



Project Management Institute.
Southwest Ohio



Project Management Institute.
Dayton/
Miami Valley Ohio



University of
CINCINNATI

CARL H. LINDNER
COLLEGE OF BUSINESS

#cincysummit24

KEYNOTE: UNLEASHING THE POWER OF THE GENERATIVE AI WORKFORCE



MICHAEL LIVELY
QUANTUM AI, LLC

POWER SKILLS



HOUSEKEEPING



**Project
Management
Institute.**
Southwest Ohio



**Project
Management
Institute.**
Dayton/
Miami Valley Ohio



#cincysummit24



**EACH SESSION
IS RECORDED**

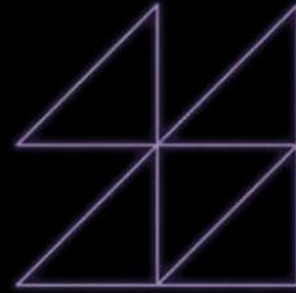


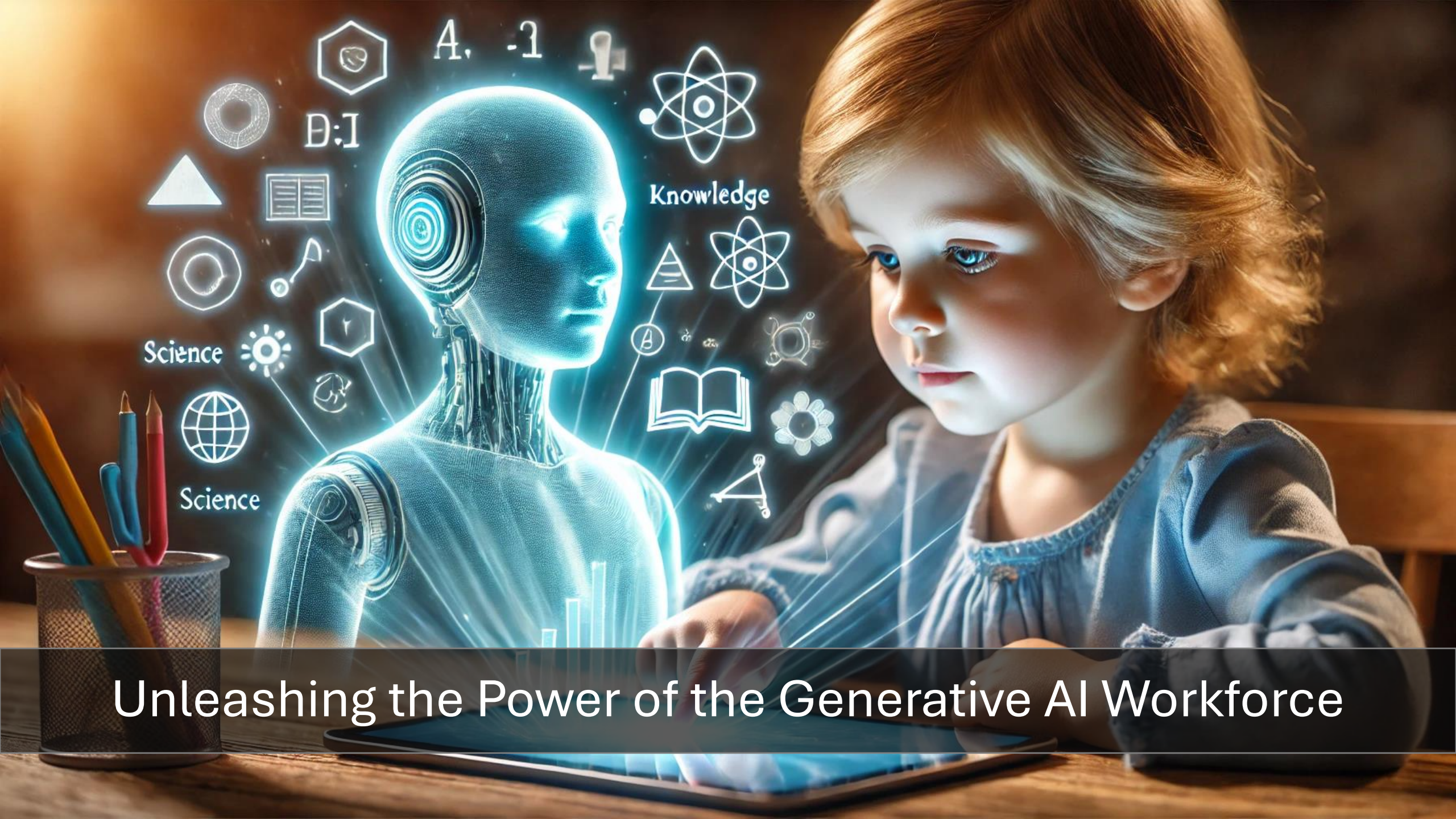
**YOU WILL
RECEIVE A LINK
TO SLIDES AND
THE RECORDING**

SPONSOR:



#cincysummit24



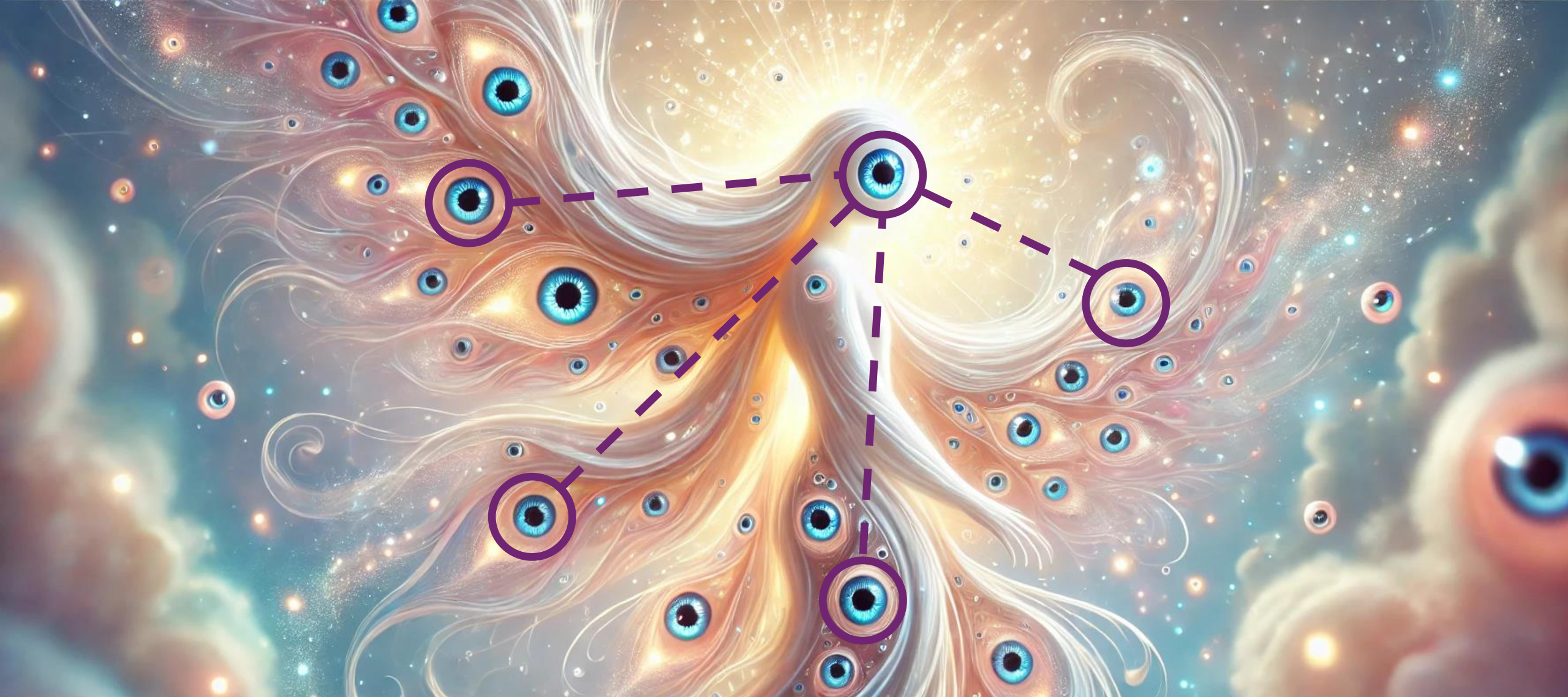


Unleashing the Power of the Generative AI Workforce

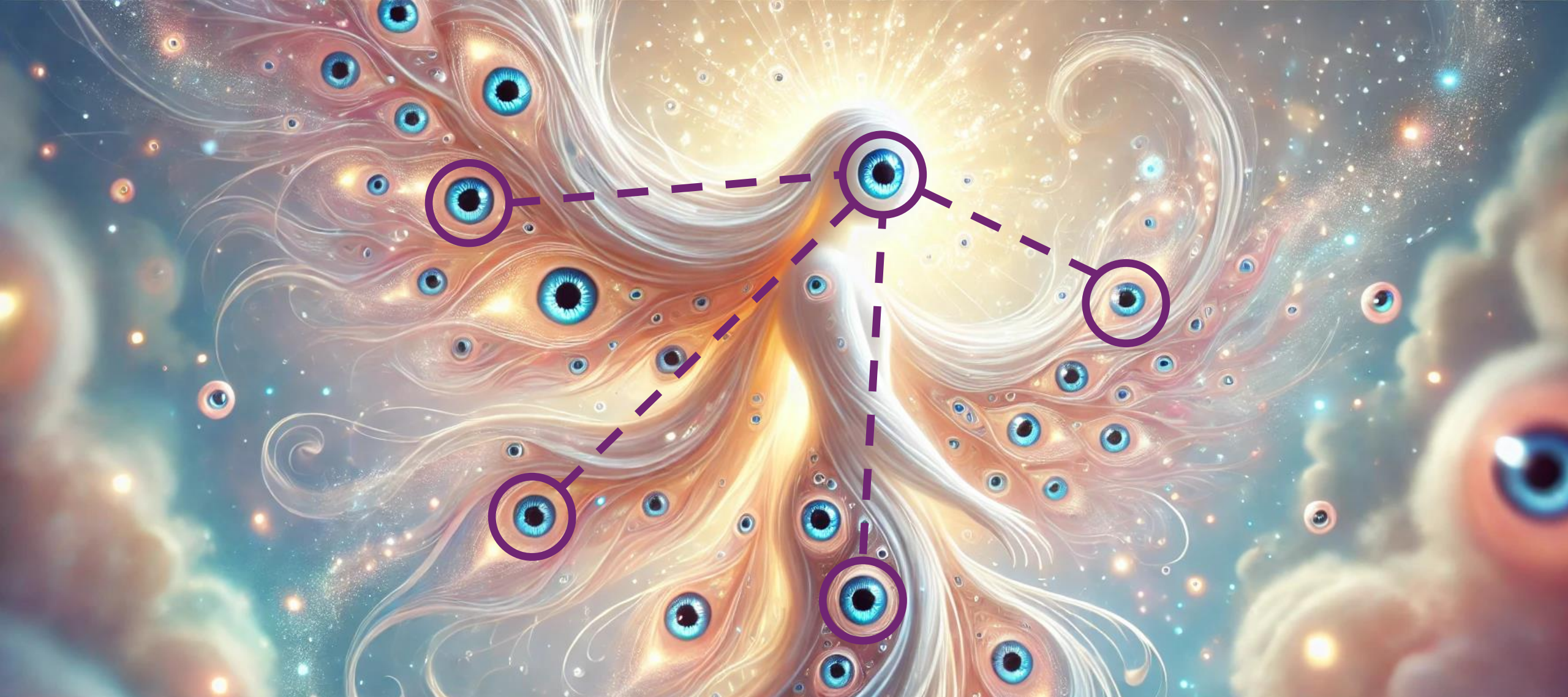


AI is the first technology that has no limits.

LATE
SHOW



Many Eyes: Once you know one thing you know everything!



Mike's Tip#1: Apply Many Eyes Thinking to Every Project



Machine Learning Multilingual Exam Simulator



Machine Learning Multilingual Exam Simulator

By Michael L Lively &

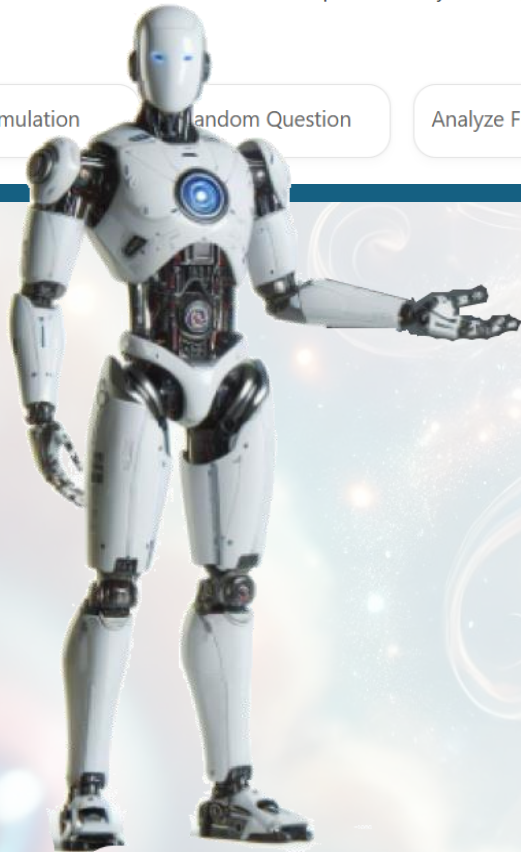
Give me a question in my own language.

Start Simulation

Random Question

Analyze Five

Twenty Questions



English:

What type of machine learning algorithm would you use to classify whether an email is spam or not?

Español:

¿Qué tipo de algoritmo de aprendizaje automático usarías para clasificar si un correo electrónico es spam o no?

Français:

Quel type d'algorithme d'apprentissage automatique utiliseriez-vous pour classier si un e-mail est un spam ou non?

Deutsch:

Welchen Maschinelles-Lernen-Algorithmus würden Sie verwenden, um zu klassifizieren, ob eine E-Mail Spam ist oder nicht?

Italiano:

Quale tipo di algoritmo di apprendimento automatico utilizzeresti per classificare se un'email è spam o meno?

中文 (Chinese):

您会使用哪种机器学习算法来分类电子邮件是垃圾邮件？



Jeopardy & Search

Pipeline Definitions Quiz

Question Reference: [Pipeline Definition Documentation](#)

Pipeline Basics \$100	Pipeline Basics \$200	Pipeline Basics \$300	Stages \$100	Stages \$200
Stages \$300	Jobs \$100	Jobs \$200	Jobs \$300	Steps \$100
Steps \$200	Steps \$300	Triggers \$100	Triggers \$200	Triggers \$300

Pipeline Basics for \$200

What does a pipeline consist of?

Stages and jobs

Only steps

Just a random series of scripts

Score: 0



Running

Azure Repository Jeopardy

Azure Repository Jeopardy

Running

Azure Pipeline Jeopardy

Azure Pipeline Jeopardy

Running

Collection Rules Jeopardy

Collection Rules Jeopardy

Running

Pipeline Definition Jeopardy

Pipeline Definition Jeopardy

Running

Network Watcher Jeopardy

Network Watcher Jeopardy

Running

Action Groups Alert Rules Jeopardy

Action Groups and Alert Rules Jeopardy

Running

Face Detection Jeopardy

Face Detection Jeopardy

Running

Application Insights Jeopardy

Application Insights Jeopardy

Running

Log Analytics Workspace Jeopardy

Log Analytics Workspace Jeopardy

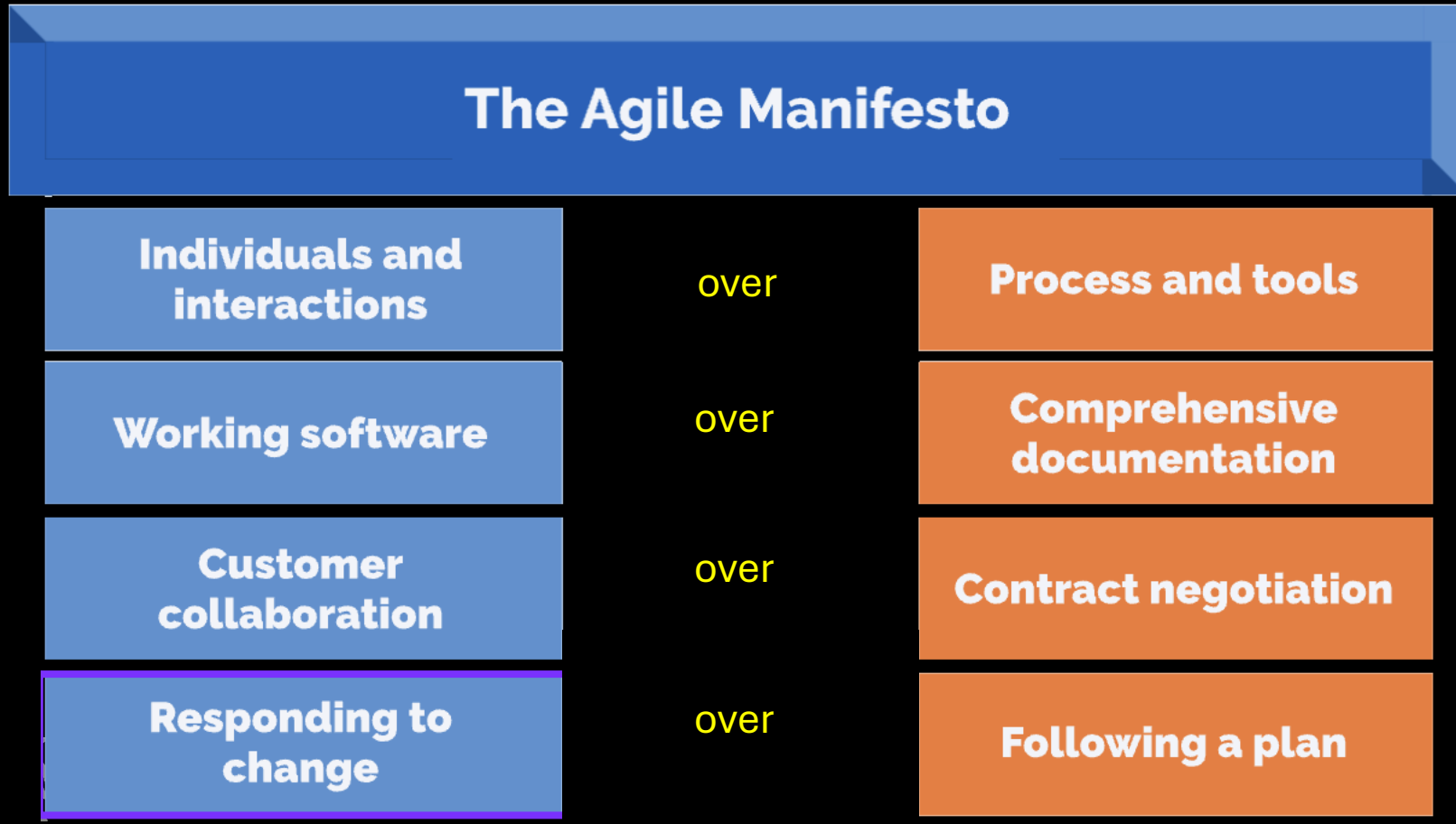
Running

Azure Monitor Jeopardy

Azure Monitor Jeopardy



AI's Effect on the Agile Manifesto





AI's Effect on the Agile Manifesto

The Agile Manifesto

Individuals and interactions

over

Process and tools

Working software

over

Comprehensive documentation

Customer collaboration

over

Contract negotiation

Responding to change

over

Following a plan

Many Eyes



“Change On Steroids”

Cross Functional



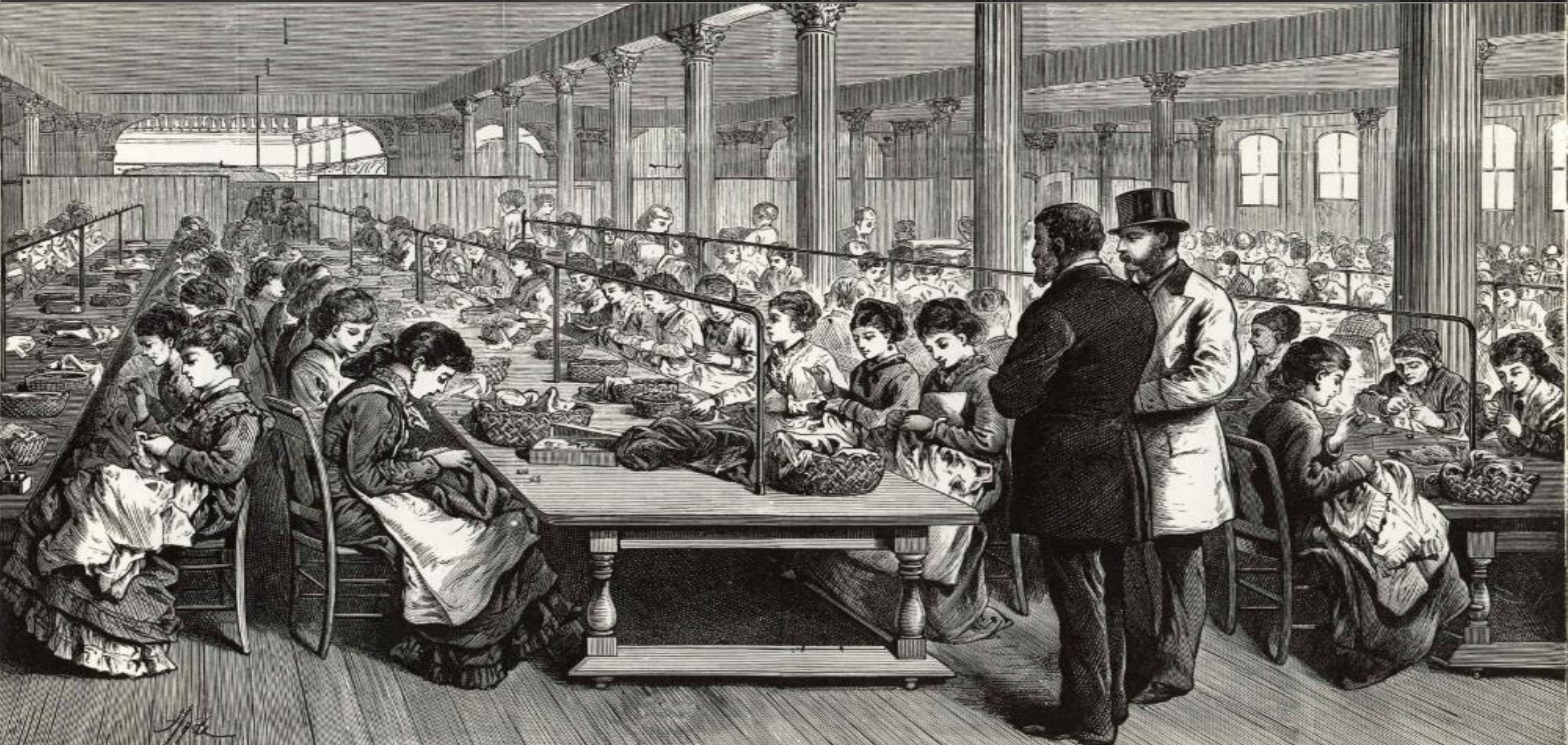
القمة
العال
للحكومات

WORLD
GOVERN
SUMMIT

Don't teach your kids to code.

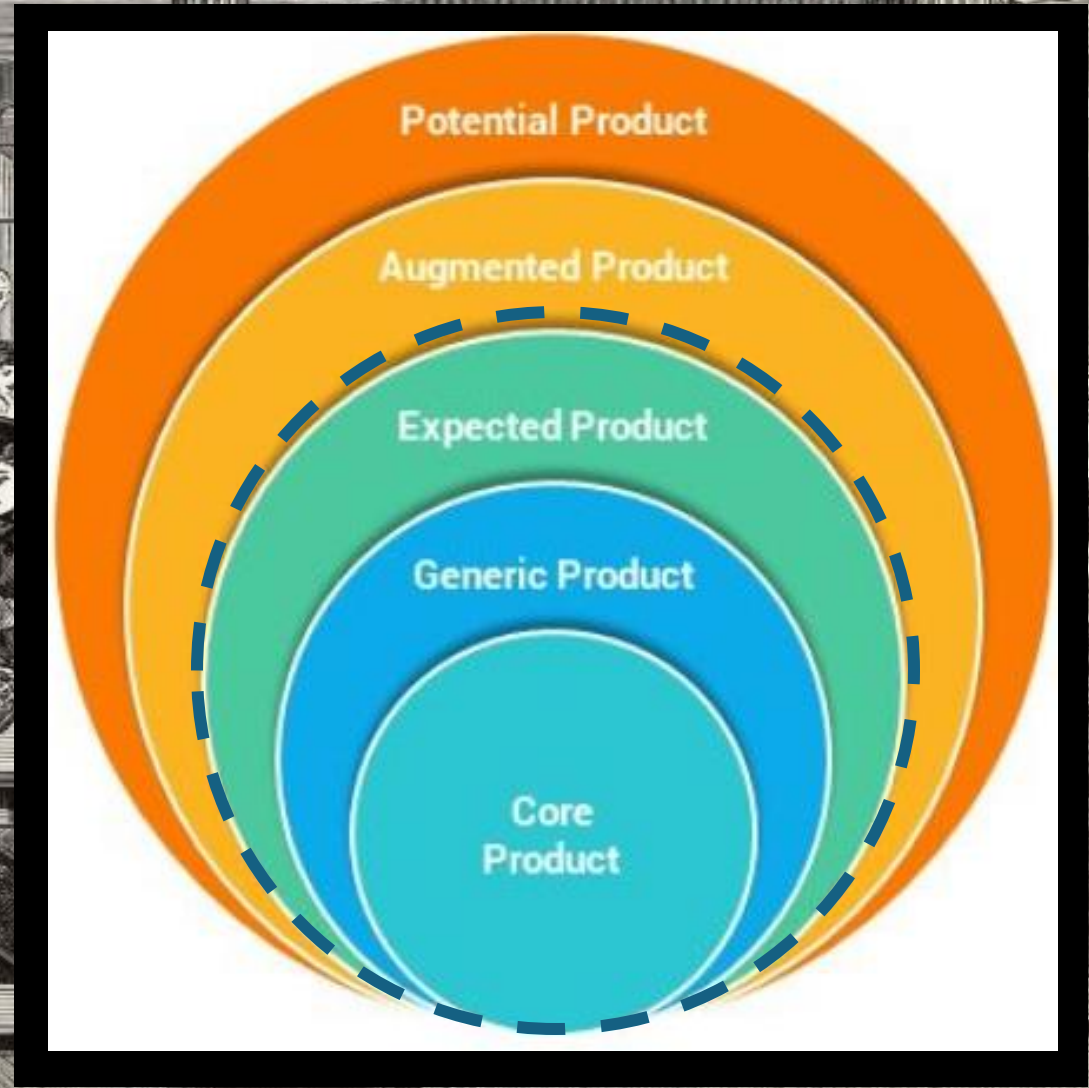


Don't Miss It!





Kotler Five-Level Product Model

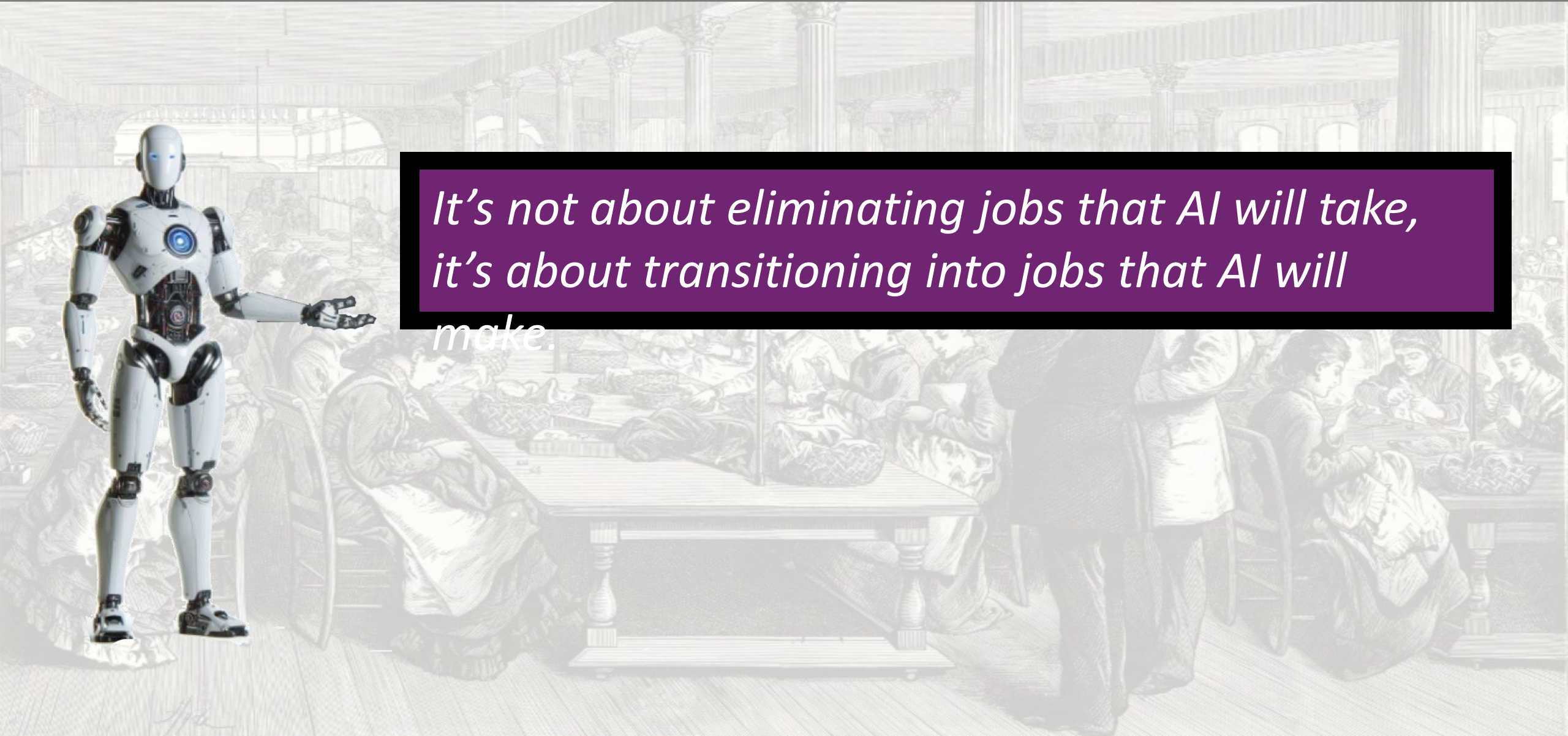




Mike's Golden Rule



It's not about eliminating jobs that AI will take, it's about transitioning into jobs that AI will make.





Essence of Prompt Engineering

Prompt Engineering:

What's in a good prompt?

Core

System Message: Who and Why

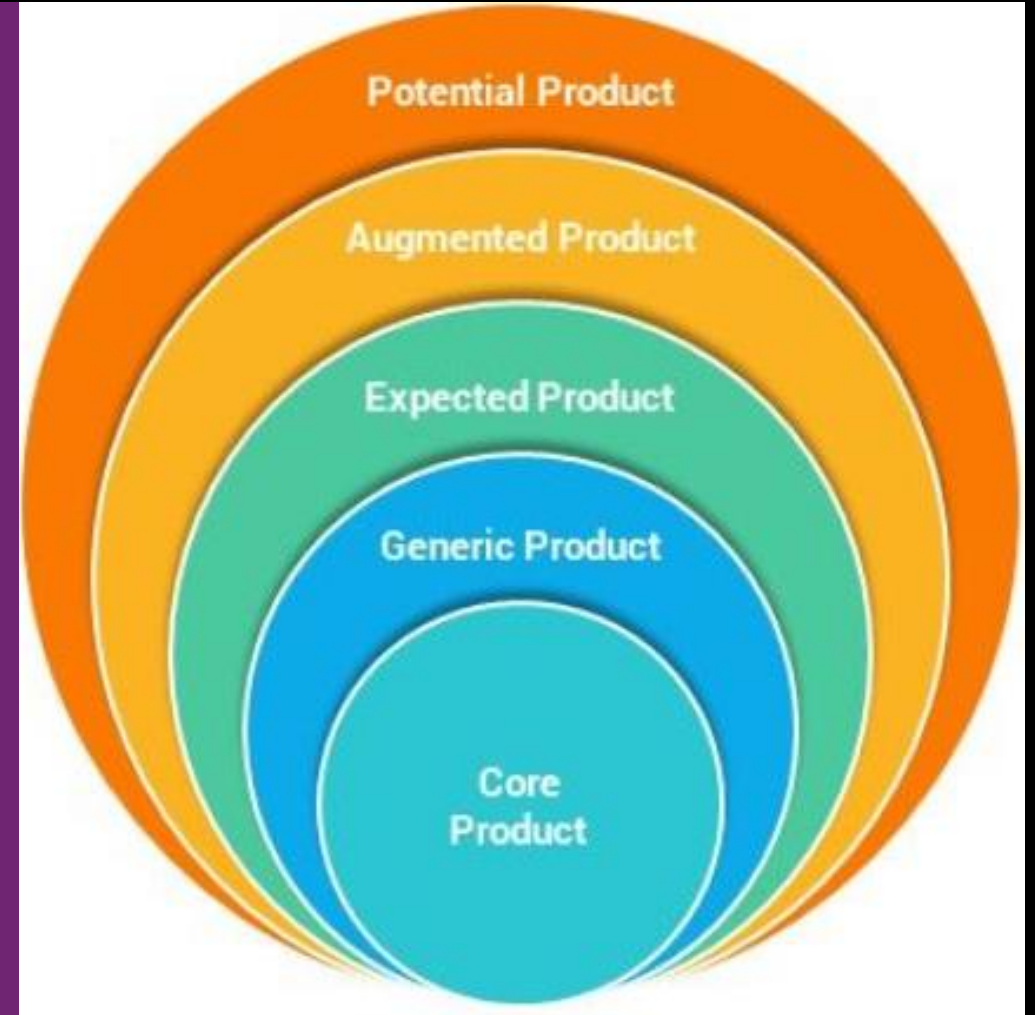
Generic & Expected Products

Must Have: How and What

Should Have: How and What

Augmented & Potential Products

Can: What Else and What If





Everything Talks

Swarm
Clinician

Table Swarm Personas



Patel



Silva



Dawson



Lee



Watanabe

Treatment
+
Paperwork!

patient_id	age	gender	family_history	BRCA1_mutation	BRCA2_mutation	TP53_mutation	ER_status	PR_status	HER2_status	subtype	tumor_stage
P001	48	Female	Yes	TRUE	TRUE	FALSE	Negative	Negative	Negative	Triple Negative	I
P002	75	Female	No	FALSE	FALSE	FALSE	Positive	Positive	Positive	Luminal A	III
P003	51	Female	Yes	TRUE	FALSE	TRUE	Positive	Positive	Positive	Luminal B	II
P004	59	Female	Yes	TRUE	TRUE	FALSE	Positive	Positive	Positive	HER2+	II
P005	59	Female	Yes	TRUE	TRUE	FALSE	Negative	Positive	Positive	HER2+	I
P006	55	Female	No	FALSE	FALSE	FALSE	Positive	Negative	Positive	HER2+	II
P007	48	Female	No	FALSE	FALSE	FALSE	Positive	Positive	Negative	Luminal A	II
P008	71	Female	No	FALSE	FALSE	FALSE	Negative	Positive	Positive	HER2+	III
P009	61	Female	Yes	FALSE	FALSE	FALSE	Positive	Negative	Positive	HER2+	III



10,000 Lines of Code a Day

✕ Solar System 3d



EA

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>3D Solar System</title>
7   <script src="https://cdnjs.cloudflare.com/ajax/libs/three.js/r136/three.min.js"></script>
8   <style>
9     body {
10      margin: 0;
11      overflow: hidden;
12      background-color: black;
13    }
14    canvas {
15      display: block;
16    }
17  </style>
18 </head>
19 <body>
```

Add comments



Add logs



Fix bugs



Port to a language



Code review



Ask ChatGPT to edit





AI's Effect on the Agile Manifesto

The Agile Manifesto

Individuals and interactions



“Synergism”
Process and tools

Redundant Work
Everything Talks

Working software

over

Comprehensive documentation

Customer collaboration

over

Contract negotiation

Responding to change

over

Following a plan

Many Eyes



“Change On Steroids”

Cross Functional

Two-thirds of U.S. occupations will be affected by AI!

Goldman
Sachs





Mike's Quadrant of Work

Reasoning
Work

Wisdom
Work

Work for Work

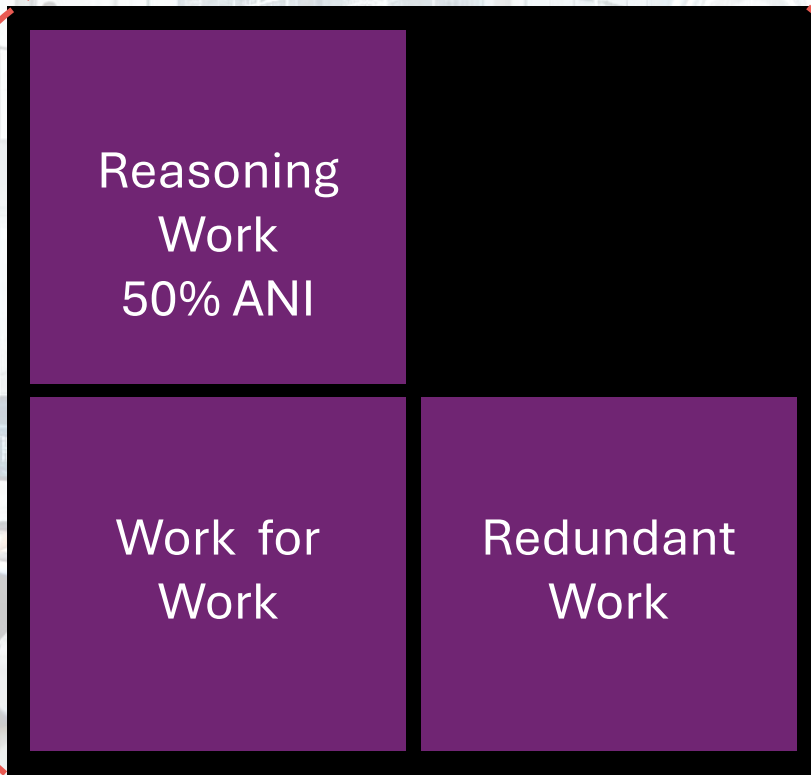
Redundant
Work





Mike's Quadrant of Work

Outliers



Wisdom Work

60% Job Displacement



Nature of Work

Dumbed down by Computers

New Fun “Human” Jobs



1. AI Ethics Officer
2. AI Behavior Trainer
3. Digital Curator
4. Human-AI Interaction Designer
5. Virtual Reality (VR) Experience Guide
6. AI-Enhanced Caregiver
7. Synthetic Data Specialist
8. Digital Identity Manager
9. AI-Driven Creative Collaborator
10. AI-Infused Education Specialist
11. Health Outcome Analyst

***Text to Video
(Sora)***

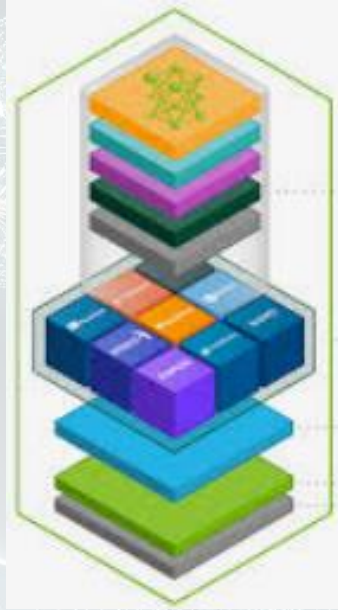




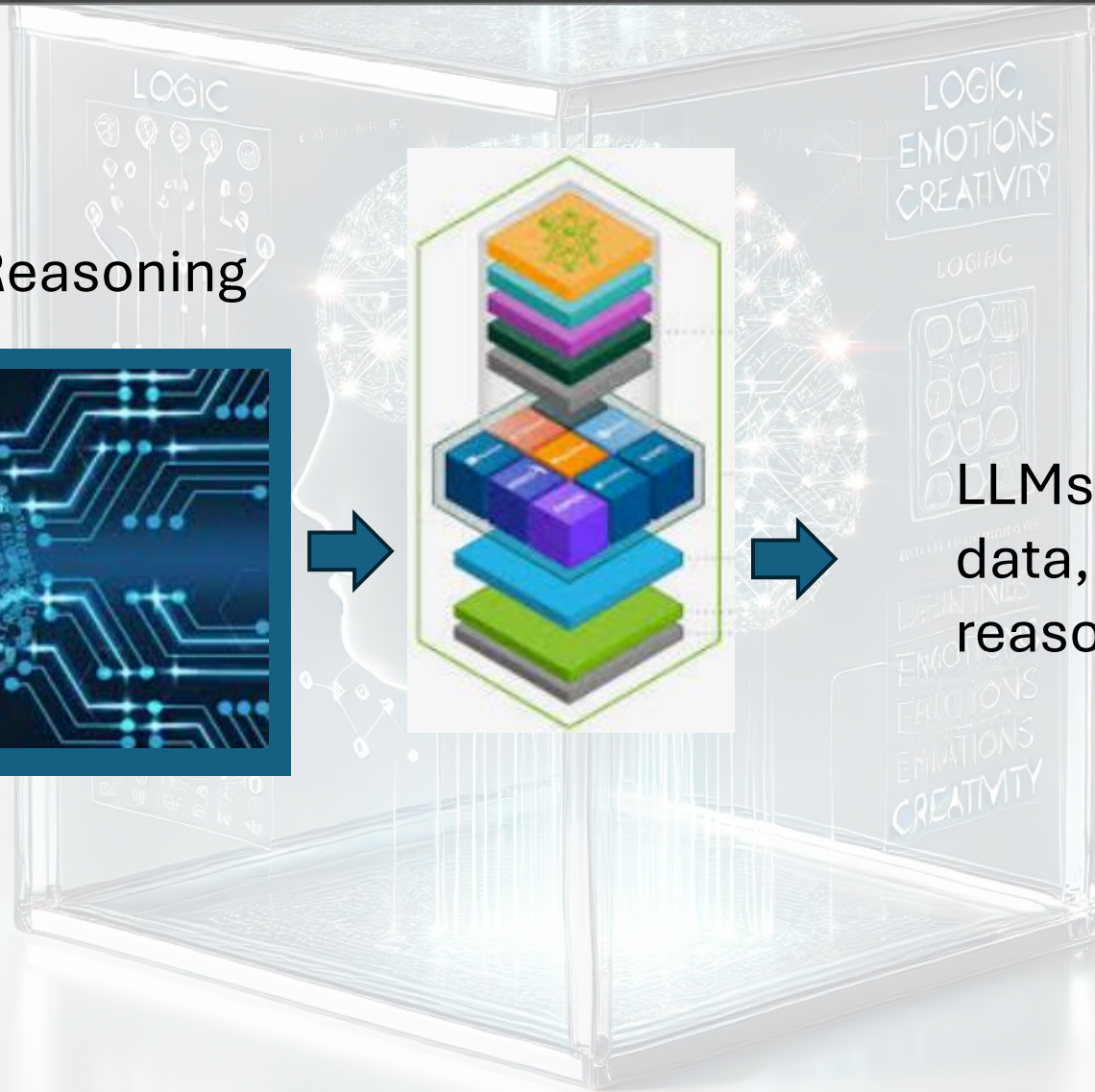
LLMs Captured Human Reasoning

ARTIFICIAL
INTELLIGENCE

Inherent Human Reasoning

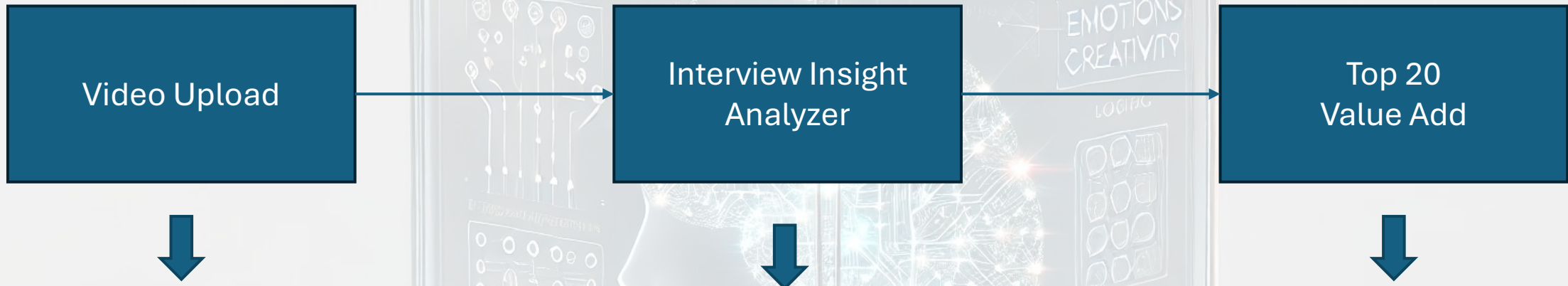


LLMs captured not just data, but also human reasoning behind it!





Interview Insight Analyzer



12 Labs - Interview Insight Analyzer

Project Description [Video Uploader](#) [Video Analyzer](#) [Unique Value Add](#) [Thanks Team](#)

Video Upload and Processing (To Do)

Video Input

Upload a video file

Drag and drop file here
Limit 200MB per file • MP4, AVI, MPEG4

Or paste a YouTube URL here:


Video Processing

12 Labs - Interview Insight Analyzer

Project Description [Video Uploader](#) [Video Analyzer](#) [Unique Value Add](#) [Thanks Team](#)

Video Analyzer

Choose the number of issues you like to examine, and get feedback on how to improve for your next job interview.



Enter your prompt:
list the top 4 job interview mistakes a

Select the number of top mistakes:
1 10

12 Labs - Interview Insight Analyzer

Project Description [Video Uploader](#) [Video Analyzer](#) [Unique Value Add](#) [Thanks Team](#)

Top 20 - Unique Value Add

List of Items

1. Standardization and Fairness: Ensuring every candidate is treated equally improves legal compliance and internal fairness.
2. Improved Hiring Decisions: Objective, data-driven assessments lead to better hires, directly impacting organizational performance.
3. Time and Cost Efficiency: Reducing the time and resources required for hiring processes translates directly into cost savings.
4. Scalability: Ability to handle a high volume of interviews efficiently supports rapid scaling, critical for growth phases.
5. Integration with HR Systems: Streamlining recruitment into broader HR workflows enhances overall HR efficiency.
6. Predictive Analytics: Advanced analytics can forecast candidate success, improving long-term job fit and satisfaction.
7. Enhanced Candidate Experience: Providing immediate feedback can enhance reputation and attract quality candidates.



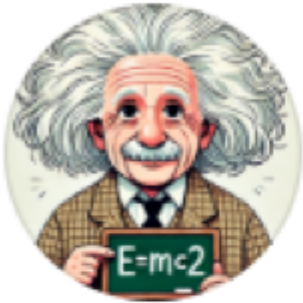
What AI Doesn't Do Well!





Mike's Tip#2: Become a Tool Builder

Talk with the Great Physicist



[Einstein](#)



[Dirac](#)



[Feynman](#)



[Maxwell](#)



[Newton](#)



[Chat with All](#)



Talk with Einstein



Einstein Learn Relativity

By Michael L Lively &

"Einstein Learn Relativity" is an engaging AI that teaches relativity with Einstein's wit, humor, and scientific insight, making complex physics fun and approachable.

Can you explain special relativity?

"Wasn't there an experiment with twins? How does...

What is the speed of light, and why is it important?

Starter



Ah, ready for some math, are we? Let's roll up our sleeves! Special relativity has a few core equations that capture its strange beauty. Here are the essentials:

1. Time Dilation

When you're moving close to the speed of light, time slows down for you compared to someone standing still. This phenomenon is captured by the time dilation formula:

$$\Delta t' = \frac{\Delta t}{\sqrt{1 - \frac{v^2}{c^2}}}$$

- $\Delta t'$: The time interval measured by a moving observer (someone on the spaceship, for instance).
- Δt : The time interval measured by a stationary observer (someone on Earth).
- v : The speed of the moving observer (the spaceship's speed).
- c : The speed of light (approximately 3.0×10^8 m/s).

This equation shows that as v gets closer to c , $\Delta t'$ becomes much larger than Δt , meaning time slows down for the moving observer.



Interactive Case Study



Patel

Silva

Dawson

Lee

Watanabe



FinStart DevOps

By Michael L Lively &

Ask FinStart a Question about DevOps

Provide a Question

Dialog Between
Members

Choose a Topic

Write Some YAML

Mike Lively: "Thanks for bringing me up to speed, everyone! It sounds like we're covering a lot of bases with infrastructure monitoring. From the project lead side, I'd like to emphasize metrics specific to our AI models—things like prediction accuracy, drift, and even response times. Sara, can Azure Monitor handle these custom metrics alongside the usual resource metrics?"

Sara Dawson: "Absolutely, Mike. Azure Monitor is flexible enough to capture custom metrics, and with Application Insights, we can get granular with monitoring model usage and latency. We're setting up alerts on resource thresholds and error rates, but we can also add AI-specific metrics as you mentioned."

Alex Silva: "I can definitely help with that. For tracking accuracy and drift, I'll set up logs to capture key model performance data. I can feed those into our monitoring [pipeline](#) so we get notified if performance dips."

Mike Lively: "That's great, Alex. Real-time insights into accuracy and drift are essential, especially as clients depend on us for fast, reliable insights. James, do you think these metrics will support your strategy for optimizing the AI models?"

Dr. James Lee: "Absolutely. Monitoring model-specific metrics like drift allows us to proactively respond to shifts in the data that could impact recommendations. Plus, we can set up anomaly detection to catch deviations in these metrics and get alerts if they go outside normal ranges."



```
{
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.js",
  "contentVersion": "1.0.0.0",
  "resources": [
    {
      "type": "Microsoft.Storage/storageAccounts",
      "apiVersion": "2019-06-01",
      "name": "[variables('storageAccountName')]",
```



AI's Effect on the Agile Manifesto

The Agile Manifesto

Individuals and interactions

~~over~~



"Synergism"
Process and tools

Redundant Work
Everything Talks

Working software

~~over~~



"Automatic"
Comprehensive documentation

Work for Work

Customer collaboration

over

Contract negotiation

Responding to change

over


Following a plan

Many Eyes



"Change On Steroids"

Cross Functional

A photograph of two men, Sam Altman and Elon Musk, sitting in light blue armchairs on a stage. Sam Altman is on the left, wearing a dark blazer over a blue and white striped shirt and dark pants with bright blue sneakers. Elon Musk is on the right, wearing a light blue blazer over a white shirt and dark pants. They appear to be in a panel discussion or interview setting. A purple text box is overlaid on the image, containing a quote from Sam Altman.

Sam Altman: Can't wait to see the first billion-dollar business just made up of an Agentic Workforce.

Elon Musk: People will not work unless they want to!

Universal Income



Democratization

“



Satya Nadella

**We are looking at empowering people
to do things previously not possible.**

”

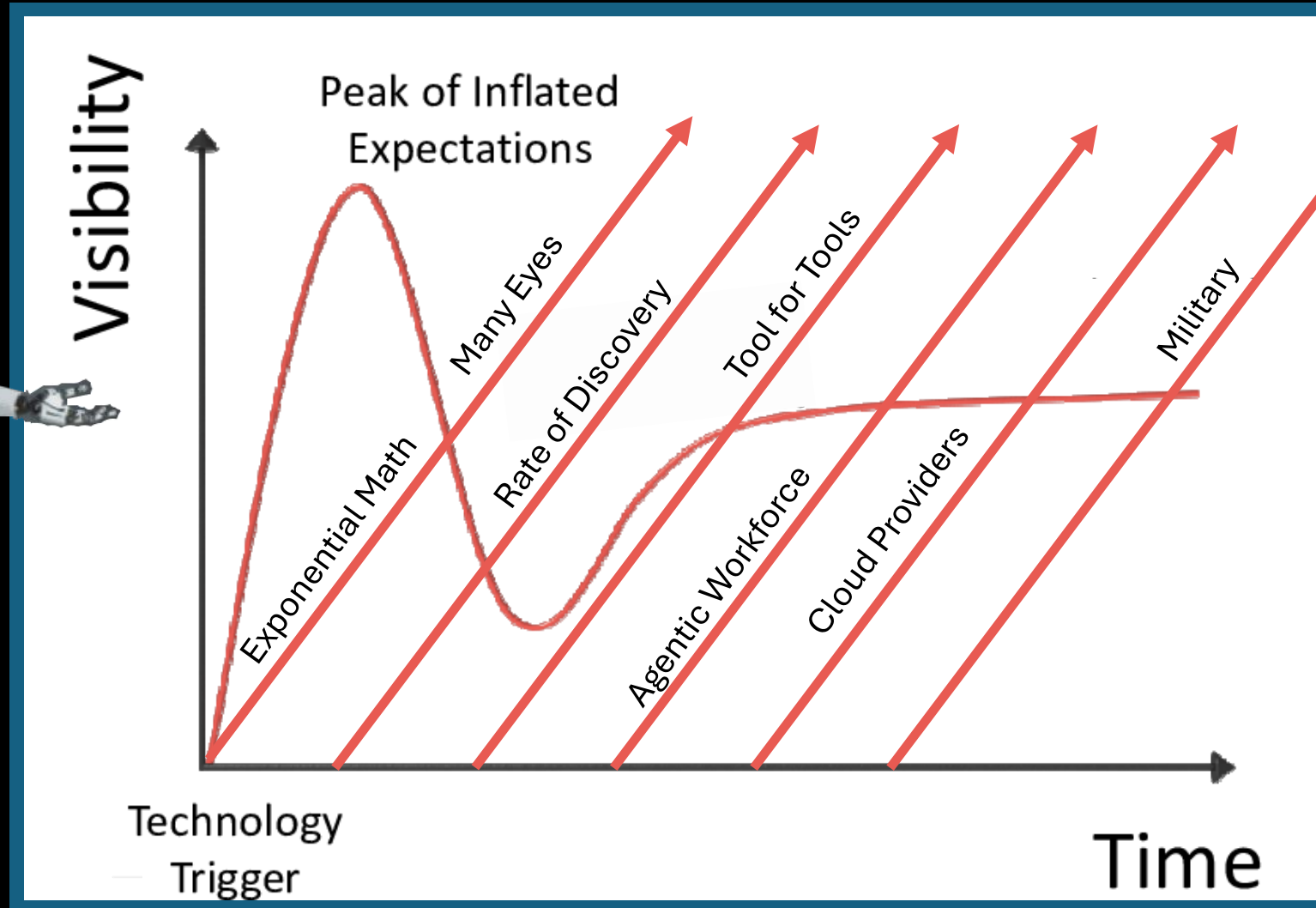


“12-Year-Old” Effect





Gartner Hype Curve





QuantumAI



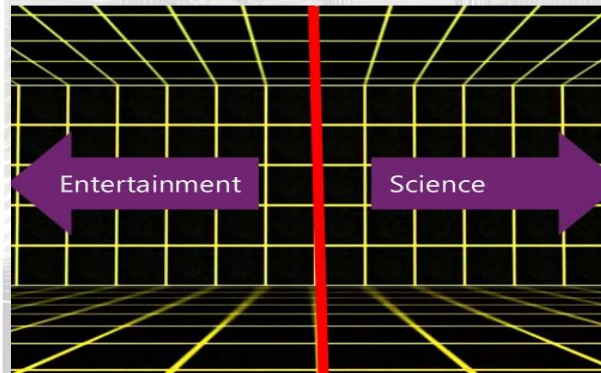
Precision Everything

Table Swarm Personas

Patel Silva Dawson Lee Watanabe

family_history	BRCA1_mutation	BRCA2_mutation	TP53_mutation	ER_status	PR_status	HER2_status
Yes	TRUE	TRUE	FALSE	Negative	Negative	Negative
No	FALSE	FALSE	FALSE	Positive	Positive	Positive
Yes	TRUE	FALSE	TRUE	Positive	Positive	Positive
No	TRUE	TRUE	FALSE	Negative	Negative	Negative

Holodeck



Reasoning Engines



Training & Accelerated Learning





Mike's Tip#3: Beef up Your LinkedIn!

The Resume is Dead

Rise of Precision Work (Gig Economy)

Short-term, flexible, freelance work

Facilitated by digital platforms

Work is Portfolio AI driven Env

Efficient Talent Management





Agile on Steroids

The Agile Manifesto

Individuals and interactions



“Synergism”
Process and tools

Redundant Work
Everything Talks

Working software



“Automatic”
Comprehensive documentation

Work for Work

Customer collaboration

out

~~Contract negotiation~~

Gig Economy

Responding to change

out

~~Following a plan~~

Goal/Rewards
Driven

Many Eyes



“Change On Steroids”

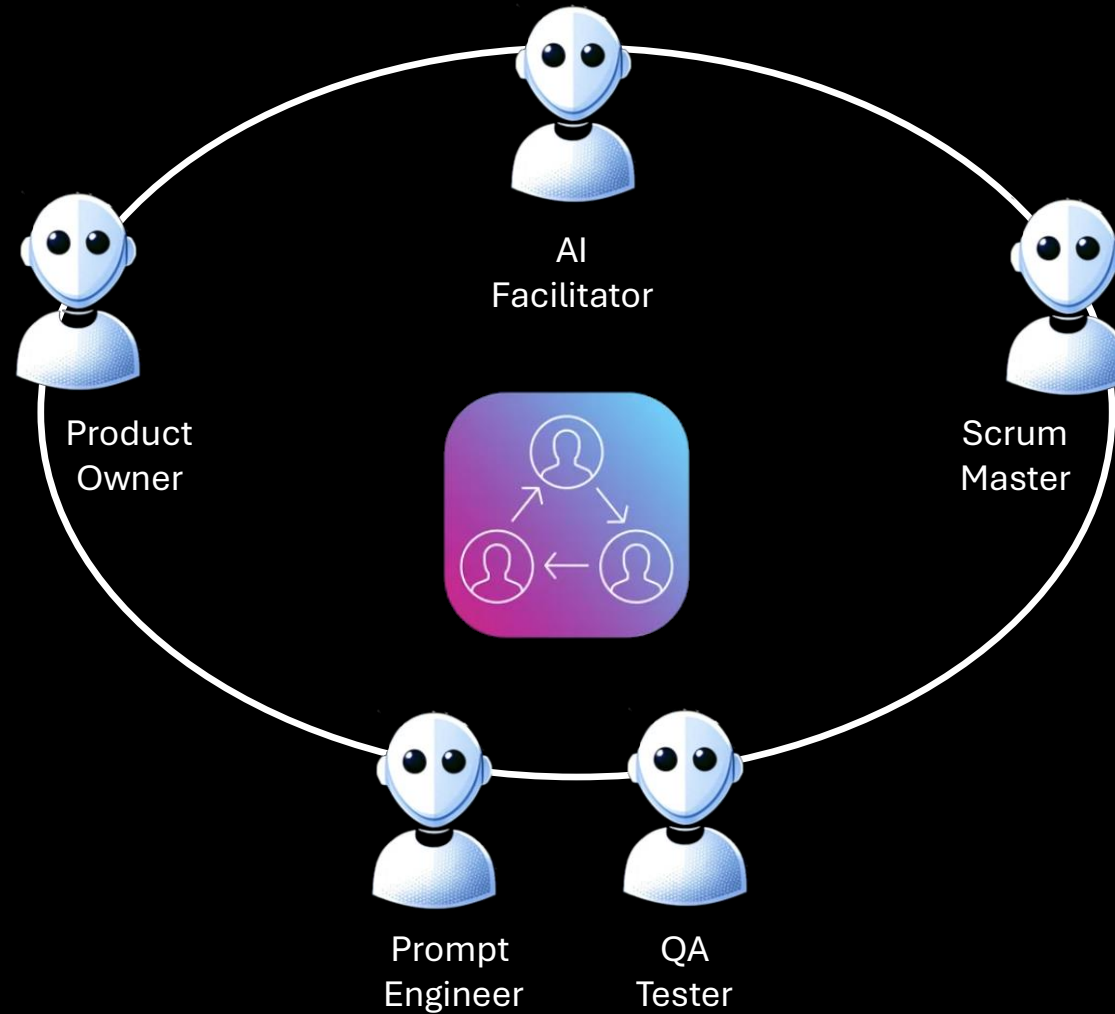
Cross
Functional



Zero Pizza Agentic Workforce



0-pizza rule





Mike's Tip#4: Master Timeboxed Learning

Goal

ARTIFICIAL
INTELLIGENCE

Generates Its Own Learning Content

Algorithm, Outline, Recipe

Competitive Human in a Box!



Grind Out the Details

Format Output
(Follow My Example)



The Universal Translator is Here!



Exponential increase in Knowledge, Explosion in Efficiency, and Inevitable Volatility.



The Agentic Workforce

The image displays a large grid of 60 circular icons, each representing a different AI-powered application. The icons are arranged in a 6x10 grid. A presenter is standing in front of the grid, pointing at one of the icons. The applications shown include:

- 1. Racing League
- 2. Repair It
- 3. Origami Expert
- 4. Garden Guide
- 5. Gift Finder
- 6. Text Extractor
- 7. on this day
- 8. Fantasy Football
- 9. Poker Mentor
- 10. Study Buddy
- 11. Back Roads
- 12. Text Extractor
- 13. Hiking Helper
- 14. Pixel Artist
- 15. Pun Generator
- 16. Pocket Sommelier
- 17. Language Tutor
- 18. Algebra 101
- 19. Cafe Finder
- 20. The Professor
- 21. Build a Robot
- 22. Tree Houses
- 23. Code Checker
- 24. Back Roads
- 25. all the jokes
- 26. Study Buddy
- 27. Mr. Fix It
- 28. Puppy Hotline
- 29. Marathon Coach
- 30. CRITTERZ
- 31. globe guru
- 32. Sticker Maker
- 33. Racing League
- 34. Build a Robot
- 35. Sticker Maker
- 36. Golf Tracker
- 37. Poker Mentor
- 38. Travel Companion
- 39. Code Checker
- 40. Origami Expert
- 41. Magic Max
- 42. actor
- 43. Repair It
- 44. Hiking Helper
- 45. Poker Mentor
- 46. CRITTERZ
- 47. Fantasy Football
- 48. In Style
- 49. Tree Houses
- 50. History Buff
- 51. Math Mentor
- 52. Budget Bud
- 53. Location Guide
- 54. Pixel Artist
- 55. all the jokes

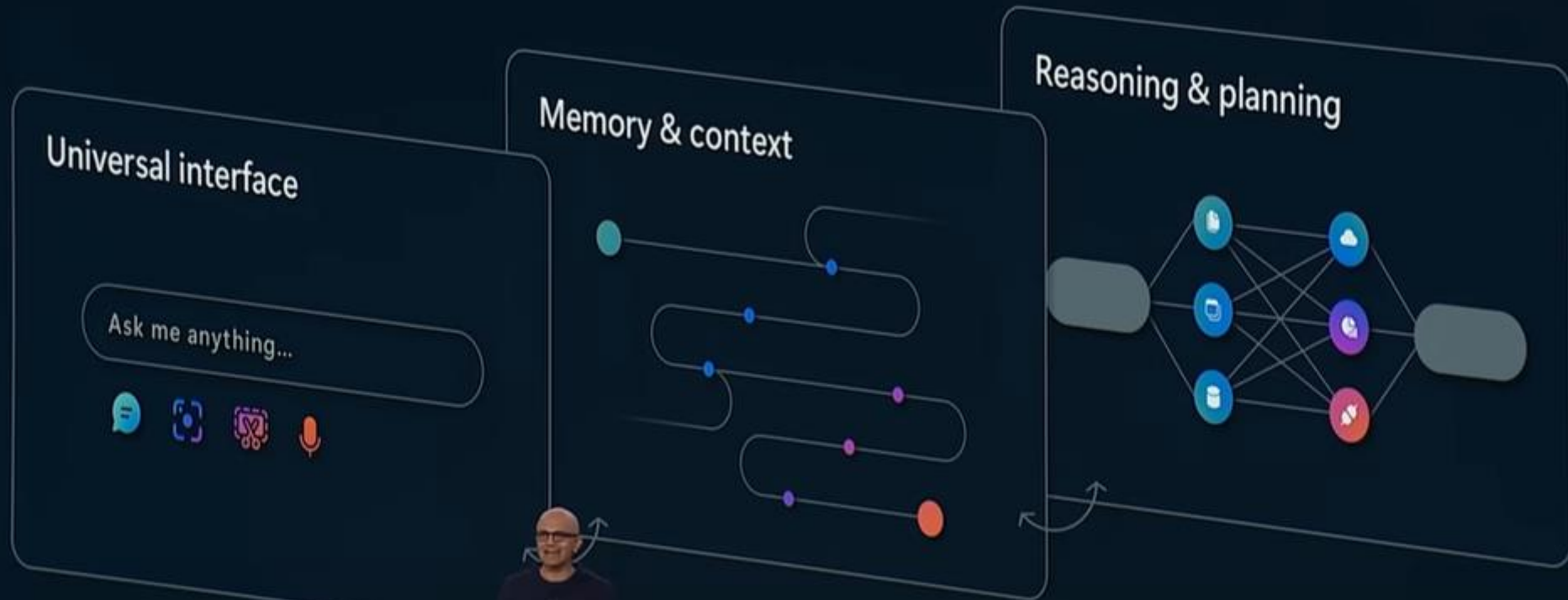


The Agentic Workforce



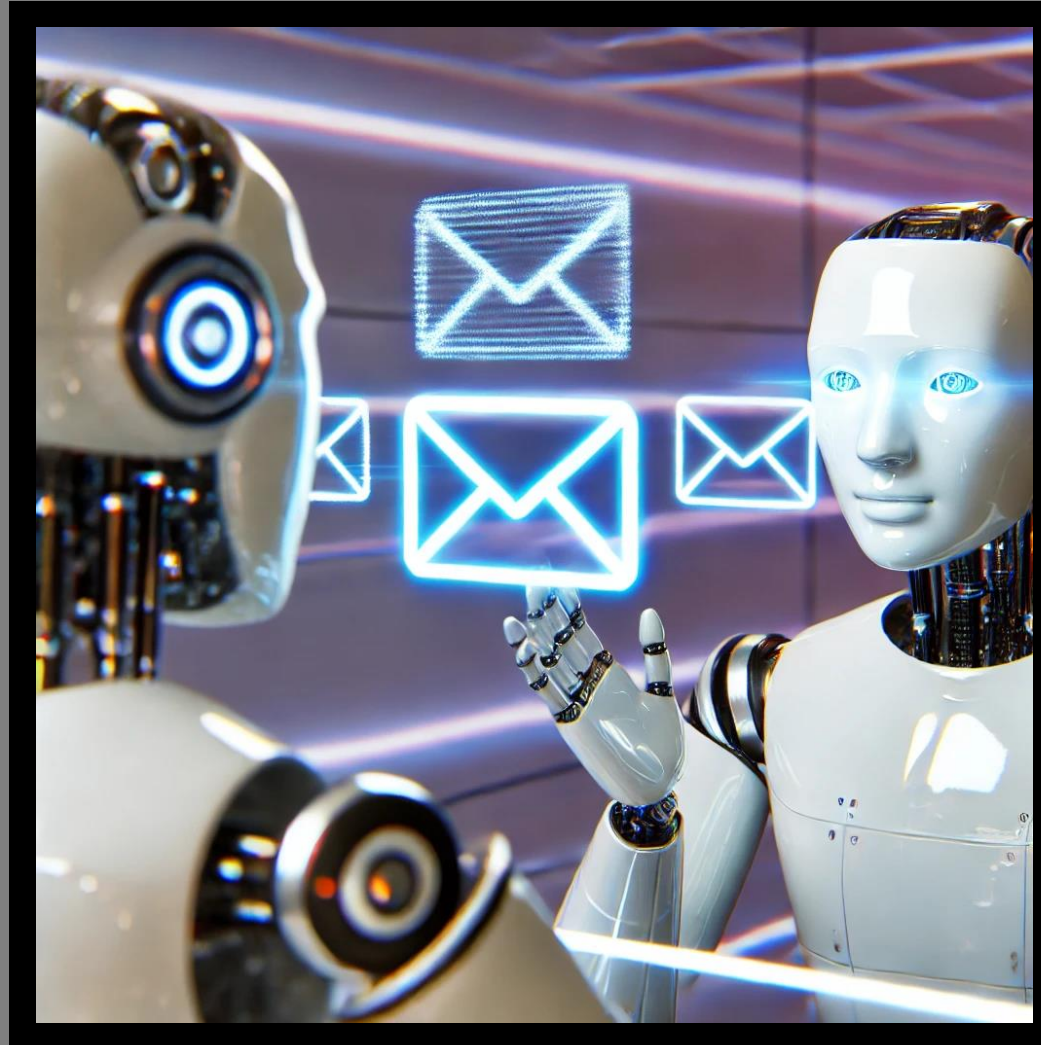


The Agentic Workforce



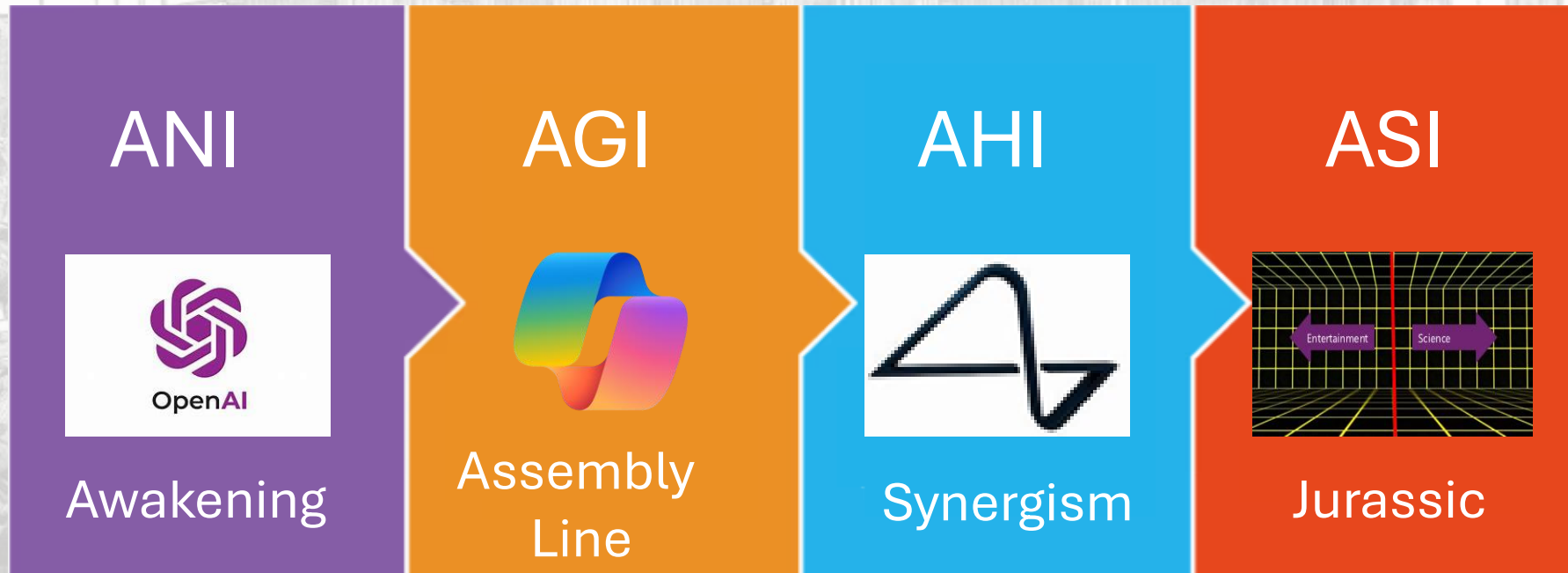


Email Paradox





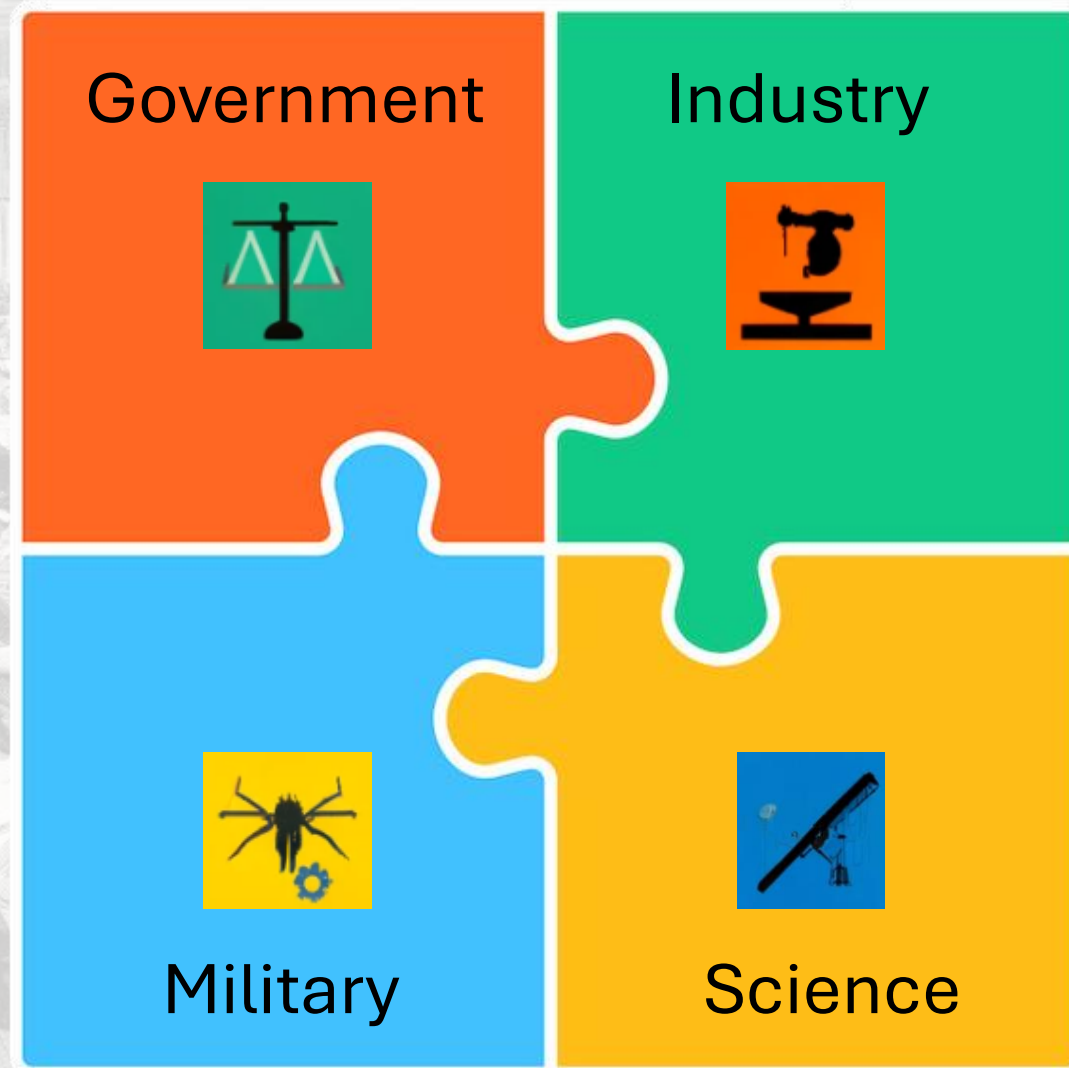
4-Types of AI



2030

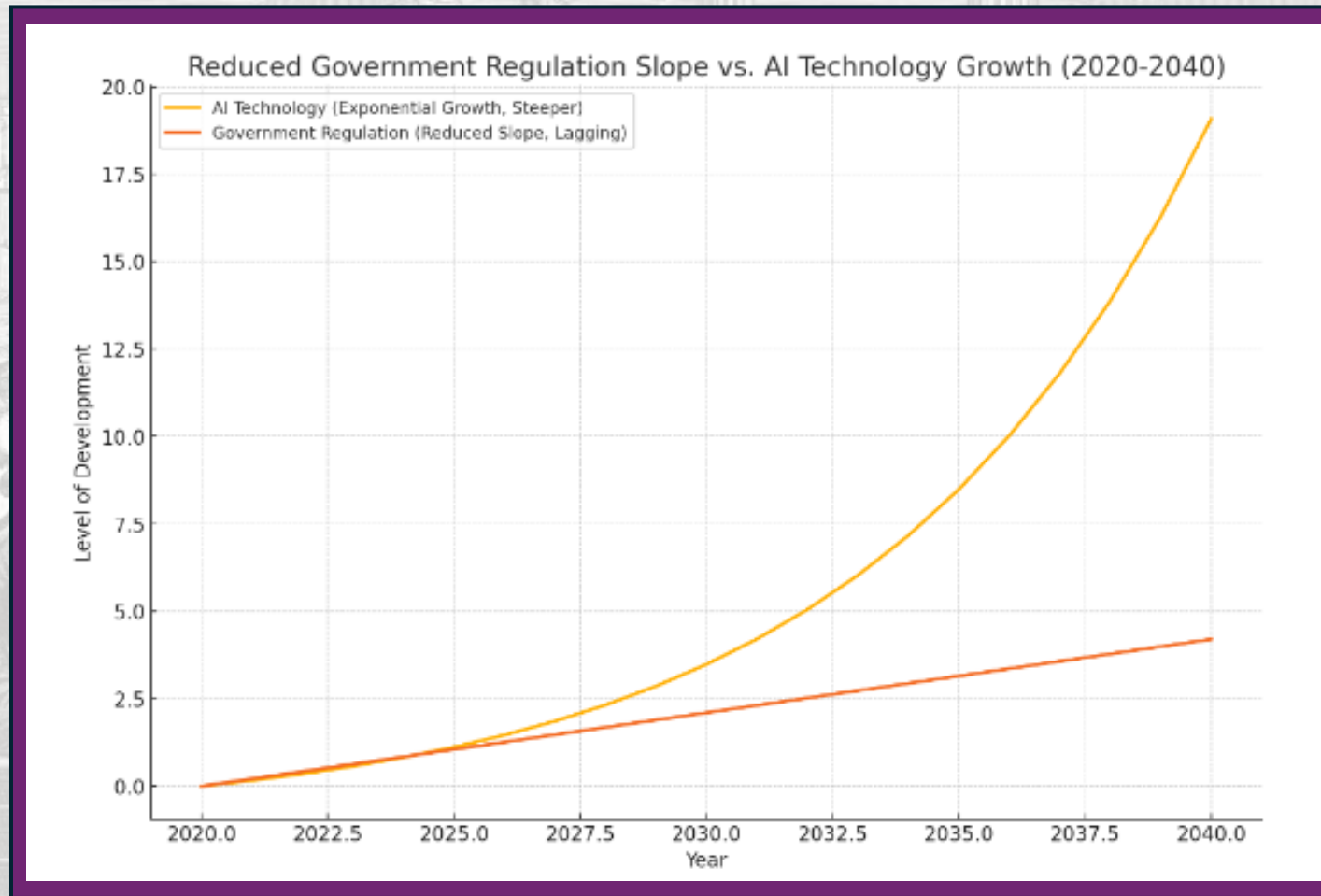


AI Volatility





Government: Regulation Lag





Industry: Stargate





Science: 1000 Years of Discovery in 10



If you are alive now, don't die!





Military: Weaponization of AI





Who does AI think God Is?

- Yukawa-Type Couplings (for scalar mediator):

$$\mathcal{L}_{\text{Interaction}} = -g_m \bar{\psi}_{\text{Matter}} \psi_{\text{Matter}} \Phi - g_a \bar{\psi}_{\text{Antimatter}} \psi_{\text{Antimatter}} \Phi + \text{h.c.}$$

- ψ_{Matter} and $\psi_{\text{Antimatter}}$: Fermion fields in each sector.
 - g_m and g_a : Coupling constants.
- Gauge Boson Couplings (for vector mediator):

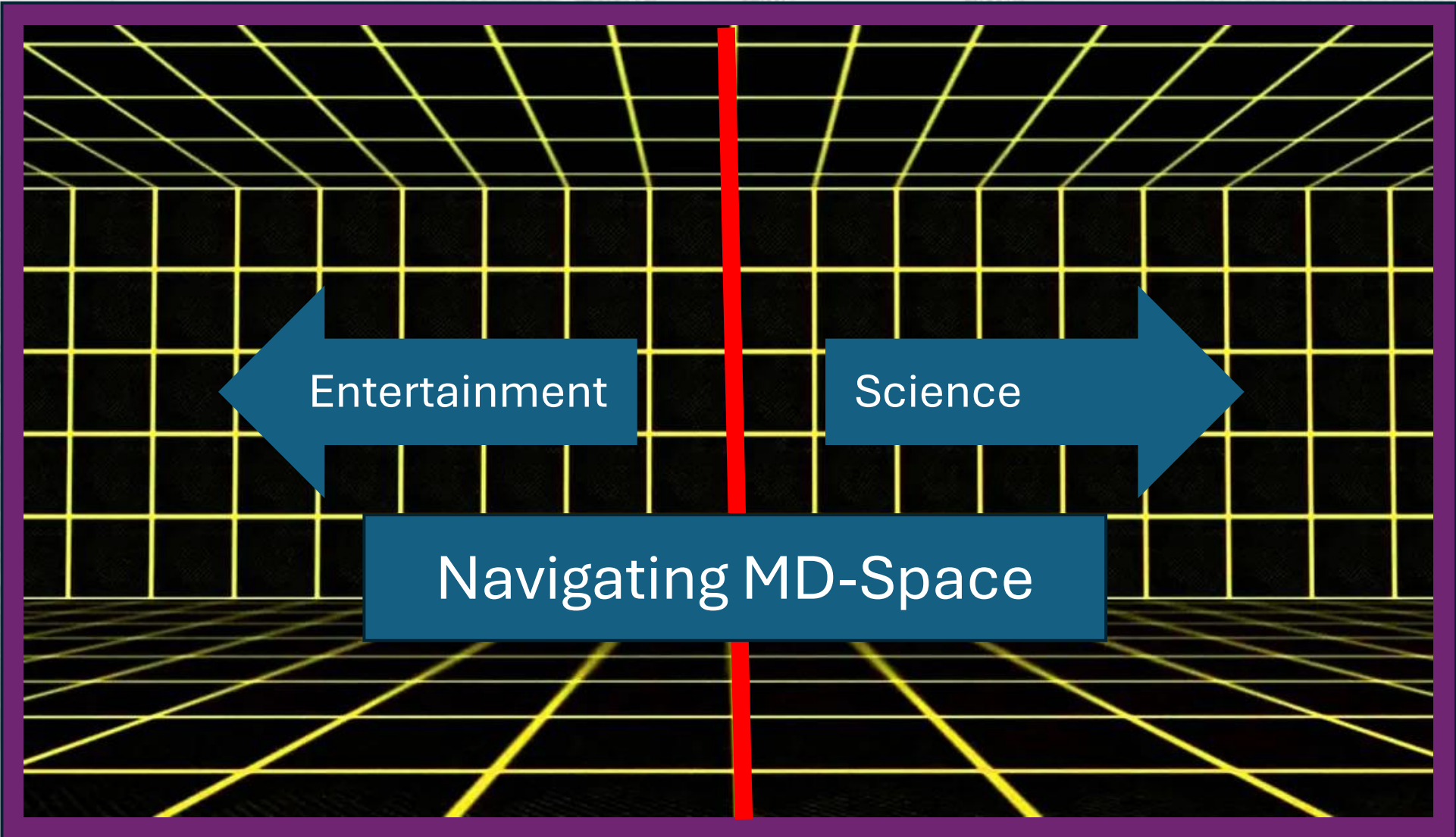
$$\mathcal{L}_{\text{Interaction}} = -e_m J_{\text{Matter}}^\mu A_\mu - e_a J_{\text{Antimatter}}^\mu A_\mu$$

- J_{Matter}^μ and $J_{\text{Antimatter}}^\mu$: Current densities.
- A_μ : Mediator vector field.
- e_m and e_a : Effective charges.

$$\mathcal{L}_{\text{Kinetic Mixing}} = -\frac{\epsilon}{2} F^{\mu\nu} F'_{\mu\nu}$$



My PhD Work: The Holodeck

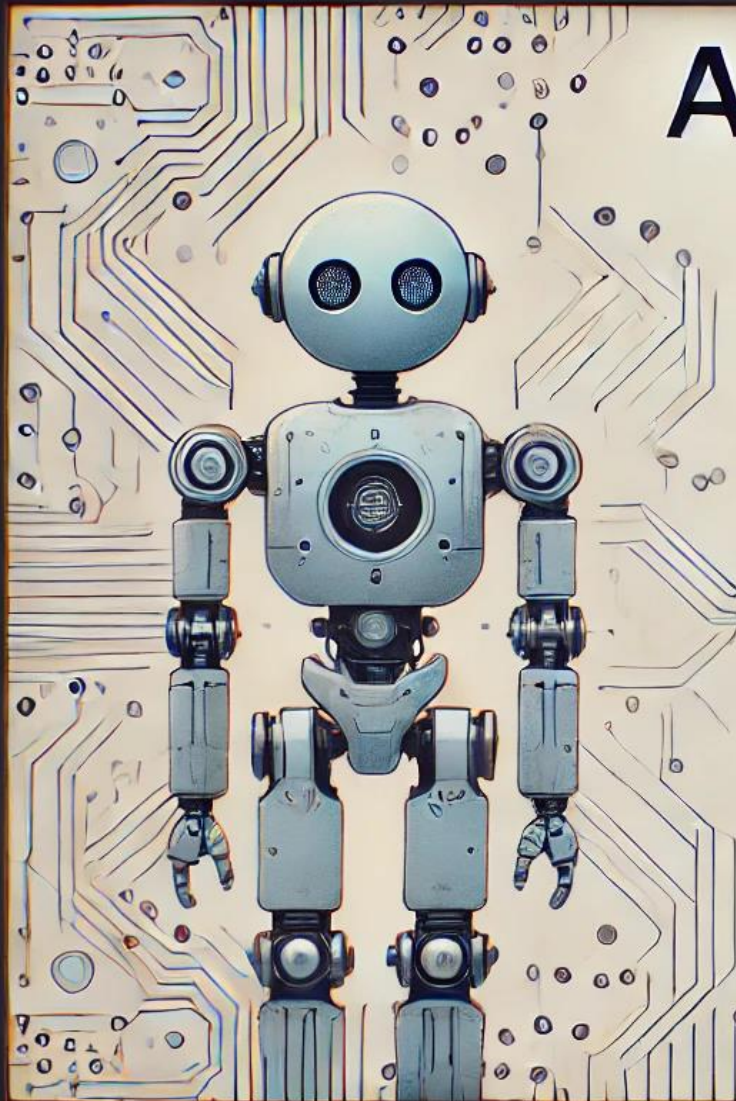




Questions



Appendix



- **Definitions & Glossary**

Definitions and glossary of terms used in the book.

- **Definitions & Glossary**

Definitions and glossary of terms used in the book.

- **Definitions & Glossary**

Definitions and glossary of terms used in the book.

- **Resources and**

Resources and references for further reading.

- **Resources &**

Resources and references for further reading.

- **Resources & References**

Resources and references for further reading.

Short definitions

Short definitions of key terms.

Short definitions

Short definitions of key terms.

References

References for further reading.

References

References for further reading.

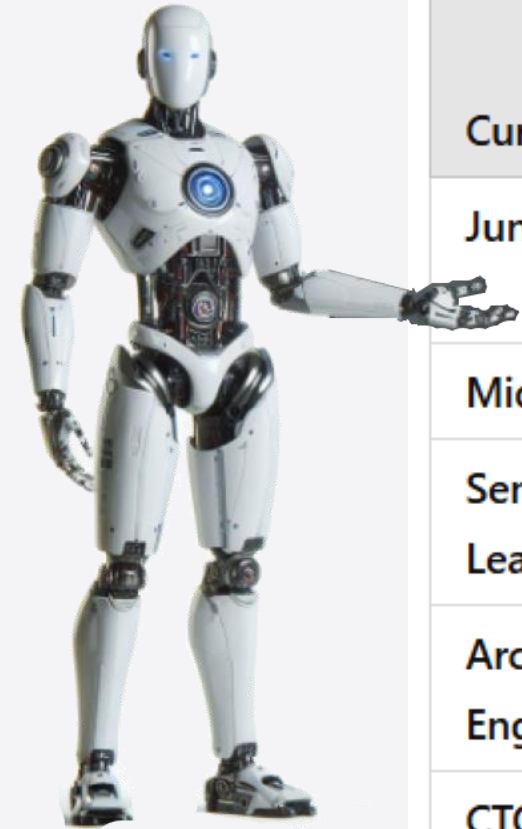
Resources &

Resources and references for further reading.

References

References for further reading.

2030 Changing Roles in Software Development

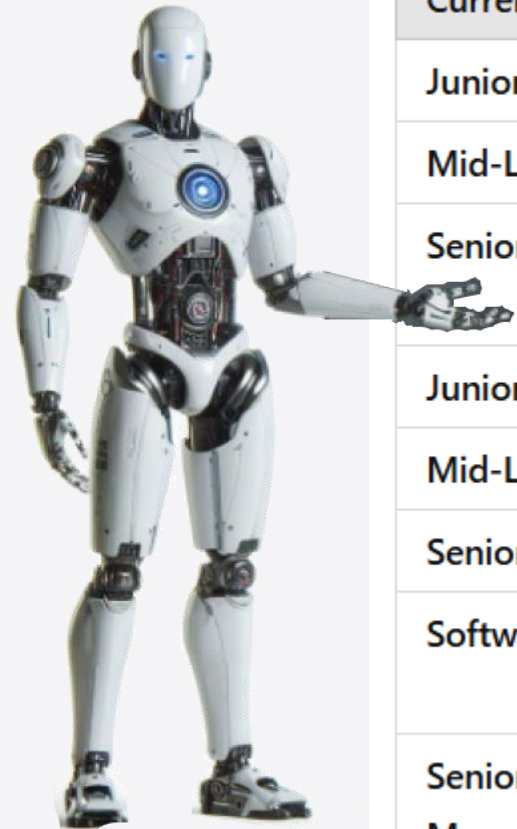


Current Role	Redefined Role with AI	Average LOC (with AI & Prompt Engineering)	Agentic Potential (Yes/No)
Junior Developer	Prompt Engineer, AI-Assisted Developer	3,000 - 5,000 LOC	Yes
Mid-Level Developer	AI Developer, Solution Architect	8,000 - 10,000 LOC	Yes
Senior Developer / Lead Developer	System Architect, AI Collaborator	8,000 - 12,000 LOC	Yes (partially)
Architect / Engineering Manager	AI Strategist, System Designer	4,000 - 6,000 LOC	No
CTO / Chief Architect / Consultant	AI-driven Innovation Leader, Strategic Technology Advisor	2,000 - 4,000 LOC	No

2030 Changing Roles in Program Management

Management Roles:

Current Role	Redefined Role with AI	Agentic Potential (Yes/No)
Junior Program Manager	AI-Assisted Coordinator, Task Automator	Yes
Mid-Level Program Manager	AI-Driven Project Optimizer, Agile Facilitator	Yes
Senior Program Manager	AI-Supported Strategic Planner, Project Architect	Yes (partially)
Junior Scrum Master	AI-Assisted Scrum Facilitator, Task Automator	Yes
Mid-Level Scrum Master	AI-Enhanced Agile Coach, Workflow Optimizer	Yes (partially)
Senior Scrum Master	Agile Architect, AI-Supported Team Strategist	No
Software Project Manager	AI-Enhanced Project Coordinator, Workflow Automator	Yes
Senior Software Project Manager	AI-Supported Project Leader, Strategic Decision Maker	No





The Moses Effect (Attention is all you need!)

Moses was there with the Lord forty days and forty nights without eating bread or drinking water. And he wrote on the tablets the words of the covenant—the Ten Commandments. When Moses came down from Mount Sinai with the two tablets of the covenant law in his hands, he was not aware that his face was radiant because he had spoken with the Lord. When Aaron and all the Israelites saw Moses, his face was radiant, and they were afraid to come near him. But Moses called to them; so Aaron and all the leaders of the community came back to him, and he spoke to them. Afterward all the Israelites came near him, and he gave them all the commands the Lord had given him on Mount Sinai.



The Moses Effect (Mirror Universe Framework!)

- **Yukawa-Type Couplings** (for scalar mediator):

$$\mathcal{L}_{\text{Interaction}} = -g_m \bar{\psi}_{\text{Matter}} \psi_{\text{Matter}} \Phi - g_a \bar{\psi}_{\text{Antimatter}} \psi_{\text{Antimatter}} \Phi + \text{h.c.}$$

- ψ_{Matter} and $\psi_{\text{Antimatter}}$: Fermion fields in each sector.
- g_m and g_a : Coupling constants.

- **Gauge Boson Couplings** (for vector mediator):

$$\mathcal{L}_{\text{Interaction}} = -e_m J_{\text{Matter}}^\mu A_\mu - e_a J_{\text{Antimatter}}^\mu A_\mu$$

- J_{Matter}^μ and $J_{\text{Antimatter}}^\mu$: Current densities.
- A_μ : Mediator vector field.
- e_m and e_a : Effective charges.

$$\mathcal{L}_{\text{Kinetic Mixing}} = -\frac{\epsilon}{2} F^{\mu\nu} F'_{\mu\nu}$$



Gig Economy (Fixes Talent Management)



Talent
Based

Flexible

Work on
Domain

Cost
Efficiency

Diverse
Skill Pool

Training
Enriched

AI
Enhanced

Incentive-
Based

Goal
Driven

Scalable

Evolving
System

Addictive

UP NEXT:

TRACK 1: WAYS OF WORKING, RM 1410

**EXPERIMENTING WITH GENAI TO CREATE
VALUE IN THE PRODUCT LIFECYCLE - WHAT
WORKS?**

-JOHN KITSON

TRACK 2: AI FOR TODAY/TOMORROW, RM 3240

**AI: CYBERSECURITY FRIEND OR FOE?
-DAVE HATTER**

TRACK 3: PEOPLE, PROCESS, TECHNOLOGY, RM 3265

**TOO MANY PROJECTS, TOO LITTLE SPACE
-VERNON STULTZ WITH DON CHINERY**

SUMMIT 2024 SURVEY



#cincysummit24

PDU ID: CO43TJDSJ8

PDU TYPE: POWER SKILLS

GO TO PMI.ORG FOR SUBMISSION