Project Management and AI

AI Hype

STAMFORD, Conn., March 20, 2019

Gartner Says 80 Percent of Today's Project Management Tasks Will Be Eliminated by 2030 as Artificial Intelligence Takes Over

EDUCATION

Why robots could replace teachers as soon as 2027

Dec 13, 2017

FORBES > LEADERSHIP > LEADERSHIP STRATEGY

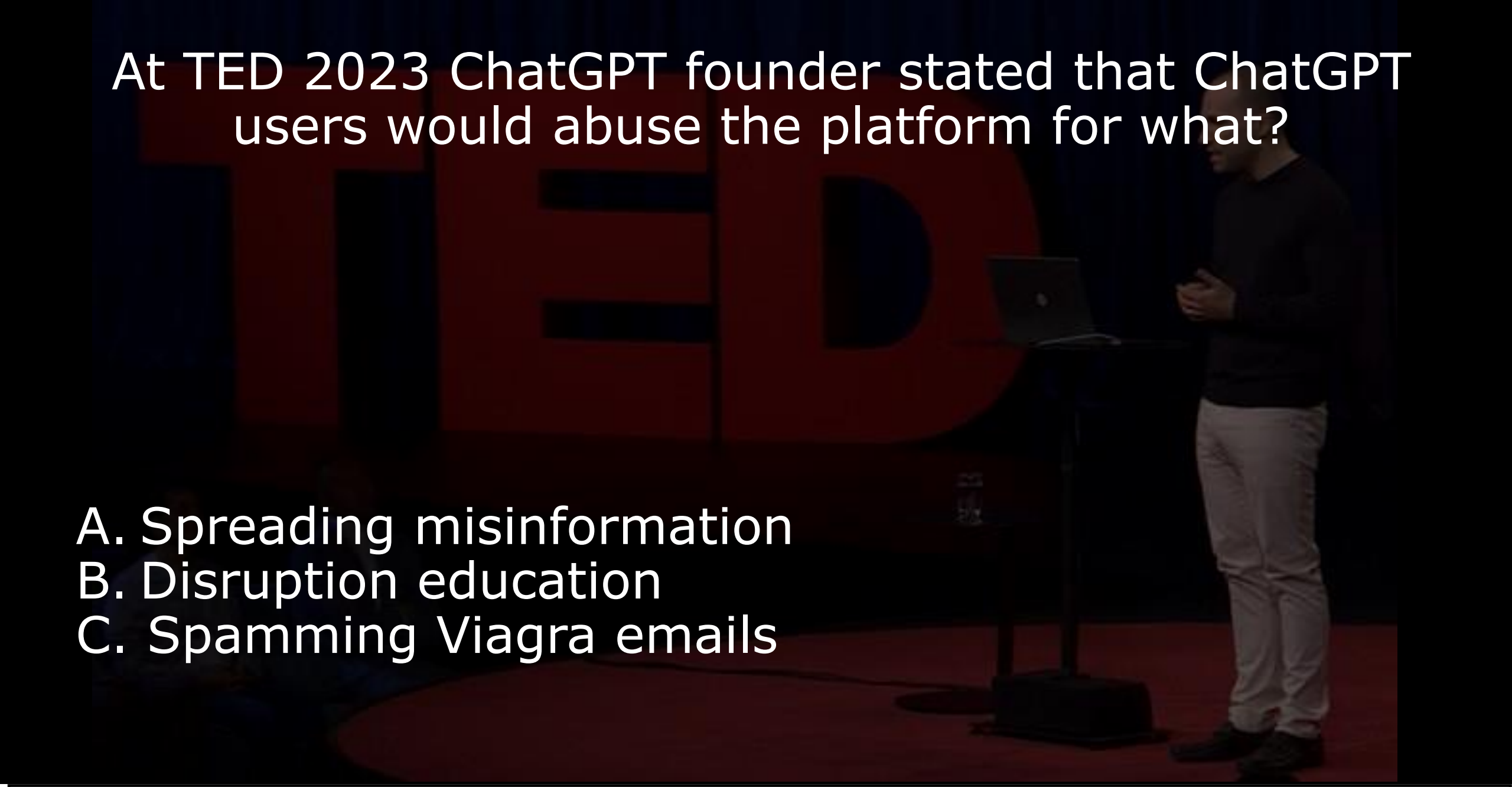
AI Will Save—Not Kill—Project Management

In 1965 Marvin Minsky said “machines will be capable of doing any work a human could do in…?

A. 3-5 years
B. 10-20 years
C. 20-30 years

co-founder of the Massachusetts Institute of Technology's AI laboratory

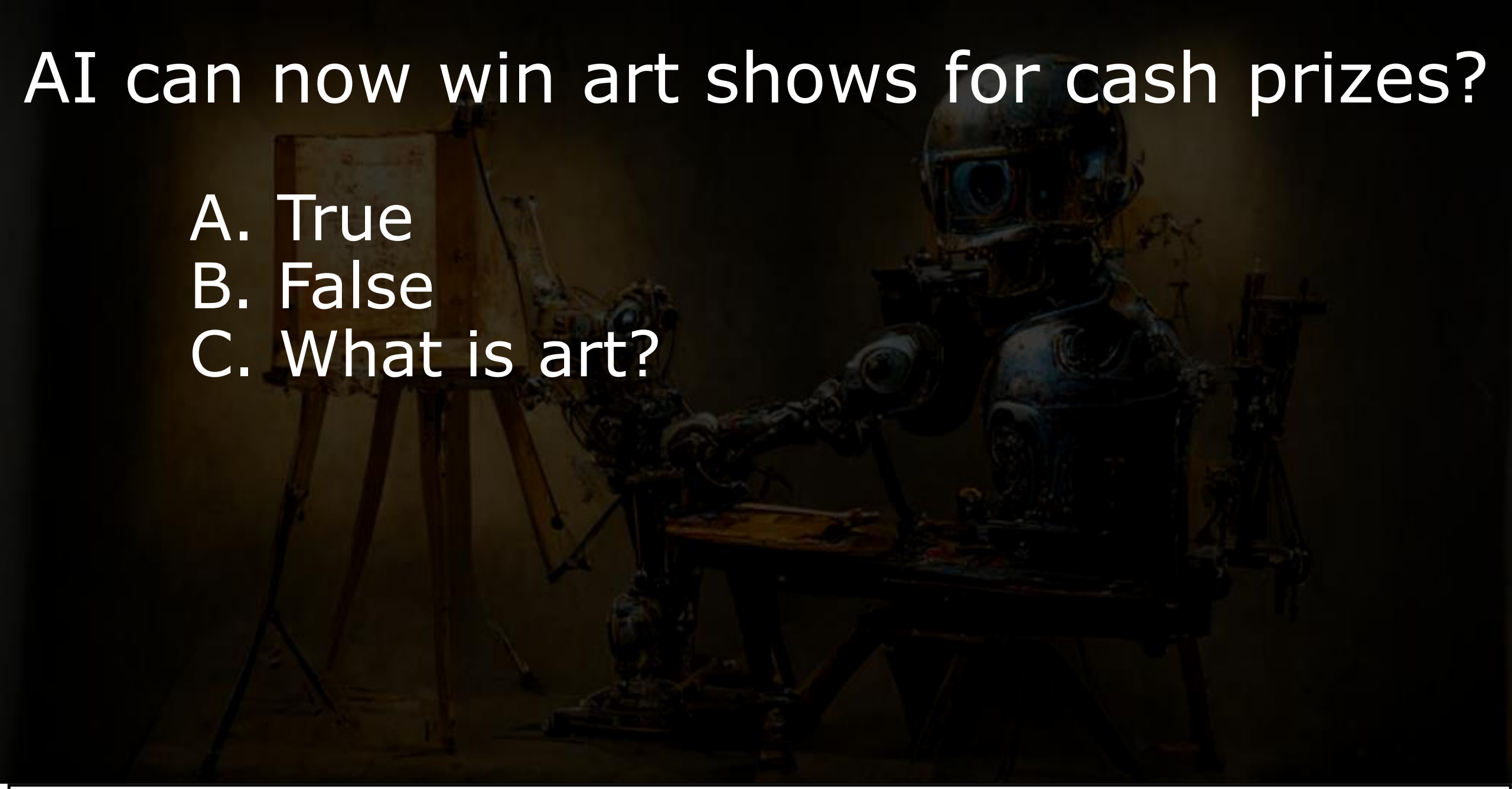
At TED 2023 ChatGPT founder stated that ChatGPT users would abuse the platform for what?



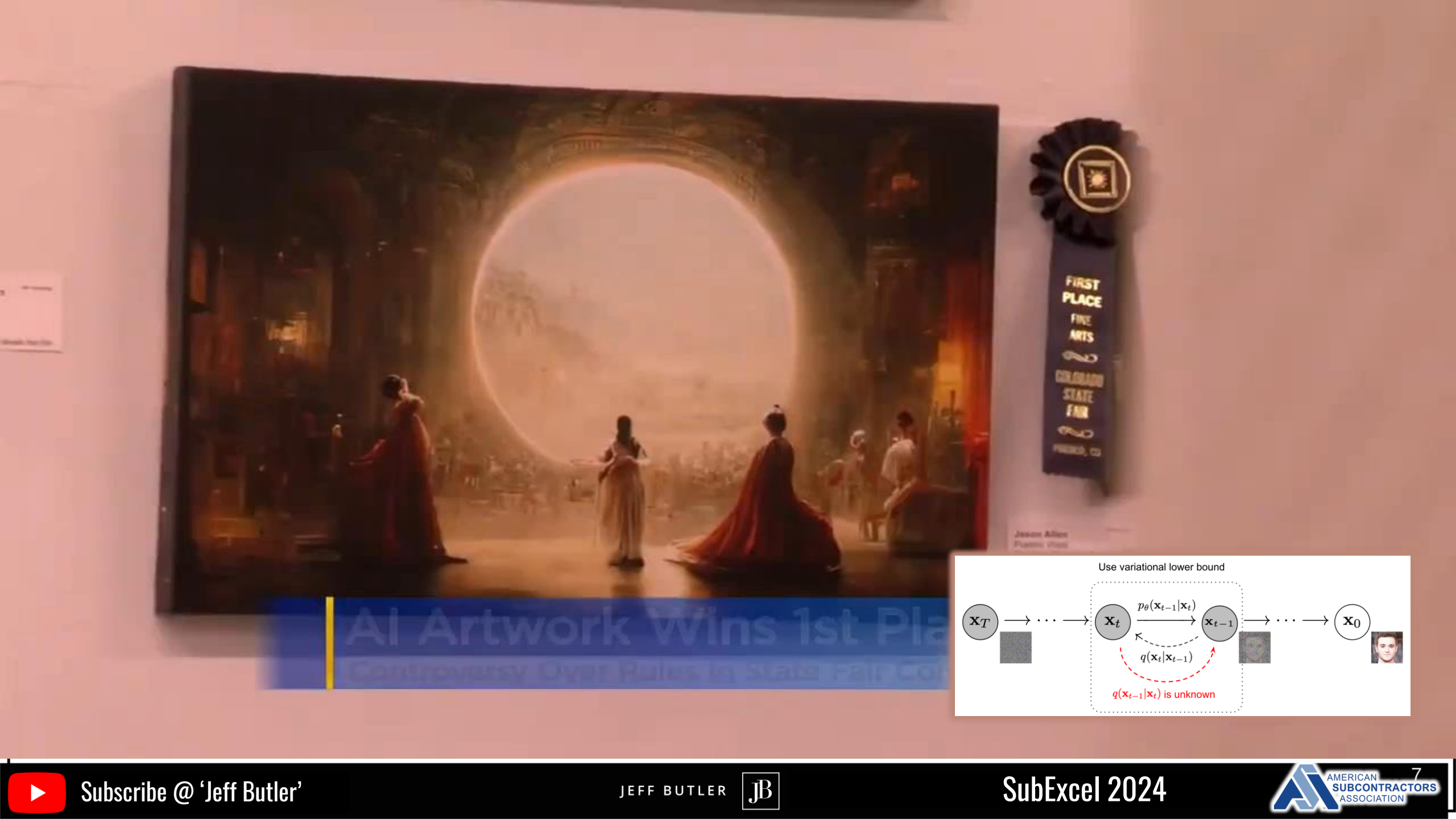
A. Spreading misinformation
B. Disruption education
C. Spamming Viagra emails

AI can now win art shows for cash prizes?

A. True
B. False
C. What is art?



Most Impressive Art?

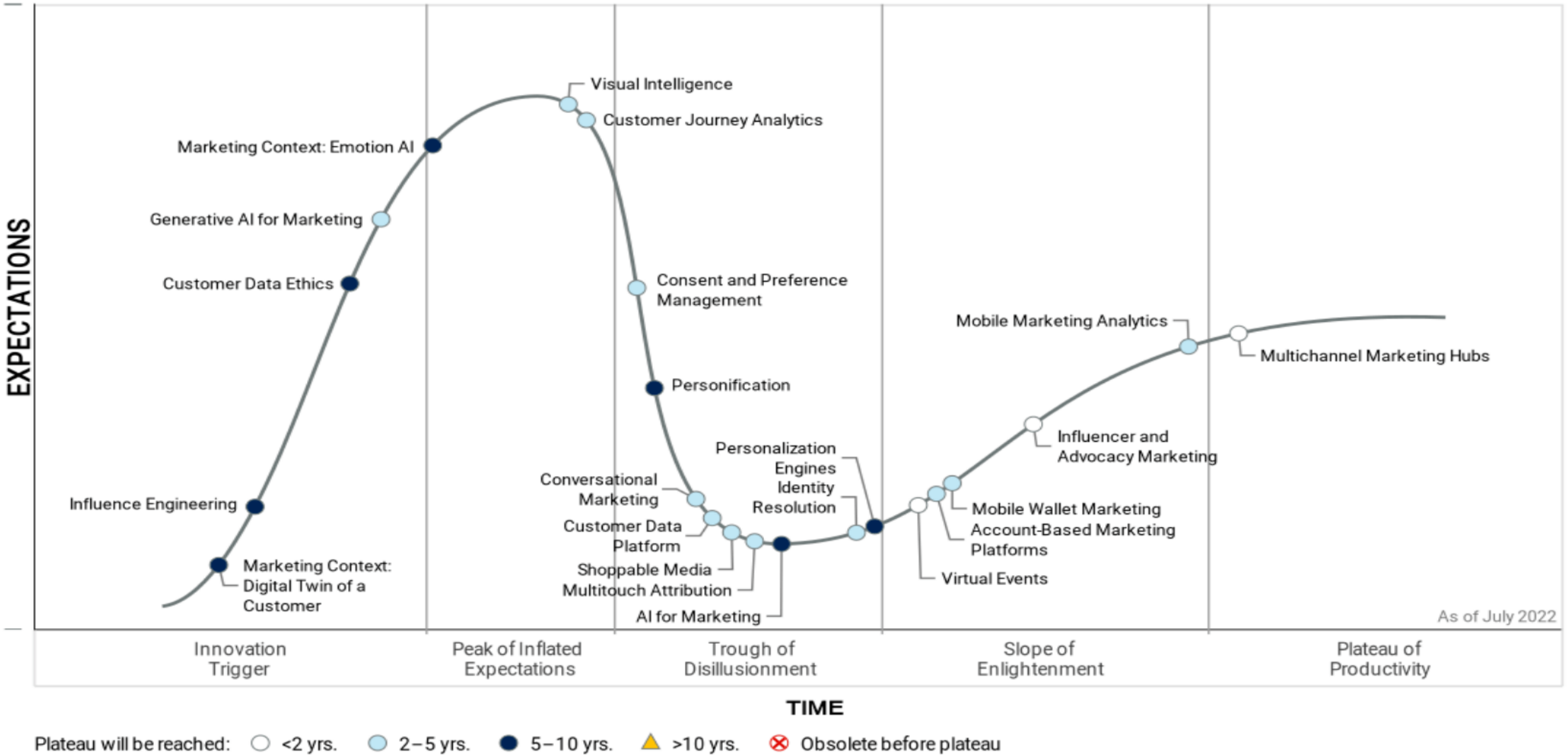

FIRST
PLACE
FINE
ARTS
COLORADO
STATE
FAIR
AI Artwork Wins 1st Pla
Use variational lower bound
$\mathbf{x}_T$
$\mathbf{x}_t$
$\mathbf{x}_{t-1}$
$\mathbf{x}_0$
$p_\theta(\mathbf{x}_{t-1}|\mathbf{x}_t)$
$q(\mathbf{x}_t|\mathbf{x}_{t-1})$
$q(\mathbf{x}_{t-1}|\mathbf{x}_t)$ is unknown

Your Three Door Future

Why Hope is Not Enough

Time to Reach 50 Mil. Users

Hype Cycle for Digital Marketing, 2022



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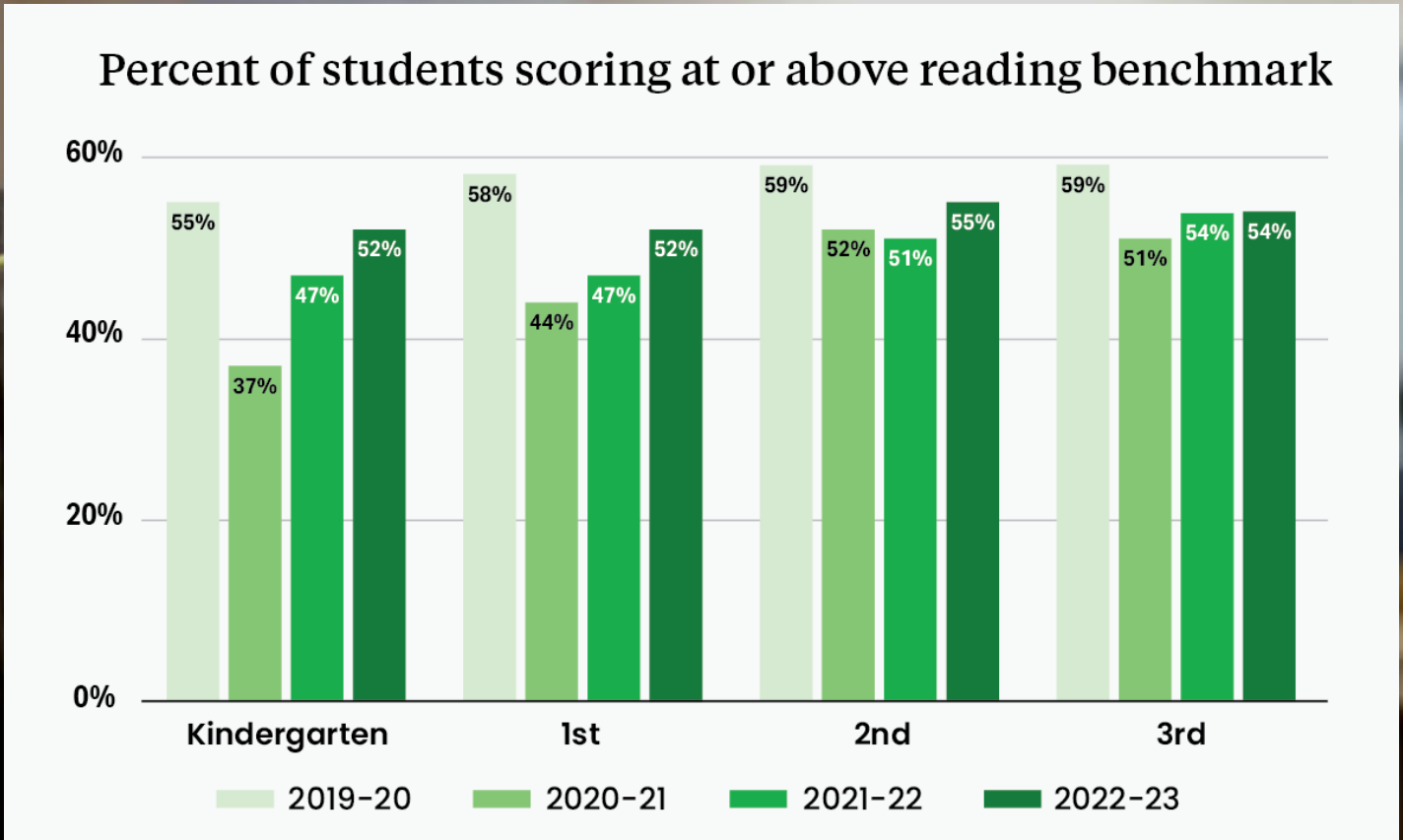
Leverage Area 1: Presence

Project Manager Areas

- Design Review
- Request For Information
- Change Orders
- Invoice & Payments

Classrooms and the Pandemic



Why Return Post-Covid?

Remote and In-Person Learning: Utility Versus Social Experience

Panos Photopoulos,[✉1] Christos Tsonos,[2] Ilias Stavrakas,[1] and Dimos Triantis[1]

▸ Author information ▸ Article notes ▸ Copyright and License information PMC Disclaimer

Teachers 1:15 Ratio UK
Teachers in the US 1:22 ratio kindergarten
Teachers increasing faster than students

Conclusion

Go to: ▸

Students who preferred in-person teaching focused on effective learning, and although they expressed their satisfaction for not commuting to the campus, they raised the problem of "zoom fatigue." They were interested in preserving and developing face-to-face relationships with their colleagues and teachers. They stressed the importance of face-to-face interactions in learning, socialisation, and psychological health and viewed education in a collectivistic way rather than focusing on fulfilling their individual needs.

Facebook is the latest major tech company to let people work from home forever

The social media giant is letting

home.

By Shirin Ghaffary | May 21, 2020, 4:41pm EDT

Post COVID-19, Coinbase will be a remote-first company

The Motley Fool

Our Services

FREE ARTICLE Join Over Half a Million Premium Members And G

Shopify Is Going Work

By Evan Niu, CFA – May 22, 2020 at 8:30AM

WORLD ECONOMIC FORUM

COVID-19

Microsoft will let employees work from home permanently

Oct 13, 2020

from home 'forever'

PUBLISHED TUE, MAY 12 2020•1:18 PM EDT | UPDATED TUE, MAY 12 2020•5:22 PM EDT

Megan Graham

@MEGANCGRAHAM

SHARE

From the Magazine (January–February 2014)

Personal Productivity

To Raise Productivity, Let More Employees Work from Home

by Nicholas Bloom

From the Magazine (January–February 2014)

TECHNOLOGY

Tesla gave workers permission to stay home rather than risk getting covid-19. Then it sent termination notices.

A day before their employment was threatened, two workers had spoken publicly of their concerns about conditions inside a plant

Meta (Facebook)'s Return To Office Policy &

By Henry O'Loughlin / Add comment / August 2, 2

Activision Blizza Office

'The majority o

By Luke Plunkett

FORTUN

Amazon Ends Fully Remote Work, Demands Staff Return to Office

The company follows the likes of Twitter, Disney and Tesla as it tells staff they must be in the office at least three days.

Written by **Jack Turner**

Updated on **February 18, 2023**

SUCCESS · SUCCESS

Disney er to-office mandate and more than 2,000 have signed a petition to fight back

BY **WILL DANIEL**

February 17, 2023 at 4:31 PM CST

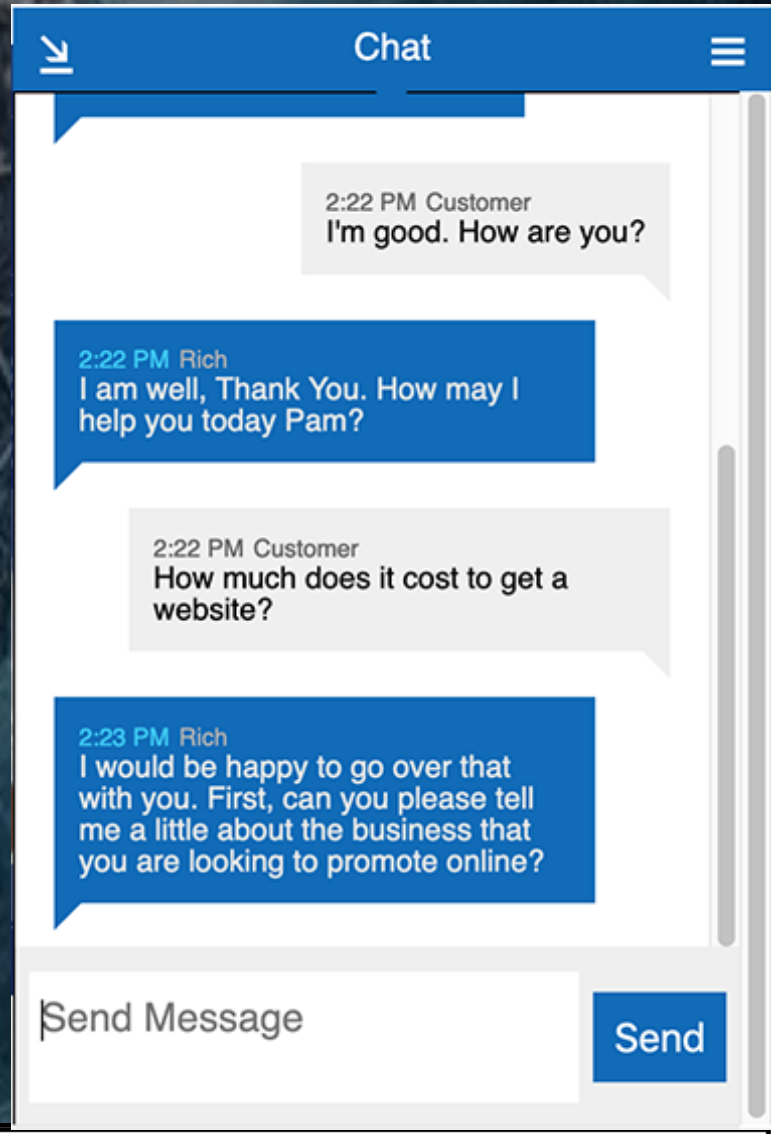
TECH · APPLE

Apple tries again to bring workers back to the office with mandatory 3-days-per-week policy

ARE YOU NOT ENTERTAINED?

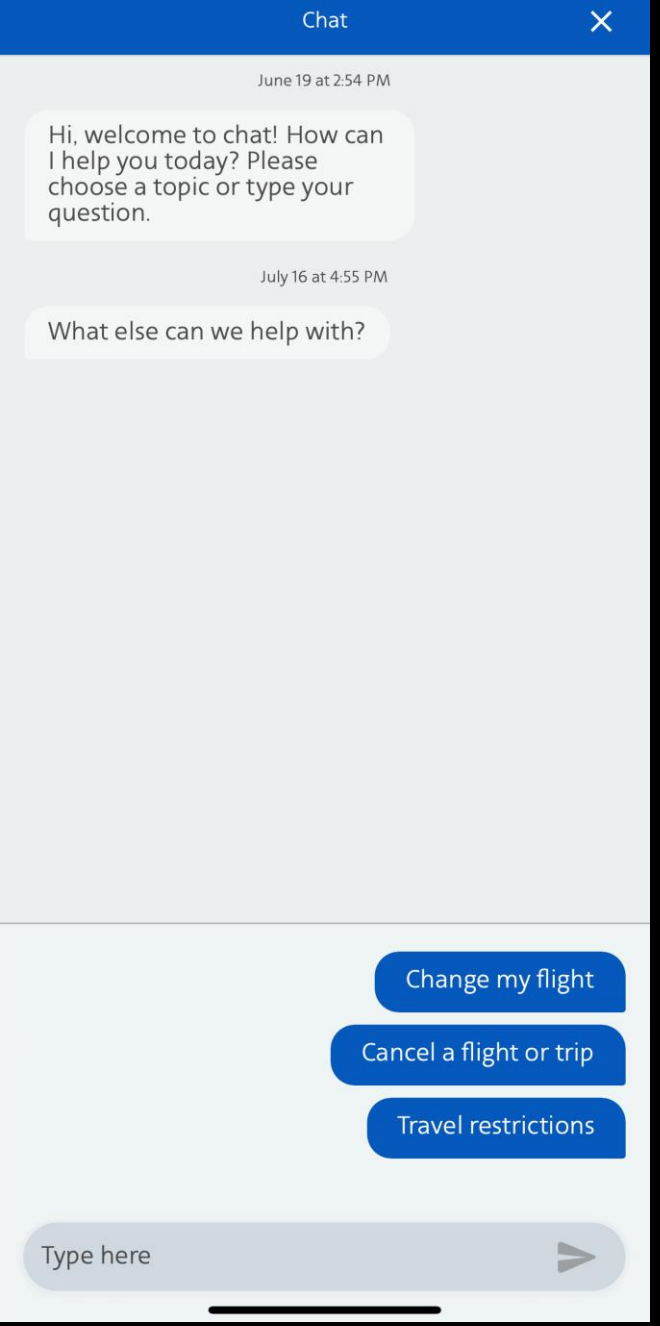
Handling Requests Without Your Presence?

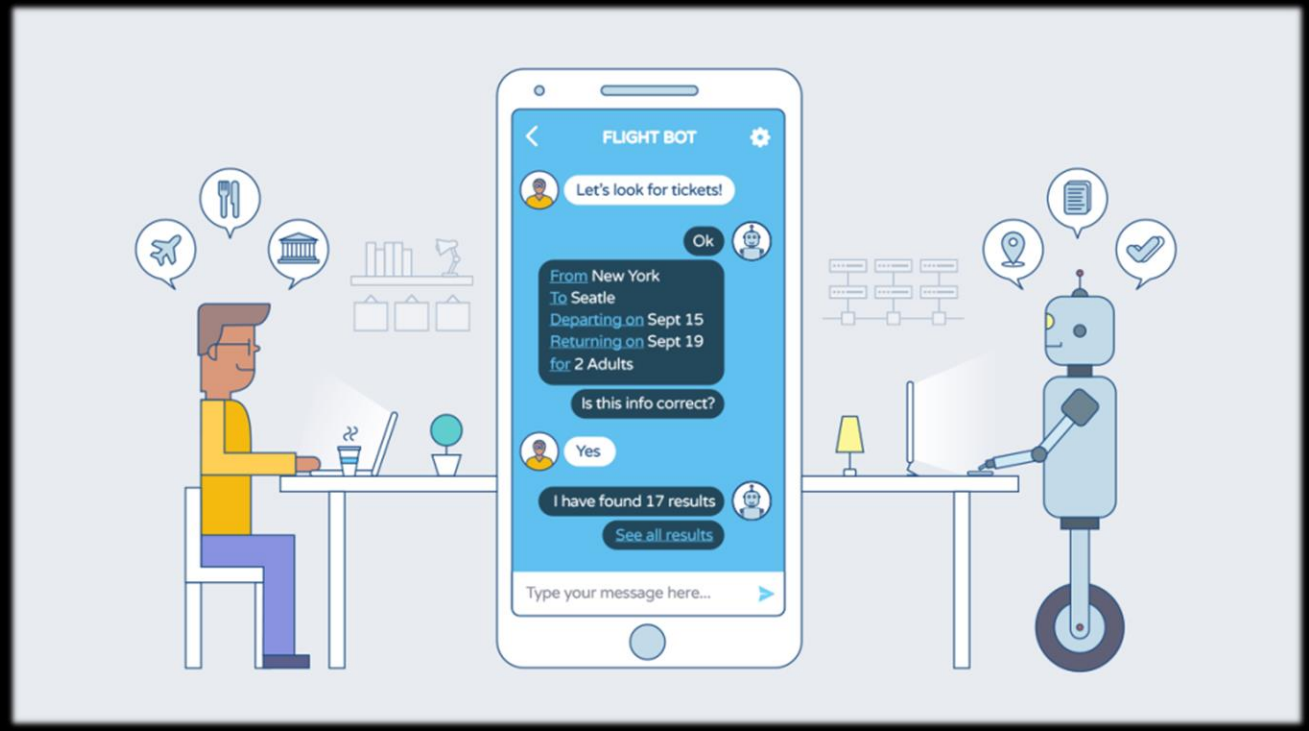
- **Handling Requests vs chatbot**
- **Level 0 | No autonomy-** a human is required to engage with the inquiry visitor.



Chatbots Possible? Chat Bot Levels

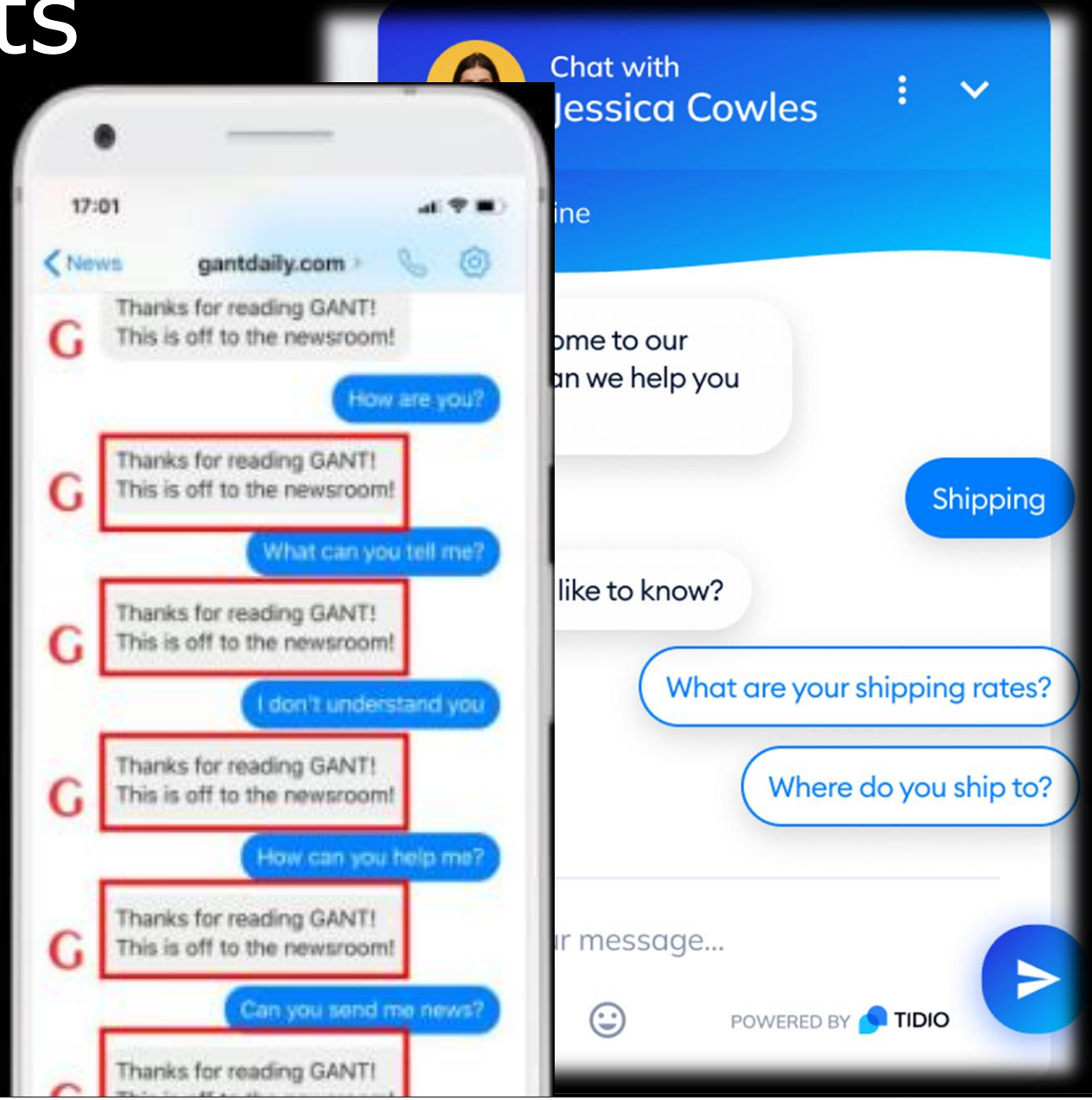
- **Level 1 | Very limited autonomy-** "Traffic Bots"; a short series of buttons or simple questions.



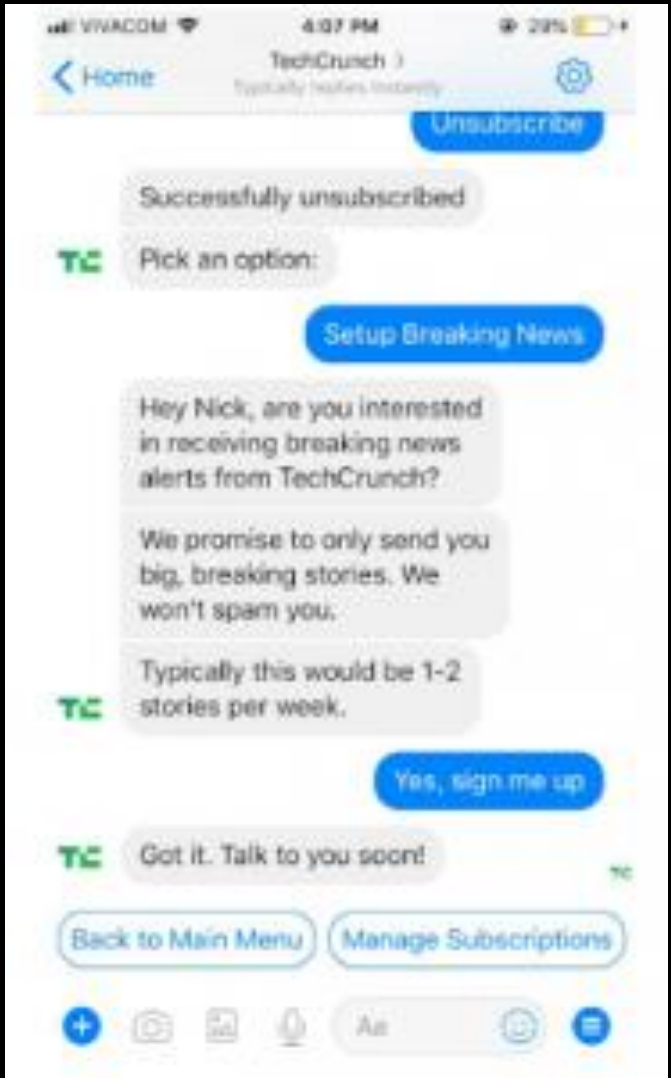


Handling Requests Without Your Presen

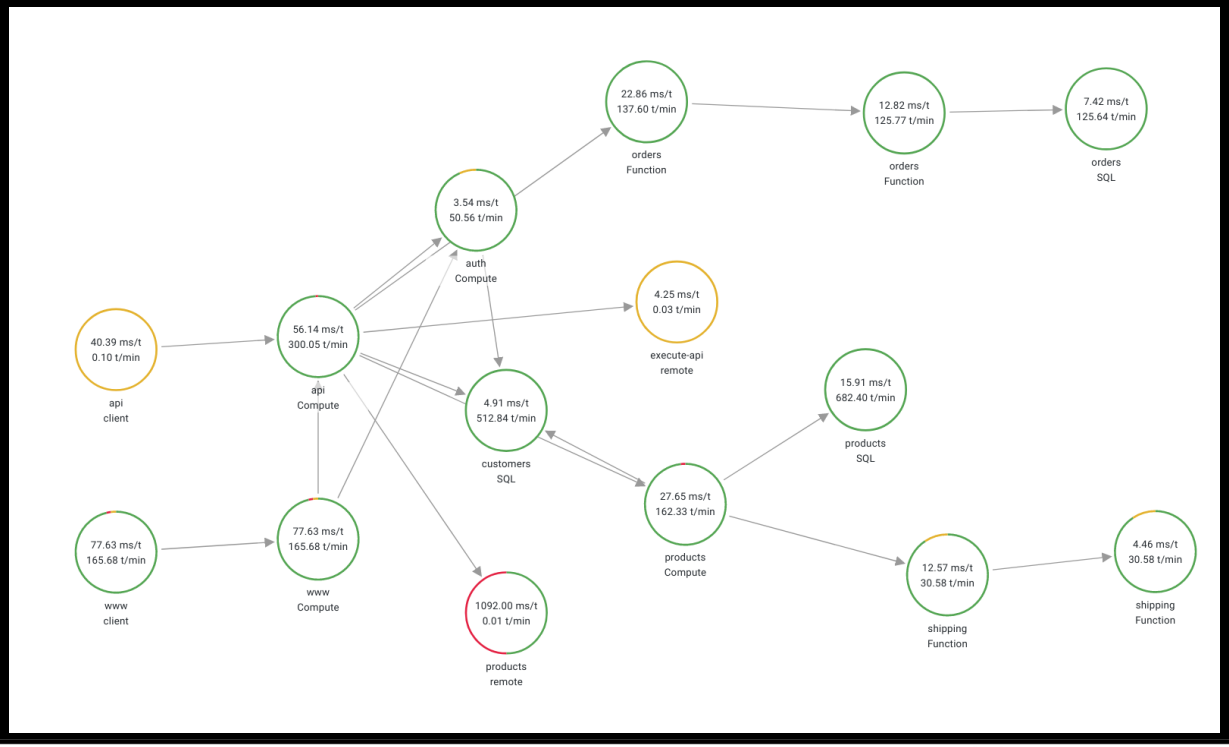
- **Level 2 | Basic autonomy.** The "FA can answer questions based on a static knowledgebase of frequentl questions
  - Useful for stack holder inquirie
  - Could lead to frustrated results



Handling Requests Without Your Presence?

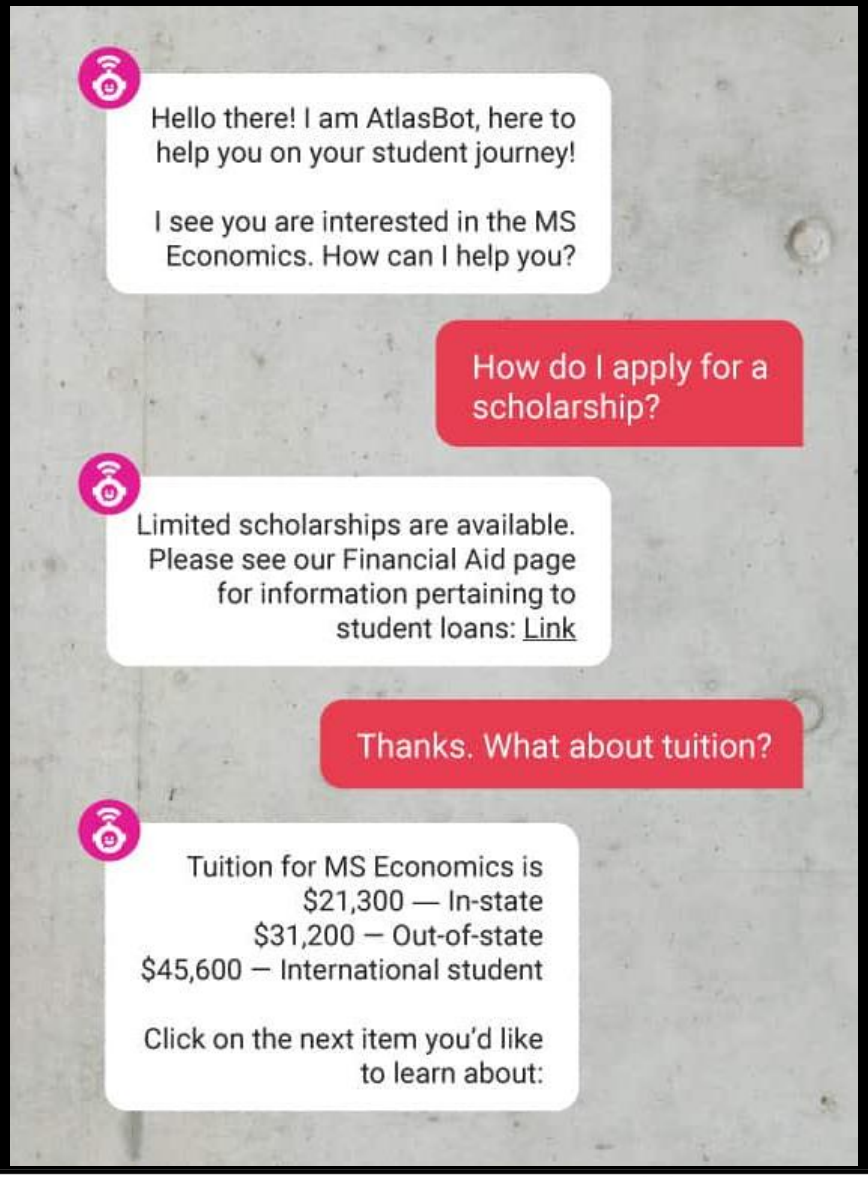


- **Level 3 | A more intelligent use of autonomy.** The "Guiding FAQ Bot" has a more robust use of natural language processing limited to static database of answers.



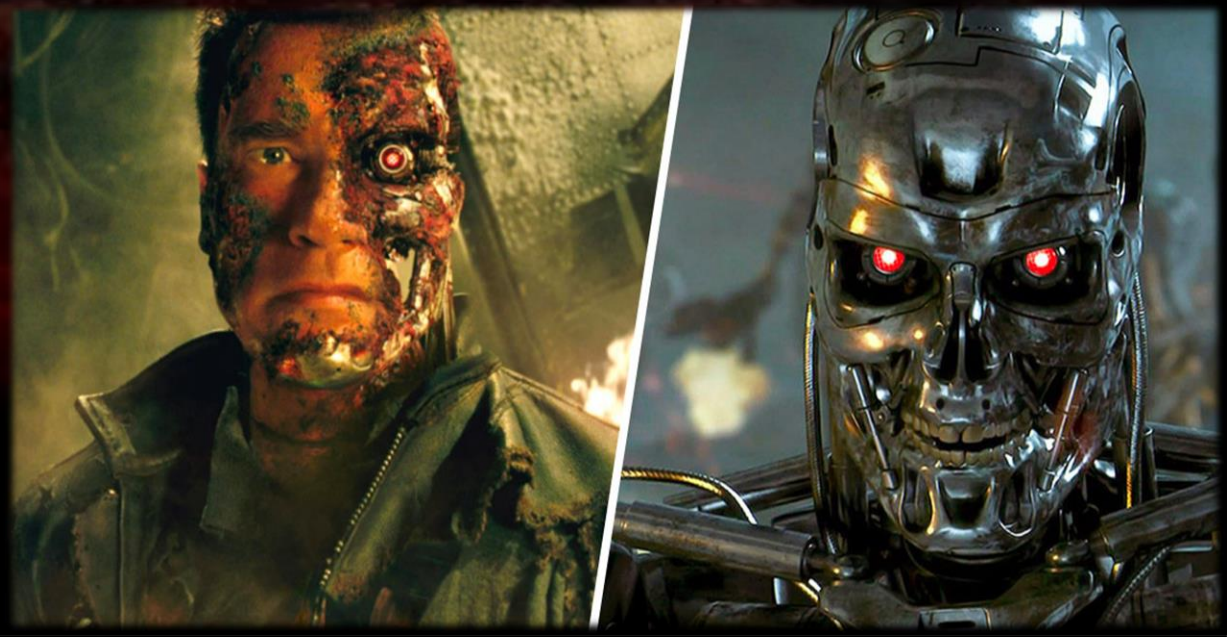
Handling Requests Without Your Presence?

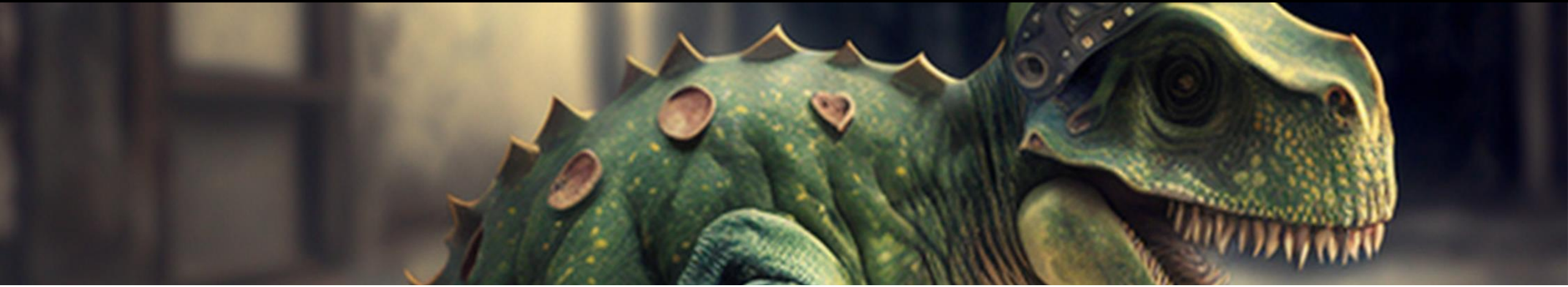
- **Level 4 | Advanced autonomy.** An "Autonomous Bot" can draw on dynamic data that continuously changes (live inventory and data feeds) and is context-aware.



Handling Requests Without Your Presence?

- **Level 5 | Human-like autonomy.** "Fully Autonomous Bots" can handle all situations without the need for a human. This level also means the bot will learn and teach itself autonomously, continually improving and evolving.





Level 5 | Human-like autonomy. "Fully Autonomous Bots" can handle all situations without the need for a human. This level also means the bot will learn and teach itself autonomously, continually improving and evolving. This is the most advanced form of artificial intelligence. Chatbot technology is not quite here yet.

Technical Writing?

Singularity

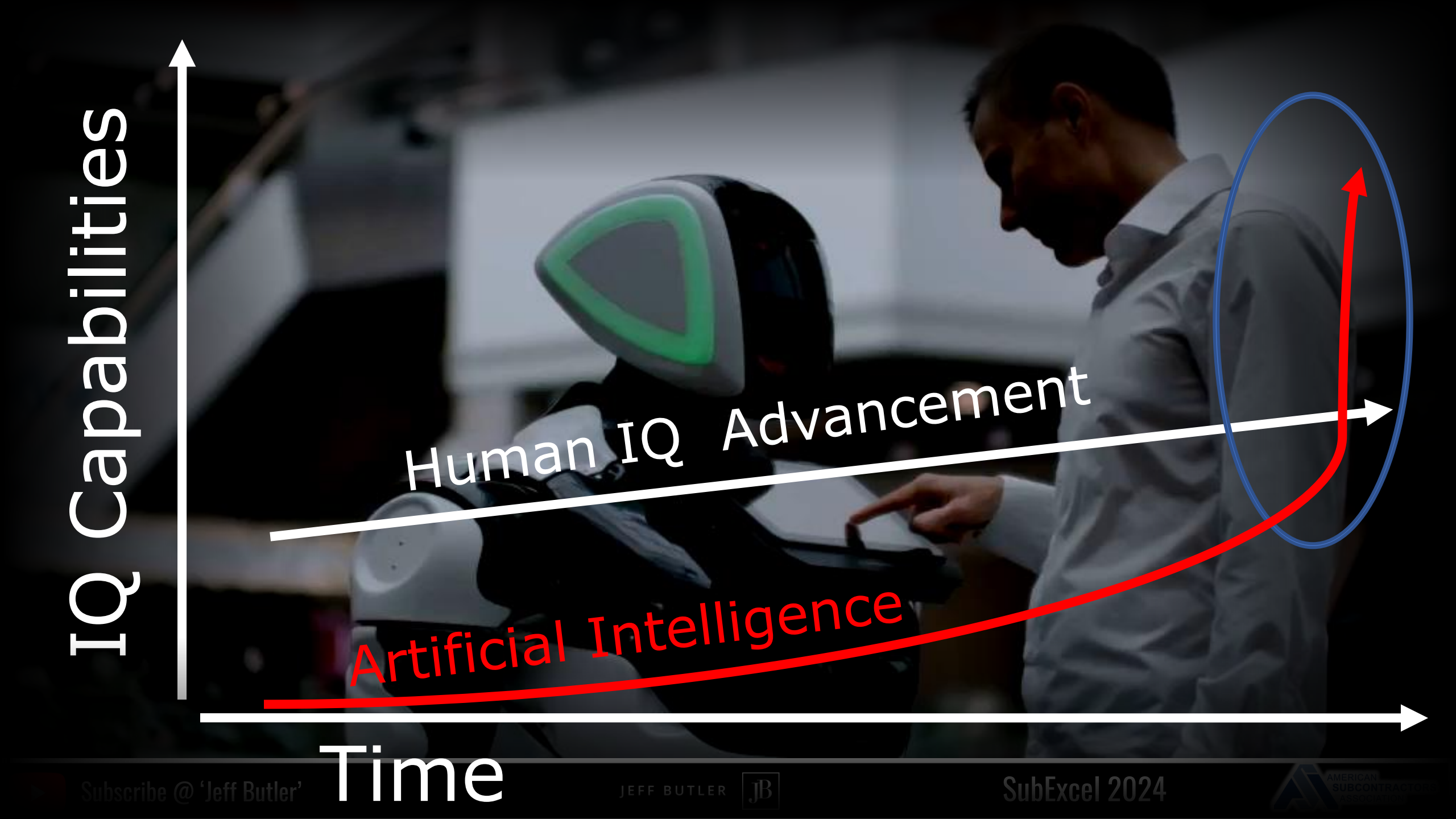
AI ARMS RACE

Tech Leaders Sign Open Letter Calling for Pause on AI Development

"It comes down to remaining in control of systems that are very powerful, maybe more powerful than we are," says one signer. "We don't know how to control these models or how to exploit them fully"

BY ETHAN MILLMAN

MARCH 30, 2023

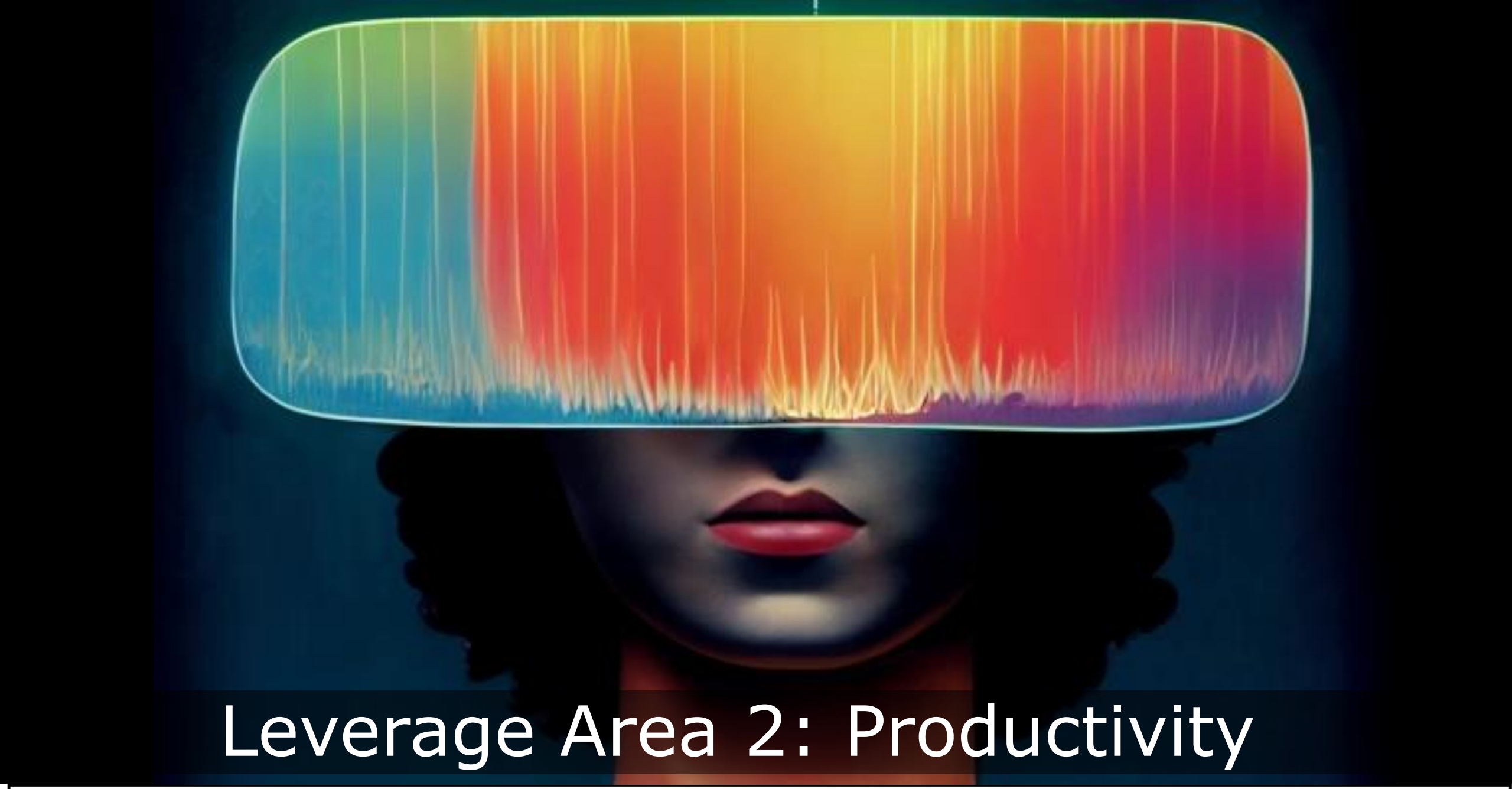

IQ Capabilities
Human IQ Advancement
Artificial Intelligence
Time

COGNIGY

responsive
formerly RFPIO

SERVISBOT

Tools to try out

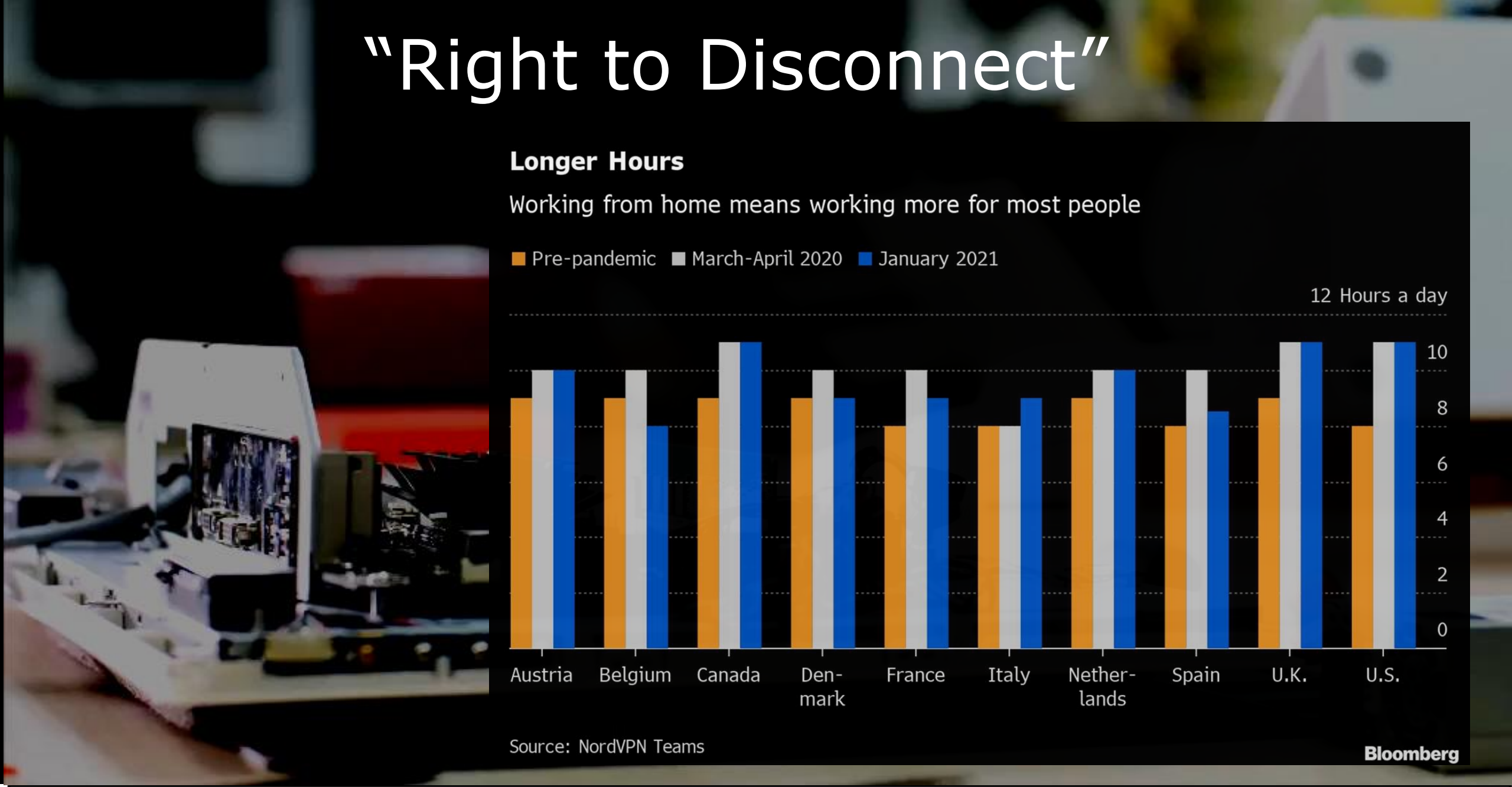


Leverage Area 2: Productivity

Project Manager Areas

- Design Review
- Request For Information
- Change Orders
- Invoice & Payments

“Right to Disconnect”

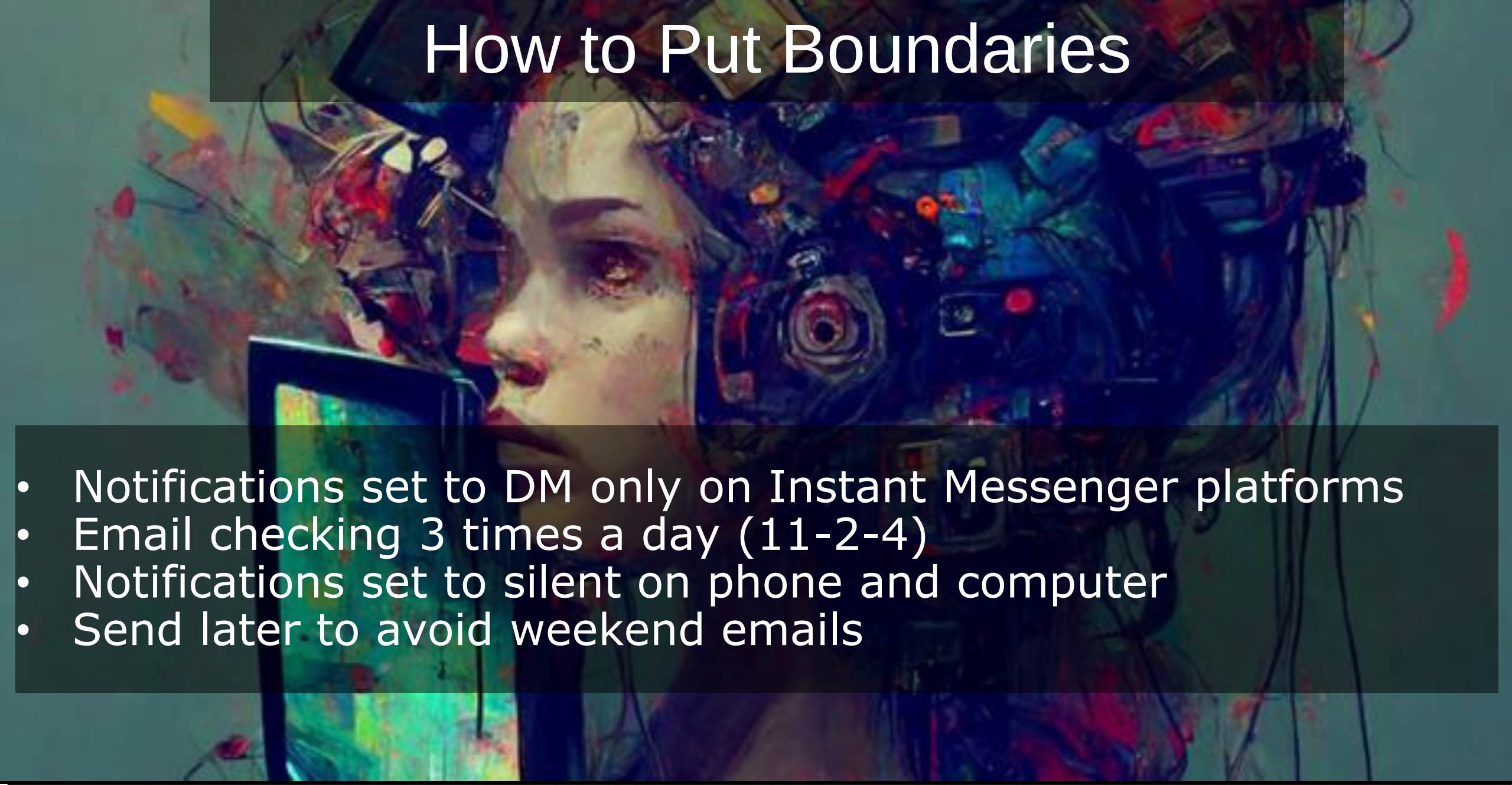


Countries that are Pushing Back

- France - 2016
- Italy -2017
- Spain – 2018
- Ireland, Portugal – 2021

"employers have the duty to refrain from contacting workers during their rest period, except in situations of force majeure."

How to Put Boundaries



- Notifications set to DM only on Instant Messenger platforms
- Email checking 3 times a day (11-2-4)
- Notifications set to silent on phone and computer
- Send later to avoid weekend emails

Automation areas

- Meeting times (Change Orders)
- Resource reminder (expediate, update)
- Task assignment (Design Review Phase)
- Automated approvals (Bidding process)
- Automated reports
- Automated workflows(Design Review Phase)

Miami Lunch Spots

Automations Center | Board Automations / 2 | Account Usage

Categories

- Basic
- Featured
- Notifications
- Status Change
- Recurring
- Due Dates
- Item Creation
- Move Item
- Subitems
- Dependencies
- Custom

Give feedback

in board

Learn to **automate** your workflow in **3 minutes**

Item Creation

When **status** changes to **something**, create an **item** in **board**

Supports subitems

Add to board

When due date arrives, create an **item** in **board**

Add to board

When **person** is assigned to **someone**, create an **item** in **board**

Add to board

When an item is created in this board, create an **item** in **another board** and connect them using a **connected boards column** in this board

Add to board

When **status** changes to **something**, create an **item** in **another board** and connect them using a **connected boards column** in this board

Add to board

When **person** is assigned to **someone**, create an **item** in **another board** and connect them using a **connected boards column** in this board

Add to board

When **status** changes to

When **status** changes to

When an item is created in this

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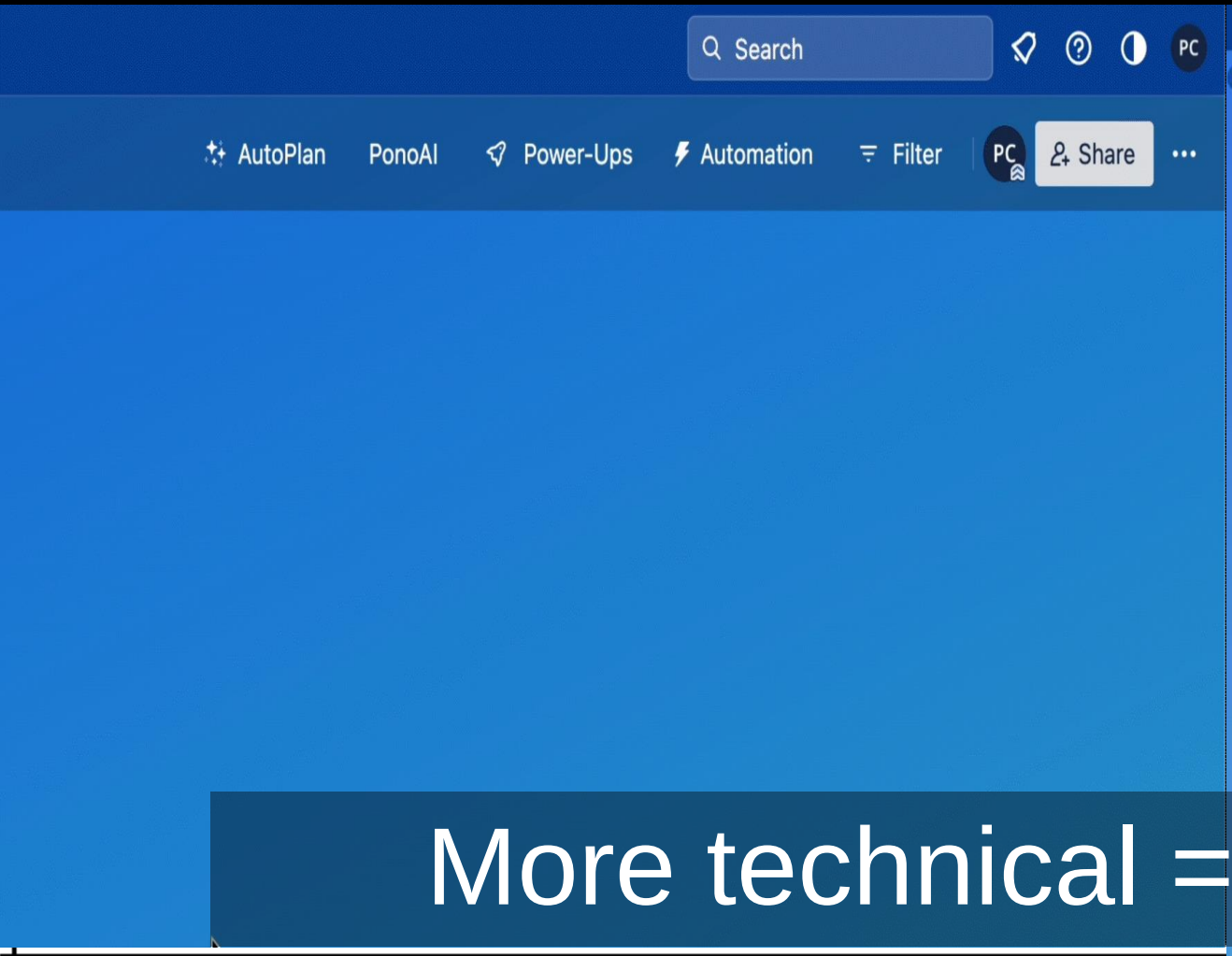
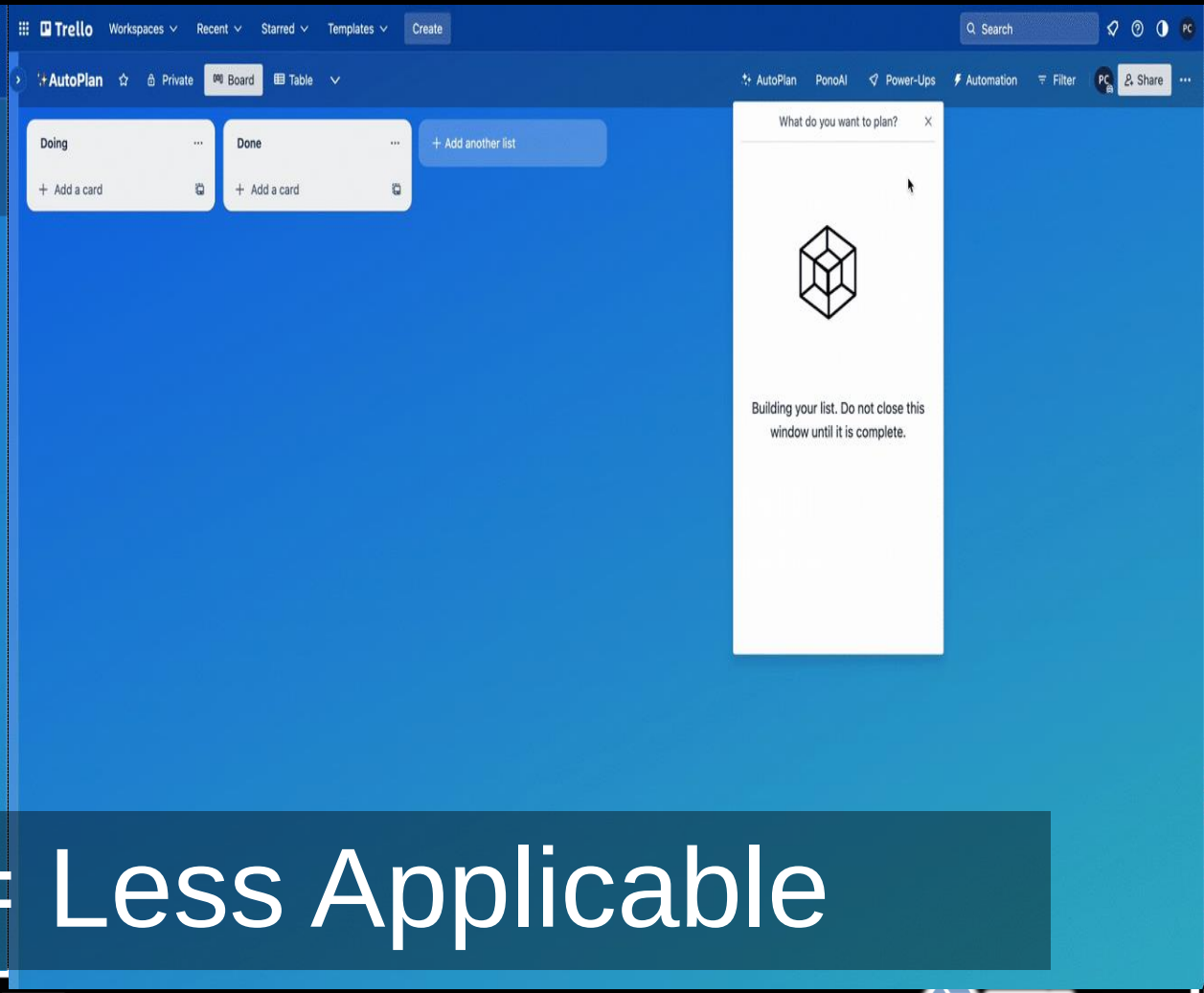
Auto checklist

Trello





More technical = Less Applicable

_zapier

Google

how to find things to automate

Generative AI is experimental. Learn more

Here are some steps to help you find things to automate:

1. Identify the problem: Define the problem you need to solve.
2. Track tasks: Review your daily tasks and list your repeated activities.
3. Identify automation opportunities: Consider:
    - Team collaboration
    - Brainstorming
    - Creating a shortlist of automation candidates
    - Determining automation scalability
    - Processes prone to human error
    - Processes with long queues, long hold times, low staff morale, teams working late, poor client/customer satisfaction

AI Leverage Potential

- Columns (Activity, Frequency, Last Checked, Automatable)
- Write all the activities you do in a month
- Partition, AI vs standard technology

Business	Type	SOPs	Frequency	Last Checked
JBI	Employees	Are they getting enough leads?	Weekly	2/4/2024
		Are they hitting the right activity level?	Weekly	2/4/2024
		Are they managing their pipeline correctly?	Monthly	1/30/2024
		Are they using the right call technique?	Weekly	2/7/2024
		Are they using the right email technique?	Weekly	2/7/2024
		Are they meeting the appointment quota?	Monthly	1/12/2024
		Are they meeting the closed amount quota?	Monthly	1/12/2024
		Are they meeting the right pipeline utilization score?	Weekly	2/7/2024
		Are they reaching out to leads that have budgets?	Monthly	1/12/2024
		Are they having any issues with technology?	Monthly	1/30/2024
		Are stats being tracked appropriately on Team Stats Tracker?	Monthly	1/19/2024
	Lead Aggregation	Are each data collector getting leads for appointment setters? (5-10/day)	Weekly	2/7/2024
		Are the data collectors properly updating incorrect leads?	Weekly	2/7/2024
		Are weekly EOD sent?	Weekly	2/9/2024
	Executive Assistance	Are flights booked in a timely manner?	Monthly	1/12/2024
		Are expenses collected, sent and paid by clients?	Monthly	1/12/2024
		Are hotels, gyms, and presentation slides booked in calendar?	Monthly	1/12/2024
		Is speaking schedule maintained?	Monthly	1/29/2024
		Is payroll collected and emailed twice a month?	Biweekly	2/7/2024
	Google Adwords	If a manager is present, are they managing the ads with a 300% ROAS?	Weekly	2/7/2024
		Are there unnecessary negative keywords?	Weekly	2/7/2024
		Are the ads for keywords being tested?	Monthly	1/12/2024
	Website	Is the site active and all contact forms working?	Monthly	1/30/2024
		Are the best videos displayed on the website?	Quarterly	11/30/2023
		Is the speaking schedule updated?	Monthly	1/30/2024
		Are the programs relevant and of interest to event planners?	Quarterly	11/30/2023
	Social Media	Are all gigs posted about on social media? (LinkedIn, IG)	Weekly	2/9/2024
	Bureaus	Do all of the bureaus have updated programs and demo videos?	Quarterly	11/30/2023
		Are you reaching out to bureaus to watch you speak at certain events in their	Monthly	1/19/2024
	Speech Writing	Are all speeches submitted on the due date?	Monthly	1/30/2024
	Management	Is the manager covering all of the available questions on a consistant basis?	Weekly	2/6/2024
		Is the manager QA-ing the team members?	Weekly	2/6/2024
		Are each Monday meeting presentation put together correctly?	Weekly	2/5/2024
	Money	Are all expenses classified?	Weekly	2/7/2024
		Is money allocated towards investments?	Quarterly	11/30/2023
		Are all expenses checked for recoccuring statements?	Quarterly	11/30/2023
		Are the right amount of taxes being properly withheld?	Quarterly	11/30/2023
	SEO	Is Google business up to date?	Monthly	1/30/2024
		Are reviews being collected from happy customers?	Monthly	1/30/2024
	Recruitment	Are we collecting resumes and different applicants for future jobs?	Monthly	1/18/2024
Revere Insurance	Employees	Are they getting enough leads?	Weekly	2/7/2024

Closed Loop Management

- Never forget a task
- Closed loop to IM daily to-do's

Leverage Area 3: Writing

* Not a real picture, Midjourney generated image

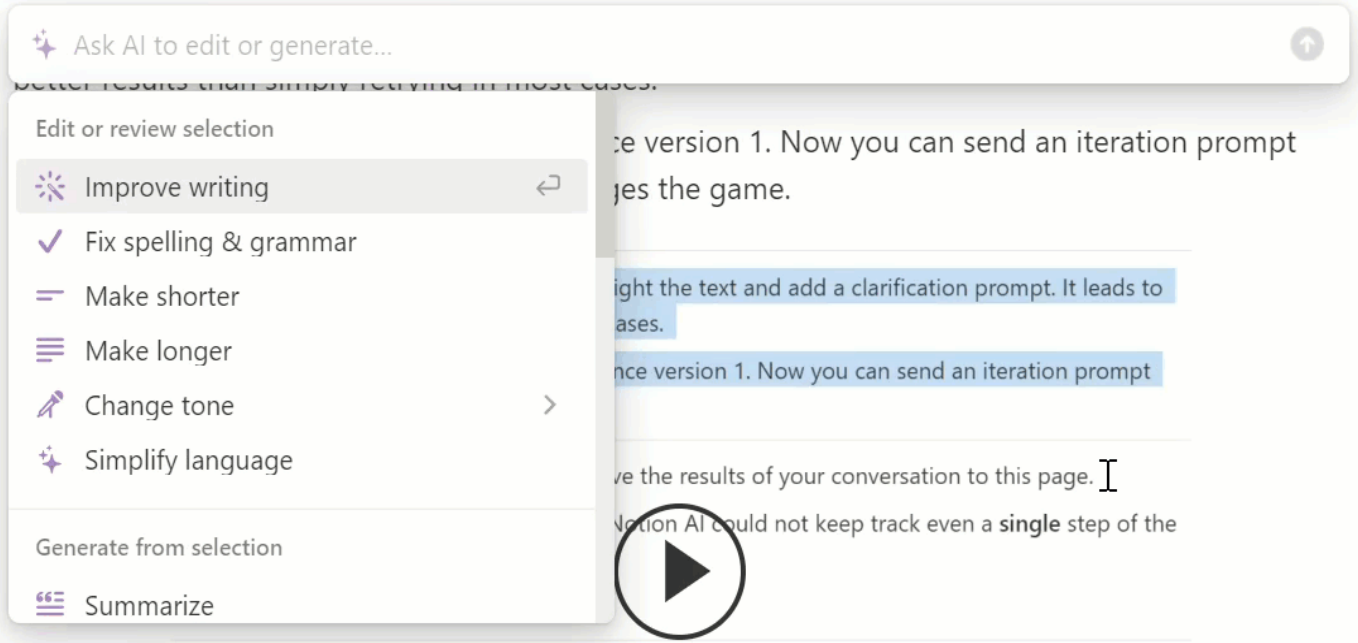
Project Manager Areas

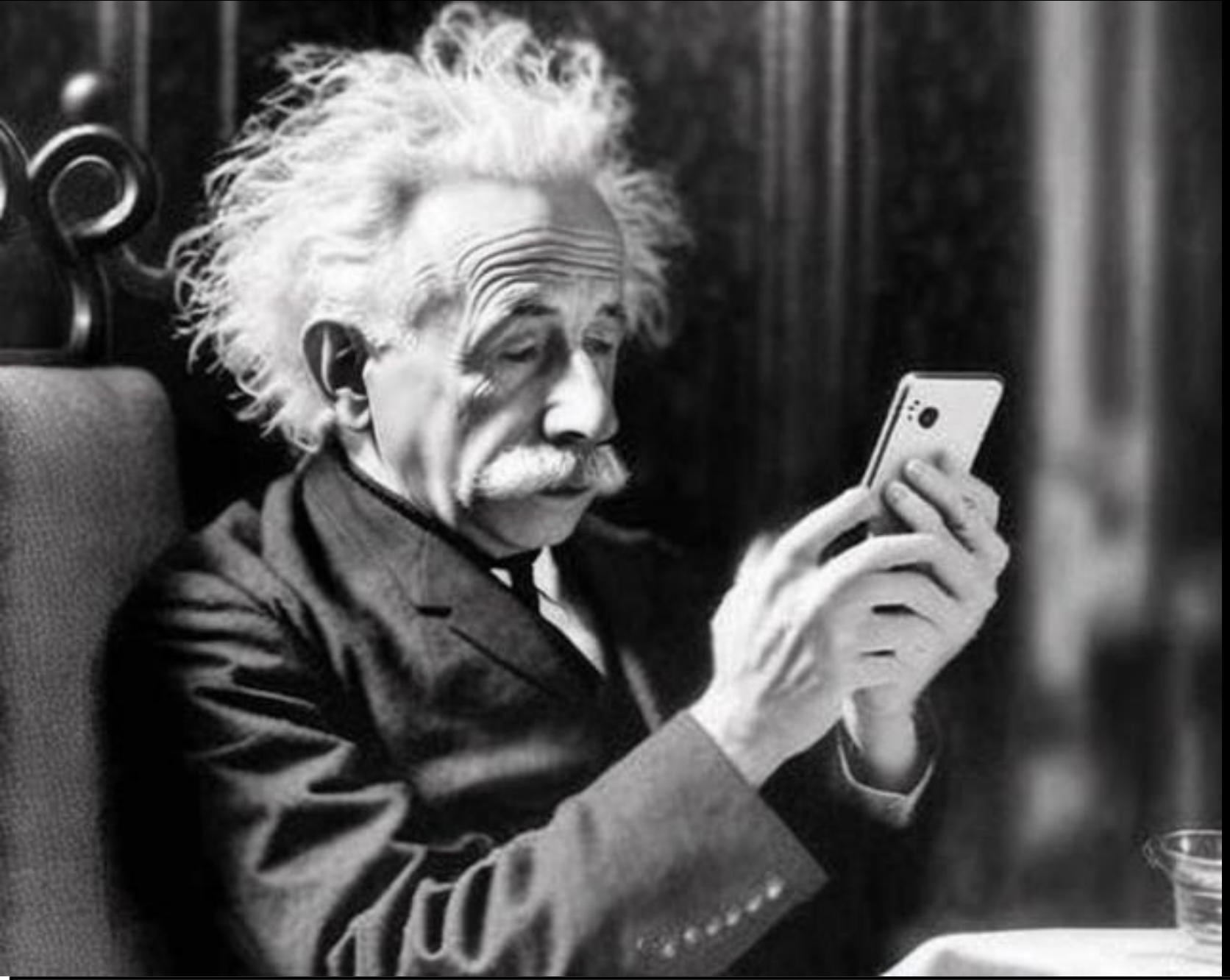
- Design Review
- Request For Information
- Change Orders
- Invoice & Payments

Notion AI

A doc with 20 words of lorem ipsum.	29	20
A doc with 36 words of lorem ipsum.	28	36
Empty page	"`{draft body of the document}`" (after an attempt to generate an article about counting words)	0

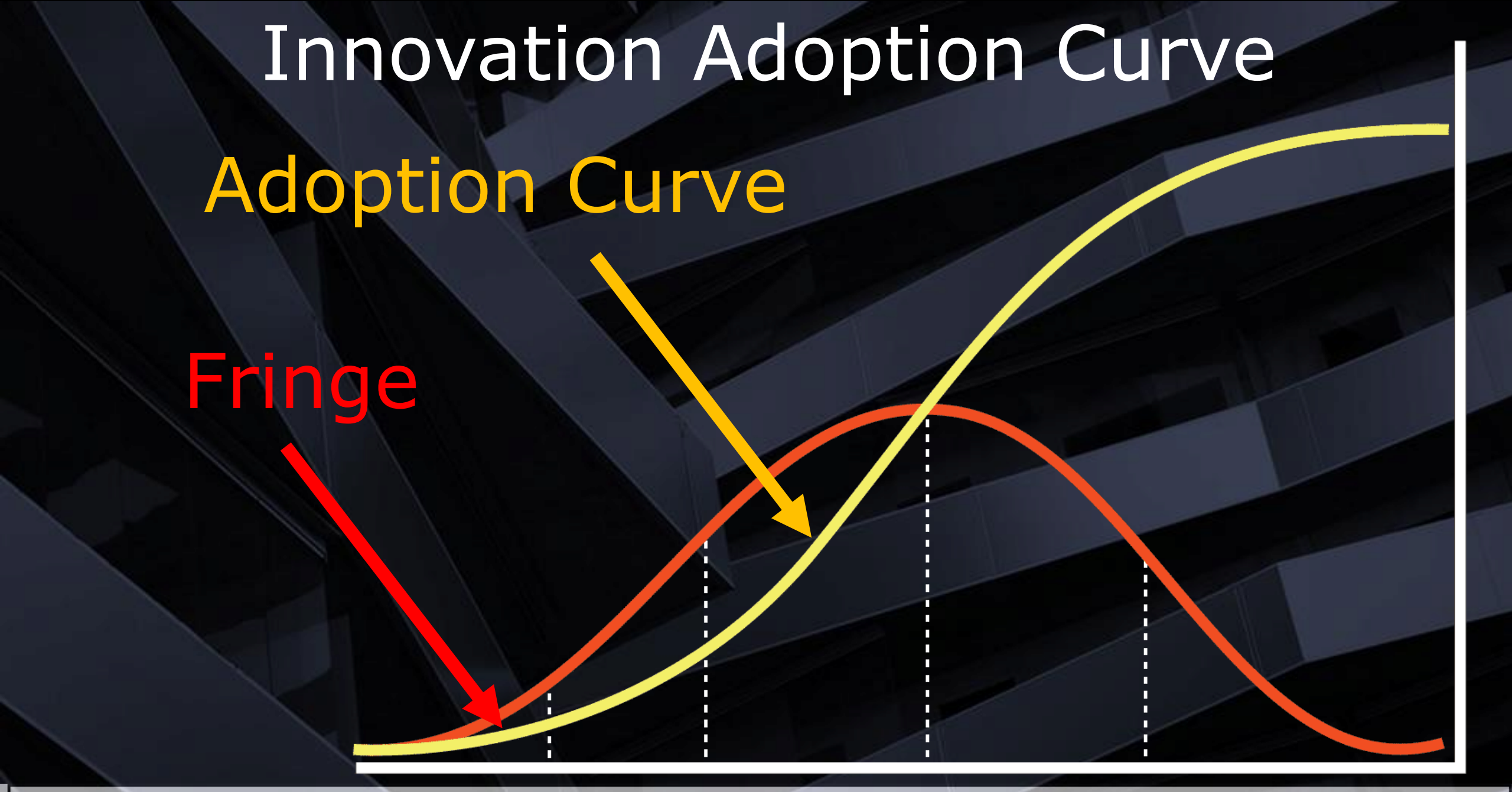
Iteration > re-generation





Will AI be able to write as well as humans with enough training?

Innovation Adoption Curve



The Contextual Problem

The word ‘man’

- man about town
- man in the street
- man of few words
- man of his word
- man of the moment
- man of the world
- manless
- manness
- best man
- old man
- See as one man
- See a man about a dog

AI Telemarketing?

- Break apart into smaller problems
- Apply problems widely
- Compare

CustomGPT.ai

Features Pricing Use Cases Resources Company

Login Sign Up

Create Your Own Custom GPT With ALL Your Business Content.

Accurate GPT-4 responses from your content ***without*** making up facts.
All within a no-code, secure, privacy-first, business-grade platform.

Embed On Your Website For Increased Customer Engagement & Sales

Deploy Internally For Improved Employee Productivity

Get Started

See Live Demo

CustomGPT named to "Top 10 Emerging Leaders in Generative AI"

Along with OpenAI, Microsoft, Google, Amazon, Anthropic, Cohere, Databricks, A121 Labs and Aleph Alpha
— by GAI Insights, an industry analyst firm helping AI Leaders achieve business results with GenAI.

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SubExcel 2024

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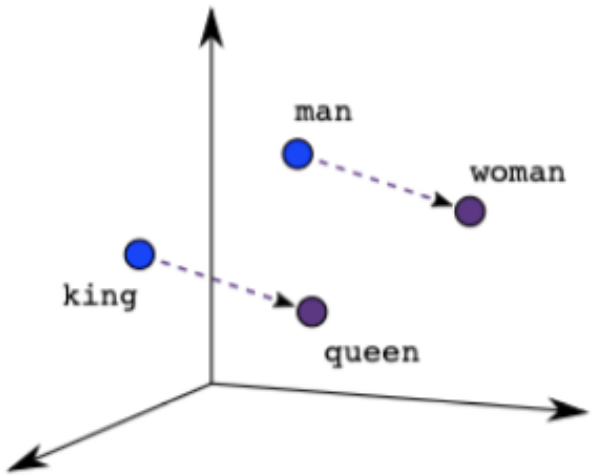
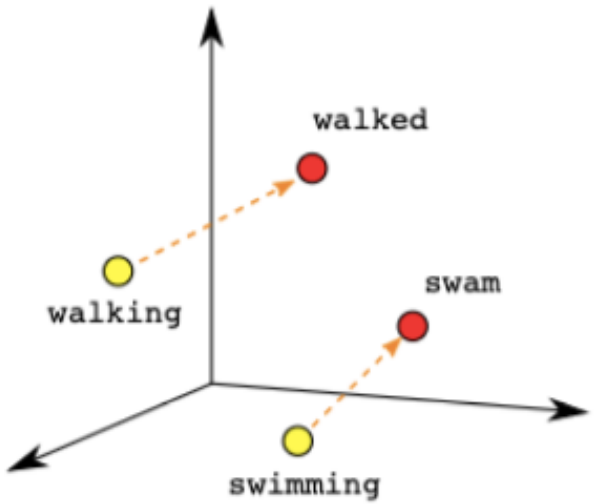
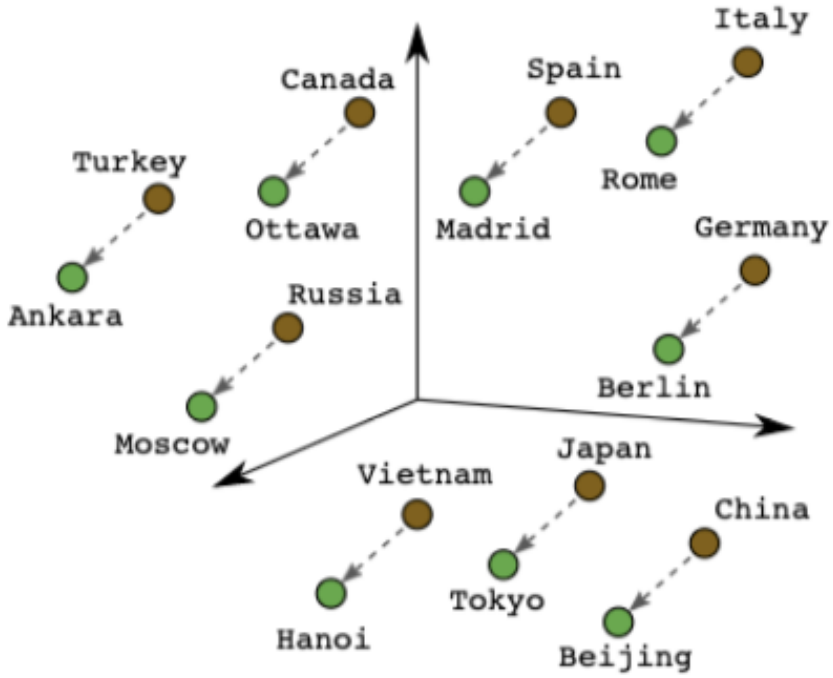


Male-Female

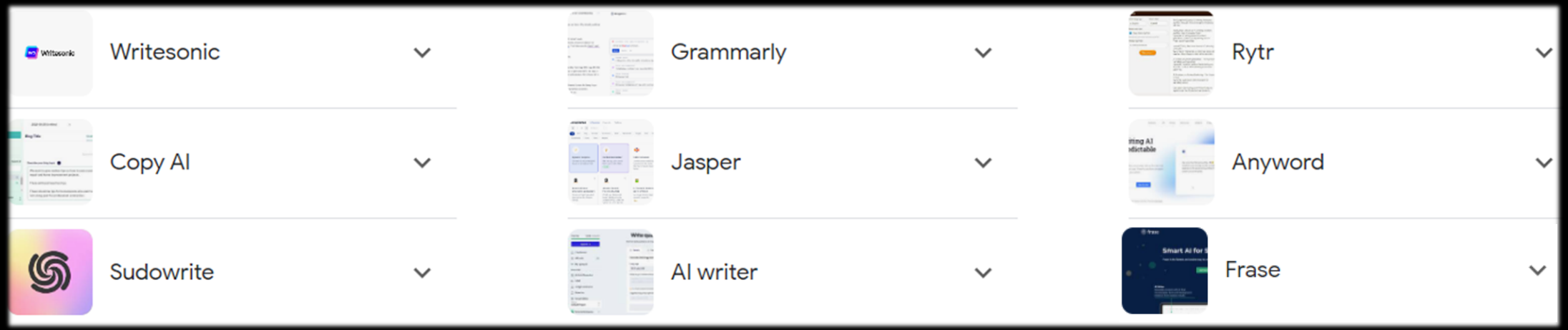


Verb Tense



Country-Capital

Image Source: (Embeddings: Translating to a Lower-Dimensional Space) by Google.



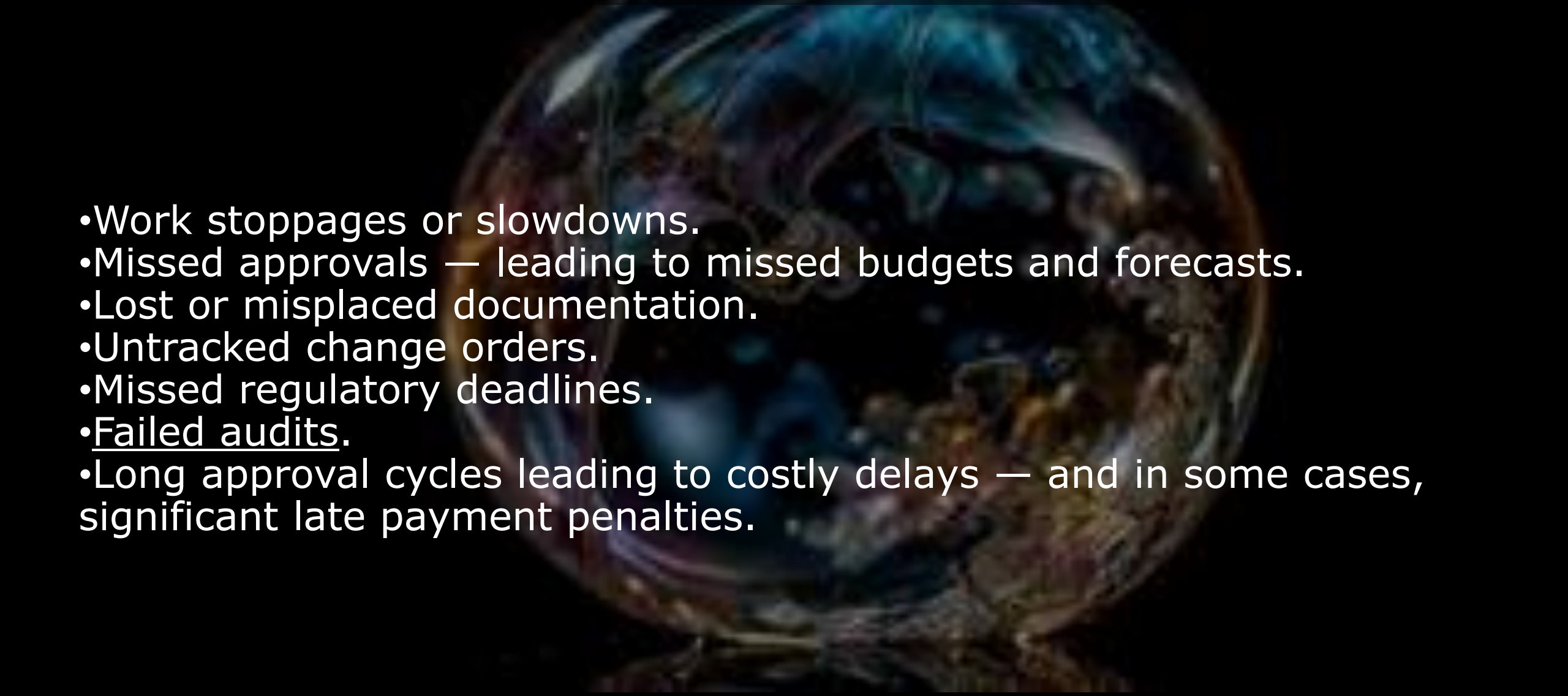
Tools to try out

Leverage Area 4: Transparency

Project Manager Areas

- Design Review
- Request For Information
- Change Orders
- Invoice & Payments

Pain Points With Lack of Transparency



- Work stoppages or slowdowns.
- Missed approvals — leading to missed budgets and forecasts.
- Lost or misplaced documentation.
- Untracked change orders.
- Missed regulatory deadlines.
- Failed audits.
- Long approval cycles leading to costly delays — and in some cases, significant late payment penalties.

e-Builder

Recent Pages...

BUSINESS Intelligence

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Quick Start

- Risk Action Item (RAI)
- Inspection Daily Report (IDR)
- Field Clarification
- Risk Item (RI)
- Invoice Approval (IA)
- Action Item
- Change Order (CO)
- Change Order Request (COR)
- Design Review Process (DRP)
- Request For Information (RFI)

More

Darren Schwartzkopf

Please select a Project...

Workflow in your court

Show First ten

	Project	Name	Subject	Step	Date Due	Requested Comment
!	***CU-1765 New Student Center	Action Item #6	Permits		07.16.2015 12:00am	
	**C-1767A	RFI - 1	RFI - Plan Specification Question	AE Review	07.24.2015 05:00pm	
	**C-1767B	Correspondence Tracker #1	Correspondence Tracker - Door Replacement -001		07.31.2015 12:00am	
	**C-1767A	CA - 2	Consultant Contract - 001	Acct System Interface	07.31.2015 05:00pm	
	**C-1767A	Action Item #1	Action Item -PW781-001		08.04.2015 12:00am	
	*New Campus Stadium	RFI - 1	Curb Change	AE Review	08.08.2015 03:00pm	
	**Tech Center Renovation	COR - 1	General Contract - Change 001-001	Change Order Hold Step	08.13.2015 05:00pm	
	***CU-1765 New Student Center	COR - 3	Design Fee Change	Field Order Validate	08.14.2015 05:00pm	
	***CU-1765 New Student Center	Inspector's Daily Report #1	IDR-F 001-001		08.20.2015 12:00am	
!	***CU-1765 New Student Center	Inspector's Daily Report #4	SafeWay Center 001-002		08.27.2015 12:00am	

Forms | Processes | Time Sheets

My first 10 tasks

Show First ten

Project	Task	FinishDate	%	Manager
PW790 - Housing South	BOR Intermediate Design Review Approval	04.29.2015	0%	Manager-Prg Mgr, Jill
Link Light Rail	Design Development	05.07.2015	0%	Application, TeamBuilder Redlining
PW790 - Housing South	BOR Project Review Board Approval	05.15.2015	0%	Manager-Prg Mgr, Jill
**PW790 - Housing South Residential Hall Renovation	S-00831.02.01.01 30% Design	05.27.2015	80%	Manager-Prg Mgr, Jill
**Tech Center Renovation	Start of Construction	06.01.2015	15%	
PW790 - Housing South	FMP Review	06.08.2015	0%	Manager-Prg Mgr, Jill
Large Capital Construction Project	Assessment and Approval by Senior Exec Team	06.10.2015	0%	Manager-Prg Mgr, Jill
Large Capital Construction Project	Early Estimate	06.24.2015	0%	Manager-Prg Mgr, Jill
**PW790 - Housing South Residential Hall Renovation	S-00831.02.01.02 60% Design	06.24.2015	0%	Manager-Prg Mgr, Jill
Large Capital Construction Project	Program Statement	07.01.2015	0%	Manager-Prg Mgr, Jill

Tasks

Announcements

To contact e-Builder Support
Please call (888) 288-5717

Bidding Portal
https://app.e-builder.net/www/BidderLogin.a

Offline-Website
http://rquigley9.wix.com/eb-demo

Cash Flow
https://app.e-builder.net/da2/daLanding.asp?QS=e1c746f46fdf4249b8a6abb5555df7aa

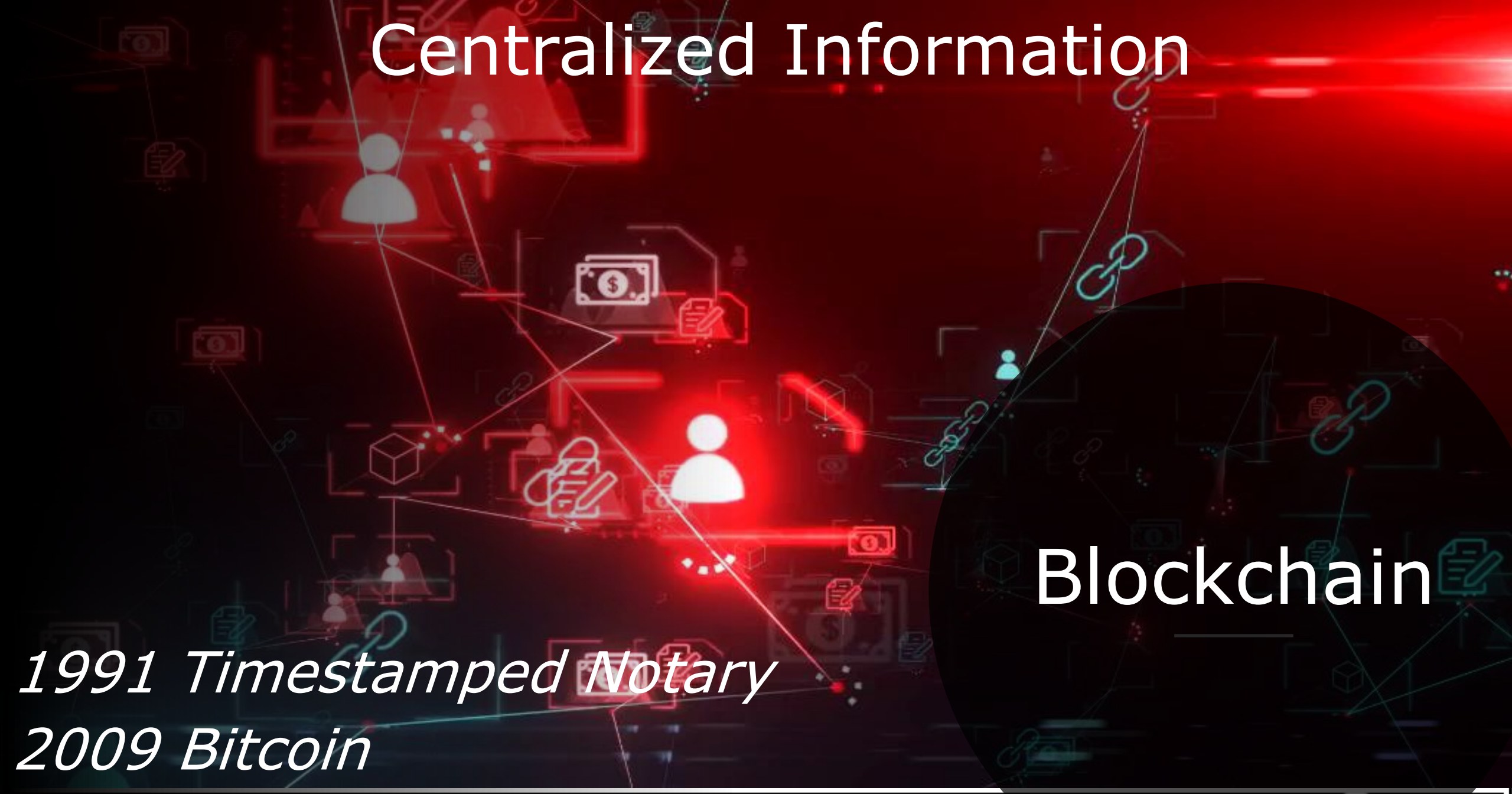
Submittal Workflow
https://app.e-builder.net/da2/daLanding.asp?

Tuesday, Feb 09, 2016

There are no events for today.

Calendar

Centralized Information



Blockchain

1991 Timestamped Notary

2009 Bitcoin

Drawbacks to Blockchain

- High latency
- Bloating data
- Energy expenditure

- (Population) * (# of Nodes) * (# of Transactions)

300 million * 1000 * 365 * 1

Crypto

ALTCOIN	MARKET CAP (OCT 21)	TECHNOLOGY	UPSIDE
Ethereum (ETH)	$400,072,363,432	Proof-of-stake	HIGH
Litecoin (LTC)	$11,235,248,276	Open-source network	MID
Cardano (ADA)	$72,977,130,444	Proof-of-stake	HIGH
Polkadot (DOT)	$31,565,385,512	Parallel blockchains	HIGH
Bitcoin Cash (BCH)	$10,415,107,234	Fast Transactions	MID
Stellar (XLM)	$7,506,327,202	Large Transactions	MID
Chainlink (LINK)	$12,366,151,402	Smart Contracts	HIGH
Binance Coin (BNB)	$72,161,477,817	Lower Fees	LOW
Tether (USDT)	$68,031,393,020	Hedge	LOW
Monero (XMR)	$4,604,470,489	Untraceable	HIGH

AI Gone Wrong?

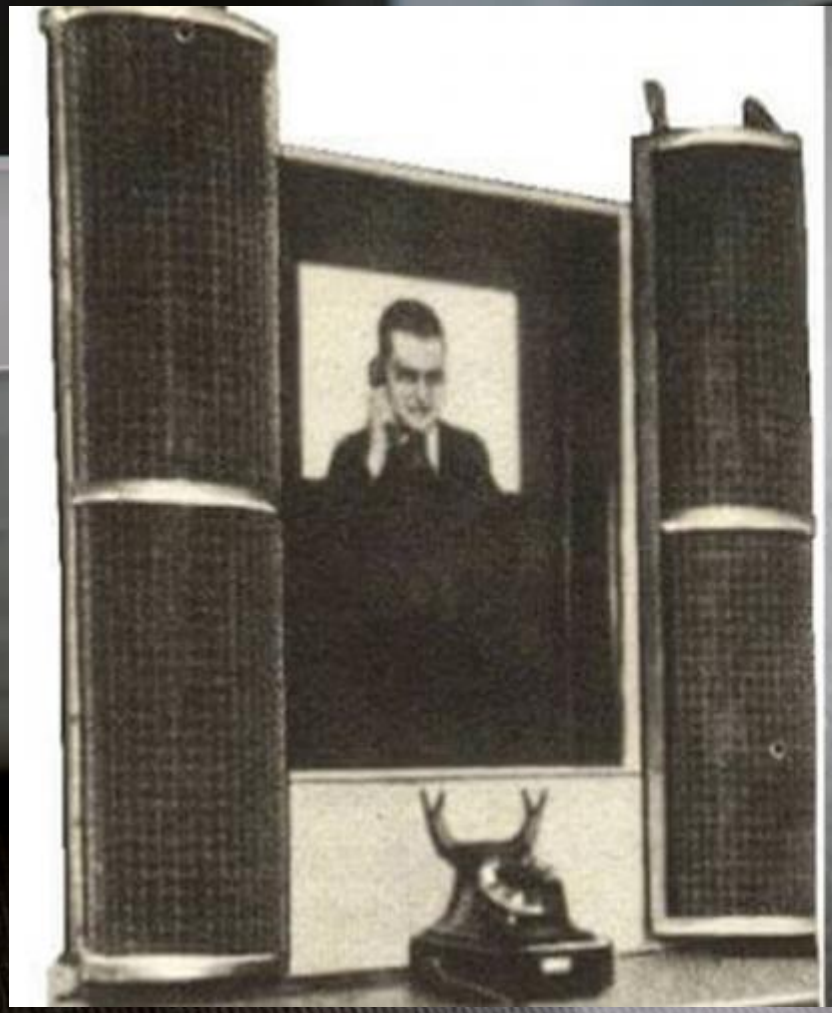
Tools to try out

Leverage Area 5: Acceptance

Project Manager Areas

- Design Review
- Request For Information
- Change Orders
- Invoice & Payments

When was Video Conferencing First Possible?



1936!

1968 First Video Conferencing

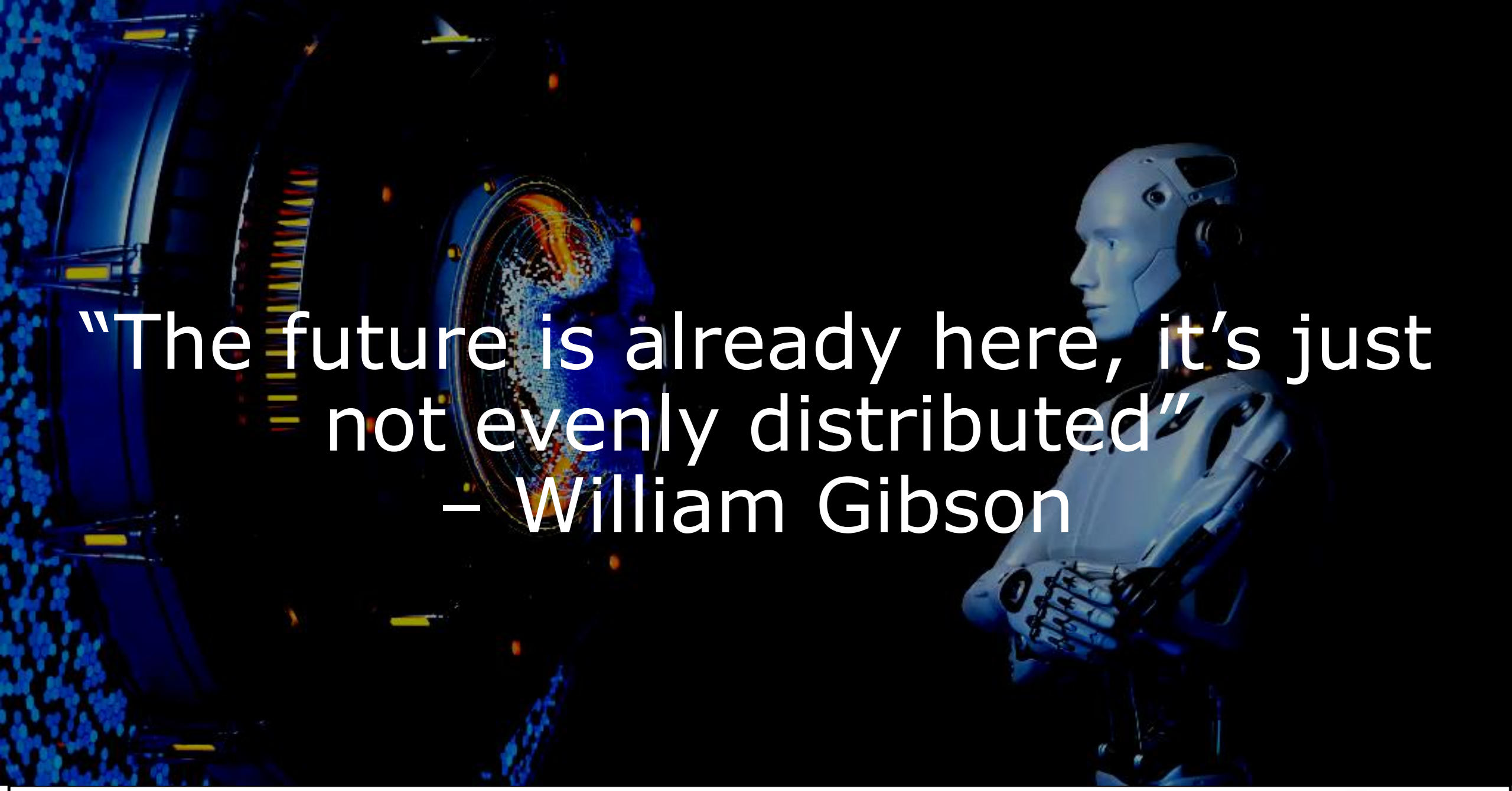
1975 First Personal Computer

1990 World Wide Web

1994 Telework

2000s Wifi

2009 Slack


"The future is already here, it's just not evenly distributed"
– William Gibson

Autonomous Vehicle Liability

First Autonomous Vehicles 1980s

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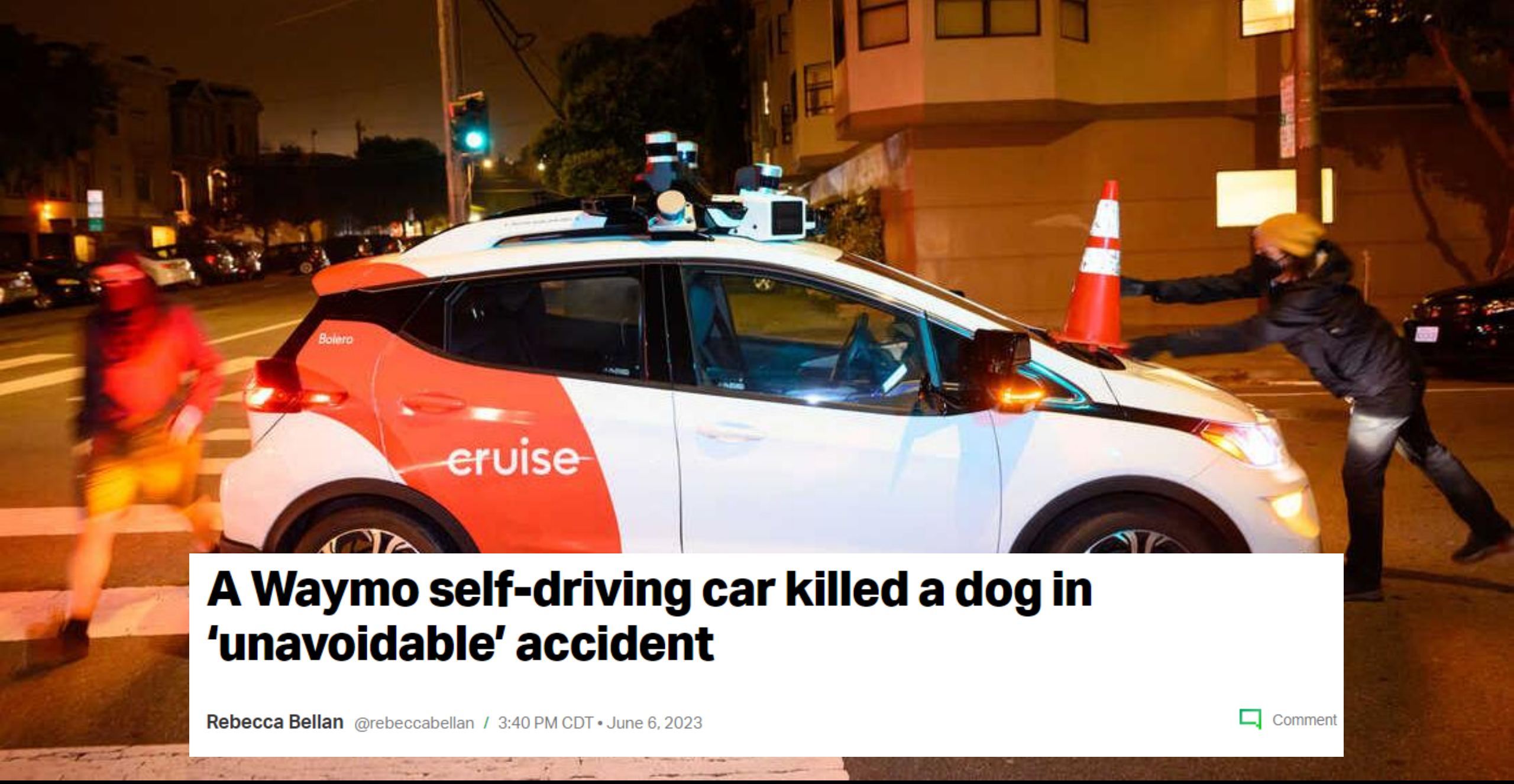
SubExcel 2024
AMERICAN SUBCONTRACTORS ASSOCIATION



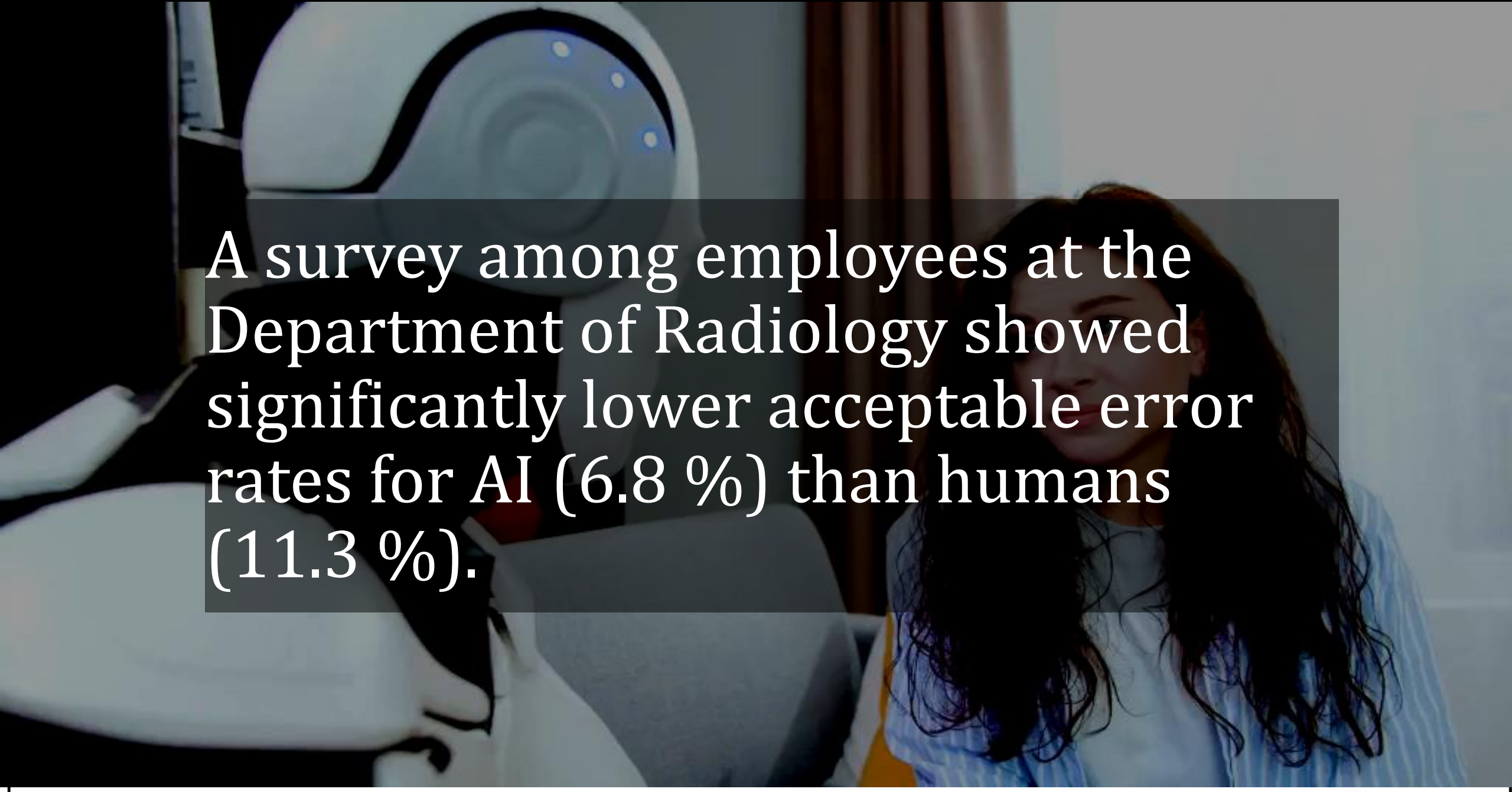
A Waymo self-driving car killed a dog in ‘unavoidable’ accident

Rebecca Bellan @rebeccabellan / 3:40 PM CDT • June 6, 2023

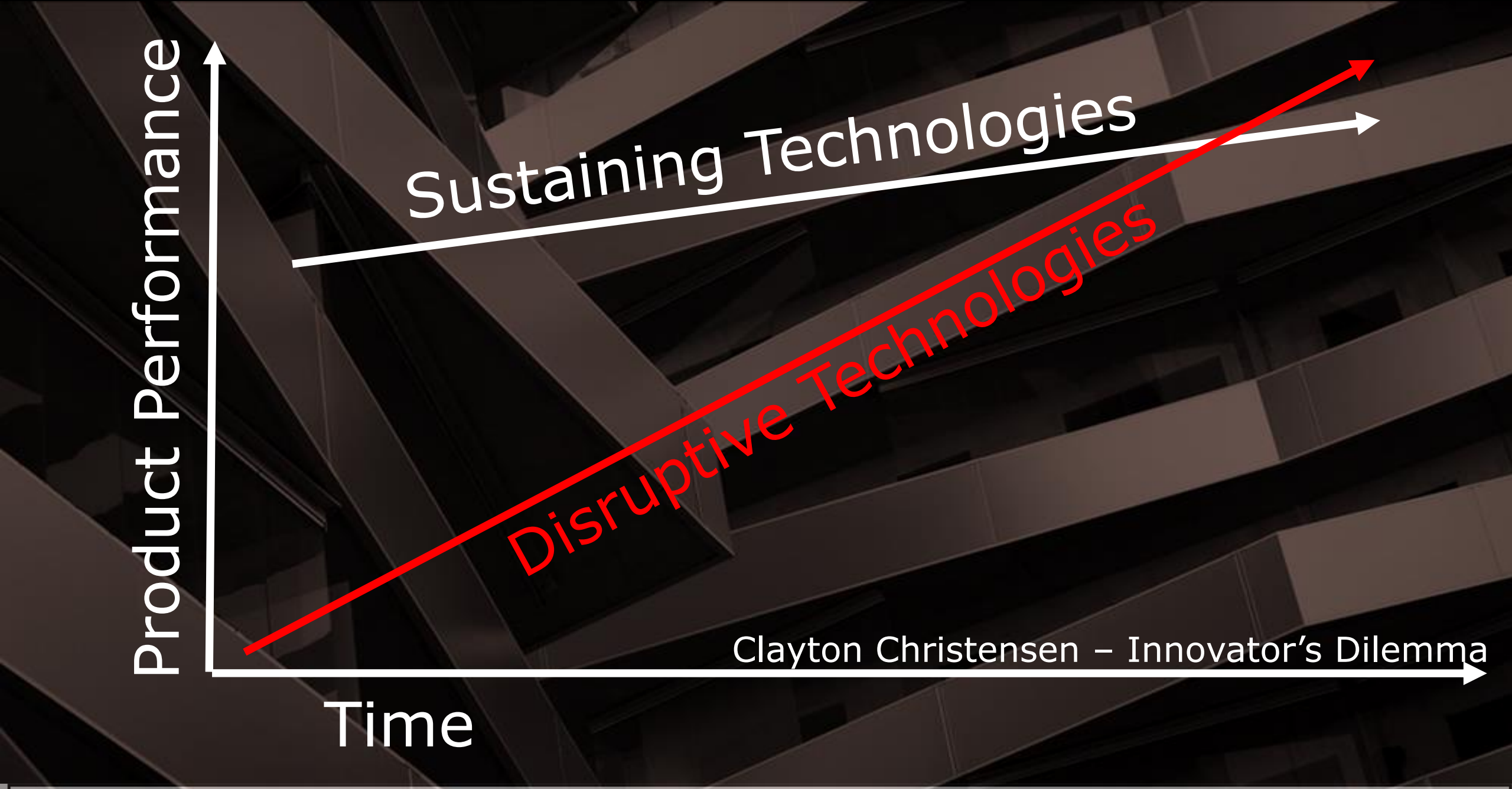
Comment

Zipline

99.85% Accuracy is Not Enough


A survey among employees at the Department of Radiology showed significantly lower acceptable error rates for AI (6.8 %) than humans (11.3 %).

Leverage Area 6: Replacement


Product Performance
Sustaining Technologies
Disruptive Technologies
Time
Clayton Christensen – Innovator's Dilemma

1920s
MY
9089
CTL 0:12.01:20

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AI at work: Machines are training human workers to be more compassionate

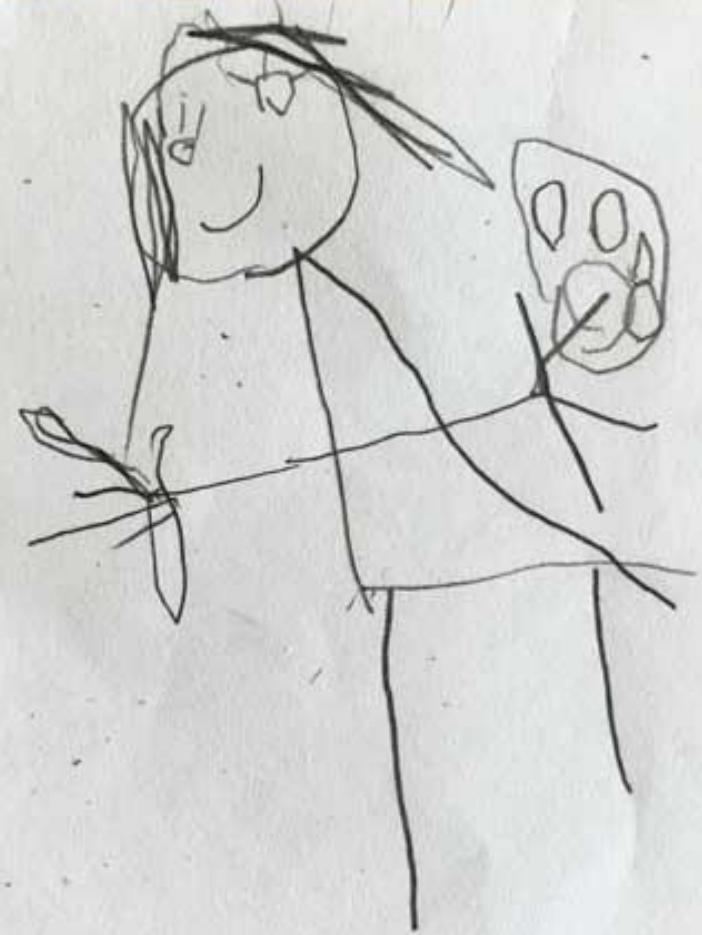
Areas of Opportunity

1. Presence
2. Productivity
3. Control
4. Transparency
5. Societal Acceptance
6. Replacement

Helpful Resources and Slides

jeff@jeffjbutler.com

FIRST
PLACE
FINE
ARTS
COLORADO
STATE
FAIR
PUEBLO, CO
EMERGING
Jason Allen
Pueblo West
Théâtre D'opéra Spatial
$750



The Power of Human Connection

Your Three Door Future

Project Management and AI

Helpful Resources and Slides