Generative Tech in K-12 Education
Industry Hype, Classroom Impact, and Educator Cybertraps

Frederick S. Lane

NASDTEC Annual Conference
Charlotte, NC
17 June 2025

A Torrent of AI News [Page 1]

- "AI Could Consume More Power than Bitcoin by the End of 2025," Slashdot, 31 May 2025
- "CEO warns AI could wipe out 1 in 2 white collar jobs in five years," NY Post, 31 May 2025
- "Don't fear the AI reaper—jobs panic is way off base," NY Post, 30 May 2025
- "Misty Her admits list of alleged personal attacks by teachers union was AI generated," ABC30 Fresno, 30 May 2025

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A Torrent of AI News [Page 2]

- "Superintendent indicted after not reporting teacher who made AI porn of students, DA says," WLOX, 23 May 2025
- "Maine teachers are starting to use AI. One student says it's hurting her education," WGME, 21 May 2025
- "Duolingo CEO says AI teaches better than humans—but schools will exist 'because you still need childcare,'" Fortune, 20 May 2025
- "Teacher quits profession after viral rant on how AI is 'ruining' education," Fox News, 14 May 2025

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From "Eliza" to the aiPhone

- Our Intense Desire to Play God
- "Eliza" (1966)
- The Slow Crawl to Machine Learning (1970-2000s)
- Neural Networks and Deep Learning (2010s)
- The GenAI Decade (2020s)
- The Sandman Cometh: Silicon-Based Intelligence [AGI/ASI] (2025? 2030?)

The Audacity of Hype

- EdTech and Silicon Valley Are All-In on AI
- It Sells Itself!!
- AI in the Classroom: Savior or Savonarola?
- The Mysterious Case of the Disappearing AI
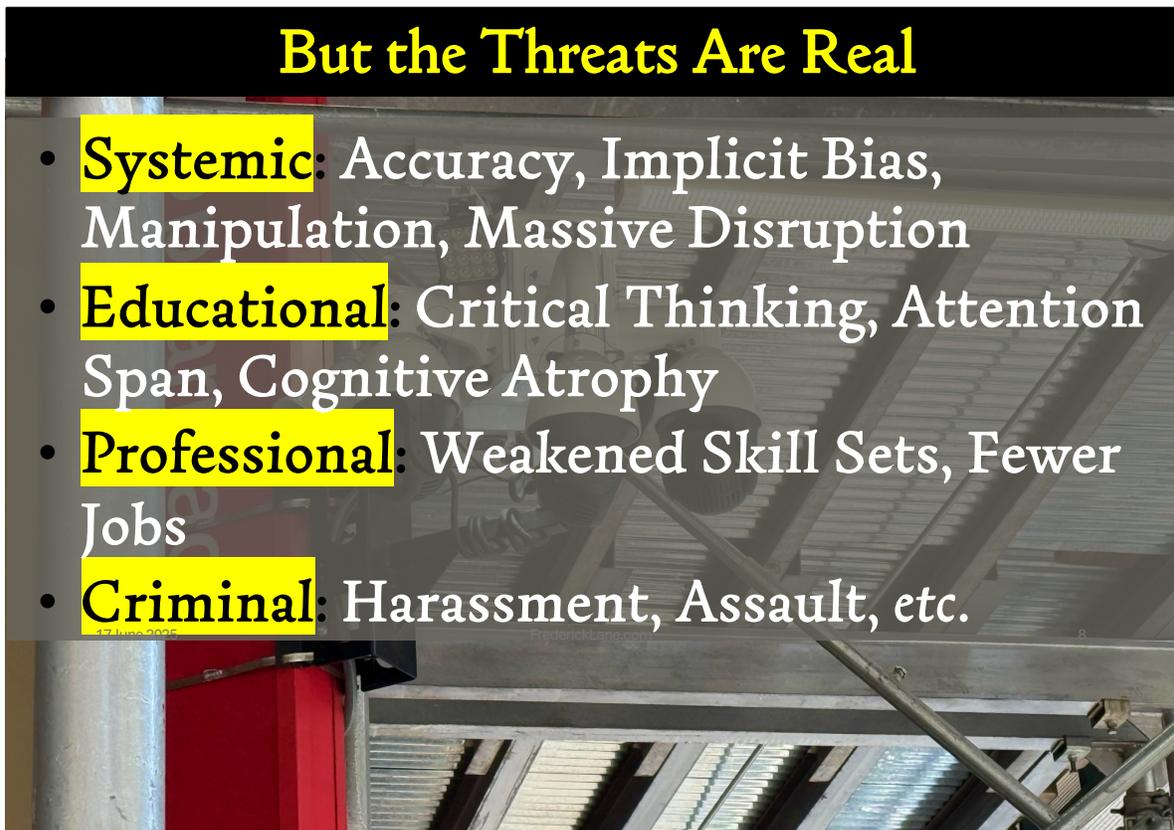- Who (or What) Will Teach Our Kids?

AI Offers Some Undeniable Benefits

- **For Teachers**: Speed, Flexibility, Efficiency, Professional Development
- **For Students**: Access, Personalization, Engagement, Creativity
- **For Administrators**: Data Insights, Low Cost (Real Costs Hidden)

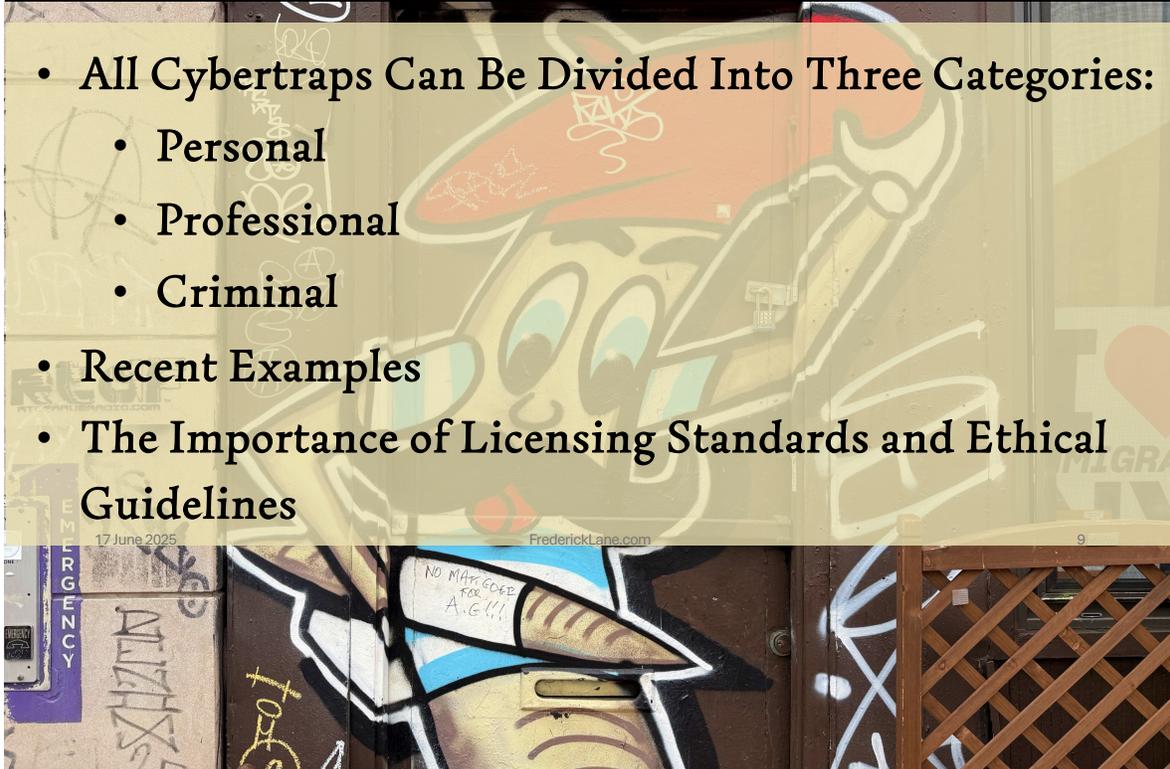17 June 2025   FrederickLane.com   7

But the Threats Are Real

- **Systemic**: Accuracy, Implicit Bias, Manipulation, Massive Disruption
- **Educational**: Critical Thinking, Attention Span, Cognitive Atrophy
- **Professional**: Weakened Skill Sets, Fewer Jobs
- **Criminal**: Harassment, Assault, *etc.*

New Tech, Familiar Cybertraps

- All Cybertraps Can Be Divided Into Three Categories:
  - Personal
  - Professional
  - Criminal
- Recent Examples
- The Importance of Licensing Standards and Ethical Guidelines

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National Initiatives on AI Ethics

- Growing Attention to the Ethical Challenges Posed by AI for Educators
  - Personal, **Micro**, **Macro**, Global
- Case Study: GA Professional Standards Commission
- Practical Recommendations

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The Model Code of Ethics for Educators

- Second Edition, June 2023

  - Principle III: Responsibility to Students

    - C.1: Respecting the privacy of students and the need to hold in confidence certain forms of student communication, documents or information obtained in the course of professional practice.

  - Principle V: Responsible and Ethical Use of Technology

    - C.1: Taking appropriate and reasonable measures to maintain confidentiality of privileged information and stored or transmitted educational records;

    - C.4: Protecting information from being shared with unintended third parties through technology.

Responsible Adoption and Implementation

- Clarity, Transparency, and Accountability
- Vetting and Collaboration
- Ongoing Professional Development
- Policies and Procedures to Mitigate Risks

"I'm Sorry, Dave. I'm Afraid I Can't Do That."

- The AI Future Is Now (or Was It Yesterday?)
- Will AI Have Its Smartphone Moment? Can It?
- Humans Retain Initiative – Let's Use It
- Fundamental Question: What Is Best for Students?

There's a Lot More to Discuss

- Email: FSLane3@Cybertraps.com
- LinkedIn: /fredericklane
- Slides, Additional Resources, *etc.* ➡️

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