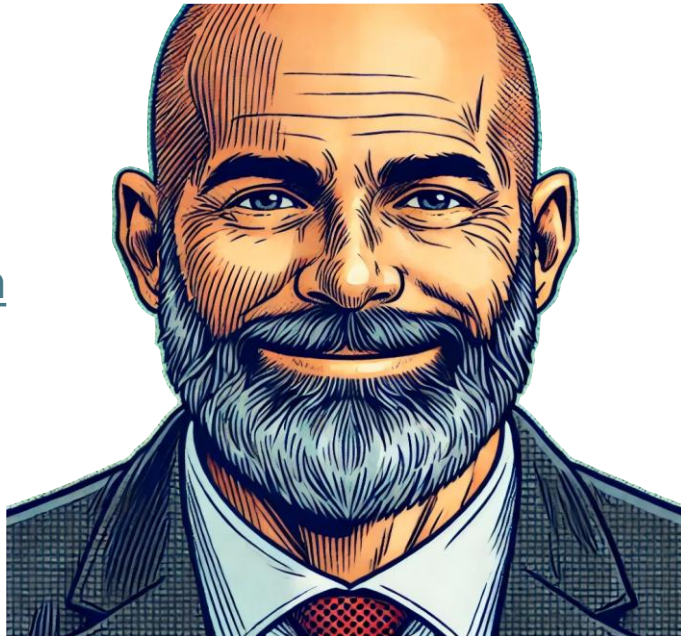


# Generative AI for School Boards: Opportunities, Risks, and Governance

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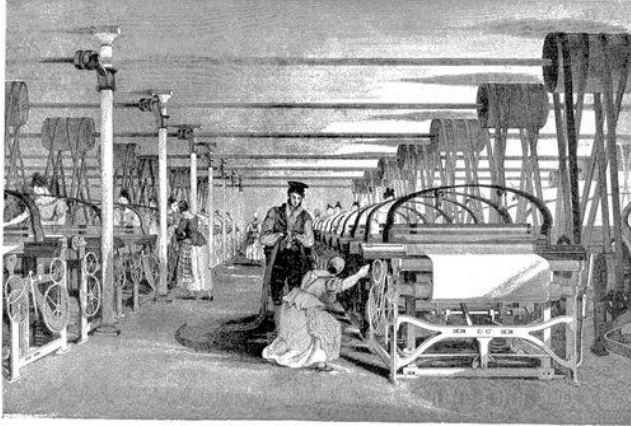


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# Four Industrial Revolutions



A period of massive economic, technological, social, and cultural change

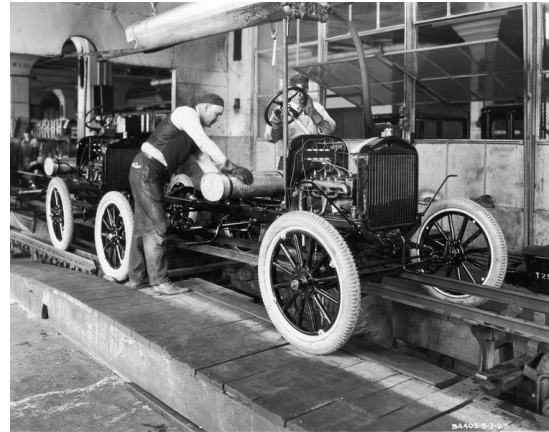


1800s 1<sup>st</sup>

Industrial Revolution

**Mechanization**

- Hand production to machine
- Water and steam power

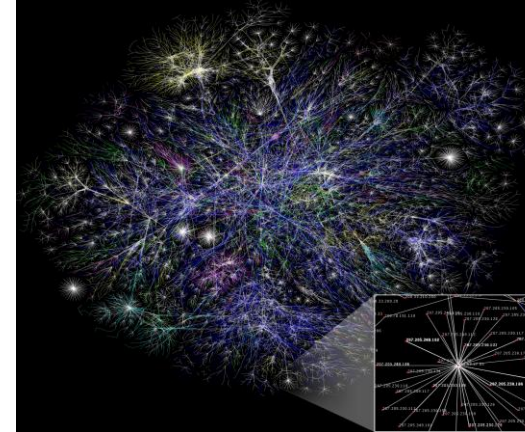


1900s 2<sup>nd</sup>

Industrial Revolution

**Factories**

- Urbanization
- Middle class
- Literacy Rates + Professionals: engineering, economics, & the natural sciences



2000s 3<sup>rd</sup>

Industrial Revolution

**Digital**

- Passive (print, radio, and TV), to interactive and instant (Internet and Mobile devices)
- Remote workers
- eCommerce



**Today** 4<sup>th</sup>

Industrial Revolution

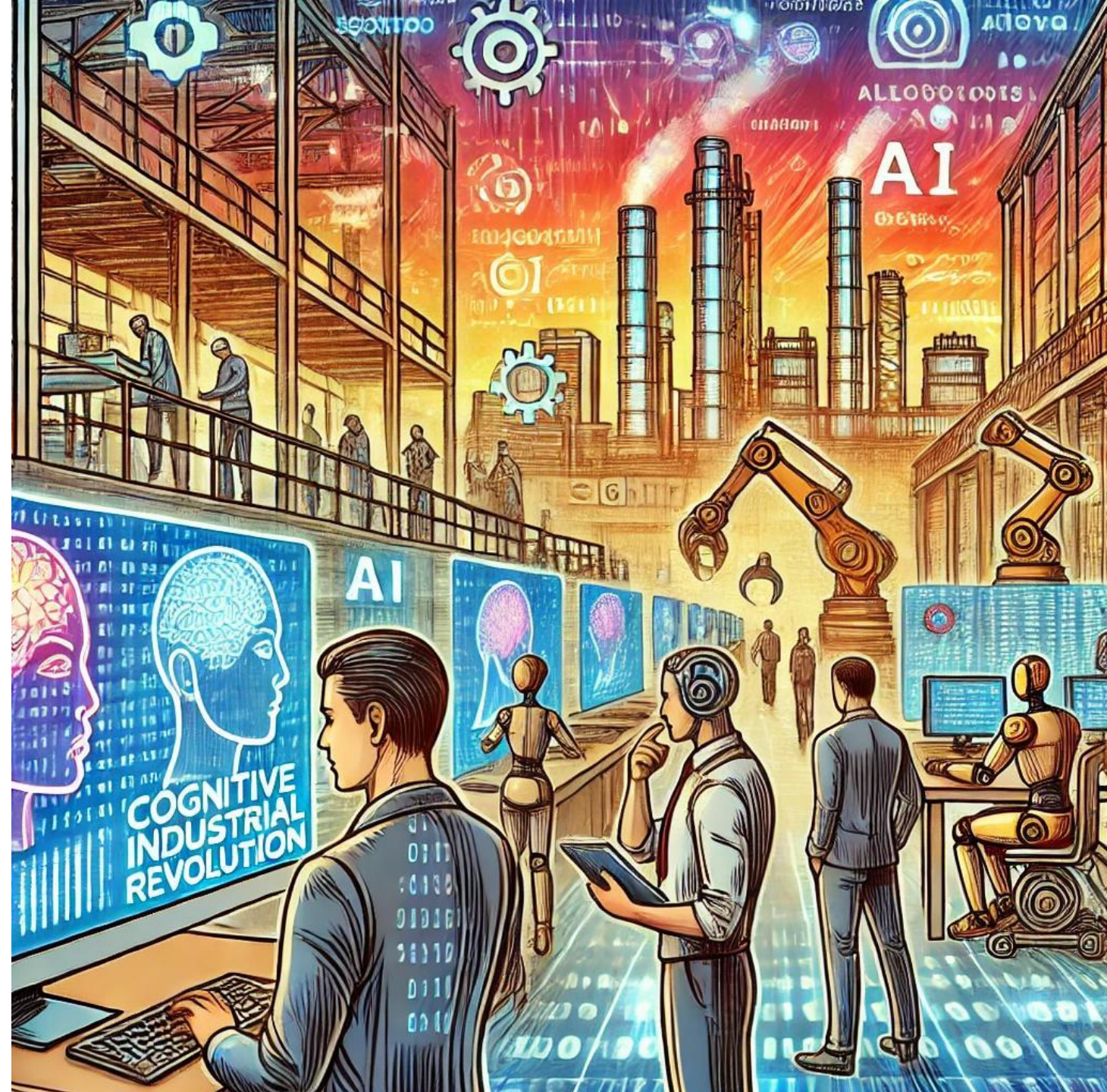
**AI, VR, IoT**

- Audio, video, and language-based communication, reasoning, analysis, sales, and marketing.

# Fourth Cognitive Industrial Revolution

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- **Intellectual Capital Over Physical Assets:**
  - Wealth tied to intellectual property, data, and the ability to leverage cognitive technologies. T
  - Creativity, innovation, and the ability to adapt to and manage new technologies over physical assets.
- **Distributed and Decentralized Wealth:**
  - Wealth distribution more decentralized, digital assets, and AI-driven entrepreneurship.
- **Shift in Labor Markets:**
  - High-value work is defined cognitive skills, emotional intelligence, and the ability to work alongside AI.
- **Lifelong Learning:**
  - Focus on cognitive skills, adaptability, and emotional intelligence and AI-Enhanced Learning





# What is Machine Learning?

- A program to learn from and make decisions based on a set of data, rather than following explicitly programmed instructions. It can analyze patterns in data, learn from them, and make predictions or decisions.
- Think of machine learning like a highly adaptable employee. Just as a new staff member learns and grows in their role by observing, experiencing, and reacting to various situations, a machine learning system 'learns' by analyzing large amounts of data. Over time, it gets better at identifying patterns and making decisions based on that data.



# Gen AI Requires Human Decision Makers

- "But a large language model is not a writer; it's not even a user of language. Language is, by definition, a **system of communication**, and it requires an intention to communicate."
- "It is very easy to get ChatGPT to emit a series of words such as "I am happy to see you." There are many things we don't understand about how large language models work, **but one thing we can be sure of is that ChatGPT is not happy to see you.**"
- Kane Simms, AI Strategic Consultant



# AI is NOT happy to see you.

- <https://www.nbcnews.com/tech/characterai-lawsuit-florida-teen-death-rcna176791>

## Teen, 14, Dies by Suicide After Falling in 'Love' with AI Chatbot. Now His Mom Is Suing

MEGAN GARCIA SUED CHARACTER.AI, ARGUING IT HAS "TARGETED THE MOST VULNERABLE MEMBERS OF SOCIETY - OUR CHILDREN"

By ADAM CARLSON

Published on October 24, 2024



Sewell Setzer III PHOTO: United States District Court

A Florida mom has sued a popular, lifelike AI chat service that she blames for the suicide of her 14-year-old son, whom she believes

# Unmasking Deepfakes: Legal Insights for School Districts

BY: Alex A. Lozada, Paul Z. McGlocklin

AALPR Law Clerk



## LOCAL NEWS New Jersey high school student of making AI-generated porn images of classmates

CBS NEWS  
NEW YORK

By Tim McNicholas

Updated on: November 2

## Parents sue son's high school history teacher over AI 'cheating' punishment

The legal complaint said using artificial intelligence to assist in crafting an outline didn't violate school rules at the time.

How do we heal  
and rebuild trust?

- How does the district respond and how important is the speed of the response?
- What does the law say about deep fakes and reporting?
- How should schools approach discipline for misuse of deepfake technology?
- Defamation of teachers, administrators, and other members of the school community impacts community trust.
- How do you handle cyberbullying and harassment of students, particularly young women?
- What is the appropriate response to the creation and circulation of deepfakes?

FOX 26  
HOUSTON

Live News Weather More

## Houston-area student accused of creating 'deep fake' explicit photos of teacher, sharing them online

By Matthew Seedorff | Published April 13, 2023 9:04pm CDT | Houston | FOX 26 Houston



FOX 26  
9:01 69°

KLEIN ISD STUDENT ACCUSED OF CREATING FAKE NUDE PHOTOS OF TEACHER

# Campus Under Siege



SCHOOL CAMPUS

THREATS WITH AI



**No responsible adult** would hand over a set of car keys to their child and say figure it out on your own!

So why are responsible leaders allowing AI in our schools without comprehensive training, guard rails and support?





LEADERSHIP  
UNCERTAIN  
FUTURE

COMPLEXITY

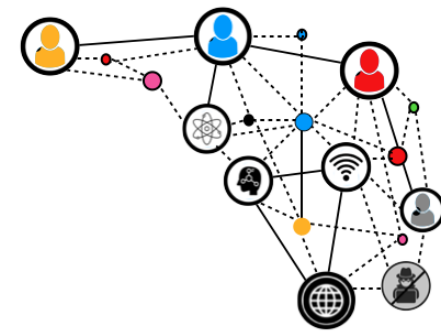
**LEADERSHIP  
FOR THE FUTURE**  
EXPLOSIVE  
CHANGE

LEADING  
REMOTE TEAMS

Opportunities for the Future



# Generative AI can boost worker productivity ...



## Three conditions in MIT Study:

- no access to AI,
- access to GPT-4 AI,
- access to GPT-4 AI with an overview of **how to use GPT.**

# 40%

Share ↗

*Generative AI can improve a highly skilled worker's performance by as much as 40% compared with workers who don't use it.*

Rather than blindly adopting AI outputs, ...

**...validate AI and exert “cognitive effort and experts’ judgement when working with AI,”**

**but organizations must first establish a culture of accountability, reward peer training, and encourage role reconfiguration.**



# How does that work?

<https://www.nmlegis.gov/Legislation/Legislation?chamber=H&legType=B&legNo=63&year=25>

HB0063: Changes the funding formula for public schools

Prompt 1: Read, understand, and give me key takeaways.

Prompt 2: Act as a school board member of a small, rural district. What are the impacts of this bill on my district and what are three questions for the bill's sponsor?

# Considerations

It is not the Board's job to create the document, but it is your responsibility to be sure it exists.



# Start with Core Principles

- **Vision & Mission Alignment:** AI should empower you to achieve the district's goals.
- **Monitoring & Accountability:** As a Board, you are responsible to ensure the district has a plan.
- **Privacy & Security:** Align with FERPA and state laws to protect student and staff data.
- **Human Oversight:** AI should **assist, not replace** educators and administrators.



# Define Clear AI Use Cases

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- Instructional Support (e.g., AI tutoring, personalized learning)
- Administrative Efficiency (e.g., automating emails, data analysis)
- Policy Enforcement (e.g., AI for cybersecurity, monitoring attendance)
- HR & Hiring (e.g., AI-assisted screening of applicants)



# Address AI Risks & Guardrails

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- **Data Privacy & Ownership:** Who owns AI-generated work?
- **Bias & Ethical Use:** Require human review of AI-driven recommendations.
- **Plagiarism & Misinformation:** Set clear guidelines for AI use





# Clarify Who Can Use AI & How

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- Students? Teachers? Administrators?
- What level of supervision is required?
- Should AI use be **disclosed** when applied in decision-making?



# Stay Aligned with Legal & Ethical Guidelines

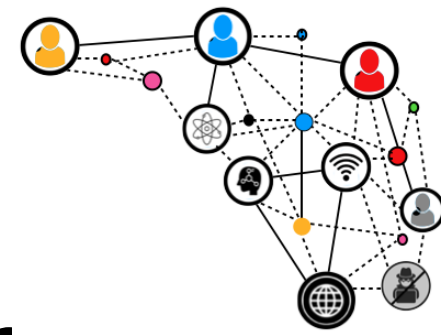
- Follow **New Mexico Public Education Department (NMPED)** guidance.
- Align with **district technology policies** and **state laws**.
- Regularly update policies as AI regulations evolve.



# Provide Training & Professional Development

- Train staff to use AI responsibly.
- Teach students about AI literacy (what AI can/cannot do).
- Offer **real-world AI scenarios** to staff and board members.

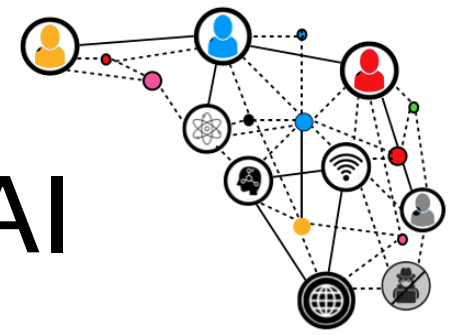




## Require Periodic Policy Reviews

- AI evolves **rapidly**—policies should be reviewed **annually**.
- Gather **feedback** from teachers, students, and parents.
- Adjust policies based on AI advancements and case studies.





# How Districts Are Using Generative AI

- Policy Development in Miami-Dade
- School GPS Planners in Virginia
- Food Service Directors in Houston
- Chief Financial Officers and Procurement in West Palm Beach
- Chief Human Resource Officers in Baltimore

CoSN & the Council of the Great City Schools present:  
**K-12 Gen AI Maturity Tool**  
November 2024

## K-12 Generative AI Readiness Maturity Rubric



1. EXECUTIVE LEADERSHIP
2. OPERATIONAL READINESS
3. DATA READINESS
4. TECHNICAL READINESS
5. SECURITY READINESS
6. LEGAL/RISK MANAGEMENT
7. **ACADEMIC AI LITERACY**



<https://www.cosn.org/ai/>

amazon

