertains to yourself or others. Only share information that is appropriate and relevant to the task at hand, and be aware of potential privacy risks associated with AI use.

CRITICAL THINKING

Remember that AI outputs are not always accurate or factual. Develop strong critical thinking skills to evaluate the information generated by AI tools and verify its accuracy through trusted sources. Be aware of bias and actively work to be inclusive.

RESPONSIBILITY

If you encounter any concerning content or misuse of AI tools, report it to your teacher or school administrator. Be proactive in upholding fair and responsible AI use at your school. Leverage reporting tools from any bullying or dangerous activity.


Teacher on Special Assignment
Students
Parent
Teachers Union President
County Office Leadership
Visiting Librarian & Media and Information Literacy Expert
abcusd.us/ai

AI for Trust and Transparency

Elevate and Manage Expectations

Remove the taboo, invite to a conversation

AI TRUST YOU

Responsible AI Use

Model ethical and responsible AI implementation.

HUMAN INTELLIGENCE HI

Up to 20% — AI ASSIST 20

Up to 40% — AI INTEGRATE 40

Up to 60% — AI COLLAB 60

Up to 20% AI

Human created with little **AI**

Up to 40% AI

Human created with some **AI**

Up to 60% AI

AI created, **Human** modified

ABC AI Badging solution

0% AI

Human created

Up to 100% AI

AI created

Trust and Transparency in AI

1

Building Trust

Promote transparent use of AI in education.

2

Transparency Techniques

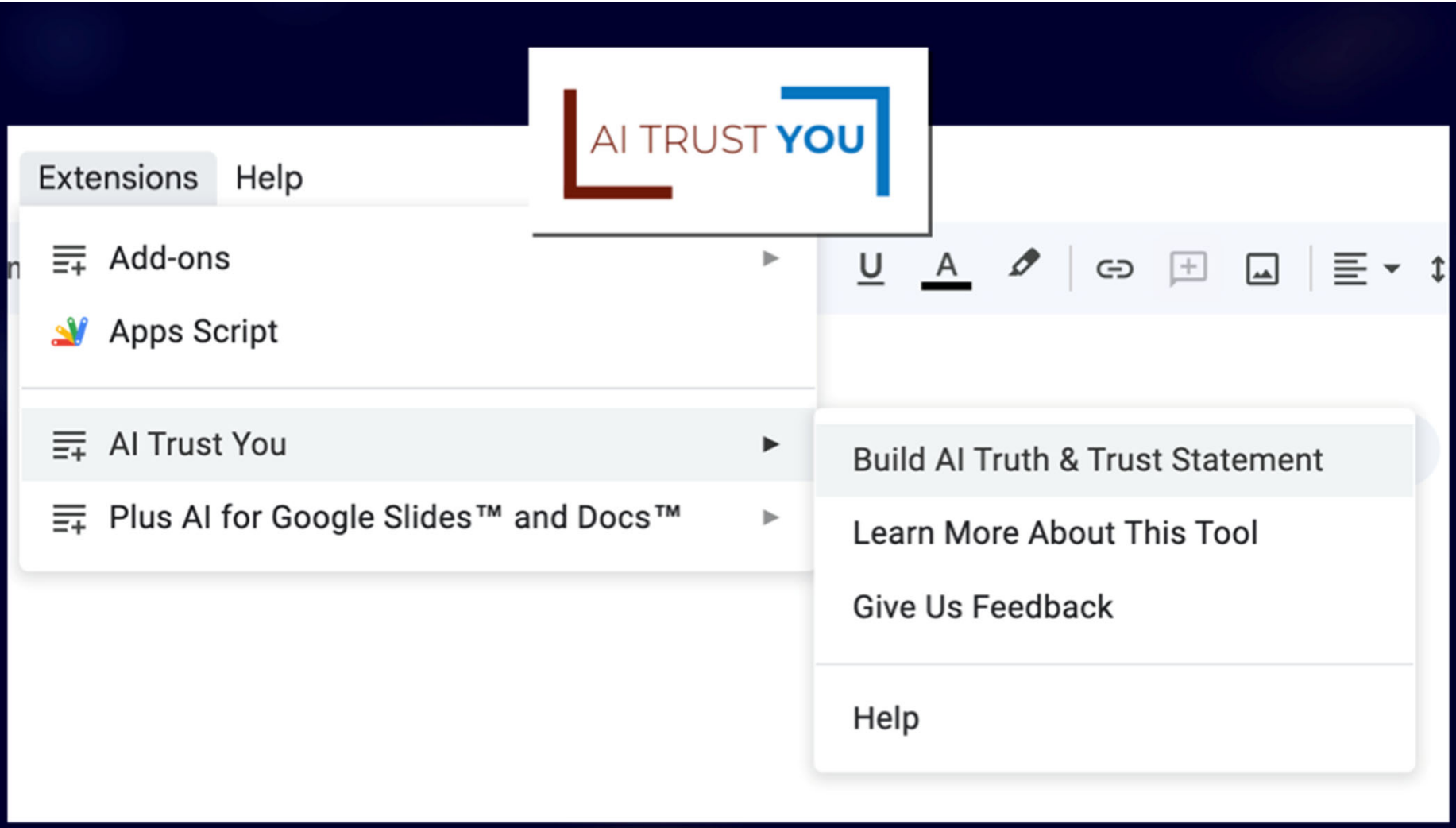
Initiate a conversation, not an accusation.

3

AI Trust You Add-on

Explore co-creation to leverage AI ethically in assignments

AI TRUST YOU


AI TRUST YOU
Extensions
Help
Add-ons
Apps Script
AI Trust You
Plus AI for Google Slides™ and Docs™
Build AI Truth & Trust Statement
Learn More About This Tool
Give Us Feedback
Help


AI TRUST YOU
Writing
Generate Ideas
Draft
Outline
Rephrase
Get Unstuck
Review/Provide Feedback
Analysis
Simplify
Translate
Summarize
Research
Research
Ask AI to make connections
Use AI to create a persona of an expert / historical figure and question them
Specify persona
Media
Generate Image
Produce Song
Create Video
Build Presentation

CETF
CALIFORNIA EMERGING TECHNOLOGY FUND

THANK YOU!

ABC
UNIFIED SCHOOL DISTRICT
60
Years of Service to Students

Mike Lawrence
Director, Info & Technology
abcusd.us/ai
mikelawrence.me

ABC AI INTEGRATE 40

AI in Education

Will it widen the digital design and use divides?

CALIFORNIA ASSOCIATION FOR LEADING INNOVATION IN EDUCATION

RAE FEARING, M.S.

Is It Only About Devices?

Equity is not created by access to technology alone.

It is created by intentionally planned learning experiences that promote deeper learning.

This is achieved through high quality professional learning, time, and support for educators.

Digital Design Divide

How consistently and effectively tools are used *across* classrooms?

Digital Use Divide

Are all students using technology to actively engage and deepen their learning?

AI Expands Opportunity When Design Is Intentional

Personalization

Real-time feedback tailored to each learner

Language & Access

Supports for multilingual and diverse learners

Multiple Means

Varied ways to engage and demonstrate learning

Deeper learning

Active, creative, and critical technology usage

AI helps close gaps when educators are supported to design learning intentionally.

The Gap Widens When Teachers Are Left To Figure It Out Alone

> An AI tool is deployed to all classrooms the same, the learning opportunity is not

01

Intentional instructional design

02

Shared definitions of effective use

03

Collaborative, ongoing support

The Greatest Risks Are Systemic

Instructional Design

Students in the same school may receive dramatically different opportunities depending on their teacher's confidence or training with AI.

AI Literacy & Foundations

AI foundational skills and literacy vary by teacher. Shared understanding and expectations need to be established.

Data & Safety

Build clear policies around data privacy, transparency, and ethical AI use. Monitor impact using evidence of learning not just usage data.

> Risks are amplified when adoption outpaces preparation

Build educator capacity with AI

Schools that do:

- integrate AI into instruction intentionally
- support diverse learners more effectively
- adapt faster to change
- make better decisions about technology investments

Schools that do not:

- rely on inconsistent classroom practices
- experience tool fatigue and turnover
- struggle to demonstrate impact on learning
- widen inequities across classrooms and communities

The Next Opportunity Gap

Supported vs. Unsupported Systems

The difference will be in how well schools build capacity to address the digital design and use divides.

If we build educator capacity and clear expectations, AI can help close achievement gaps. If we do not, it risks widening them.

Effective Technology Guidelines

The guidelines help schools move from intention to implementation:

Be intentional

Adopt AI aligned to learning goals, not novelty

Build consistency

Set shared expectations for use across classrooms

Monitor impact

Measure effect on student learning and barrier removal

Learn more: **joincalie.org/effective-technology-guidelines**

CALIFORNIA ASSOCIATION FOR LEADING INNOVATION IN EDUCATION

Rae Fearing, M.S.

rfearing@joincalie.org

707-218-6503

Artificial Intelligence Investment and Economic Risk

Lenny Mendonca

Director CETF

Former Chief Economic and Business Advisor for Governor Gavin Newsom

Senior Partner Emeritus, McKinsey and Co.

Martin Neil Baily

Brookings Institute Sr Fellow Emeritus

Senior Advisor, McKinsey Global Institute

CENIC Artificial Intelligence Resource (CENIC AIR)

Louis Fox

Member, CETF Board of Expert Advisors

President and CEO, Corporation for Education Network Initiatives in California

Tom DeFanti

Professor Emeritus

University of Illinois Chicago and University of California, San Diego

Joy Sterling

Member, CETF Board of Expert Advisors

CEO, Iron Horse Vinyards

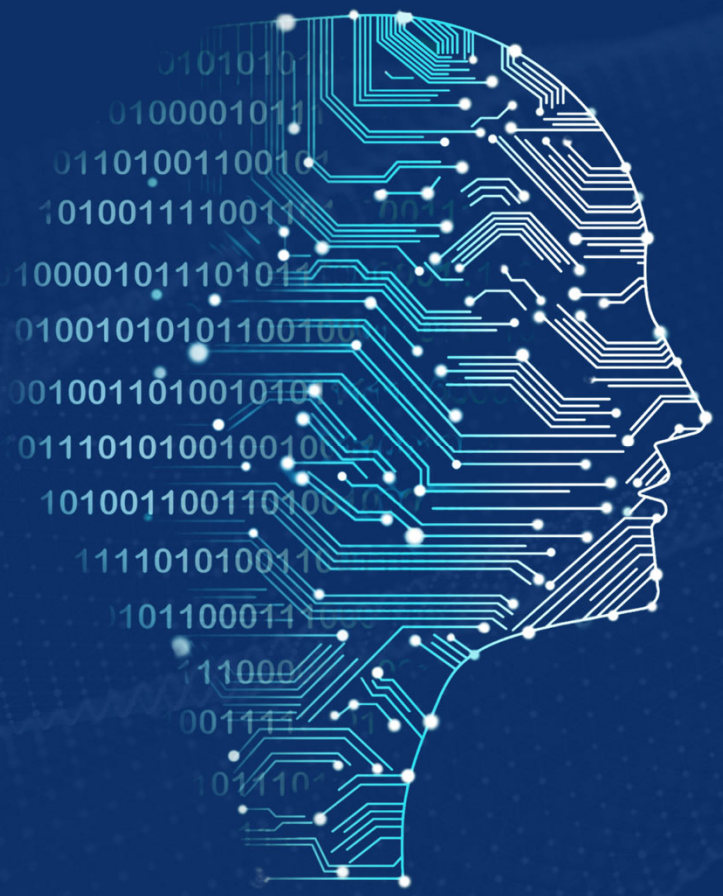
Data Center Environmental Impacts

Cynthia Mackey

Member, CETF Board of Expert Advisors

CEO, Winning Strategies

Chair, Tech Exchange



AI: Powered by Data Centers

1. What Is A Data Center
2. AI Data Center: Issue Summary
3. Energy + Water Needs
4. Data Center Locations

What is a Data Center

- Processing of each request occurs in ‘the cloud’, i.e., cloud computing, not your computer.
- Large warehouse facilities house these computers aka server farms
- The energy required to power AI data centers, and *fresh* water required to cool the specialized processers and graphic processing units (GPUs) are equivalent to heavy manufacturing plants in industries

Resource Usage

The runaway growth of AI has strained resources. Pre-pandemic forecasts did not take into account the growth of AI.

Environmental Harm

The placement of AI data centers have been rabid with little to no future thought of the following:

- communities already suffering from long term harm
- depletion of resources, increase of bills

Issue Summary

Energy Planning

Former energy sources that were considered harmful are being revisited:

- nuclear facilities
- reopening of coal mines
- diesel engines for fast rollout

Low Regulation

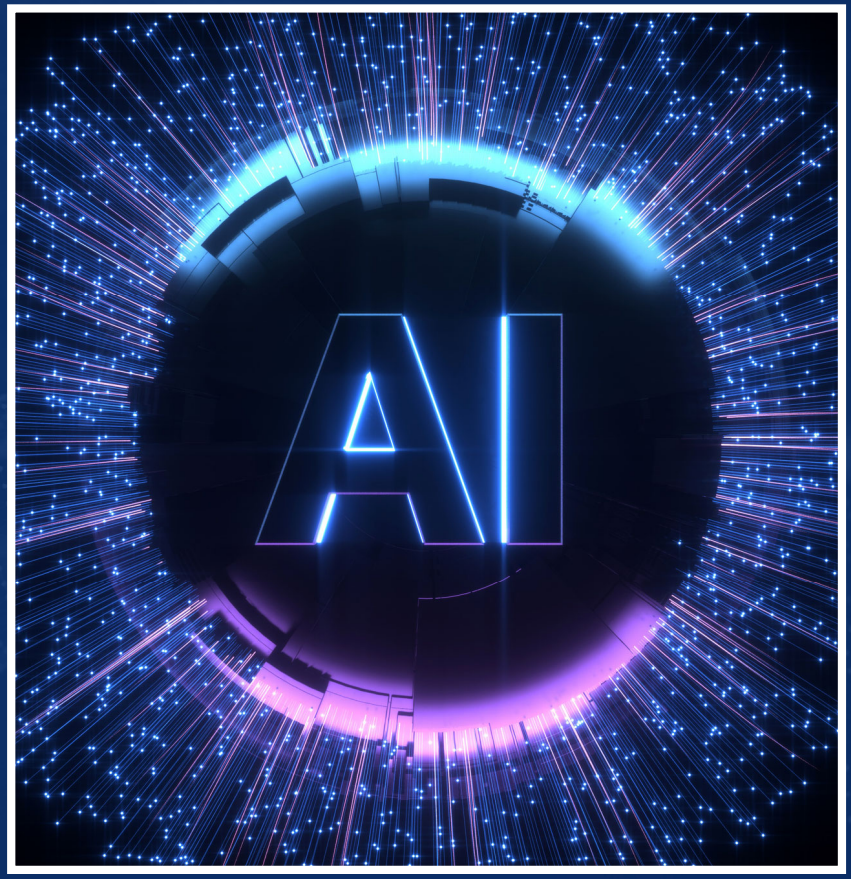
AI Data Center brought local growth in exchange from reduction of permits and little to no regulation:

- Jobs for low income communities
- Increase in small businesses

How much energy are we talking?

By 2028, data centers could consume up to 12% of total electricity in the United States, up from 4.4% in 2023, increasing from 176 Terra Watt Hours (TWh) up to potentially 580 TWh - the equivalent of adding eight New York City's to the country."

- Source: Regional Plan Association



How much water are we talking?

- Brookings Report also estimates 300,000 gallons of water a day, the equivalent of 1000 households.
- Hyperscaler AI centers can consume as much as 5 million gallons a day, or the equivalent of a town of 50,000 residents.
- Water cooling needs are projected to grown by 870% in coming years.

- Source: Brookings Institute

The Importance of Responsible AI

CETF Questions

What guardrails are needed to make data center growth fair and transparent?

How do we grow AI without trading community health for innovation?

How do we stop AI data centers from becoming the next environmental injustice?

Regulation

- **Communities are learning and pushing back forcing understanding & regulation**
- **An estimated 25 data center projects were canceled in 2025 alone**
- **California has 2 bills: AB 93 and AB222**
- **California Data Centers**

Technology Efficiency

Research to reduce the drain on resources include:

- **Mini nuclear reactor solutions**
- **Data centers in space (caution needed here too)**

Observations and Conclusions

Moderator

Carlos Ramos

CETF Directors, Expert Advisors, AI Panelist

Curated Questions from Chat

Feedback Survey

https://forms.office.com/r/2VCqMfu5bq