



The Technology Ethic: Managing Risk in AI Adoption

F. Paul Greene, PhD, AIGP, CIPP/US/E, CIPM, FIP

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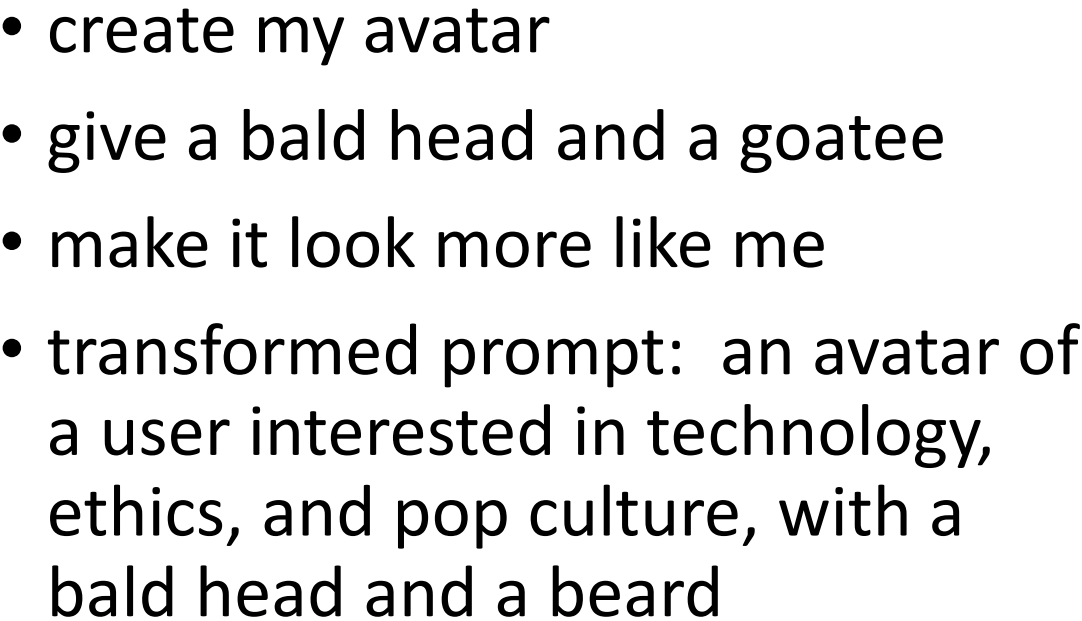




- Chair, Artificial Intelligence and New Technologies Practice Group
- Chair, Privacy and Data Security Practice Group
- Technology Litigator
- PhD, Germanic Languages and Literatures

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A decorative graphic in the top right corner consisting of several colored dots (blue, green, yellow, orange, red) arranged in a pattern that resembles a stylized 'L' or a corner bracket. The dots are of varying sizes and colors, with a prominent yellow dot at the top left of the cluster.



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What is AI?

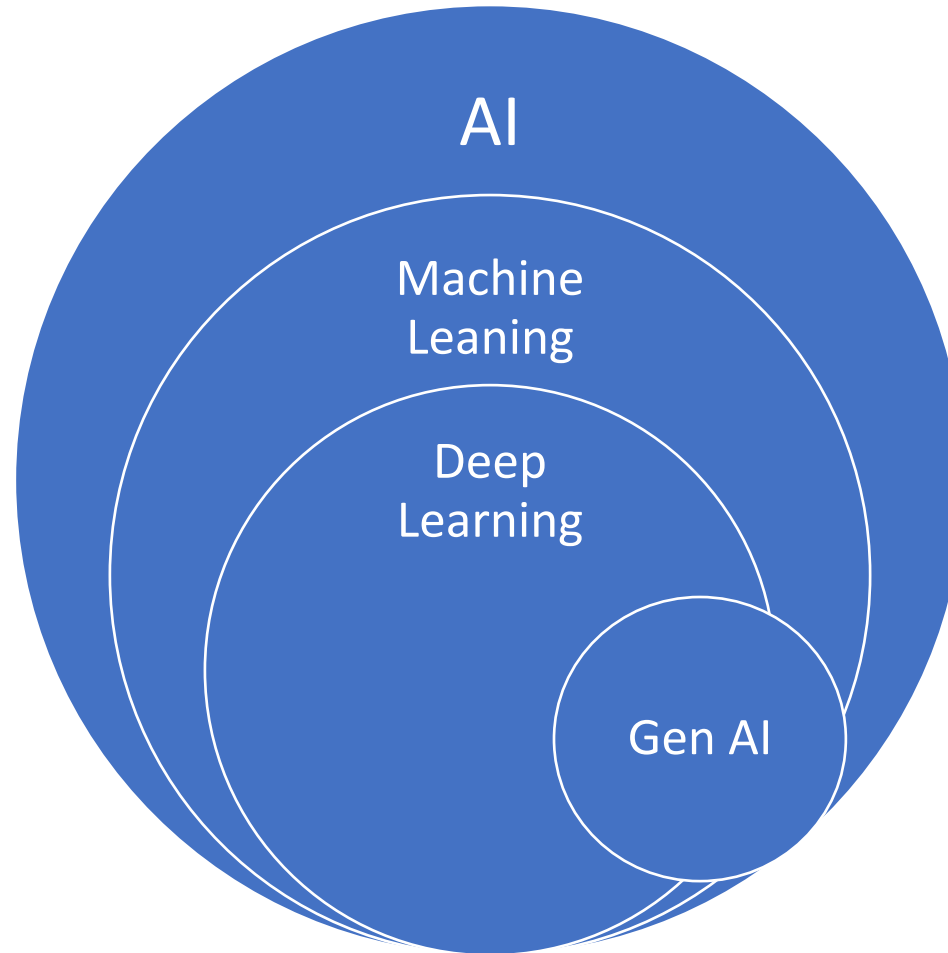
An engineered or machine-based system that can, for a given set of objectives, generate outputs such as predictions, recommendations, or decisions influencing real or virtual environments

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What is AI?



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What is AI?

- **Machine Learning (ML)**

- Enables machines to improve with experience
- Uses algorithms to learn from data and make decisions
- Requires structured data and human intervention
- Examples: linear regression algorithms, image recognition, propensity scores, behavior predictors and analytics

- **Deep Learning (DL)**

- Specialized ML with neural networks
- Learns from unstructured data (images, text)
- Needs large data sets and computational power
- Mimics the way a human brain operates – can process and learn from data
- Examples: deep blue, autonomous vehicles, image and speech recognition

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What is AI?

- **Generative AI**

- Creates new content (text, images, music)
- Employs ML and DL techniques
- Generates innovative outputs not explicitly programmed: chaos built in
- Examples: ChatGPT, Stable Diffusion, modern chatbots, DeepSeek

- **Key Differences**

- Data Requirements: DL > ML; Gen AI is only as good as its source data
- Learning Process: ML is guided; DL discovers patterns; Gen AI can repeat, accentuate, create bias
- Output: ML/DL interpret; Gen AI creates; hallucinates*

- **Agentic AI**

- Built on generative platform, hence exhibits same benefits and risks
- Can automate routine functions
- Legal and ethical grey zone: what can your AI agent agree to and who's responsible for its actions?



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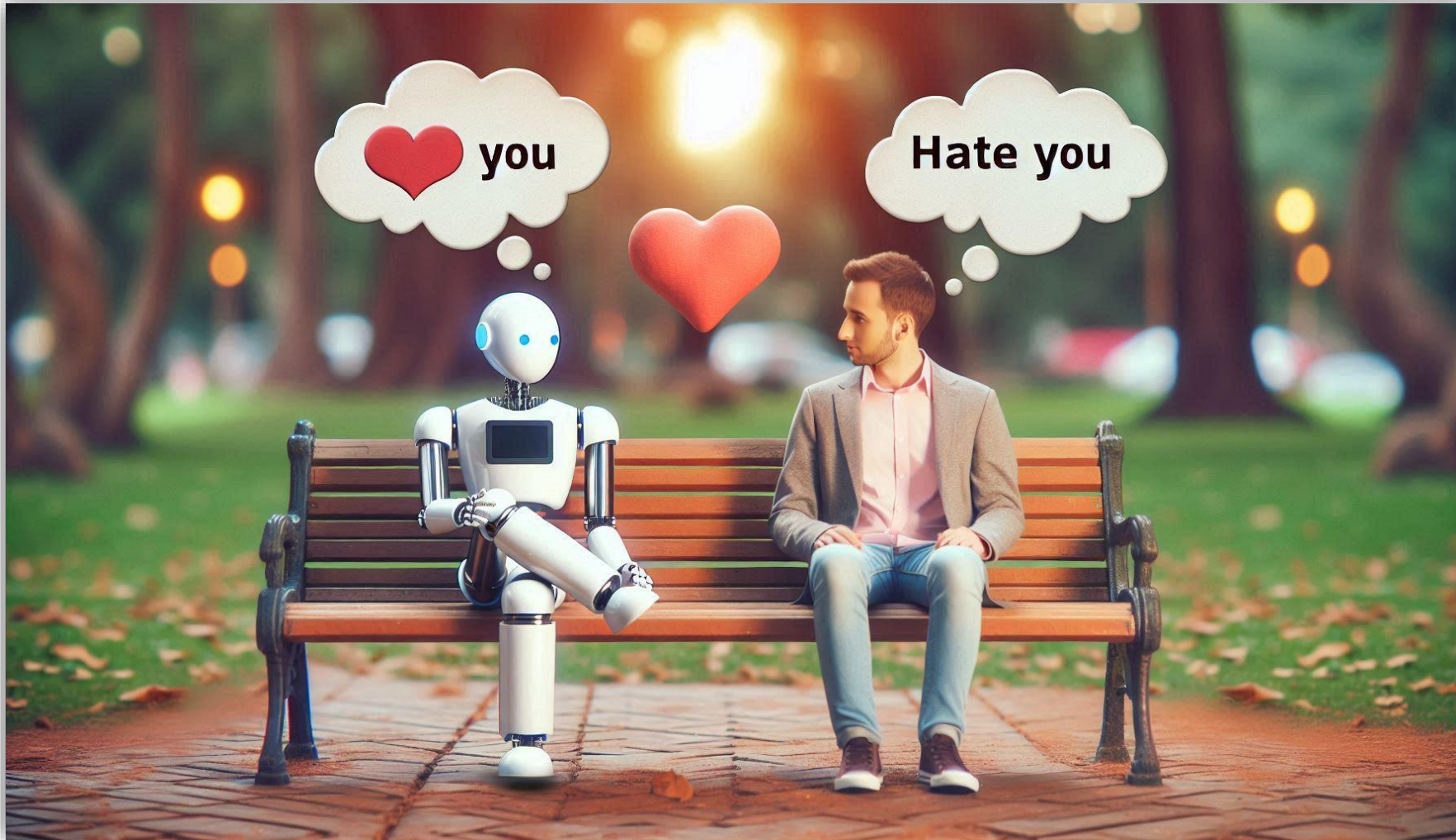
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All that glitters . . .



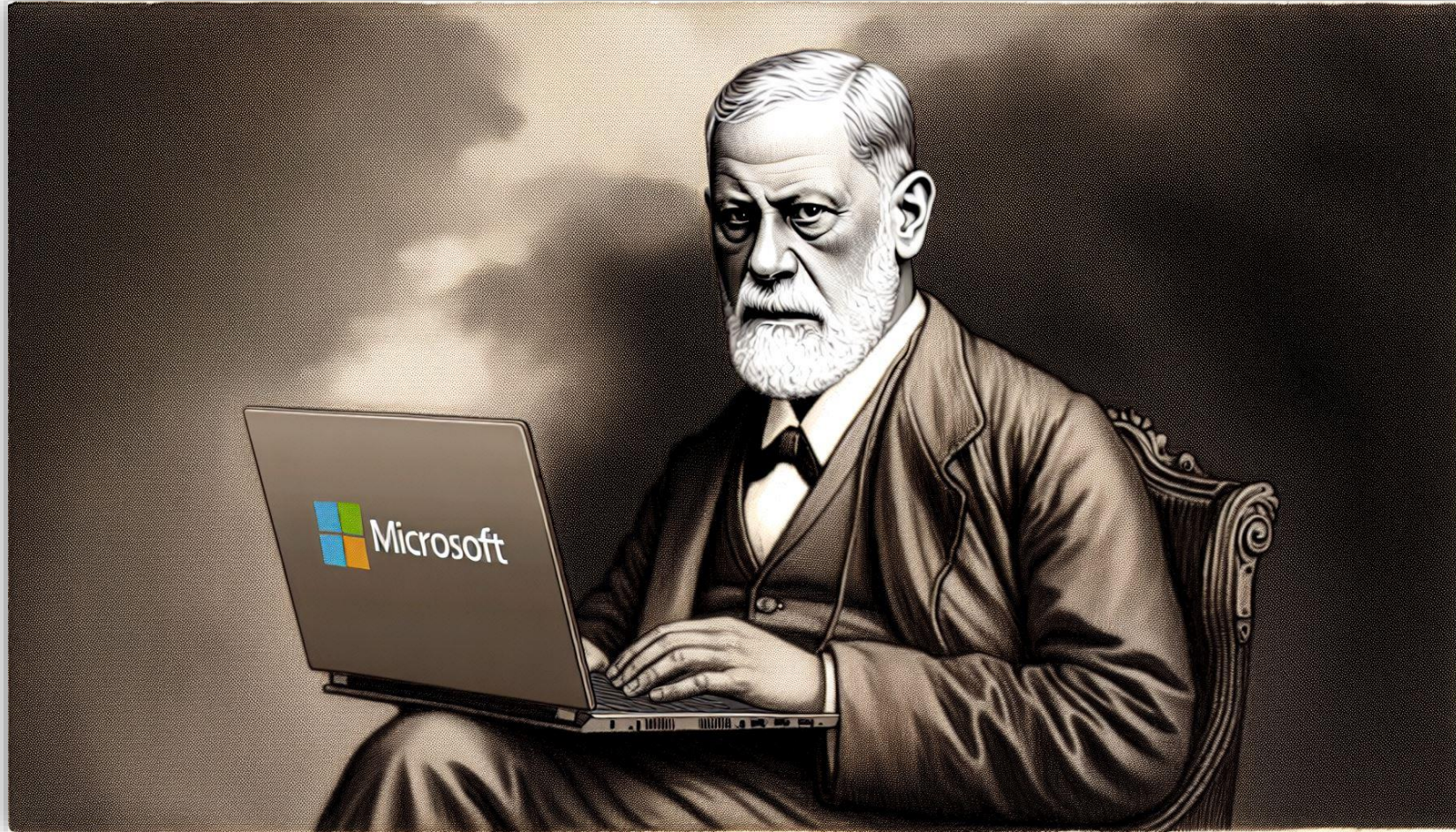
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Identifying the Problem: How Do We Feel About AI?



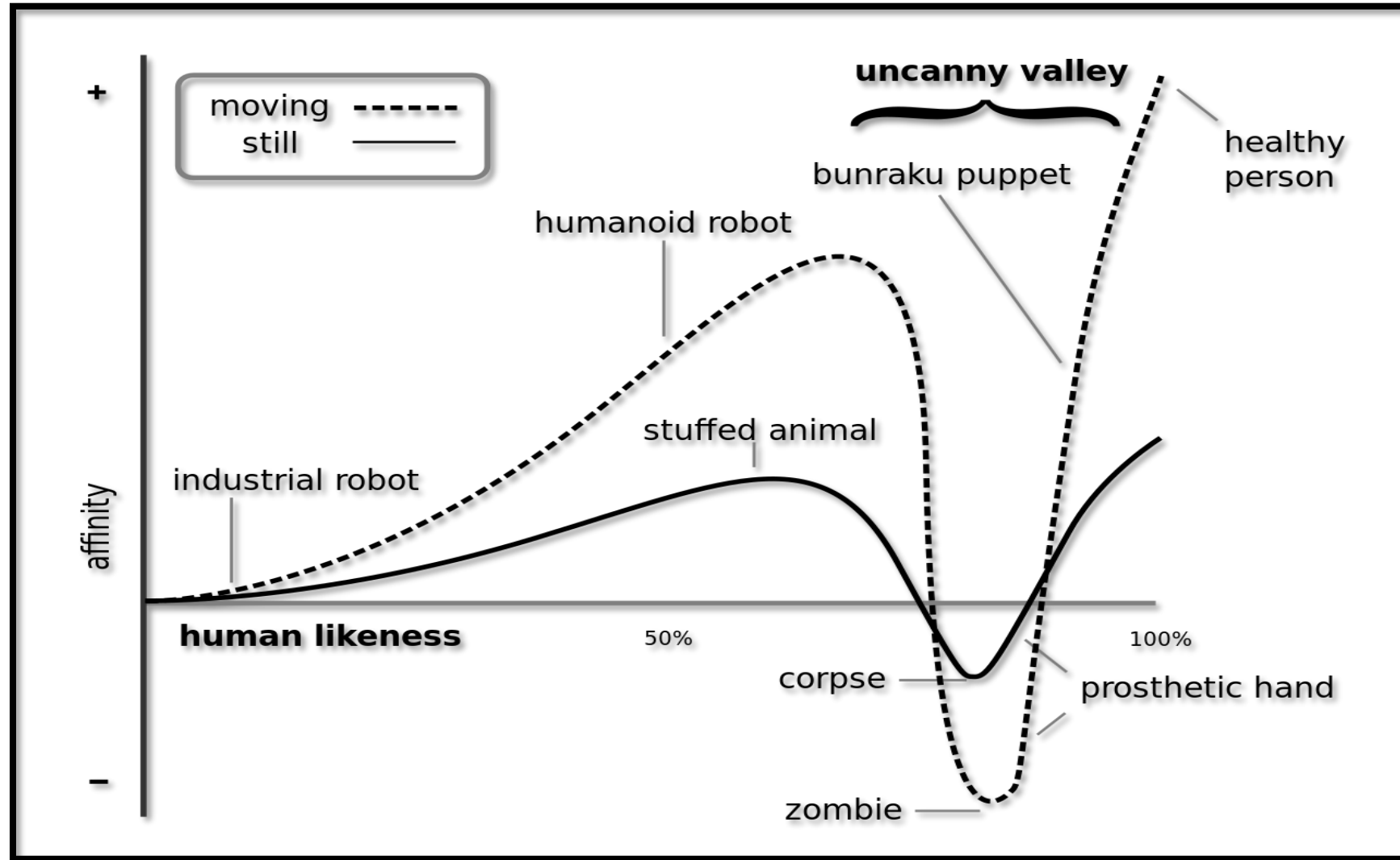
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Why the Love/Hate Relationship?



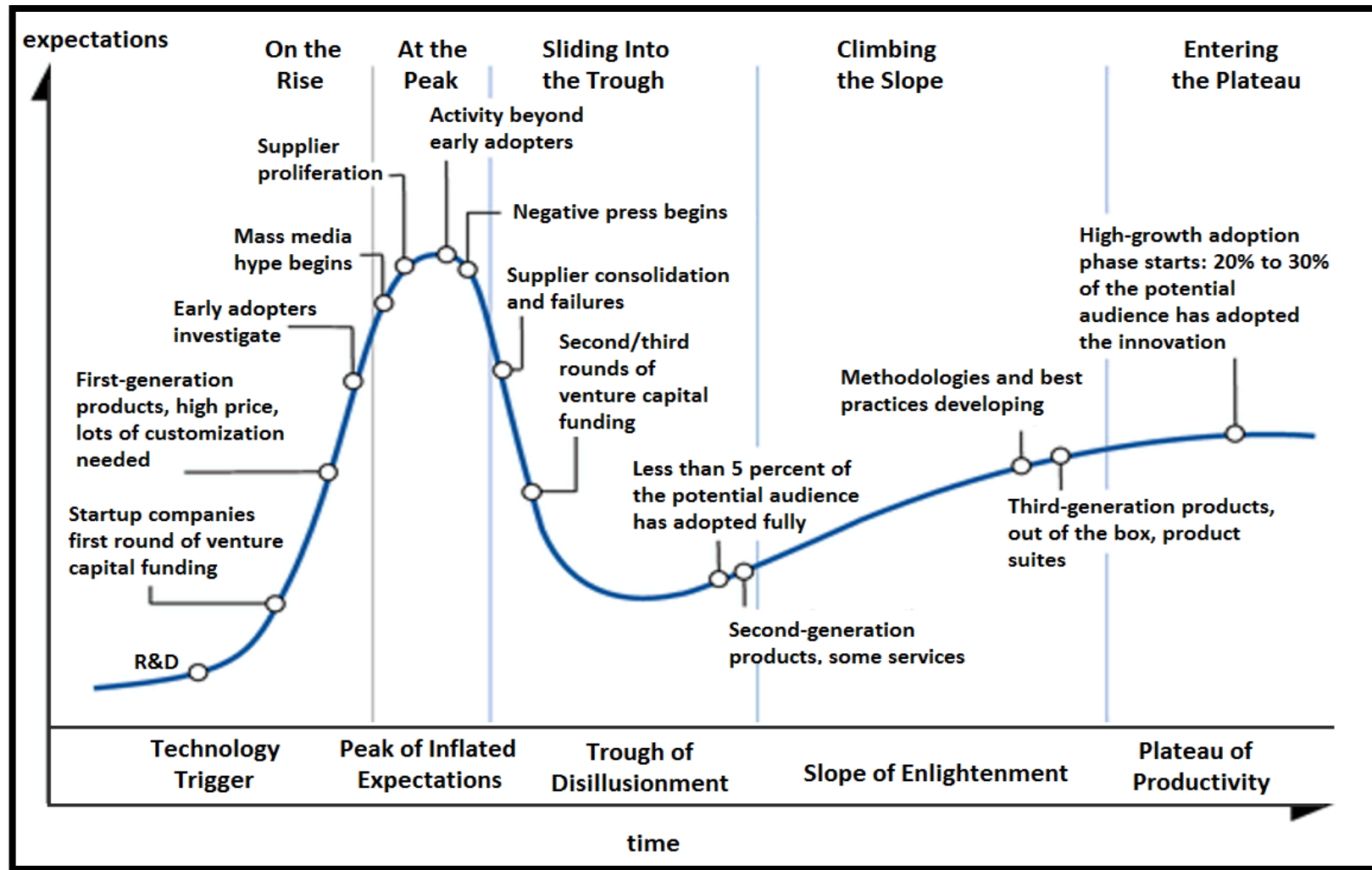
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The Uncanny Valley



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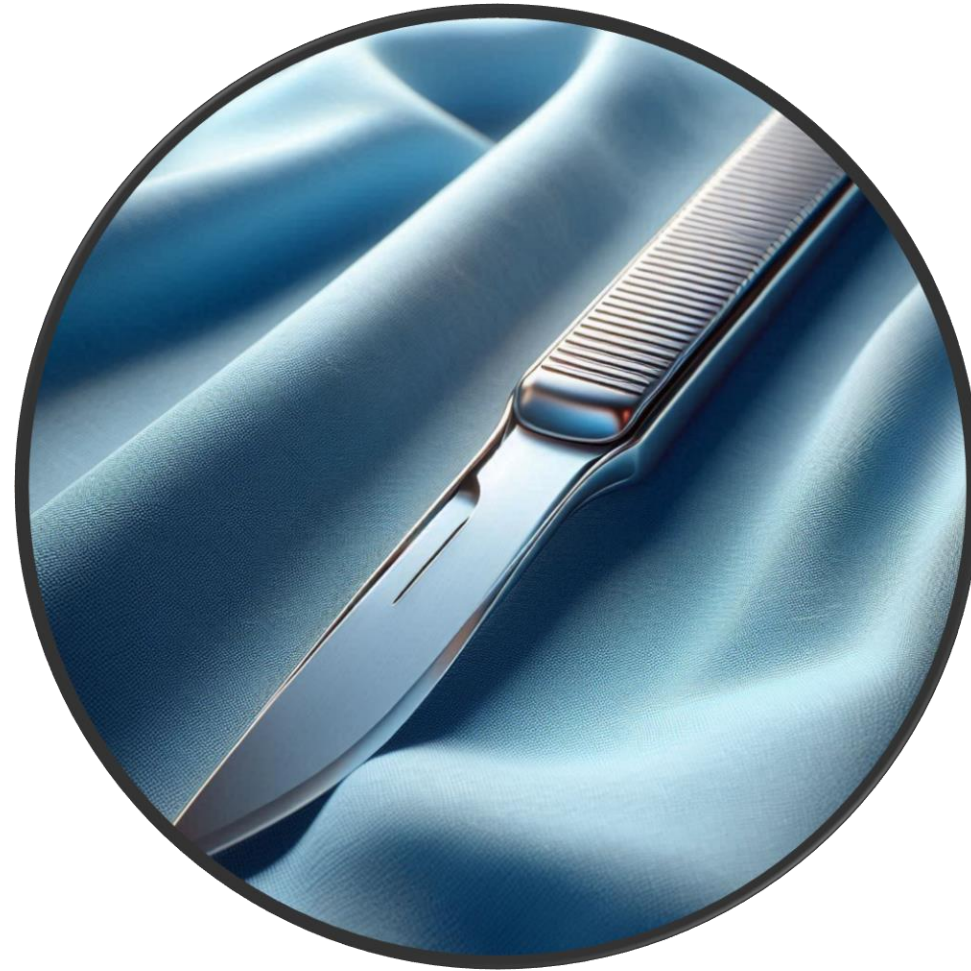
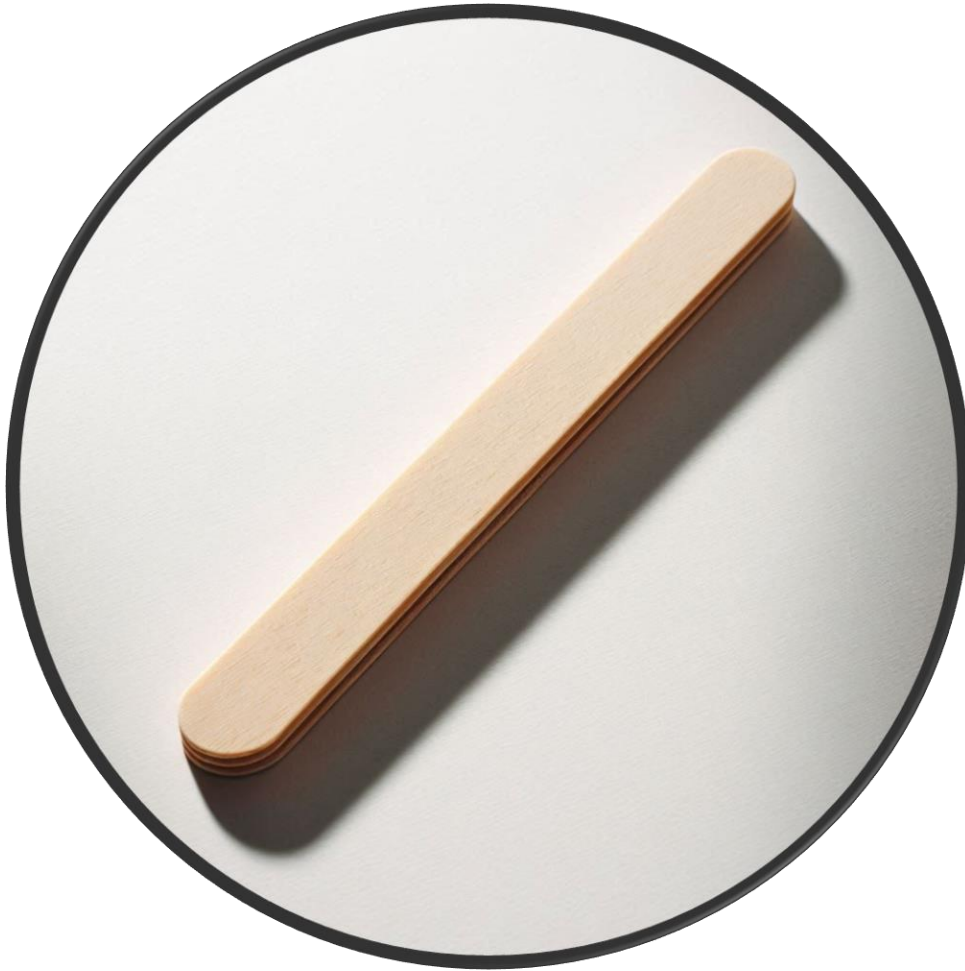
The Uncanny Valley

FOMO

FOBO

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Tools Create Risk



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How do we manage risk when
intelligence is involved?

Ethics:

from ethos, that which is
characteristic of the group

or

an accustomed place

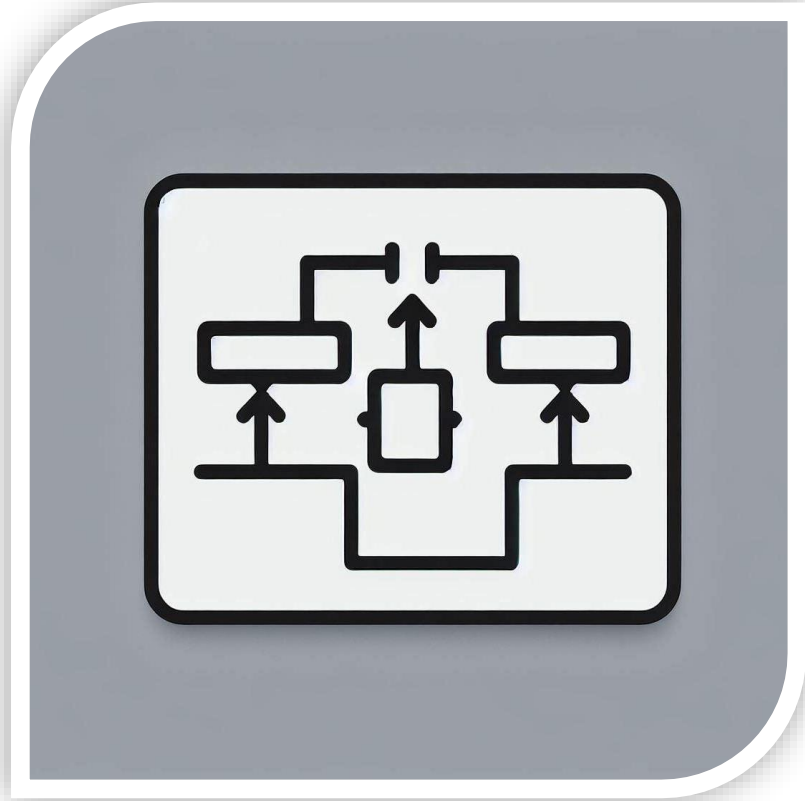
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How do we agree on AI ethics?

- Algorithm



- Heuristic

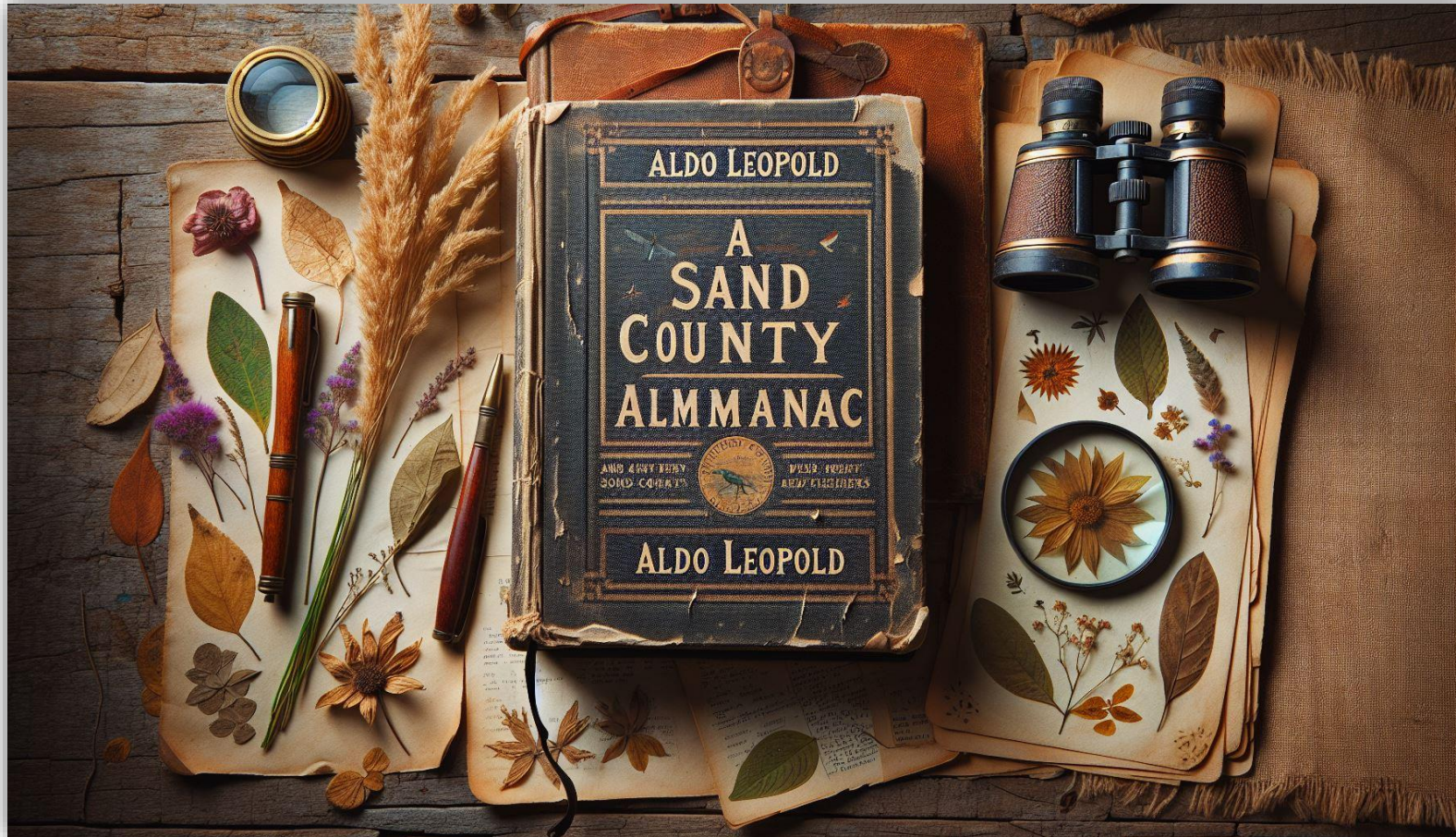


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How do we agree on AI Ethics?

- Algorithmic Risk, *e.g.*, risks arising from automated decision making
 - Automation bias
 - Biased inputs, biased outputs
 - Static, instantly obsolete
- Heuristic Risk, *e.g.*, risks from taking short cuts
 - Short cuts are hard to erase
 - The “unreasonable reliability of data”; using a “brilliantly stupid” tool
 - Getting the right answer for the wrong reason is not always right

How do we agree on AI Ethics?



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How do we agree on AI Ethics?

Asimov's three laws of robotics:

1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.
2. A robot must obey orders given it by human beings except where such orders would conflict with the First Law.
3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.

How do we agree on AI ethics?



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NIST AI RMF



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NIST AI RMF

NIST CSF

- Identify
- Protect
- Detect
- Respond
- Recover
- Govern

NIST AI RMF

- Govern
- Map
- Measure
- Manage

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NIST AI RMF

- NIST is a federal agency, and the AI RMF is written from that perspective
- Assumes critical mass to address AI risk, relevant SMEs, as well as time (and budget) to do the required work
- 71 subcategories, 19 categories, 5 functions
 - To be executed in a non-sequential fashion
 - Repeated as necessary
 - Based on establishment of KPIs, as well as measurement and analysis of those KPIs

NIST AI RMF

- Adapt, adopt, improve?
 - None of us will have a textbook application of NIST AI RMF
 - The right application is the one that moves the needle for your organization in the right direction:
 - More visibility, more diligence, more accountability *i.e.*, documentation
 - Pick and choose, or start on a high-level first
 - If all you can address are the 19 Categories, you are probably off to a good start

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NIST AI RMF

- Emulate
 - Watch this space: <https://www.nist.gov/itl/ai-risk-management-framework>
 - Most recent update, Gen AI RMF Profile: <https://airc.nist.gov/docs/NIST.AI.600-1.GenAI-Profile.ipd.pdf>
 - Implement a maturity model: <https://ieeeusa.org/product/a-flexible-maturity-model-for-ai-governance/>
 - Watch others in your industry
 - Ask vendors for their RMF compliance documentation

GDPR Privacy Principles

- Lawfulness, fairness, transparency
- Process limitation
- Data minimization
- Accuracy
- Storage limitation
- Integrity and Confidentiality (and don't forget Security)
- Accountability

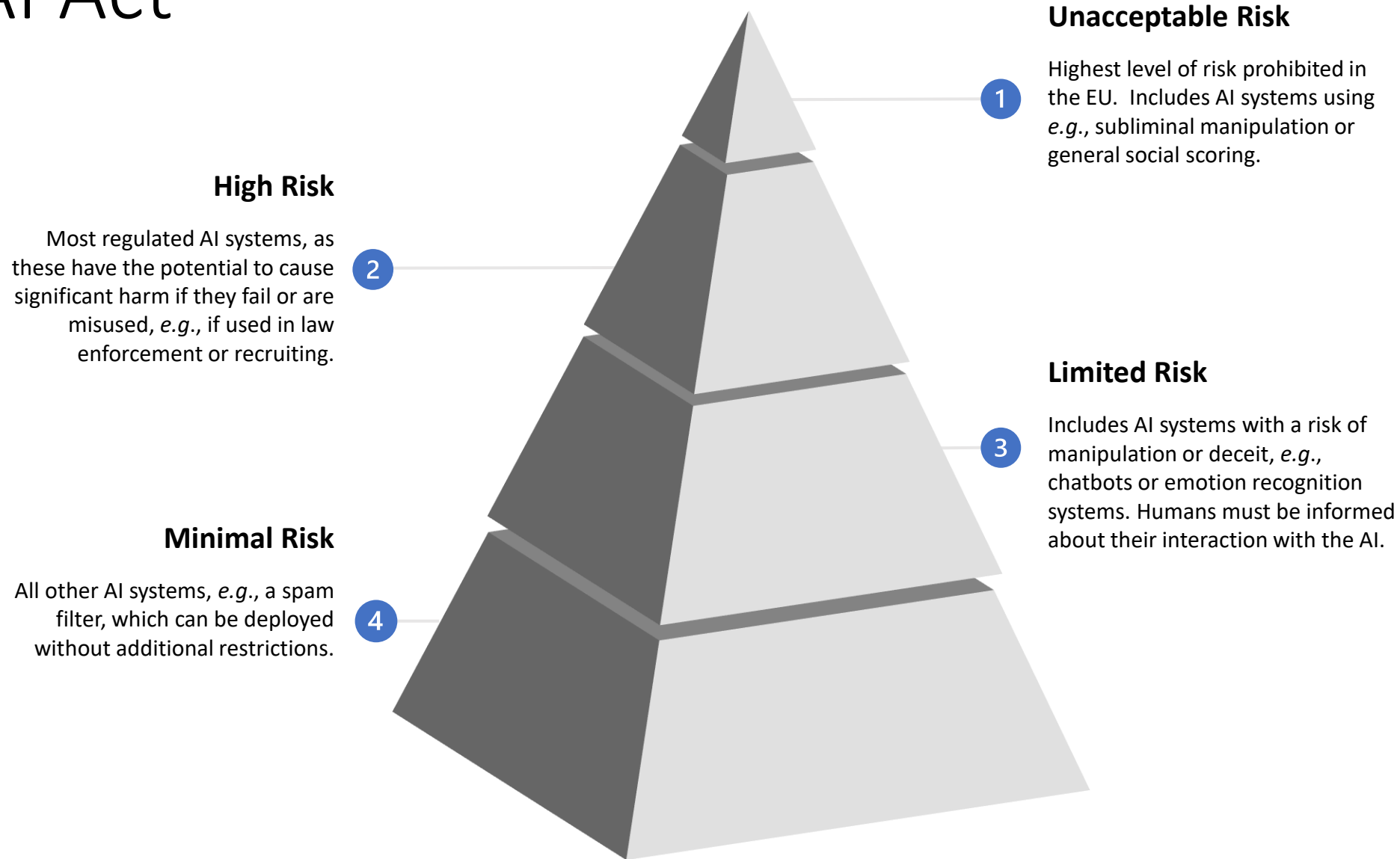
GDPR Privacy Principles

DPIA

AIIA

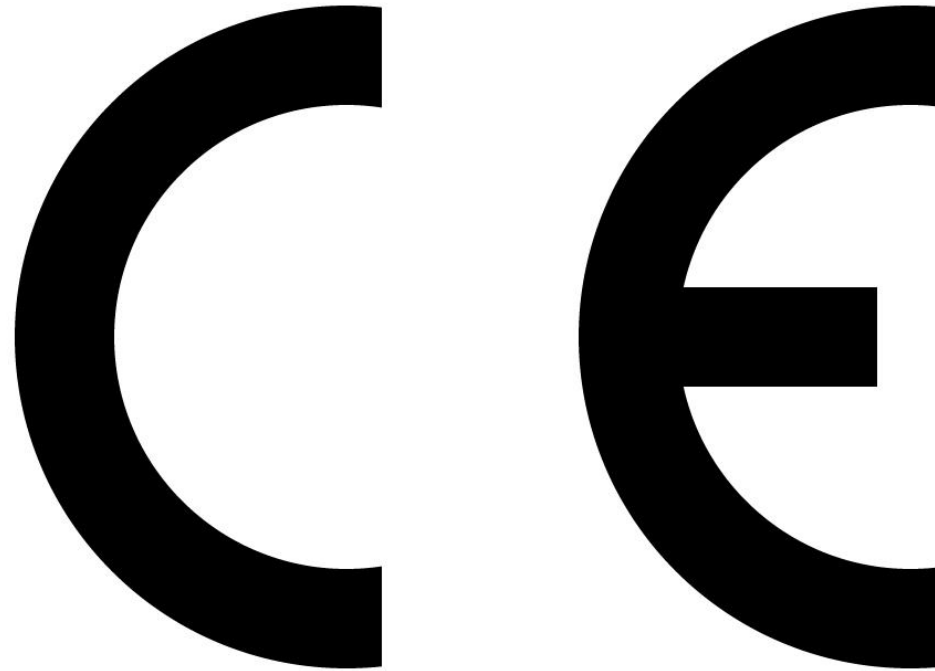
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EU AI Act



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EU AI Act



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What's already in your toolbox?

- Data Classification; Record of Processing Activities
- Risk Assessment/Data Protection Impact Assessments
- Policy/Procedure Development
- Vulnerability Assessments/Red Teaming
- Incident Response Planning
- Table Top Exercises
- Third Party/Supply Chain Risk Management
- Codes of Conduct

Case study: facial recognition

- Commercially available solution
- Pilot at one location
 - Scope defined
 - Volunteers sourced
 - Disclosures to pilot team
 - KPIs defined
 - Signage
 - Pilot launched
- Not anticipated: brand impact, news coverage, regulatory attention
- Best defense: the accountability principle

Case study: facial recognition

- Do you need consent?
 - GDPR: lawful basis always required
 - Can be consent or legitimate interest, among other things
 - In the US, biometrics can constitute “sensitive personal data”
 - Consent required for processing of SPD (VT, CT, NJ, MD, DE)
 - Otherwise, right to restrict processing (CA)
- How can you balance consent with a need to catch the bad guys?
 - Limited caveats under each law (with the organization bearing the burden of proof):

Nothing in this chapter shall be construed to restrict a controller's or processor's ability to . . . [p]revent, detect, protect against, or respond to security incidents, identity theft, fraud, harassment, malicious or deceptive activities, or any illegal activity; preserve the integrity or security of systems; or investigate, report, or prosecute those responsible for any such action

Where to start

- Build a diverse team
- Bring your ethical toolkit with you – find the externalities and manage them
- Map, map, and then map again
- Start small, *e.g.*, GenAI usage
- Realize the limitations of a generalized framework
- Make the framework your own
- Benchmark, and look for guidance
- Ask dumb questions, and watch out for the hype cycle
- Repeat!

Cautionary Tales

- Don't rely on the AI platform to tell you if it's reliable
Mata v. Avianca, Inc.
- Don't use AI alone to draft your policies
In re bitFlyer
- Don't assume that bias is not an issue
Big Data, A Tool for Inclusion or Exclusion

The technology ethic

Ethics =
authenticity
(aka Don't
be creepy!)

- In the end, perception of fairness and ethics comes down to what is familiar, but not artificially so
- Authenticity will matter: human involvement necessary
- Trust but verify: ignoring AI is impossible, but jumping in blindly is exactly that: jumping in blindly
- Hype ≠ authenticity

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THANK YOU!



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