

SMOOTH

SAILING



NLP LOGIX
AI COLLABORATE '25

Presentations

11/12-11/13

KEYNOTE SPEAKER



Svetlana Makarova

Founder, Spark Change
Principal Product Leader, Mayo Clinic

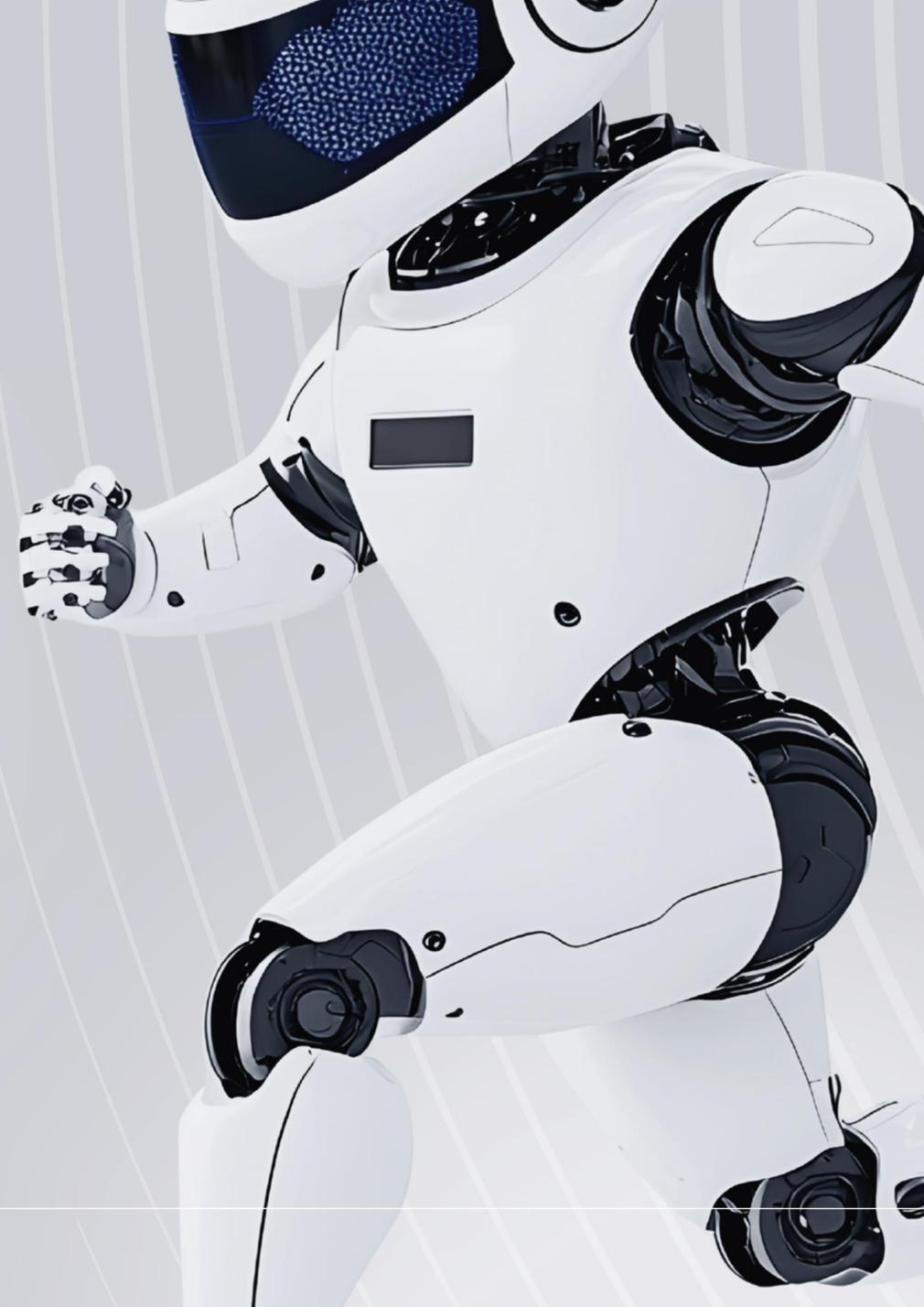
AI Collaborate 2025

SMOOTH



AI Doesn't Matter

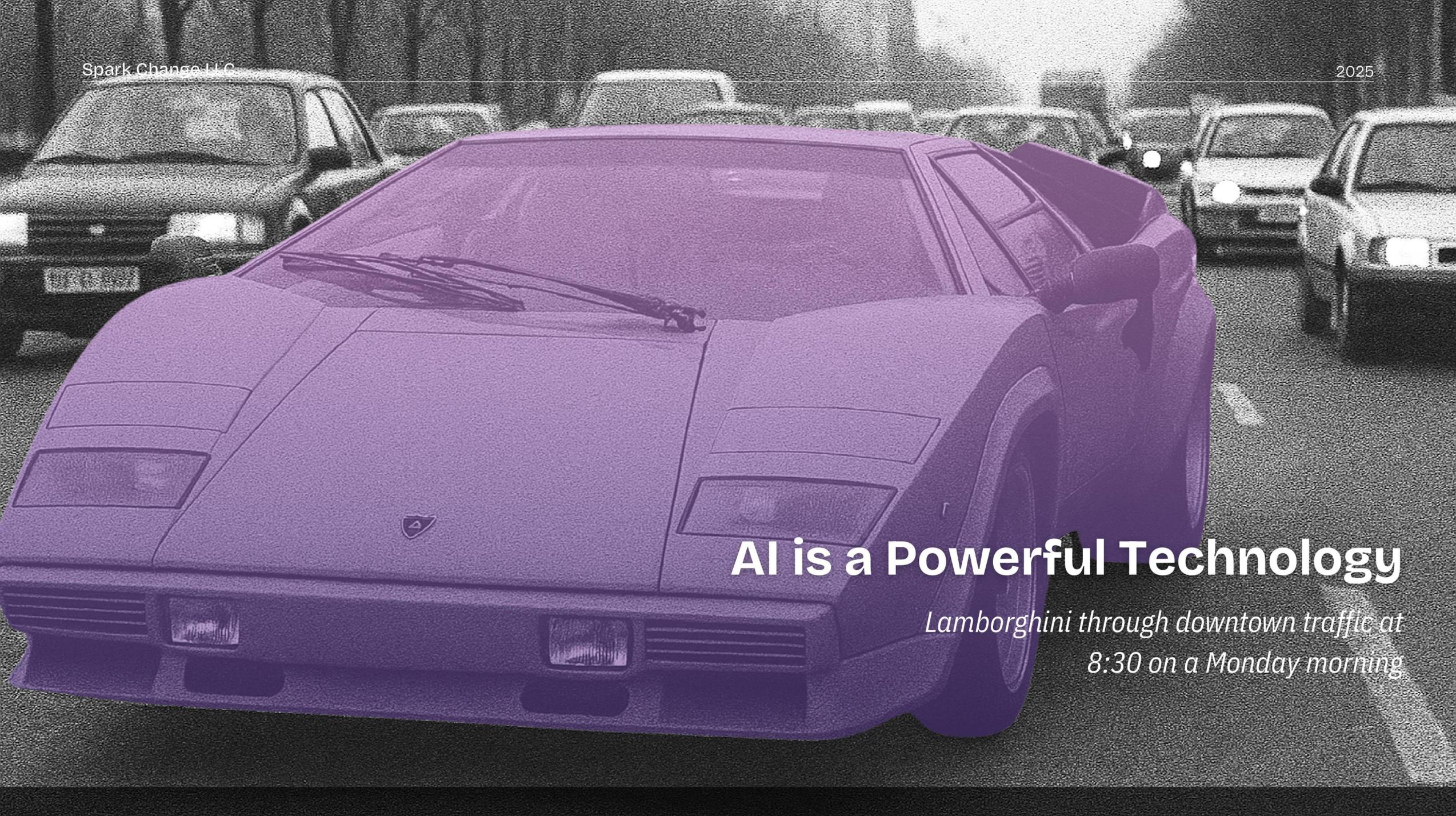
... Unless You Make It Matter



Svetlana Makarova

AI Strategist and Builder





AI is a Powerful Technology

*Lamborghini through downtown traffic at
8:30 on a Monday morning*

**We're sitting in the driver's seat of
the most powerful technology ever
built.**

**... and yet most organizations are
inching forward, stuck in the same
old traffic patterns.**



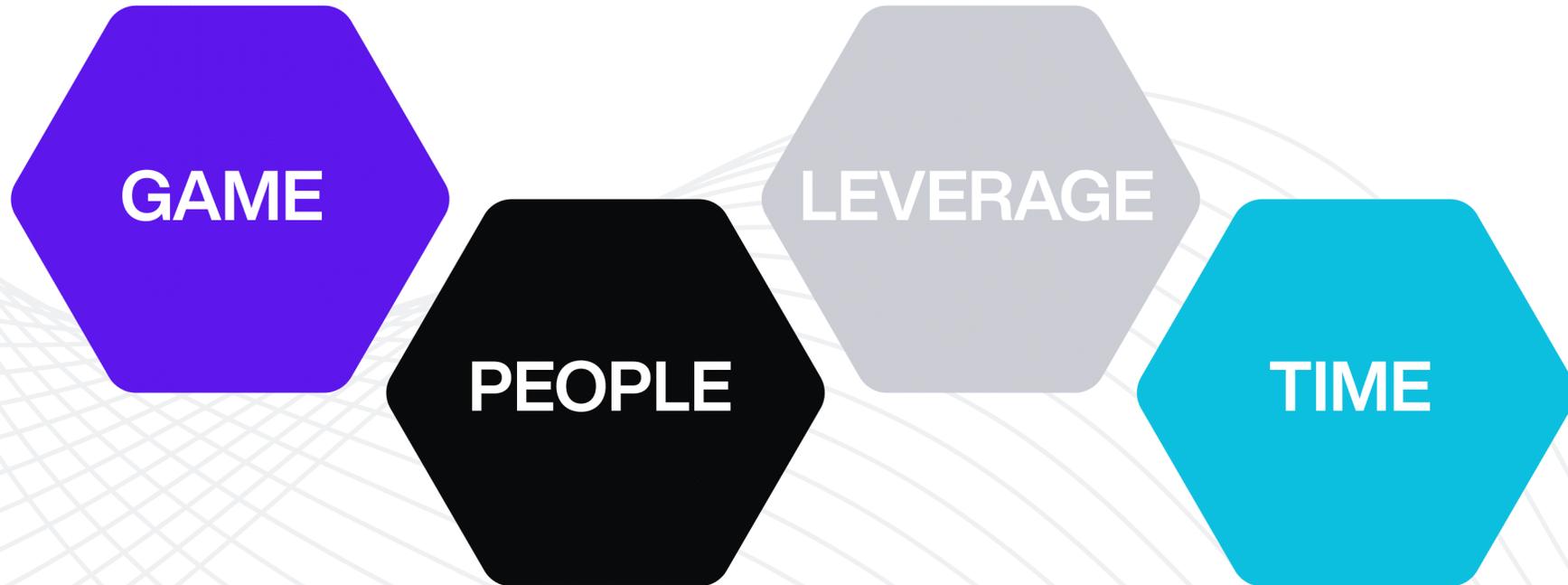
**We've entered the era where
AI doesn't matter.**



The question isn't
"Who has AI?"

**It's "Who knows how to make it
matter?"**

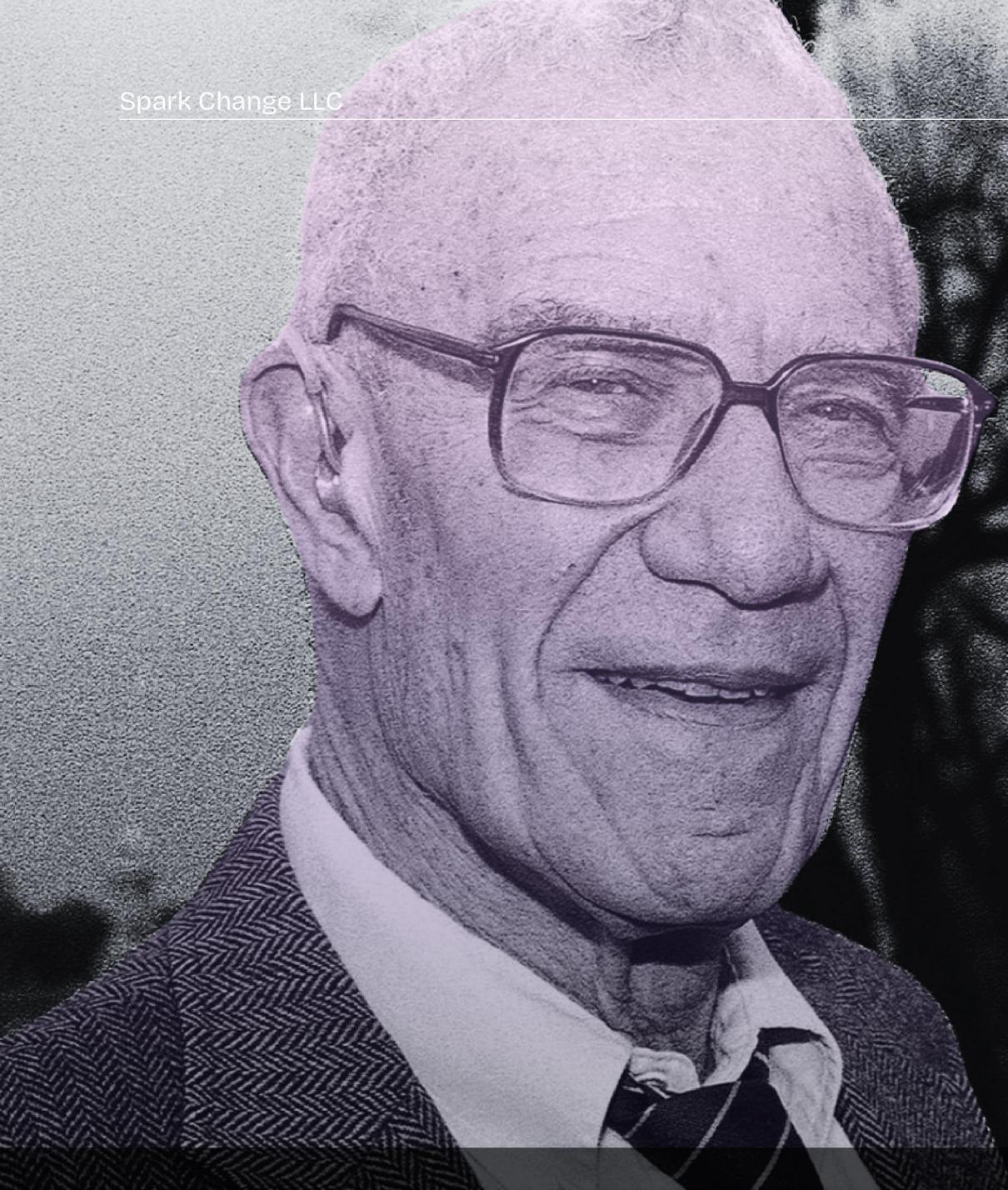
Four Pillars of AI That Matters



**If the technology is so powerful,
why do so many AI Initiatives fail?**

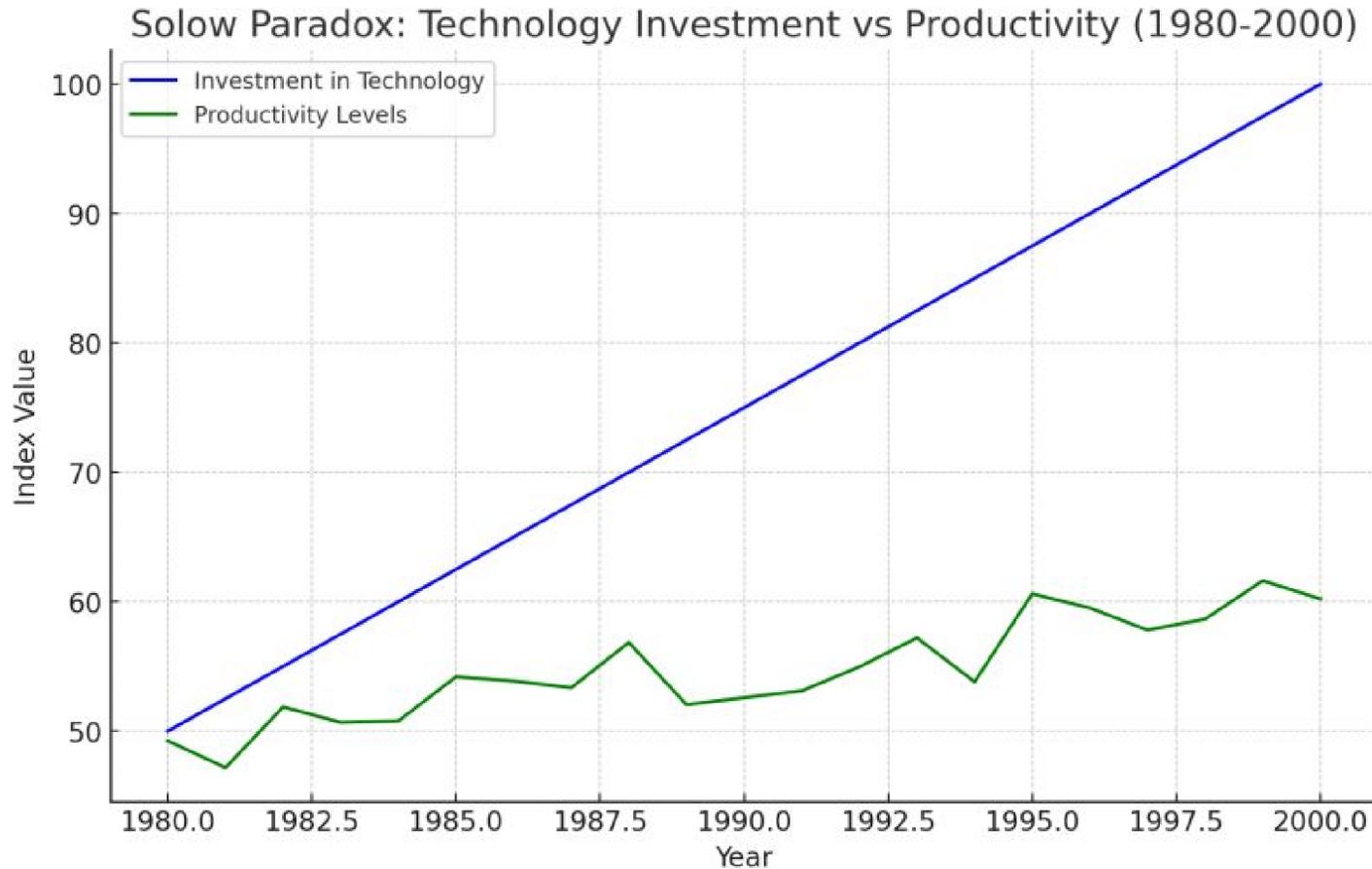
Most organizations are stuck in the **Productivity Trap**

Investing in AI to accelerate existing processes.



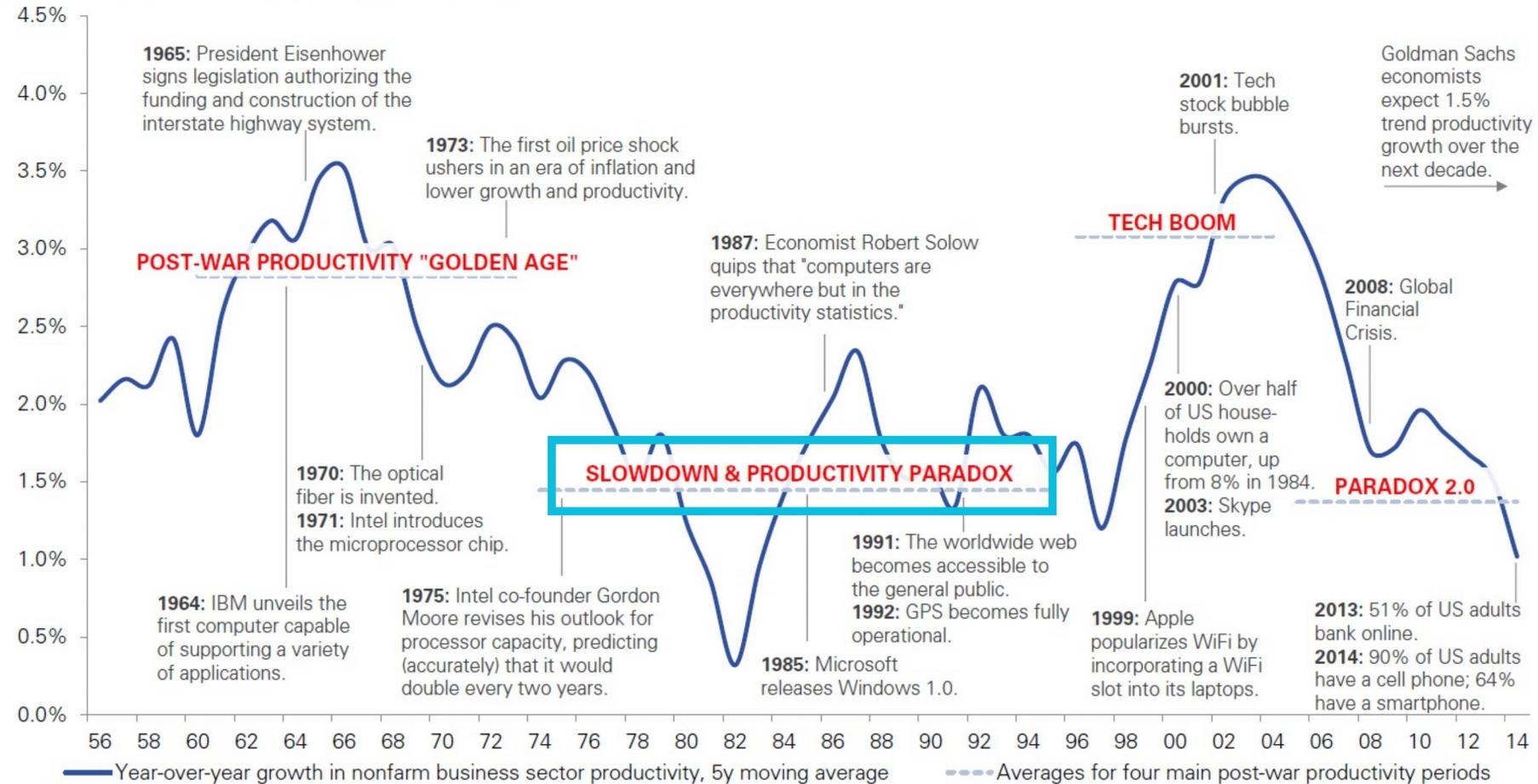
Solow's Paradox

*"You can see the computer age everywhere
but in the productivity statistics."*

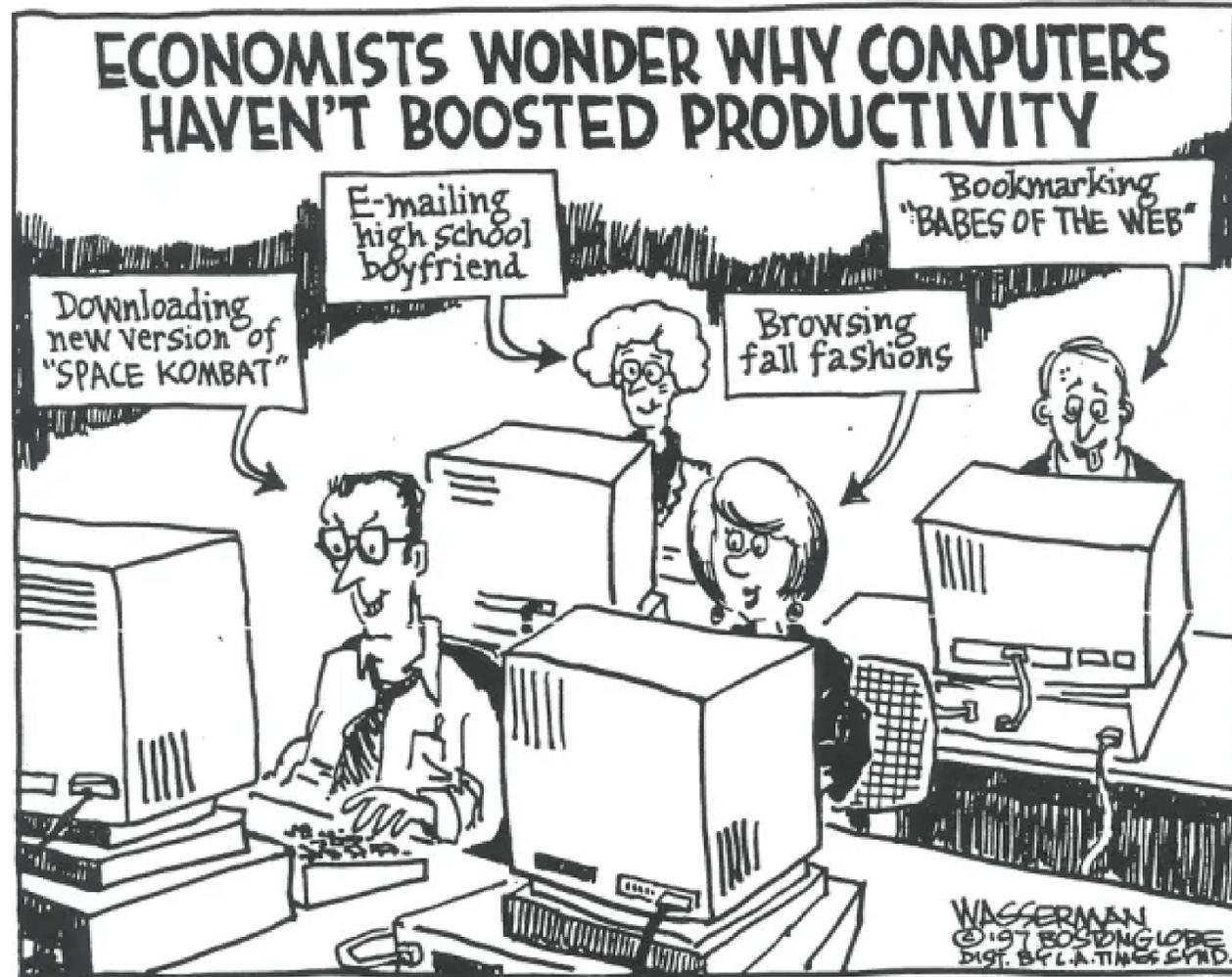


Despite rapid advances in computing (Intel's chips, fiber optics, and the rise of personal computers) productivity growth slowed sharply to around 1-1.5%.

Putting productivity growth in perspective



Source: BLS, Pew Research Center, US Census, PBS, various news sources, Goldman Sachs Global Investment Research.



Adaption takes time

AI ~~≡~~ **Advantage**



**If everyone has the same
calculator, the advantage
doesn't come from owning it.**



July 2025

The AI ROI Paradox

95%

lack measurable
P&L impact

60%

pilot abandonment
rate

7/9

industries show no
structural change

#1 barrier

Lack of learning systems

Alternative Narrative

75%

report positive ROI

72%

formally track ROI metrics

88%

expect budget increases

60%

now have a CAIO or executive owner



October 2025

Two Stories, One Reality



Adoption → Efficiency ROI → Integration → Learning → Transformation ROI

Measure where you are on the curve.

Don't chase "AI transformation" if you're still at the efficiency stage. Treat ROI as a staircase: efficiency first, learning next, transformation last.

Systems that don't learn can't scale.

Static tools plateau. Prioritize solutions that adapt, remember, and integrate into daily workflows.

Don't overbuild – co-build.

MIT found internal builds fail twice as often. Partner with vendors who already solve your use case, then tailor for your context.

Look for compounding ROI, not one-off wins.

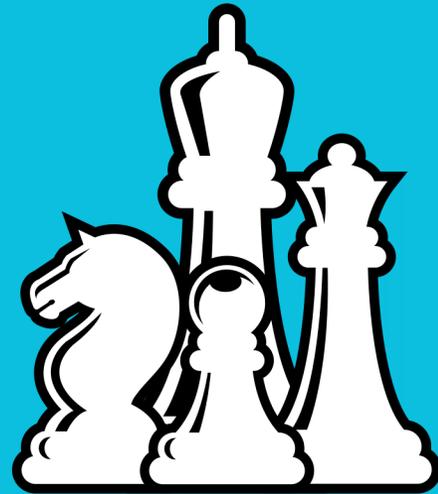
Wharton found ROI is strongest in repeatable workflows. Reinforce successes and reinvest in use cases that self-improve over time.

Shift your AI strategy from tools → systems.

Tools enhance individual productivity. Systems change how your business learns. That's where P&L impact emerges.

Translate productivity into performance.

Personal efficiency gains are the first step, but only process-level integration delivers measurable bottom-line outcomes.



GAME

CHANGE THE RULES



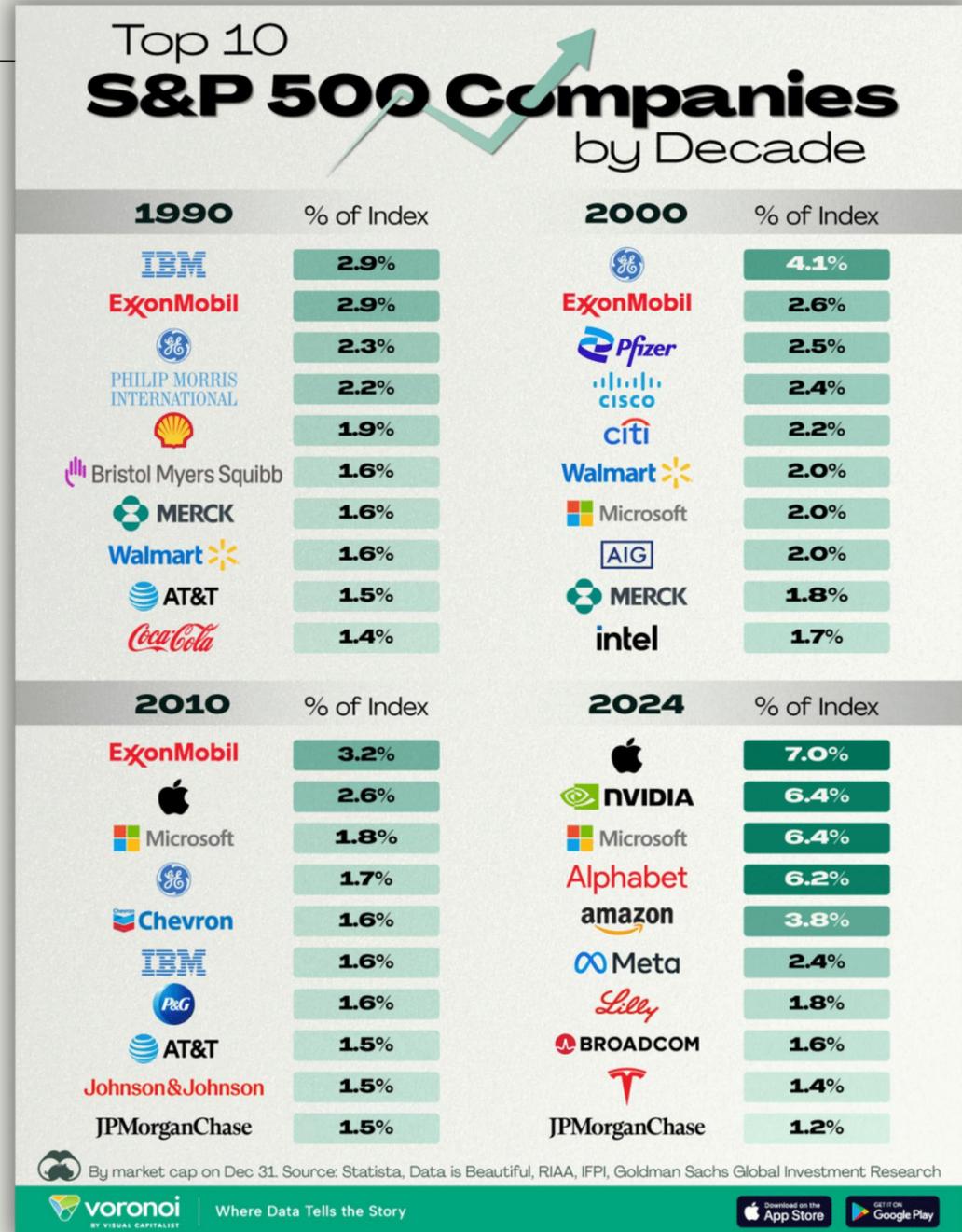


AI Silk Road

*The Invisible Shifts happening right now
that are reshaping everything.*

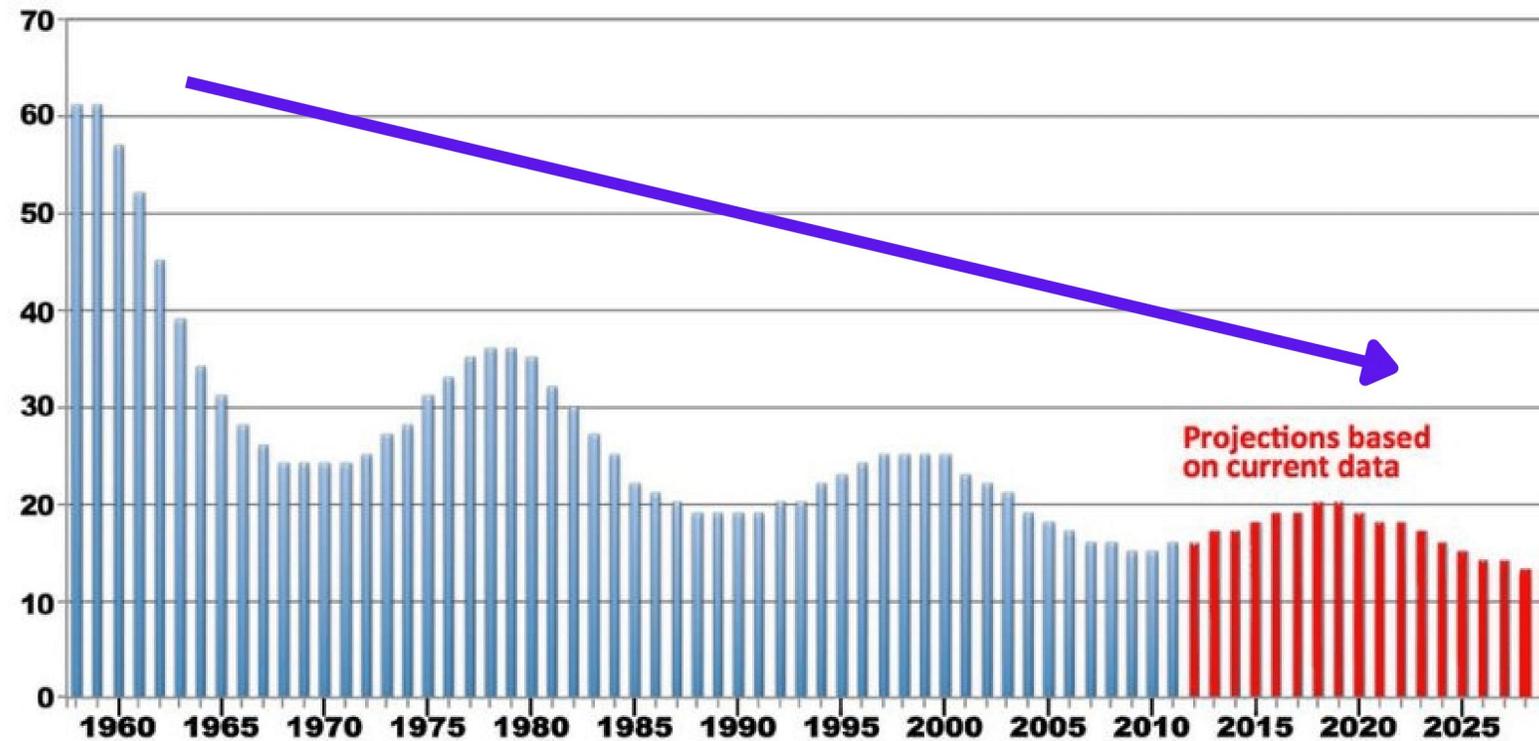
Company landscape is changing.

The average tenure of a company on the S&P 500 has declined significantly over time, from over 60 years in the mid-20th century to less than 20 years today



By market cap on Dec 31. Source: Statista, Data is Beautiful, RIAA, IFPI, Goldman Sachs Global Investment Research

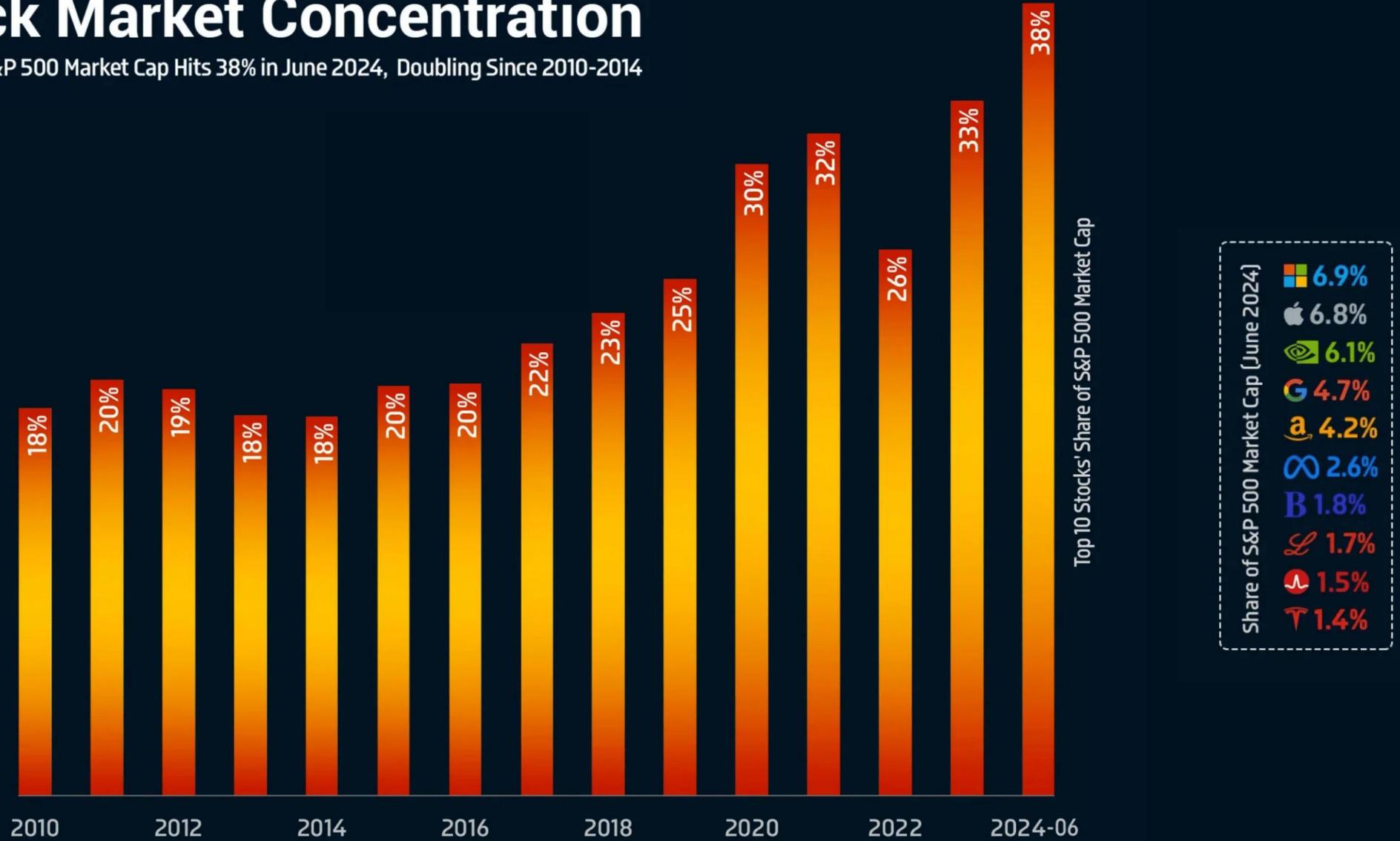
Average company S&P 500 lifespan



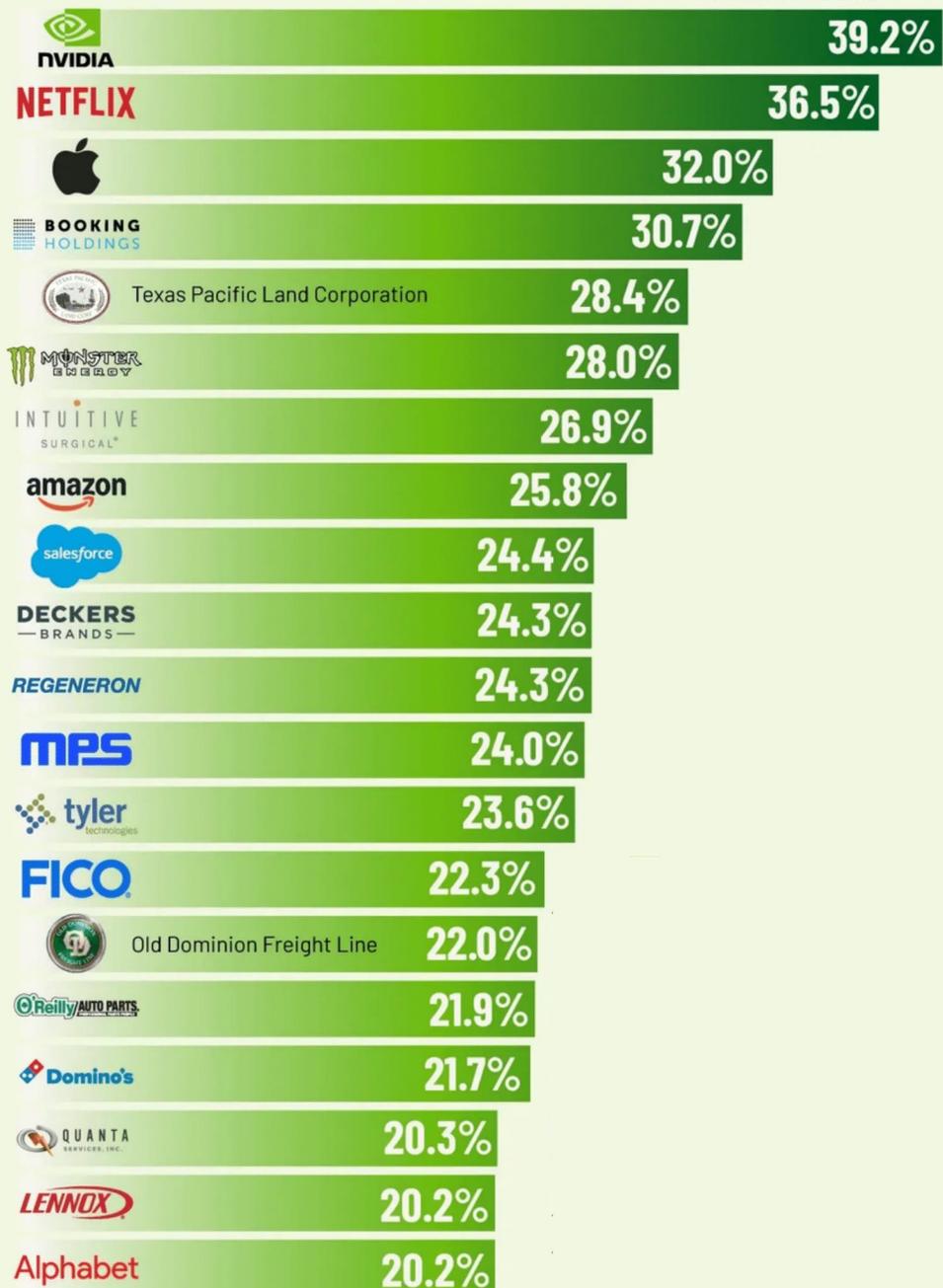
Source: https://www.researchgate.net/figure/Average-company-lifespan-on-S-P-500-Index-each-data-represents-a-rolling-7-year-average_fig9_307560120

U.S. Stock Market Concentration

Top 10 Stocks' Share of S&P 500 Market Cap Hits 38% in June 2024, Doubling Since 2010-2014



Annualized returns ▾



S&P 500 COMPANIES WITH
HIGHEST
YEARLY RETURNS
2005-2024

Total shareholder annualized returns

Source: Morgan Stanley Counterpoint Global Insights

AI Rewriting the Web Business Model

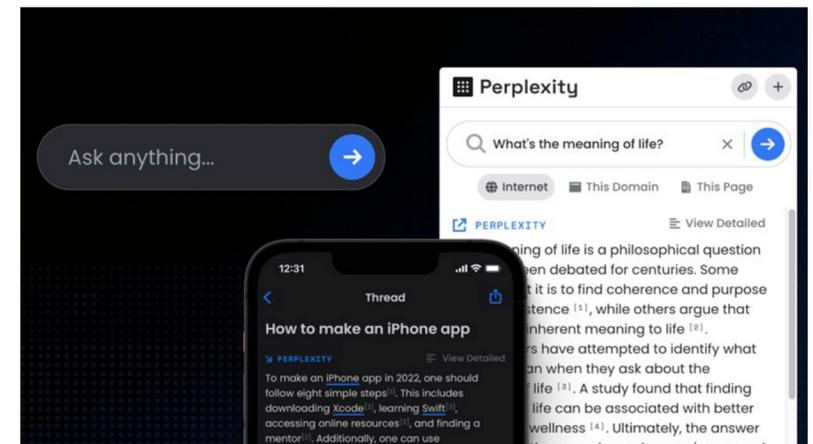
The rise of AI-native browsers is rapidly diverting traffic away from traditional search engines.

Search traffic and ad revenue
down as AI browsers rise.

The web's distribution model is
being rewritten.

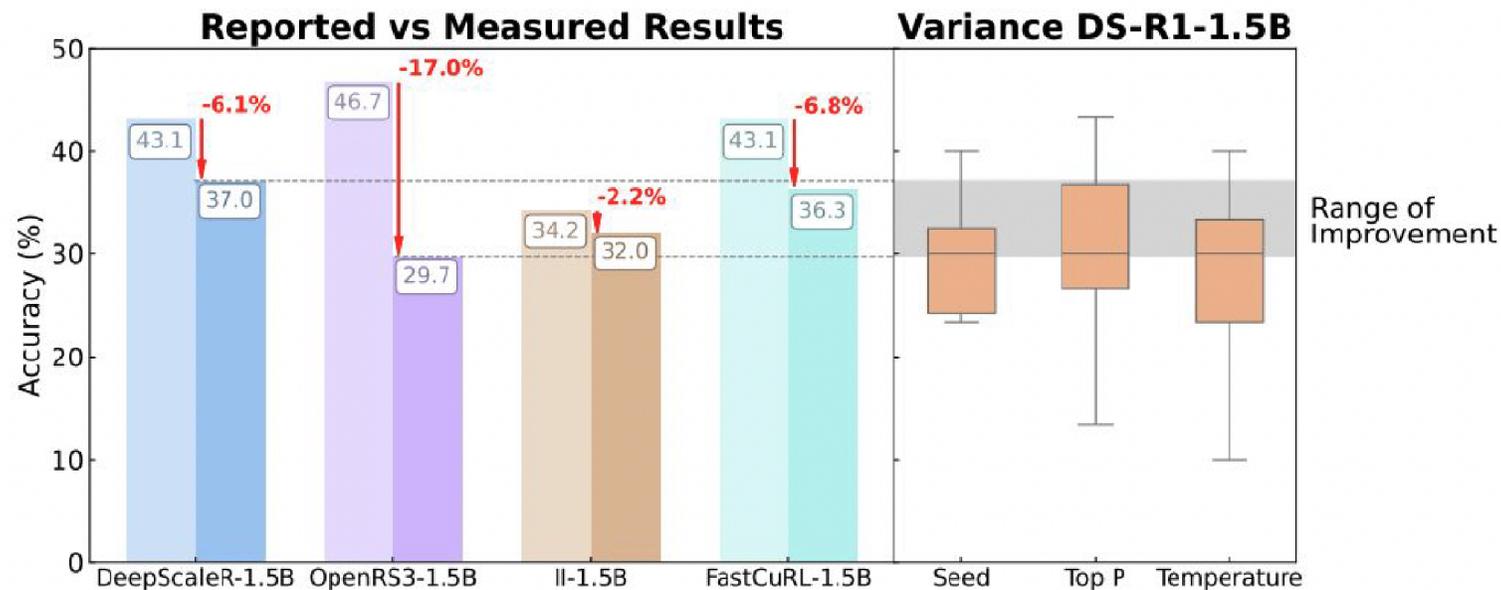
*For businesses, visibility is no longer
SEO, it's "summonability": being readable,
trustworthy, and retrievable by AI agents.*

Source: State of AI Report, October 2025



Reasoning Race

AI progress has shifted from generating content to reasoning, but many of the “gains” are illusory, proving capability alone no longer guarantees value.



From Models to Agents

AI is moving from chat to action — systems that do will soon outcompete those that only say.

AI's economic impact is moving up the value chain - from text generation to business process execution.

A shift from **passive** outputs to **autonomous** execution.

As AI becomes embedded in workflows, the **UI disappears**

Context turns intelligence into autonomy.

Workflows become **self-updating**, not user-driven.

Advantage moves from smarter models to **executing systems**.

Composite AI fuses reasoning, tool use, and workflow intelligence into one system.

Hyperscalers Scale the Infrastructure

Let them, because your advantage isn't in compute/infrastructures or building the models.



Hyperscalers compete on capex, compute, and model scale.

You compete on integration, and speed to value.

.....

Their edge is **infrastructure**.

.....

Your edge is **application**.

.....

They **chase capability**.

.....

You **create advantage**.

.....

They **own the rails**.

.....

You own **what runs on them**.

*They build models.
You build outcomes.*

**The game is shifting from acquiring
the tool to**

how intelligently you use it

**AI is flattening the cost of intelligence,
but it's also amplifying the value of**

context

Three Game-Changing Moves

1

**Outcome
Surface Audit**

2

**Write-Back
Charter**

3

**Summonability
Strategy**



PEOPLE

UNLEASH HUMAN VALUE



“

“Value from gen AI won’t come just from giving people tools; business leaders must lead cross-functional teams through transformation in the age of AI.”

Derek Waldron, Chief Analytics Officer
JPMorgan Chase



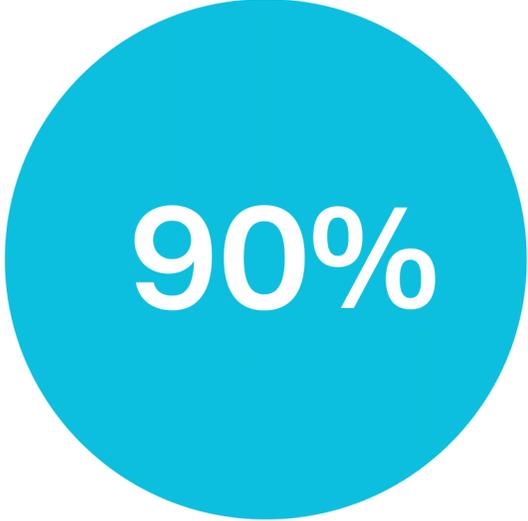
Shadow Economy



40%

**Companies that
purchased official LLM**

(e.g., ChatGPT Enterprise, Copilot)



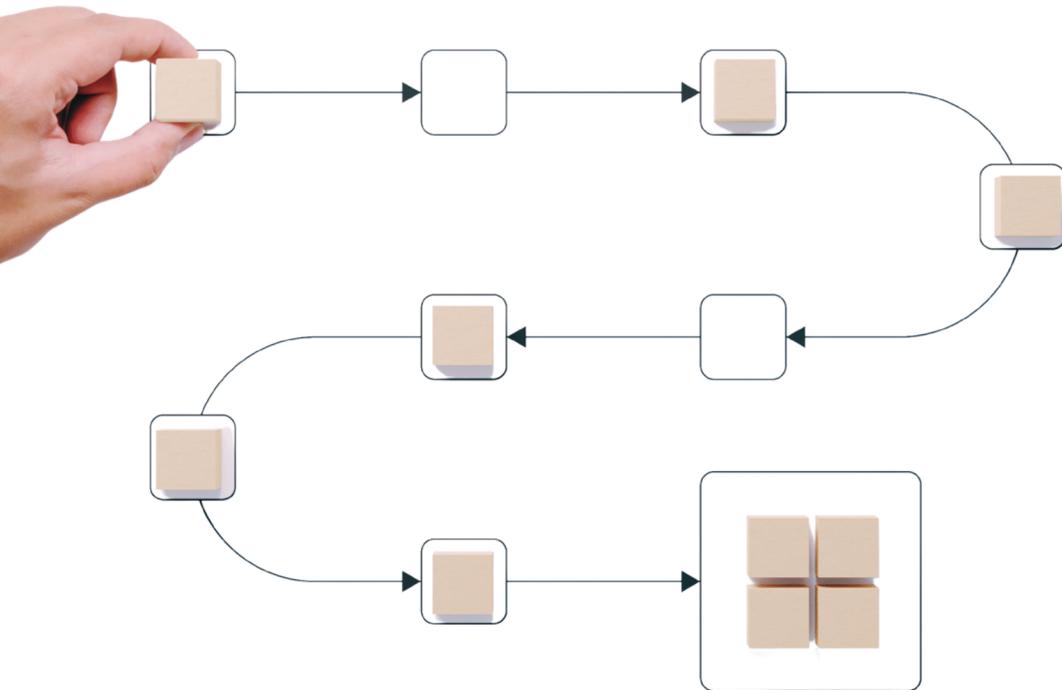
90%

**Employees using
personal AI tools**

(ChatGPT, Claude, etc.) for work

**Wealth is shifting from
the scale of labor to the
scale of intelligence.**

Headcount → Cognitive Bandwidth



1 Work to Tech Fit & Upskilling

2 Guardrails not Gates

3 Delegation Literacy

4 Workflow Integration

Fear → Agency

When people understand their new role in the system

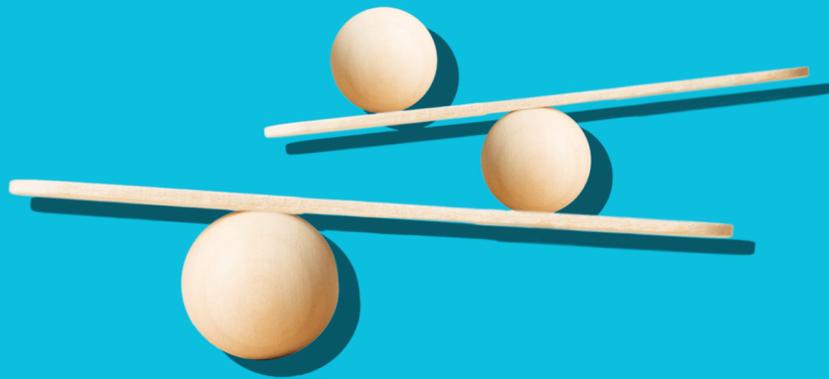
Fear turns to **agency**

Skepticism turns into **curiosity**

Curiosity, when supported by structure,
becomes **innovation**



**AI has the IQ.
But it doesn't know
human judgement.**



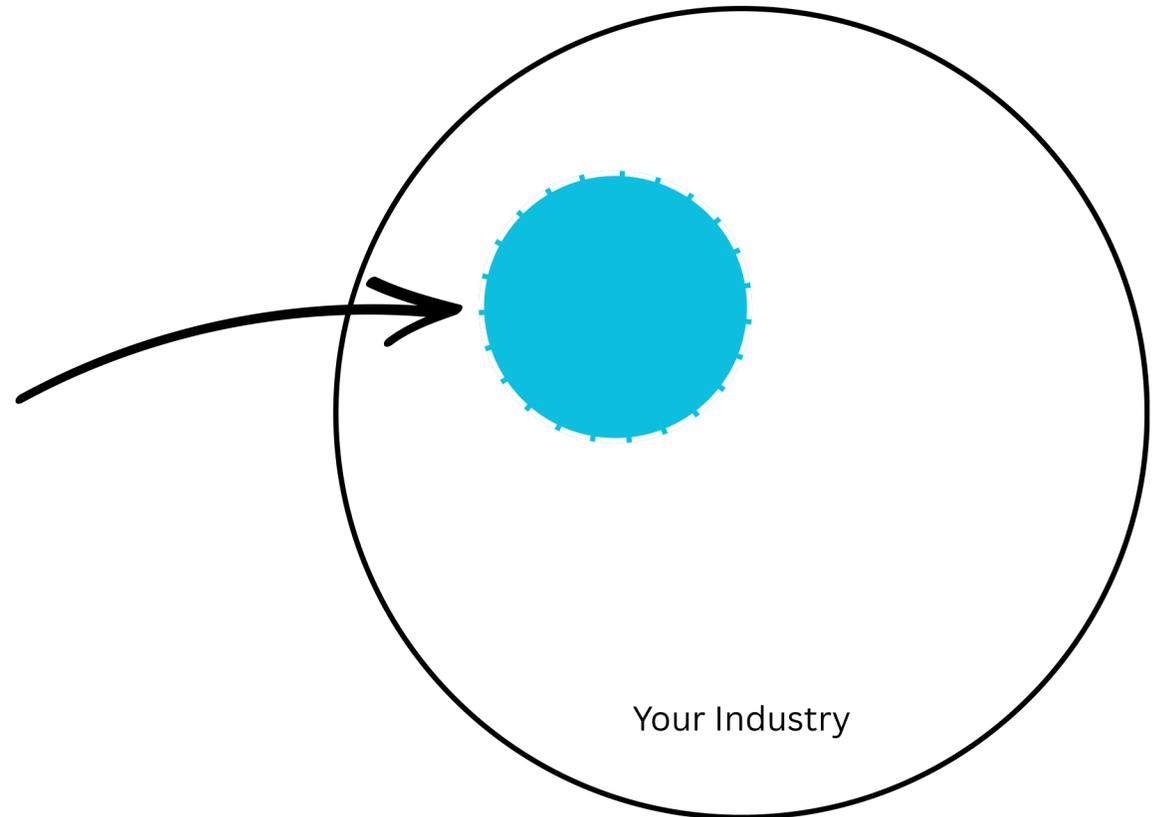
LEVERAGE

CONTEXT IS CAPITAL



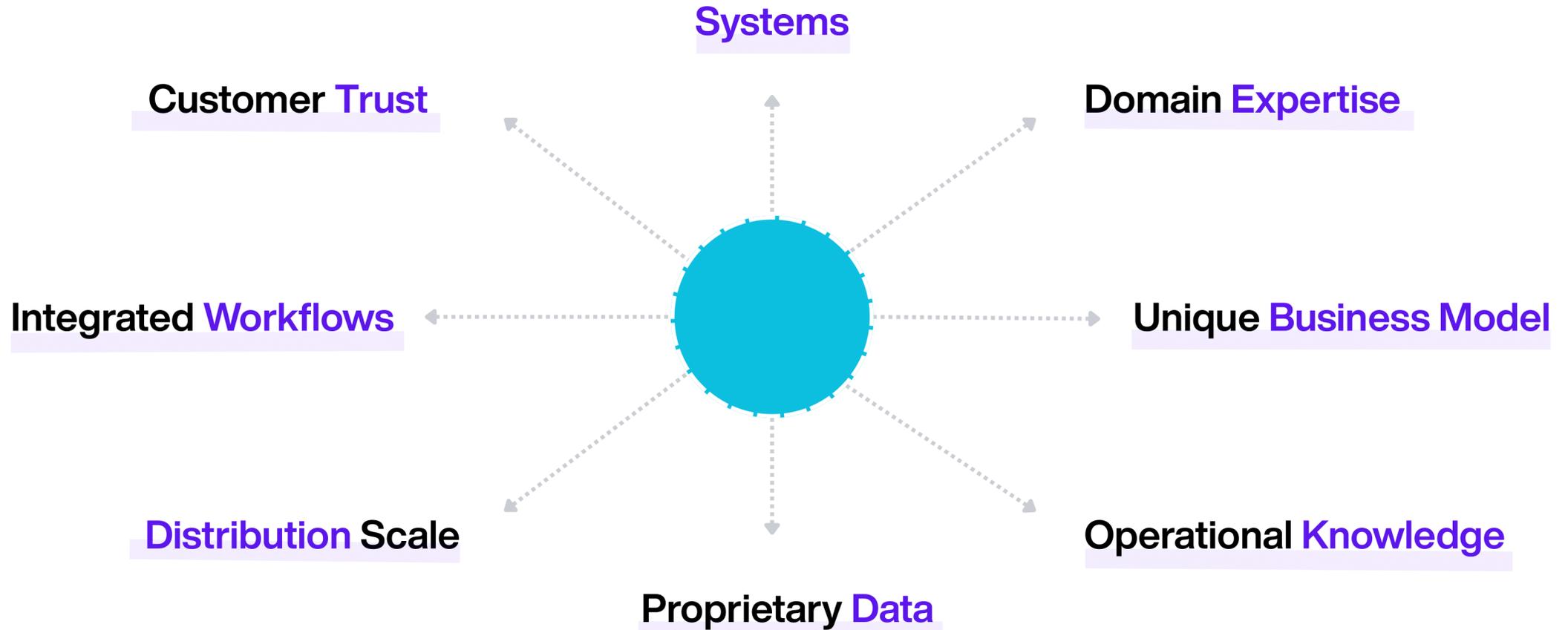
Play to Your Strengths

**Your Organizational
Circle of Competence**

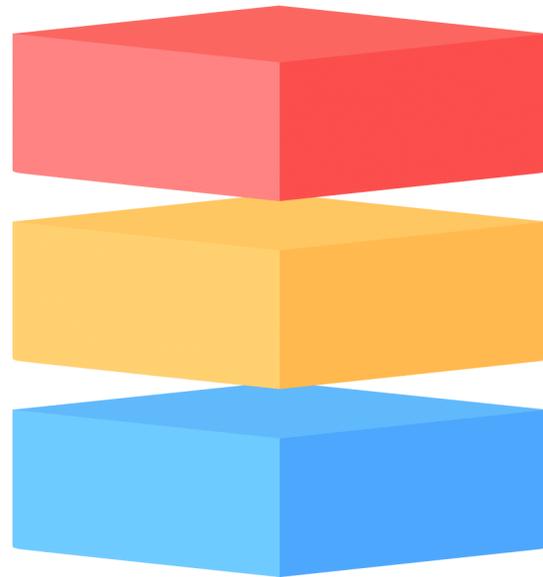


Your Industry

Your Competitive Moat



Three Layers of AI Leverage



Action Leverage

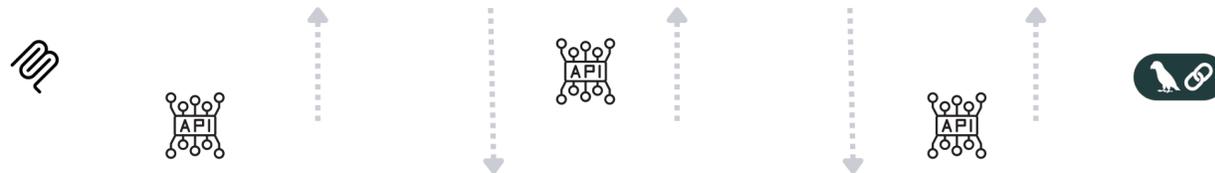
Context Leverage

Cognitive Leverage

Flexible interaction layer



 **AI Meta Layer**



Flexible tool and application layer

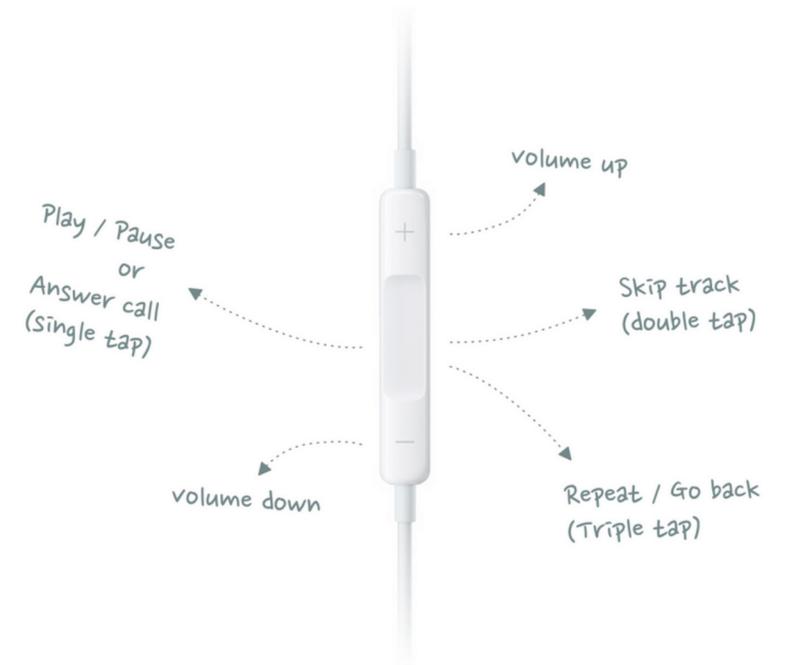
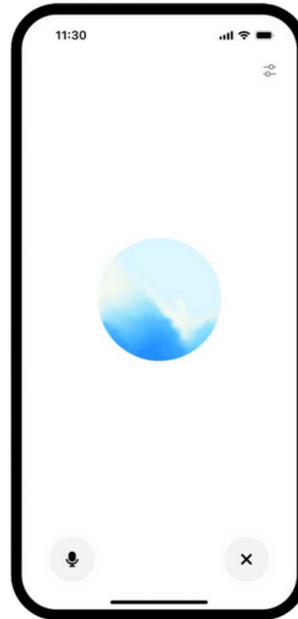
**Meta-layer AI integrates
what exists, making
interactions feel
effortlessly human.**

Build Intuitive Experiences



RECEIVE		SEND	
Read	~250wpm	Write	~60wpm
Listen	~270wpm	Speak	~150wpm

Bottleneck (with arrow pointing to the SEND header)



**AI's most transformative
use is not as a feature
but **in the loop.****

**AI should not just do more
work for you, it should
help you decide **what
work is worth doing.****

AI in Decision Loops, not Just Products



ASSIST

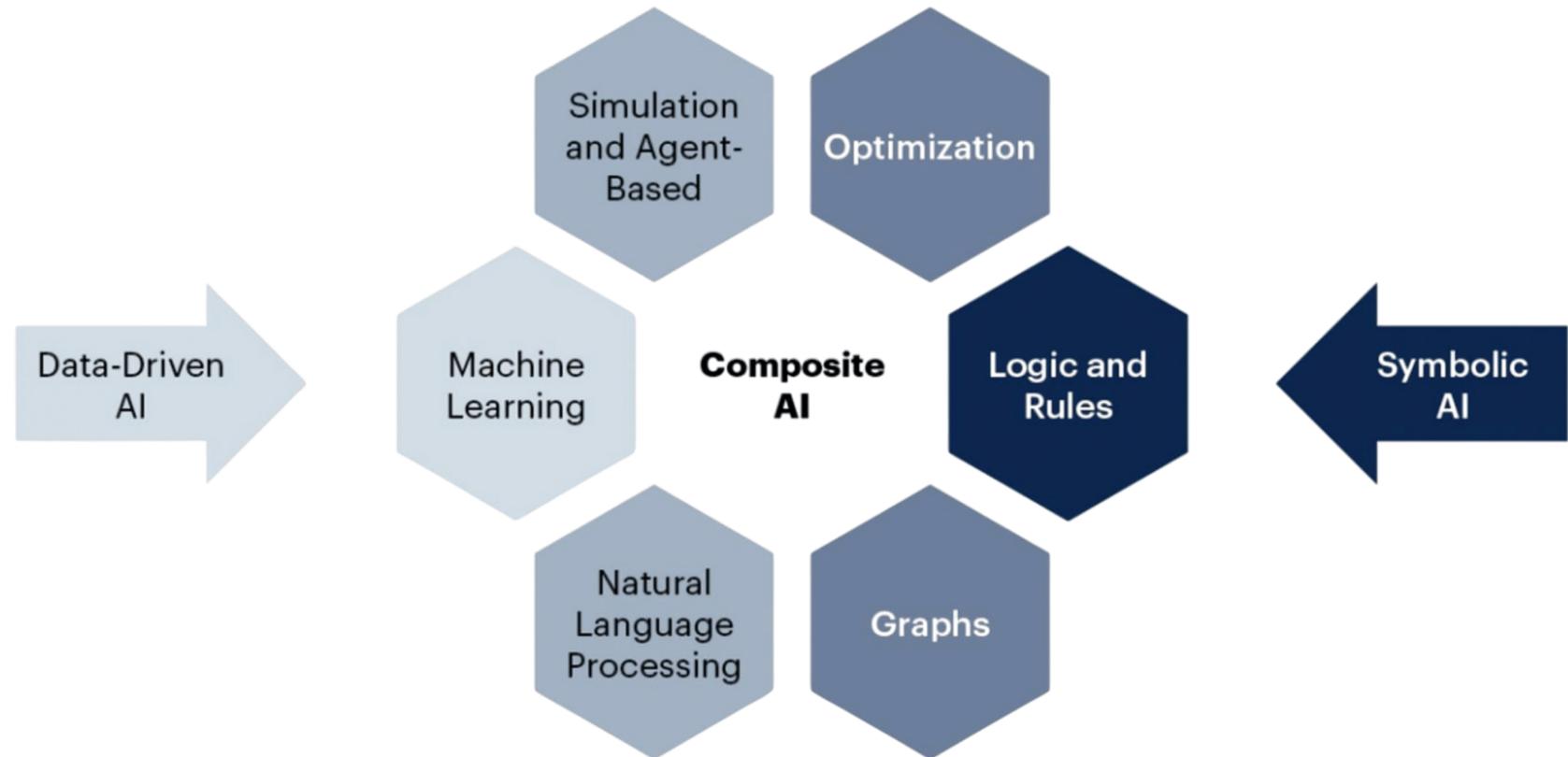


ADVISE



ACT

Composite AI



Source: Gartner
728870_C

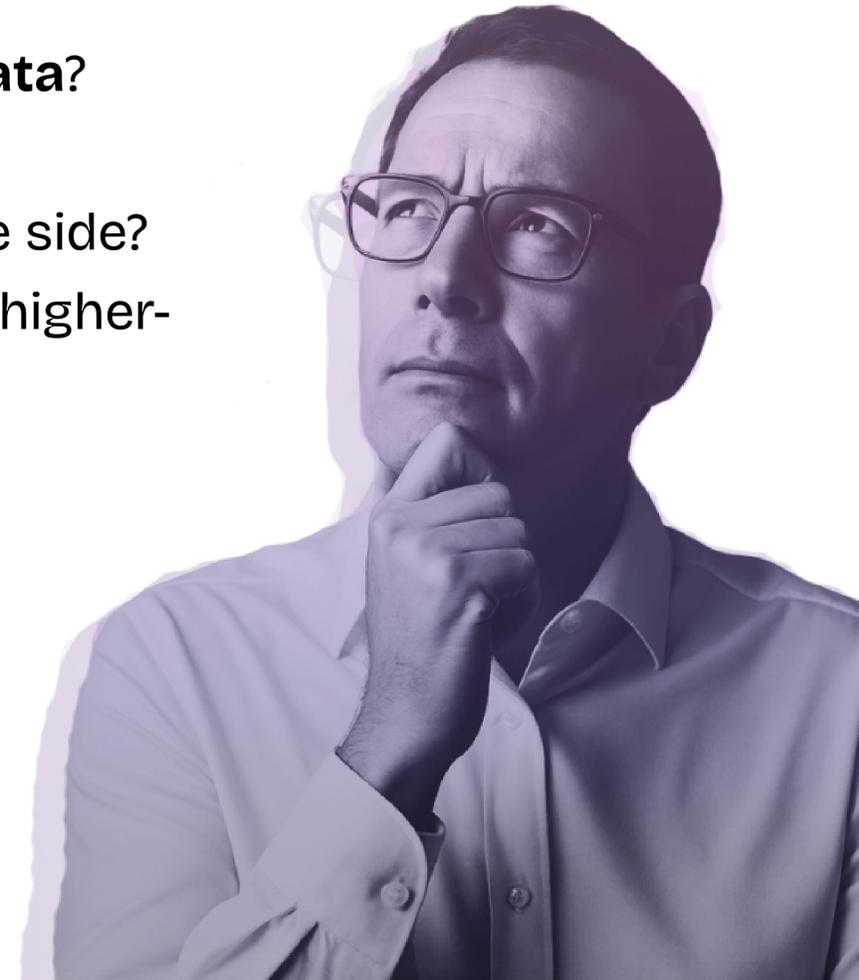
Ecosystems > Products

**The winners build platforms that learn,
not features that fade.**

Your next “software team” shouldn’t build features ... they should be training behaviors.

Questions to Ask

- How does this solution **use and improve our proprietary data**?
- Does it **learn and get smarter** the more we use it?
- Is it **embedded in our workflows**, or just another tool on the side?
- Does it **turn efficiency into leverage** — freeing capacity for higher-value work?
- Is it driving **measurable outcomes**, not just activity?
- **Who owns the outputs, data, and IP** it creates?
- How easily can we **switch or extend** this solution if the model changes?
- Are the components **reusable**?





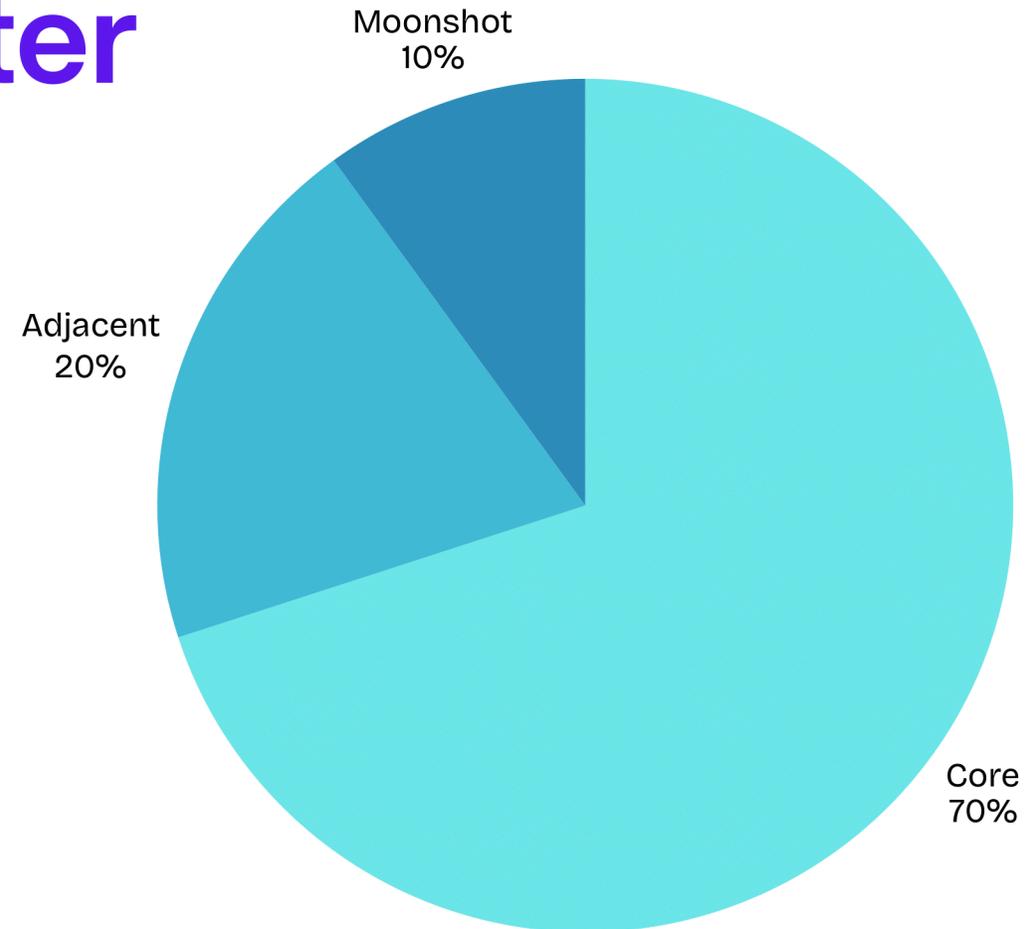
TIME



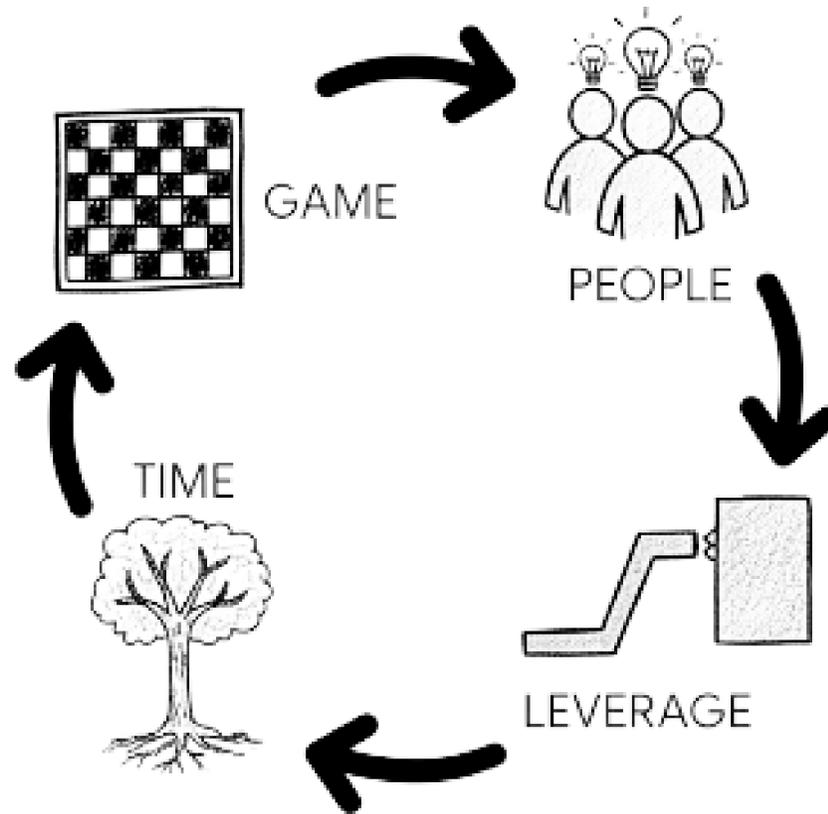
**You can rent a model,
but you can't rent
compounding.**

Fail Fast, Learn Faster

Google's 70-20-10 rule generated billions, and a culture of repeatable invention.



The Real AI Advantage





**The question is not whether
algorithms advance, but whether **we**
advance with them.**

**It's never a failure.
It's either a learning or a success.**

**The technology is here.
The potential is massive.**

The only question left is ...



THANK YOU!



Svetlana Makarova

**Supplemental
Health Care**

**Application
Modernization**

SMOOTH

SAILING



NLP LOGIX
AI COLLABORATE '25

Presenters



CHRISTOPHER Long

Chief Process Officer
Supplemental Health Care



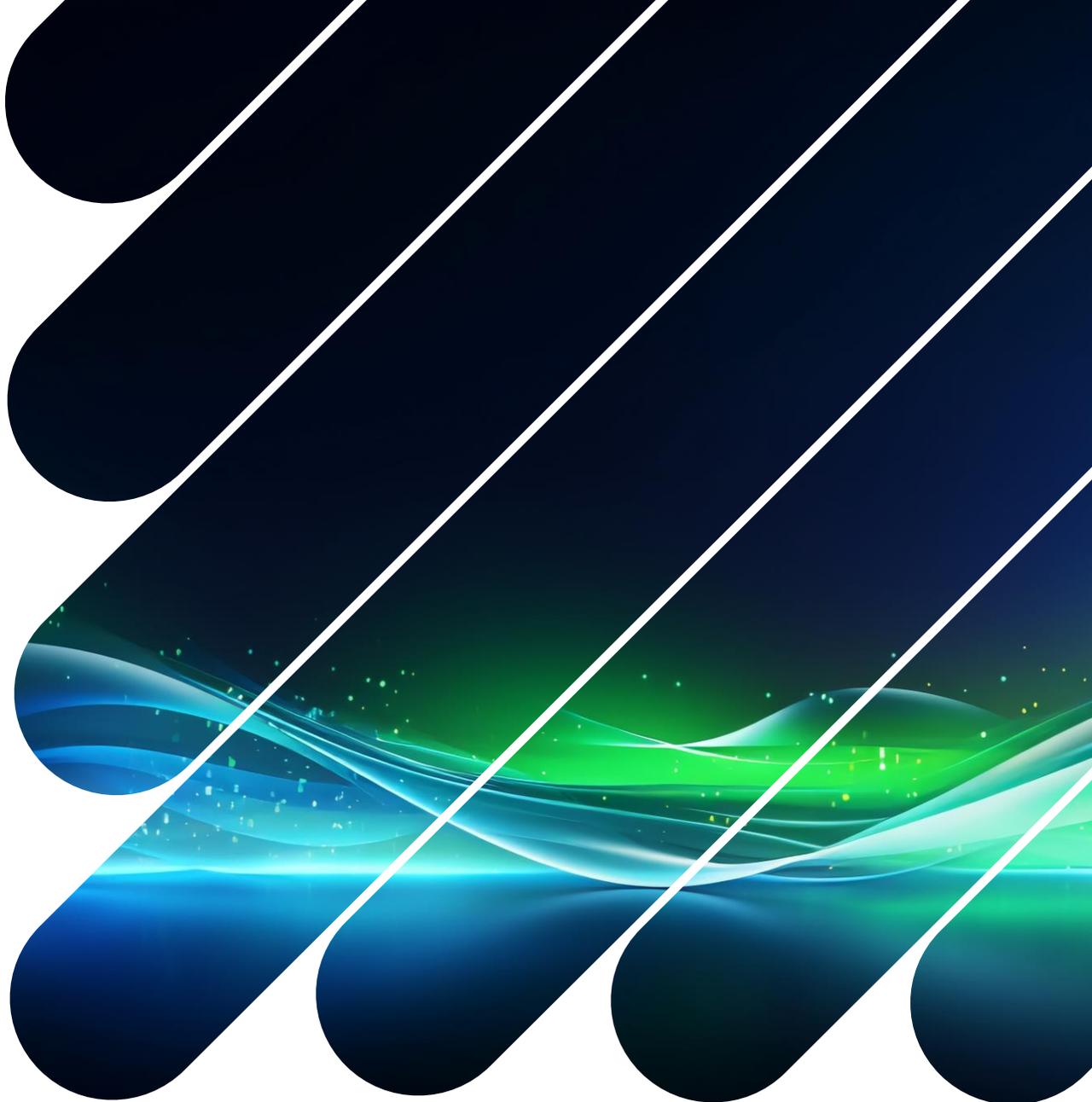
Nathan Enright

Sr Cloud Solution Architect
NLP Logix



Supplemental  Health Care SM

CONNECTIONS THAT FUEL MIRACLES



Supplemental Health Care at a Glance

History



Founded in Buffalo, NY in **1984**



Private company with purely
organic growth



One of the **Top 20** largest Healthcare Staffing Agencies in the United States in annual revenue

Accolades



Awarded **Best of Staffing®** Talent & Client for eight consecutive years.



With **40 years of experience**, SHC is the most tenured firm behavioral health agency operating today.



The only 2-time winner of the ASA **Staffing Employee of the Year** award

CONNECTIONS THAT FUEL *Miracles*



Culture of Caring

Our culture is special. It's our secret sauce. For everyone we serve, we foster an environment where caring is celebrated, and people feel loved.



Healthcare Expertise

We know healthcare. With nearly 40 years of healthcare experience, our team is uniquely qualified to support more than 100 skillsets everywhere healthcare is delivered.



Continuum of Care

From hospitals to home, rural communities to big cities, next-door and across the country, SHC solves healthcare delivery challenges everywhere.



High Touch/ High Tech Experience

Interacting with SHC is meant to be quick and easy – while still fostering human connections.



Impact

Changing lives for good. Care is in our name and in our actions. Supplemental Health Care supports positive change for the communities we serve and the lives we touch.

Where do we start?



Collaborative Workshop

Shared exploration of business domain



Create Common Language

Bridges domain experts and technical team



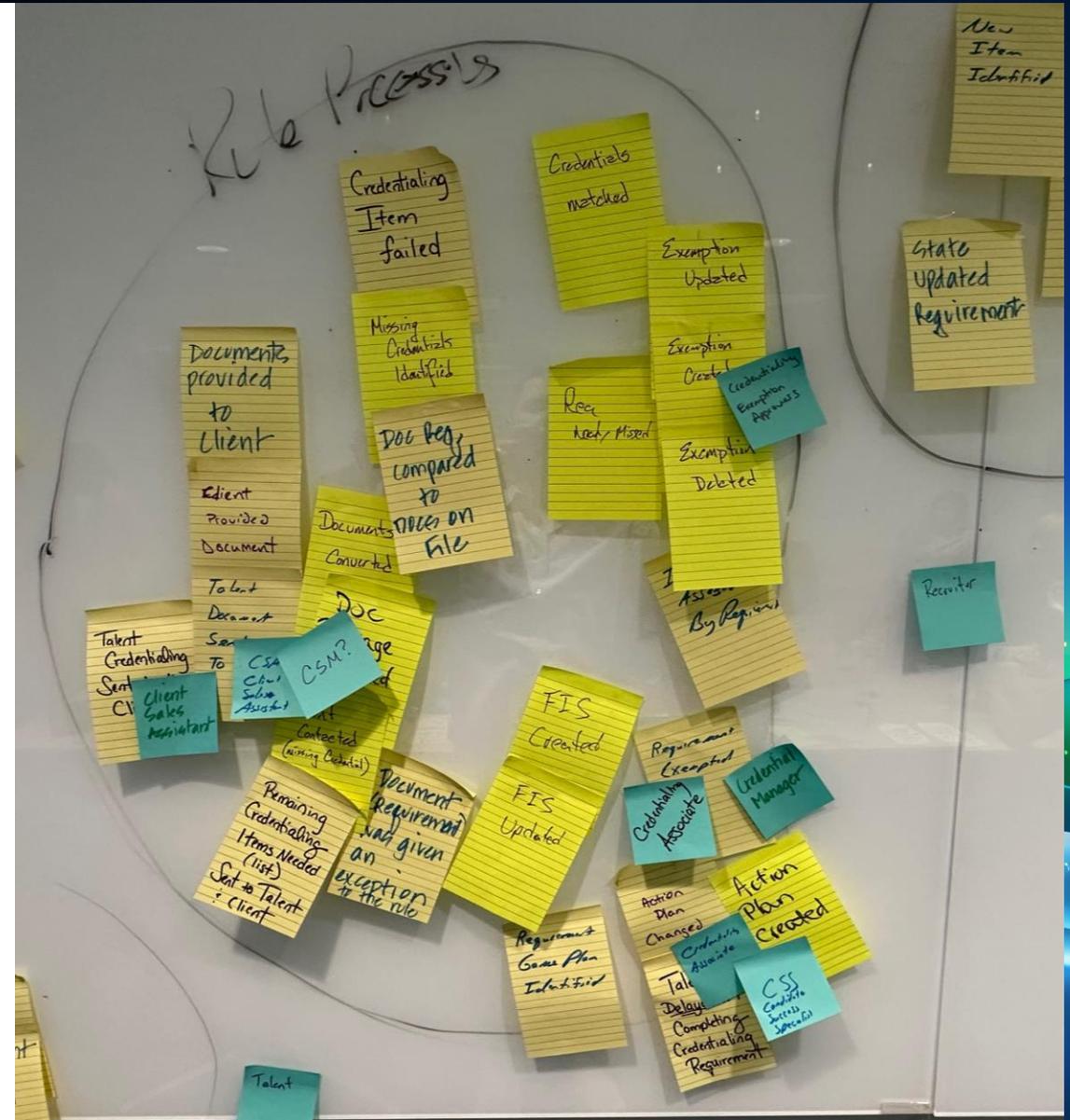
Map Business Processes

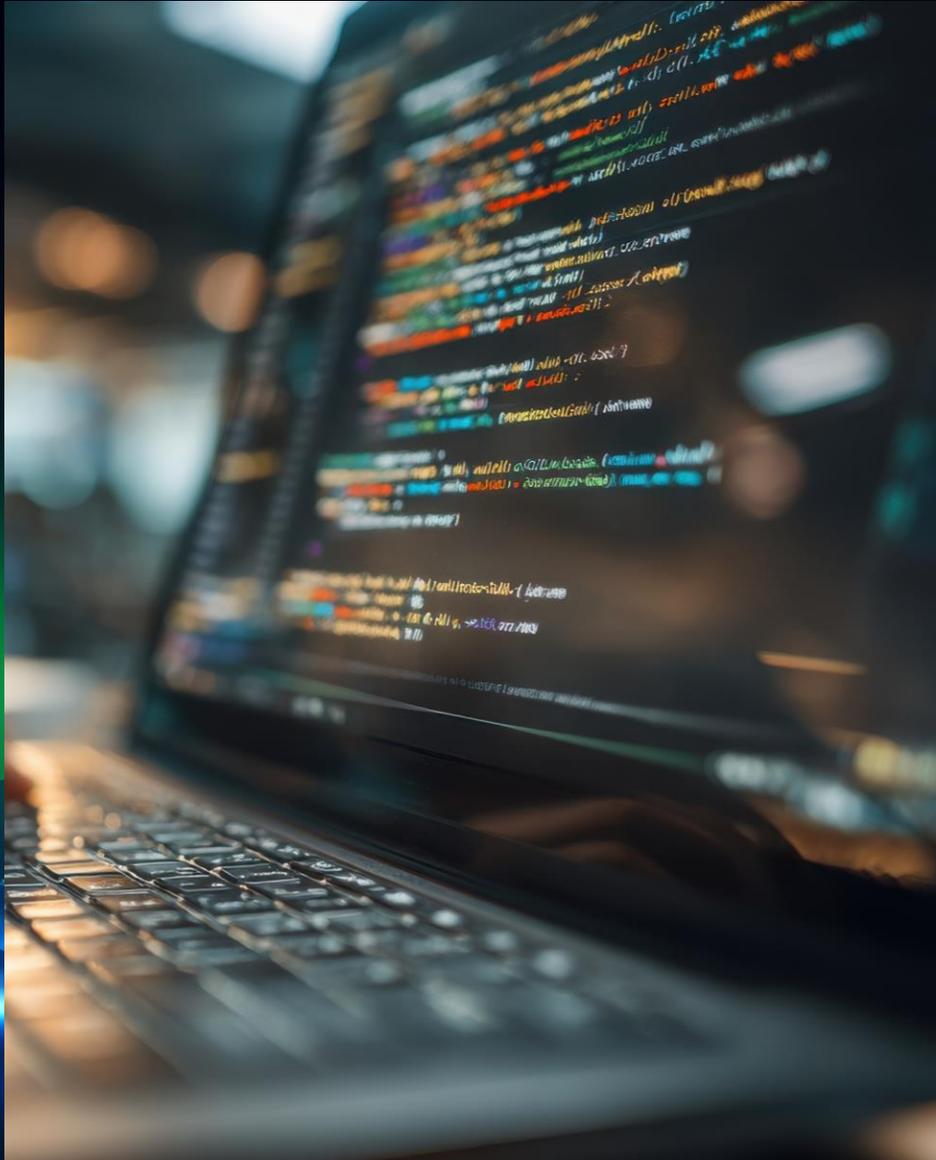
Visualizes domain events and workflows



Shape System Design

Identifies bounded contexts for implementation





How do we get there?

Architecture and AI Prototypes

Backlog Refinement

Full Stack Team

Release Early

Putting it
all together

Home Talent Facilities Task List Internal Reports Tools Marketing Helpful Links Admin Tools

Credentialing Center

History

Nicole Baez Status: Submitted
Credentialing Due Date: N/A Start Date: N/A
UT Health - Jacksonville Last Evaluation: 10/31/2025, 12:00 AM

8 Complete 11 Pending 1 Expiring 0 Exemptions

All Requirements Items STATUS

Background Screen Screening Complete
Background Screen - All disciplines

Exemption Manual Fail

Complete ALL of the following.

Sterling Background Check Pass
Sterling Background Check

Hide Details

Date Completed	9/30/2025	✓
Background Check Results	Yes	✓
Assignment Sheet ID (if Extending - Put Original Assignment Sheet ID)	230	✓
Sterling Package Selected	3 YR SHC Standard (County Only)	✓
Confirmation Death Master File Search Was Performed	Yes	✓
Confirmation Social Security Trace (SSN Trace) Was Performed	Yes	✓

OIG Screen Screening Pending
OIG Screen - All disciplines

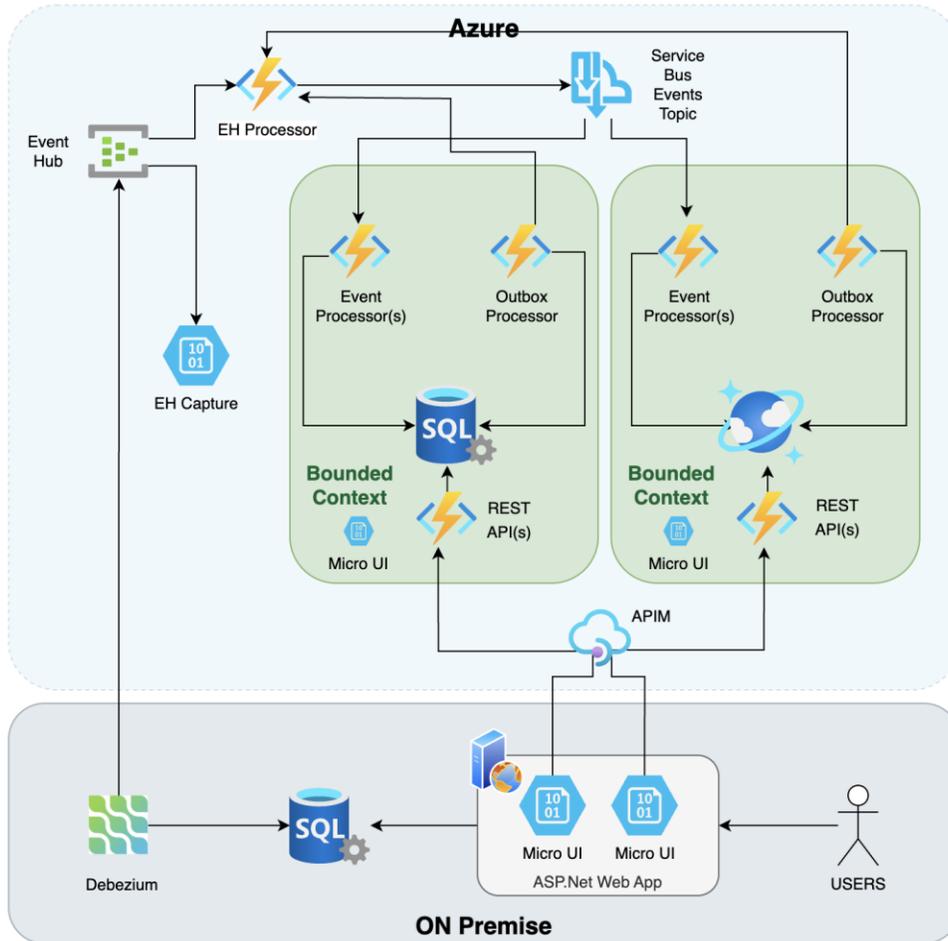
Mutual Arbitration Agreement Employment Profile Complete

Platform for the future

Easily Plug in AI Document Processing

Easily add new functionality built on initial Events

Technical Infrastructure and Patterns for further Monolith Decoupling



Using AI to Reverse- Engineer Product Support Analysis from Technical Manuals

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Presenters



Vijay Chachra

Andromeda Systems Incorporated

Vice President, International IPS

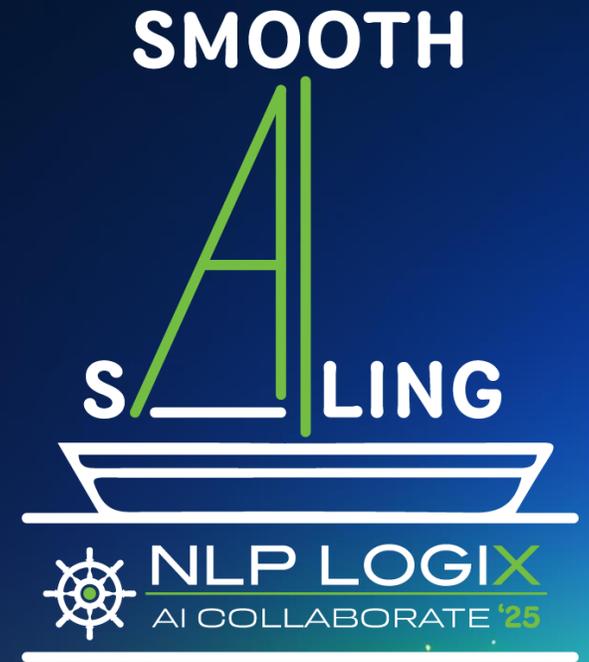
Services & Training

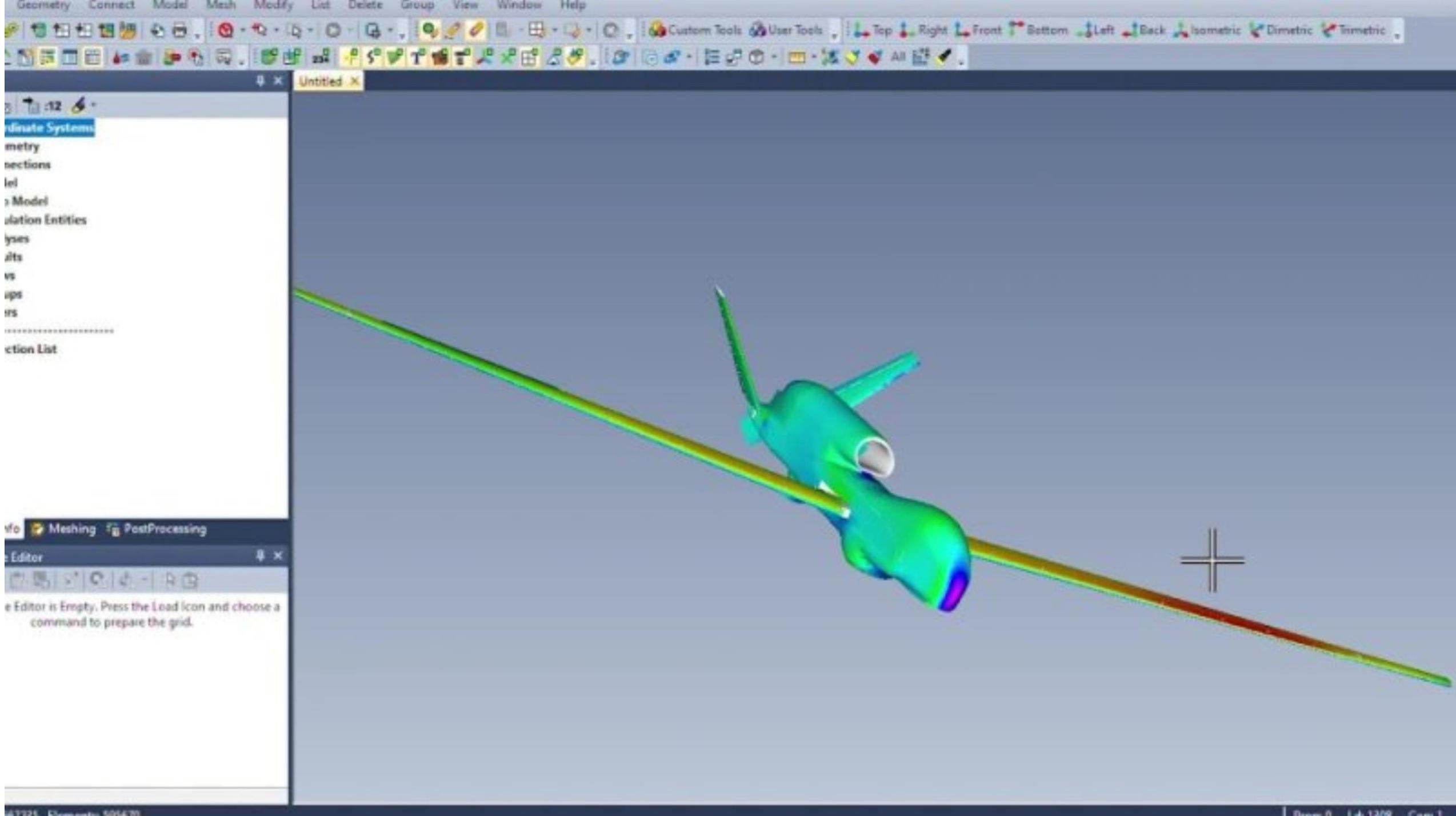


Robert Brown

NLP Logix

Chief Technology Officer







Overview

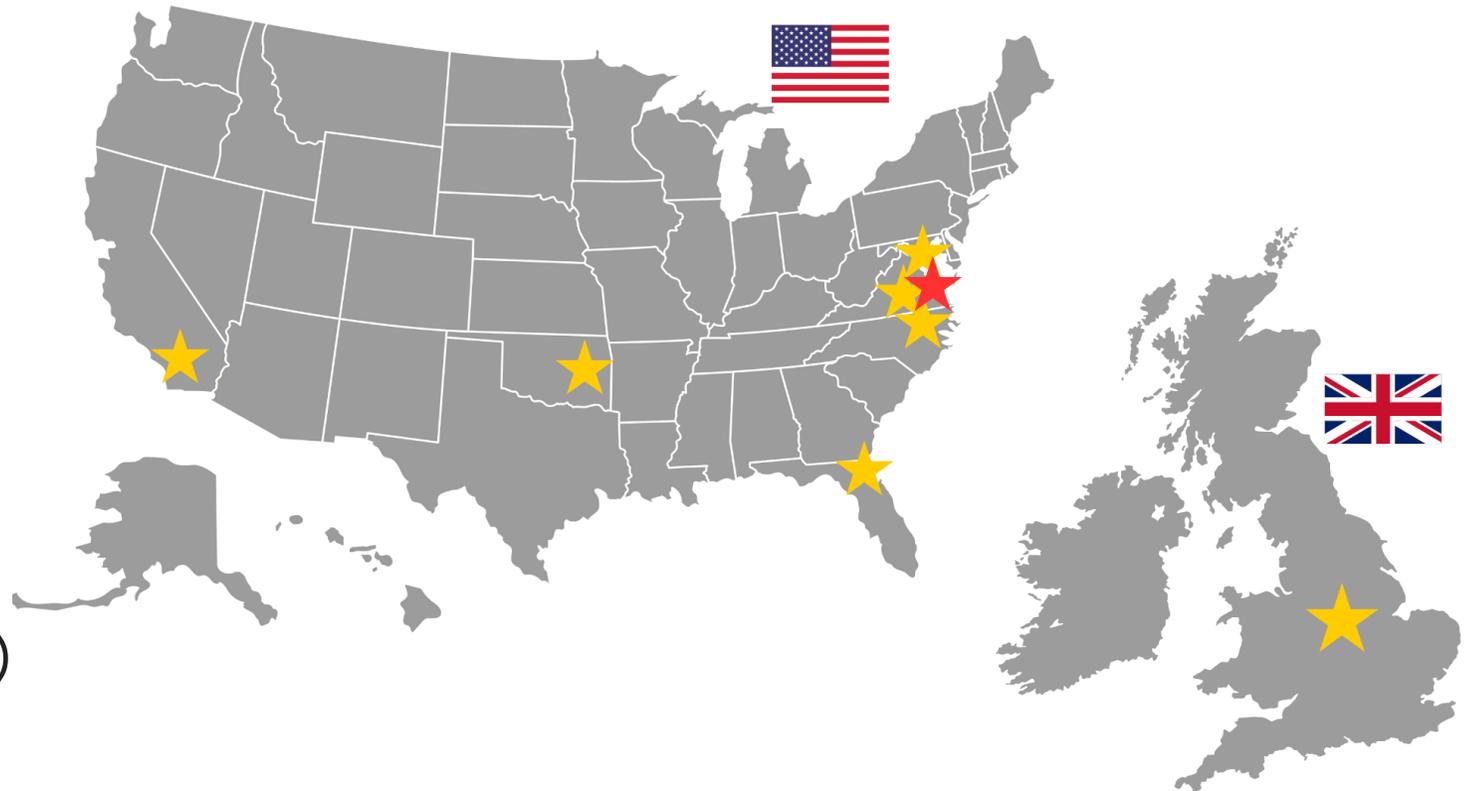
Founded in 2005

450+ employees including engineers, analysts, statisticians, data scientists, IT specialists, logisticians, maintenance planners, and subject matter experts.

Locations

USA

- VIRGINIA BEACH, VA (HEADQUARTERS)
- ARLINGTON, VA
- HAVELOCK, NC
- JACKSONVILLE, FL
- LEXINGTON PARK, MD
- OKLAHOMA CITY, OK
- SAN DIEGO, CA



INTERNATIONAL

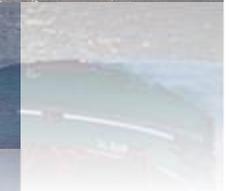
- LITCHFIELD, UK (TFD EUROPE)

Vision – Who We Are

Andromeda Systems Incorporated (ASI) is a technical services and products company focused on providing comprehensive support solutions for military systems and commercial physical assets.

Our services fall under the widely recognized disciplines of:

- Systems Engineering
- Supportability
- Physical Asset Management



Capability and Products



Complete set of integrated capabilities for life cycle support.

Acquisition and Program Management Support

- High visibility support in DoD Program offices

Commercial Software Products

- OptiAM & TFD Supportability Workbench

Information Systems

- Commercial and Military web-based application development

Financial Services

Physics-Based Engineering

- Subject matter experts in structural, electrical, mechanical, and propulsion systems engineering

Reliability, Maintainability & Supportability

- Reliability Engineering
- Logistics

Training – Pierian Academy

What is Supportability?

- **Integrated Product support and sustainability** are in our DNA - **ensures asset performance.**
- We **primarily operate** in the Defense, Aerospace, and other commercial sectors, operating **expensive equipment.**
- **Downtime and unplanned maintenance** events **affect mission** readiness and **escalates cost.**
- **Product support costs account for 80% of total lifecycle costs.**
- Our **skilled workforce and software tools** address **optimizing availability and least total life cycle.**



Heart of Sustainment

Logistics Product Data (LPD) and Technical Publications/Manuals are the key enablers for effective product support and maintenance optimization.



Logistics Product Data ensures that all product support elements are accurately defined, spares, support equipment and manpower are provisioned to achieve the desired availability of the product.



Technical Manuals contain all the instructions needed for the maintainer to perform the work orders raised due to any scheduled or unscheduled maintenance events.

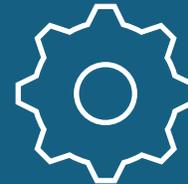
How Much Data Powers a Single Jet?



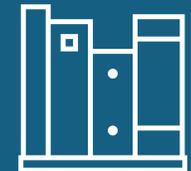
25,000+
Pages



1,900
Manufactures



200,000+
Parts



50-60
Manuals per
System

Challenge Addressed by AI/ML

- LPD and Tech Pubs source data are developed with minimal interface / integration.
- More than often acquisition contracts call out Tech Pub delivery with no LPD.
- In service maintenance optimizations heavily depends on a completed LPD.
- This leads to an expensive effort involving significant labor-intensive effort to reverse engineer a Pub into the LPD.
- With advent of AI/ML the desire is to automate this reverse engineering effort in automating the parsing and mapping of the content in the Pubs into the LPD format for easier ingestion.

The Arctic Mission



3. Servicing and Maintenance

3.1 General

This section provides detailed procedures for lubrication and general servicing of the Nose Landing Gear (NLG) assembly. Proper lubrication and periodic servicing ensure smooth operation, prevent corrosion, and extend component life. Maintenance personnel must use only approved materials and tools in accordance with current maintenance standards and lubrication charts.

All lubrication tasks should be performed on a clean and properly supported aircraft. Before starting, ensure the landing gear is in the extended position, hydraulic systems are depressurized, and the aircraft is secured with chocks and safety pins.

3.2 Scope

This procedure covers:

- Lubrication of all Nose Landing Gear grease fittings
- Functional cycling to distribute lubricant
- General inspection of lubrication points and associated hardware

3.3 Initial Setup

Tools and Equipment

- Grease gun (manual or pneumatic, compatible with standard aircraft fittings)
- Torque wrench (range suitable for landing gear fittings and hardware)
- Clear lint-free cloths or shop towels
- Standard maintenance creeper or access platform (as required)

Consumables and Materials:

- Grease, Specification MIL-G-81322 (or equivalent)
- Cleaning solvent (non-corrosive, aviation-approved)
- Nitrogen for servicing strut (if required)
- Personal protective equipment (gloves, eyewear)

HA - Tools/Consumables/Parts list		
HA.CAGECDXH	HA.REFNUMHA	HA.ITNAME
10001	101	Grease gun
10001	MIL-G-81322	Grease
10001	102	Torque wrench
10001	103	Lint-free cloths
10001	104	Solvent
45678	105	Lubrication Fittings



8. Illustrated Parts Breakdown (IPB)

Figure 8-1 shows the Nose Landing Gear Assembly and its subcomponents.

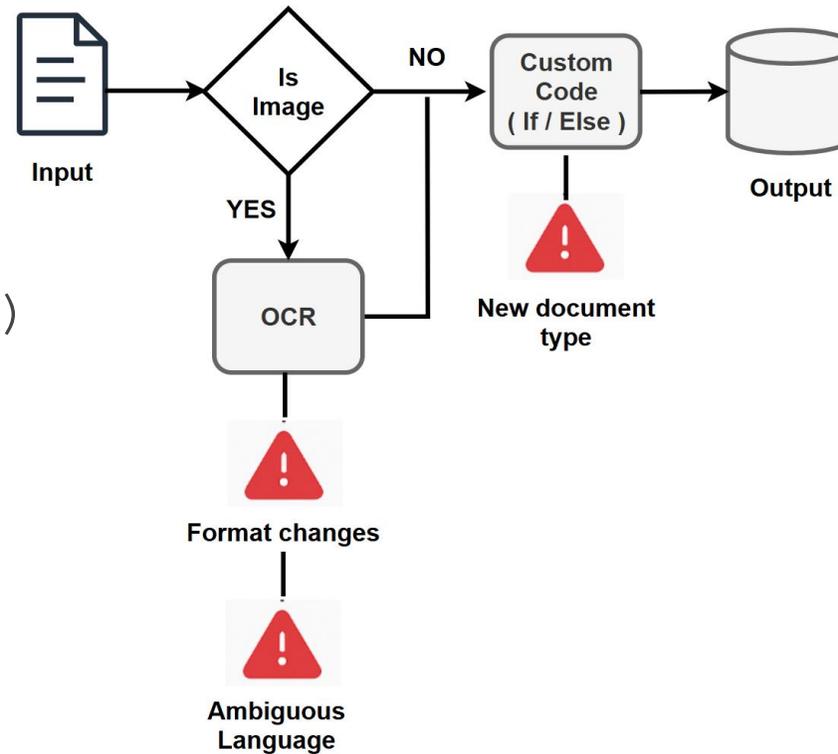
Part Number	Cage Code	Nomenclature	NSN	SMR Code	UOC
65-0000	10001	Nose Landing Gear Assembly	0000000001	XC	A
-65-0001	10001	Outer Cylinder	0000000001	PA000	A
--65-0001-01	10001	Inner Cylinder	0000000001	PA000	A
--65-0001-02	10001	Piston Rod	0000000001	PA000	A
--65-0001-03	10001	Piston	0000000001	PA000	A
--65-0001-04	10001	Piston Seal Set	0000000001	PA000	A
--65-0001-	10001	O-Ring Set	0000000001	PA000	A

The Old Way

Brittle if/else logic

OCR as the Core

- Optical Character Recognition (OCR)
- Custom Code: Templates, Pattern matching

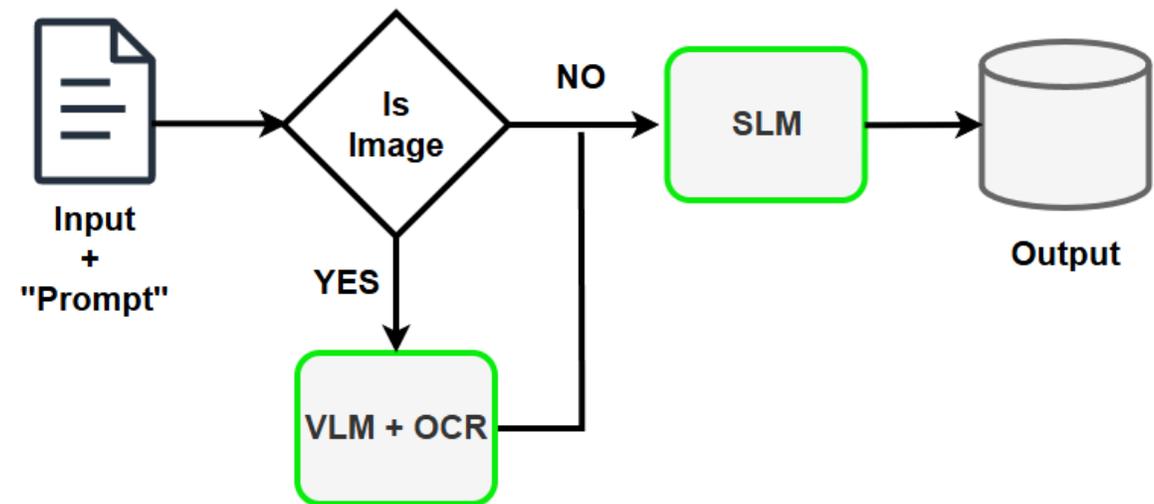


The New Way

Prompts Not Programs

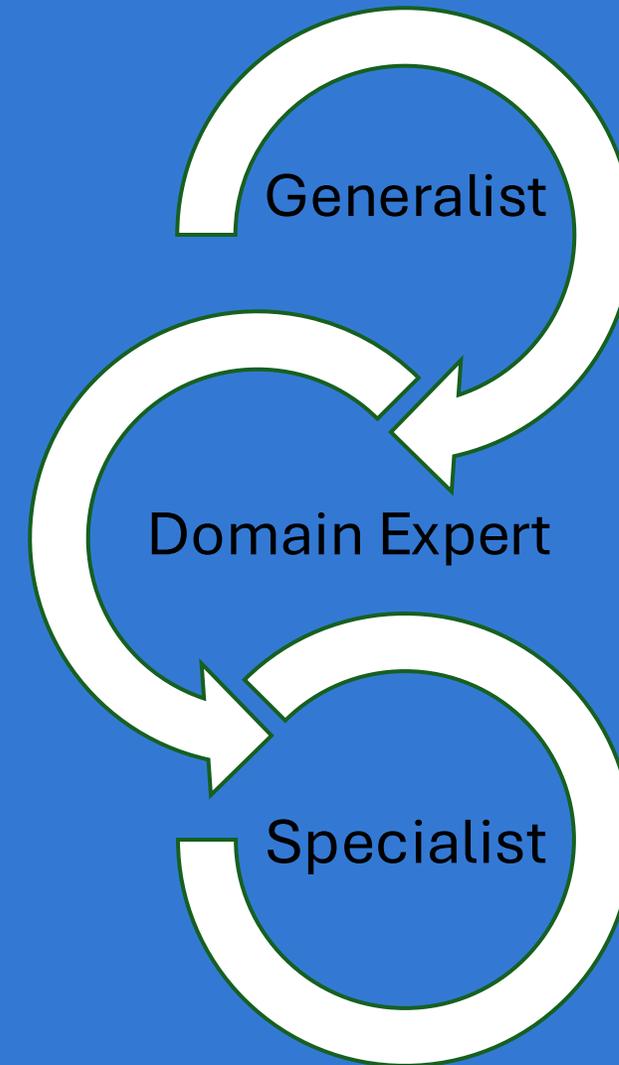
VLM + LLM pipeline

- OCR when needed
- VLM to provide context awareness



Distillation Process

We start with a model that knows everything, teach it what matters, and compress it into a model that knows only what we need.



Key Takeaways

Advancements in AI have changed the game.

AI amplifies human expertise.

Distilled, local models enable autonomy.

Using Gen AI to Optimize Healthcare Workflows: Do's and Don'ts

SMOOTH

SAILING

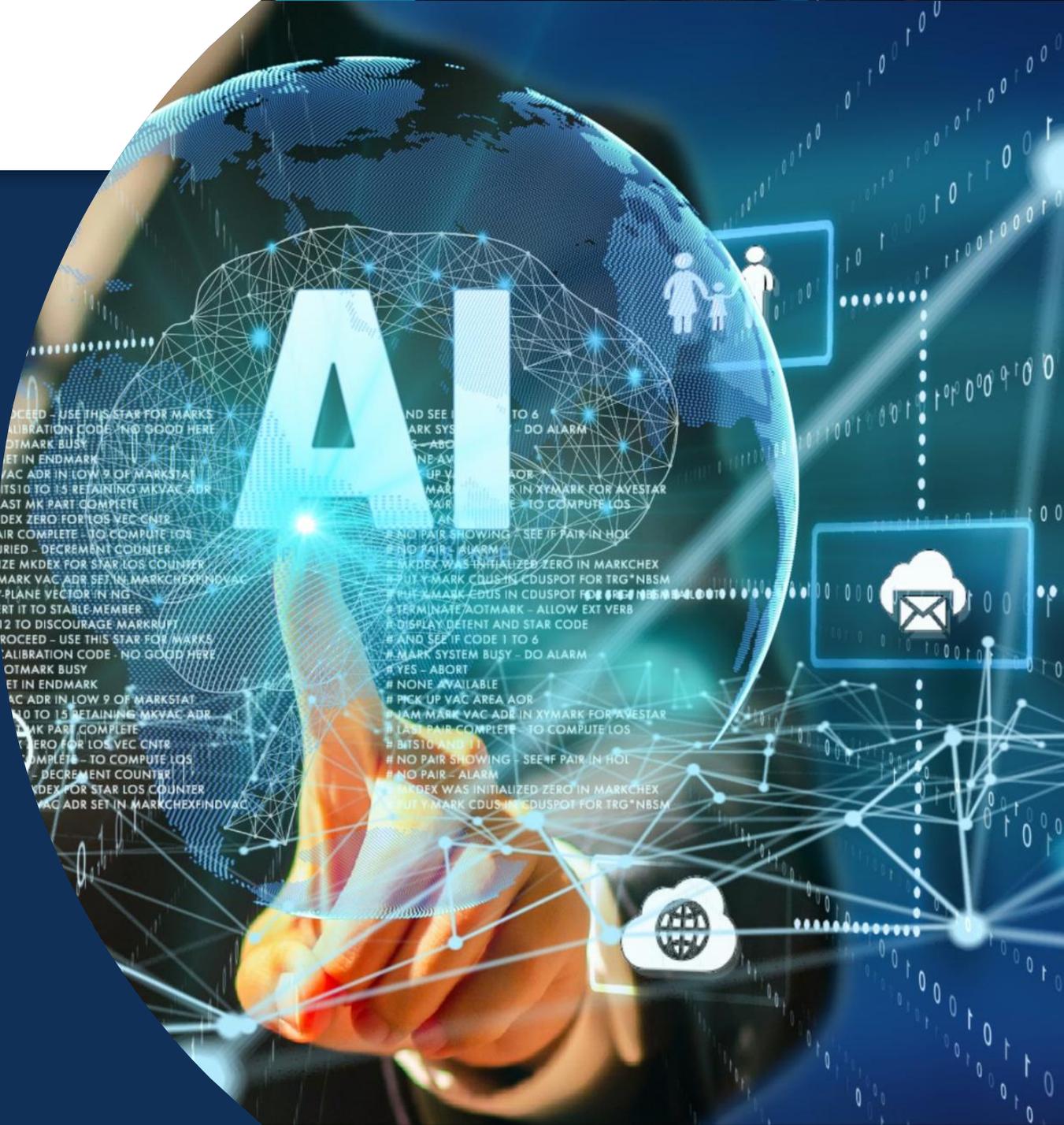


NLP LOGIX
AI COLLABORATE '25

Using Gen AI to Optimize Healthcare Workflows

Do's & Don'ts

November, 2025





Michael Privat

Chief Data & Engineering Officer at Availity

LinkedIn



Act 1: Most of Us Solve the **Wrong** Problem

Regex | Investigation | Example



Healthcare perfected regex...

... then decided the future was

better regex.

AI's real value: **Investigation,**

not text generation.

Stop looking for things to generate better.

Start looking for things to investigate that humans can't do as fast.

From Days to Seconds

Pre-Auth: investigation turned
documentation into reasoning.

Act 2: The **Investigation** Stack



**Developer
Productivity**



**Agentic
Workflows**



Explainability

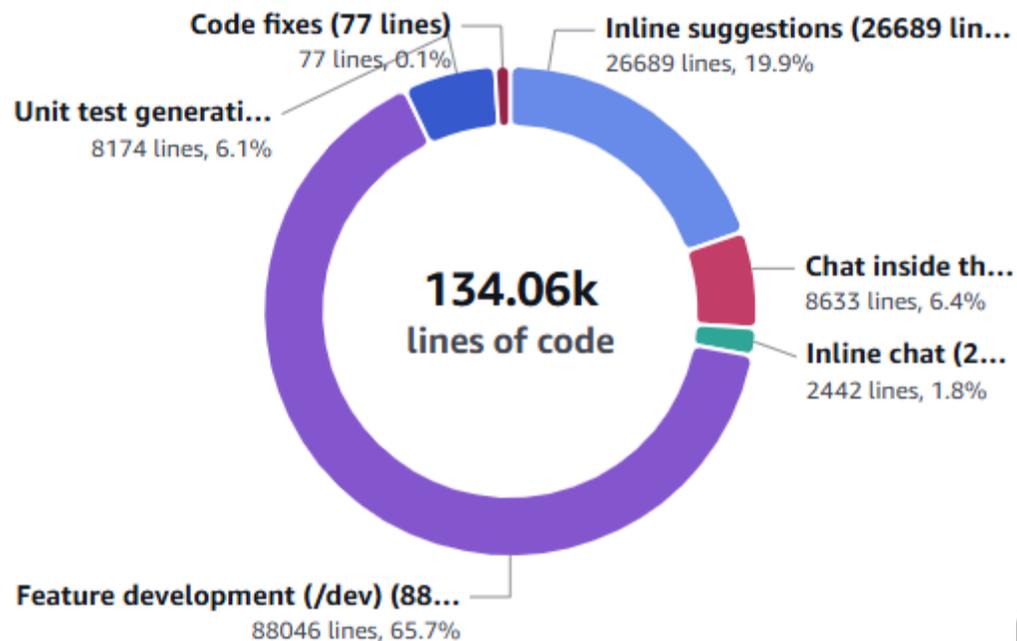
Developer Investigation

From “write faster” to “understand faster”.

- Code reviews that don't just check syntax — they investigate why something was designed a certain way.
- Documentation that investigates what the code actually does versus what it claims to do.
- Debugging that investigates root cause, not just symptoms.

Accepted lines of code

Lines of code written by Amazon Q Developer



- Inline suggestions (26689 lines)
- Chat inside the IDE (8633 lines)
- Inline chat (2442 lines)
- Feature development (/dev) (88046 lines)
- Document generation (/doc) (0 lines)
- Unit test generation (/test) (8174 lines)
- Code fixes (77 lines)
- Code Transformation (/transform) (0 lines)

Accepted suggestions

Number of code suggestions accepted by developers

10.85k

25.8%

Feature development (/dev)

Amazon Q can develop code features and make code change in response to a /dev prompt

Acceptance rate

64.3%

Unit test generation (/test)

Amazon Q can generate test code in response to a /test prompt

Unit tests generated

555

Unit tests accepted

318

Acceptance rate

57.3%

Developer Acceleration (?)

- +7.5% documentation quality
 - +3.4% code quality
 - +3.1% code review speed
 - -1.8% code complexity
- 
- -1.5% delivery throughput
 - -7.2% delivery stability

MCP Development

Software Engineering isn't about typing code,
it's about producing software that works.



Check Git
history



Run tests



Read
Documentation



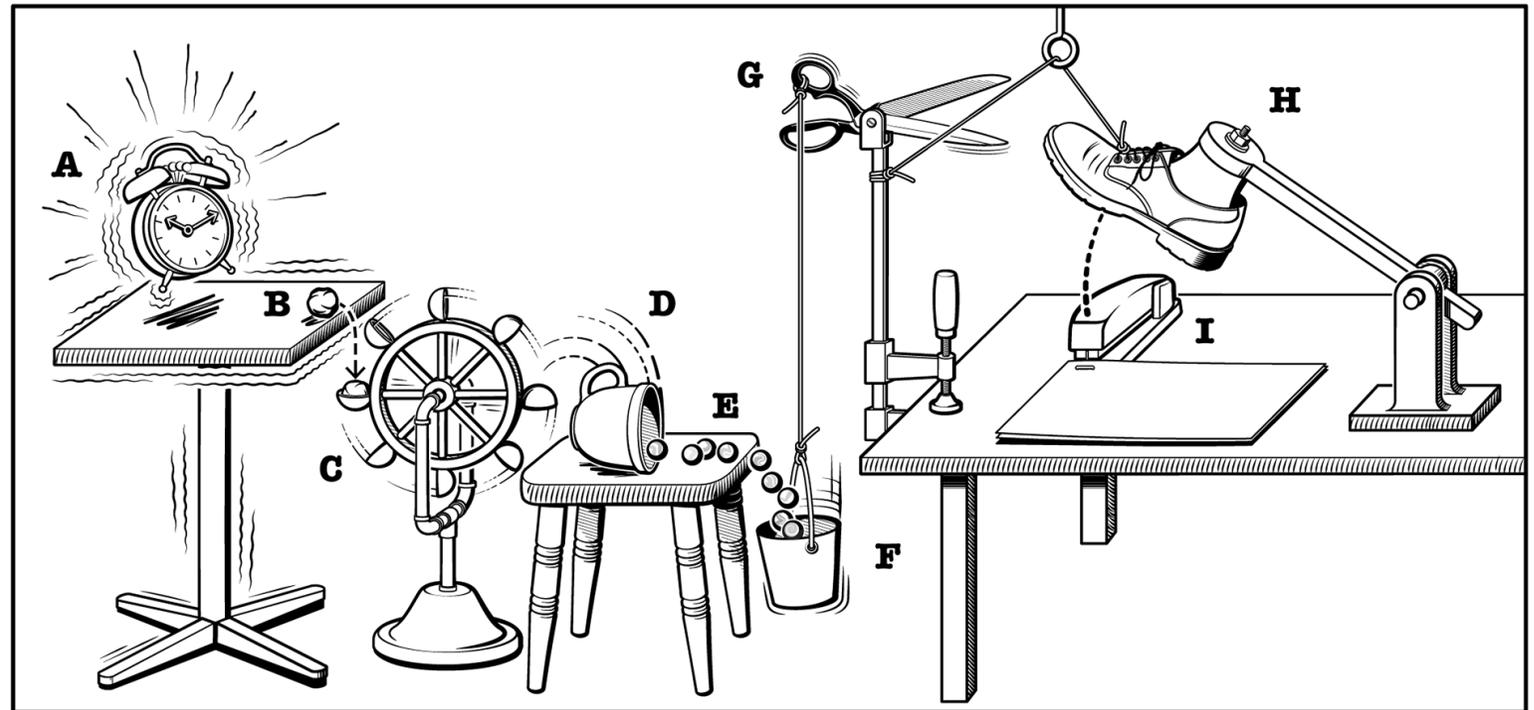
Read Incident
Reports



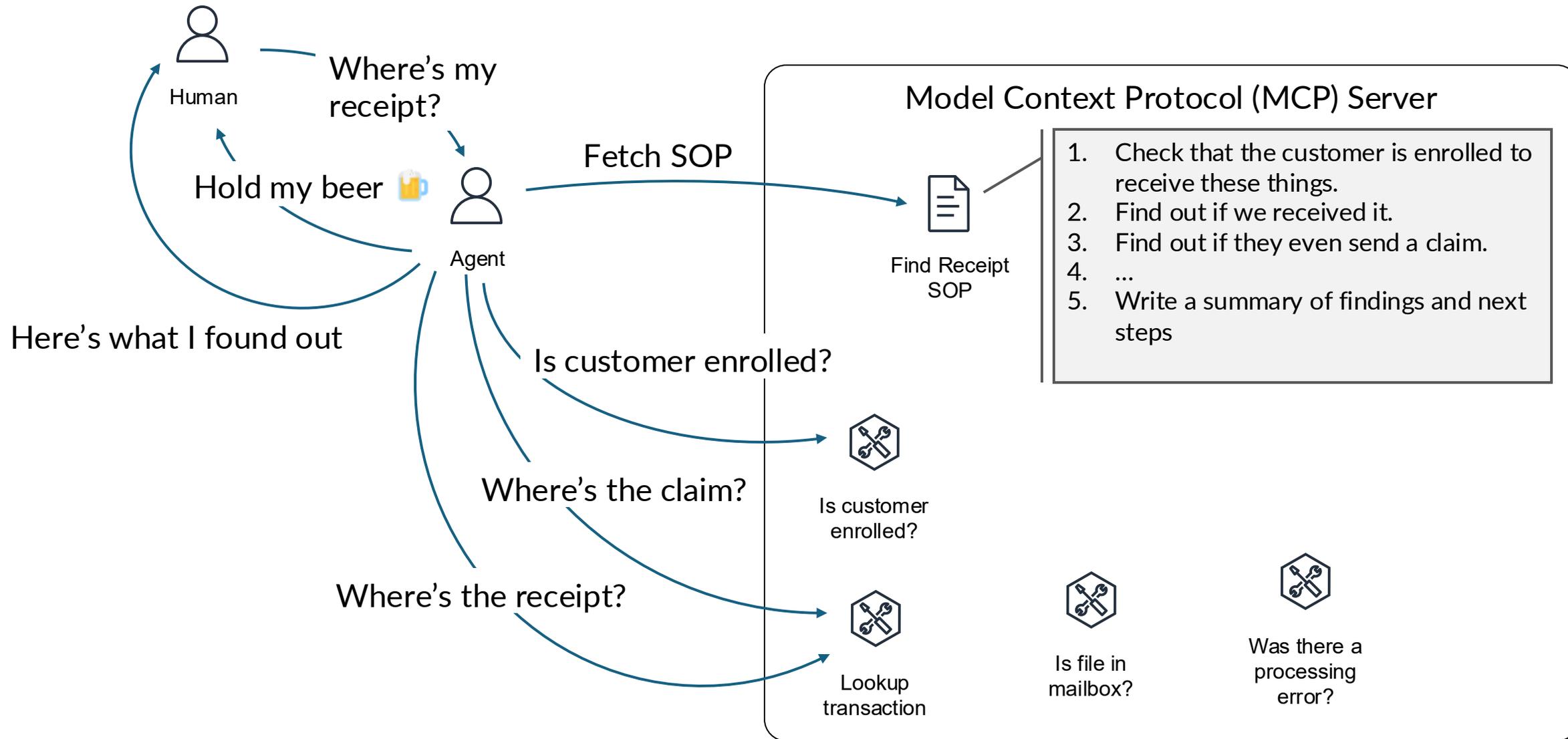
Connect people

The 835 Agent: claim payment receipts

Investigating missing claim payment receipts in healthcare.

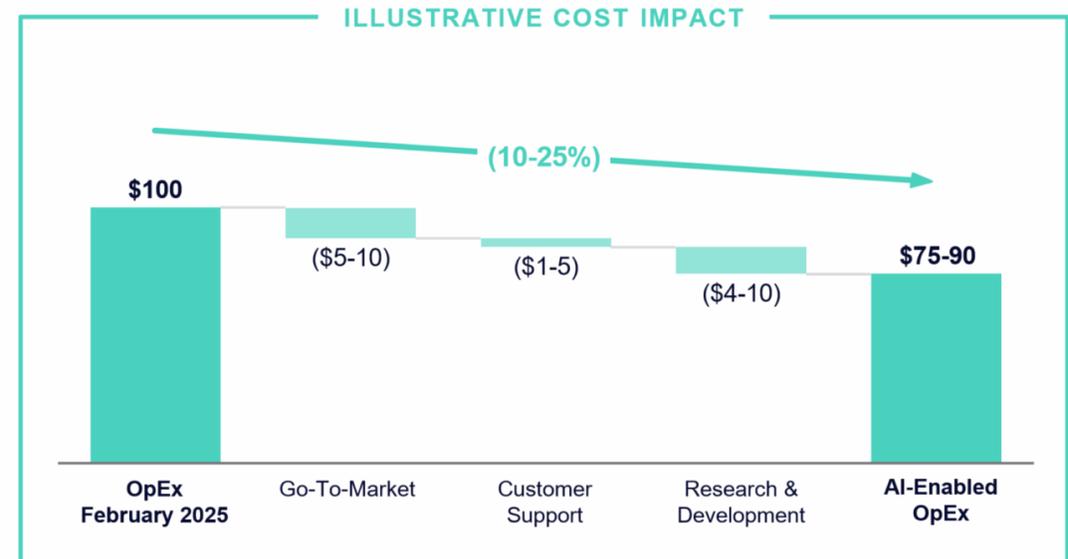
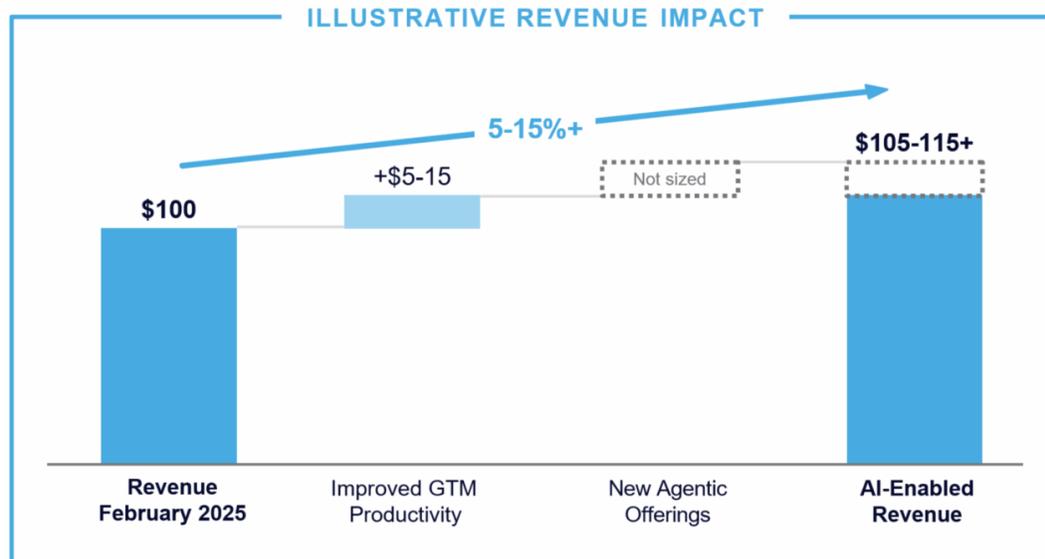


Where's My Claim Payment Receipt



Cost-Aware Design: Direct costs vs variable costs

- Model selection
- Right-sizing infrastructure
- Software maintenance
- Confidence-aware processes



Some Observations

Pattern 1: **Price of Confidence**

High confidence = shallow investigation. Low confidence = deep investigation.
Low confidence is a signal, not a failure.

Pattern 2: **Tool-Augmented Reasoning**

LLMs can't investigate without tools: MCP, function calling, structured output.
Our 835 agent can query systems, parse formats, call APIs, check history, escalate.

Pattern 3: **Audit Trails for Reasoning**

You can't just say "the AI found it". You must show how.
We track sources checked, questions asked, paths taken, what was ruled out.

Act 3: Healthcare's Unfair **Advantage**

Ground truth | Provenance | Edge-case rigor



The Challenge

Don't build autocomplete. Build investigation.



Developers: Investigate code, make better architecture decisions.



Agents: Investigate workflows, expose systemic issues.



Organizations: Investigate bottlenecks instead of polishing outputs.

2025: Text Generation is a Parlor Trick.

Investigation is the revolution.

Focus on creating **value**.

Use new tech to **eliminate** problems.

Q&A

Michael Privat

Chief Data & Engineering Officer at Availity

Thank You!

LinkedIn



AI Assistant Enablement

SMOOTH

SAILING



NLP LOGIX
AI COLLABORATE '25

Presenters



Matt berseth

NLP Logix

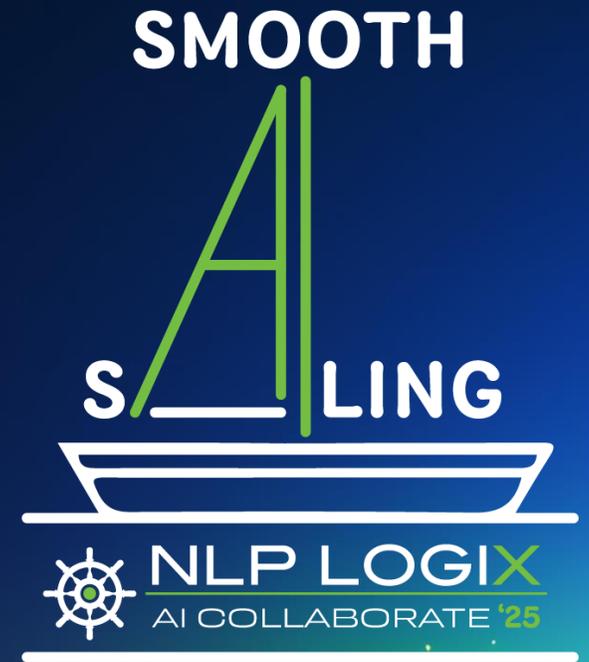
Co-Founder/Chief Information Officer

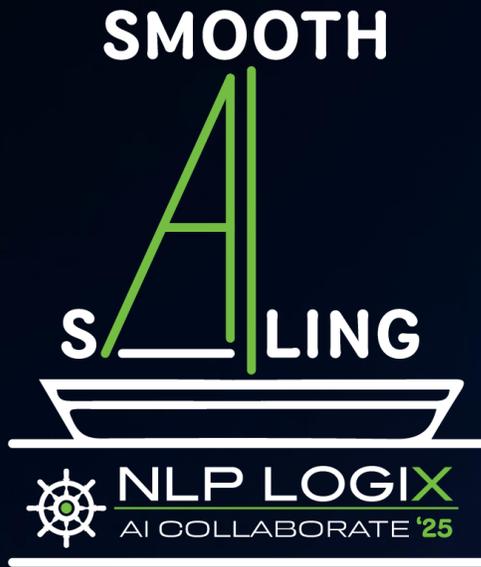


Tucker stachitas

NLP Logix

Vice President Sales Operations





What is an 'AI Assistant'?

- Emerging Category of Software
- Generative AI tooling that plugs into your stack to make **thinking, building,** and **analysis** quicker and more reliable.



ChatGPT



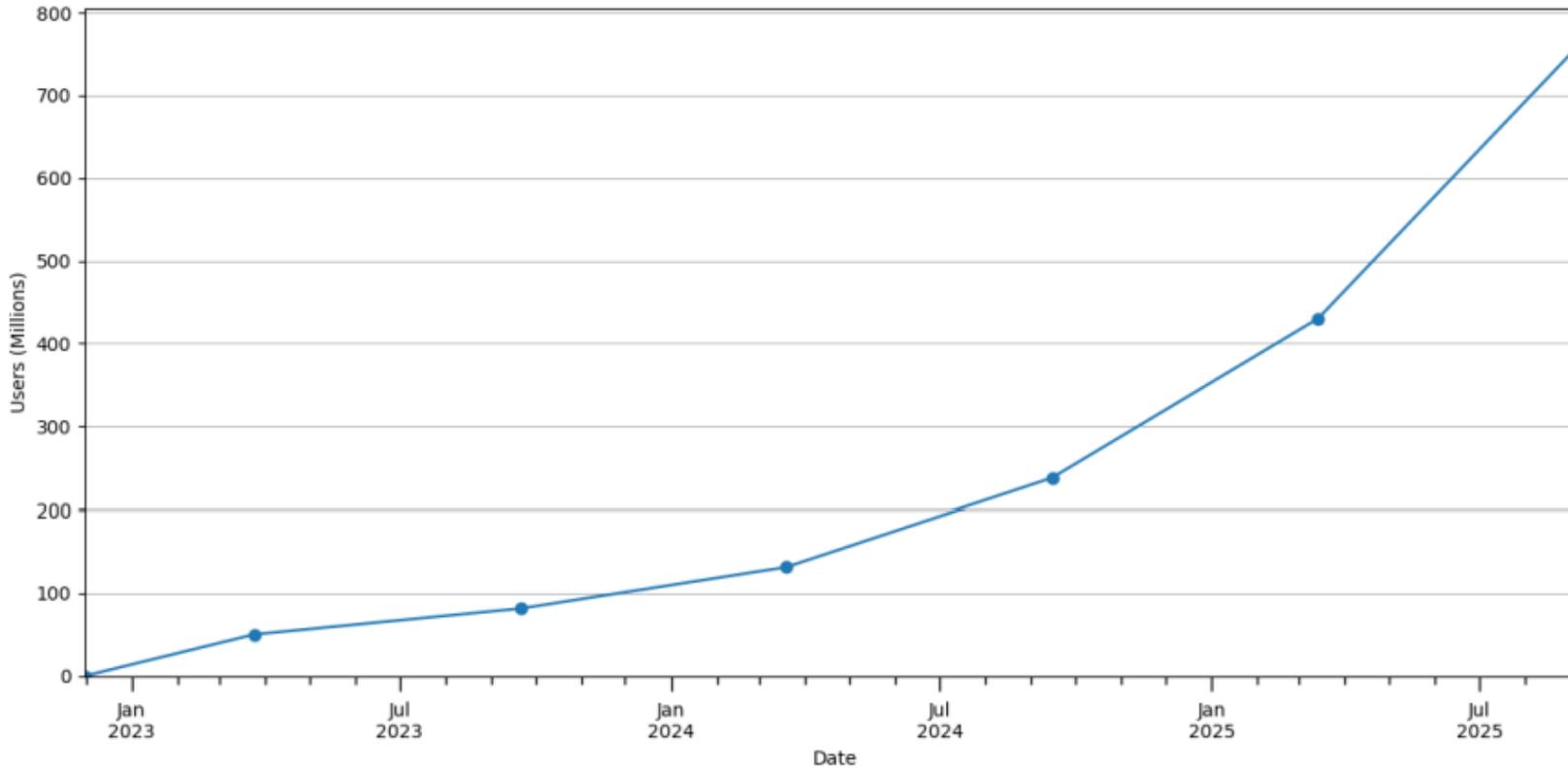
Microsoft 365
Copilot



GitHub
Copilot

The Growth of ChatGPT

ChatGPT was released to the public on November 30, 2022



Studies estimate **40% of Adults** in the US use ChatGPT weekly.

ChatGPT has become **synonymous with AI** for consumers.

Figure 3: Weekly active ChatGPT users on consumer plans (Free, Plus, Pro), shown as point-in-time snapshots every six months, November 2022–September 2025.

AI at Work: Momentum Builds, but Gaps Remain

Shadow AI & Rogue Tools

Team Skepticism

Lack of Collaboration Patterns

Training, Workshops & Labs

Data Connectors



Hype vs. Reality

95% of U.S. firms report using generative AI, yet

74% have not achieved measurable outcomes.

'We feel stuck'

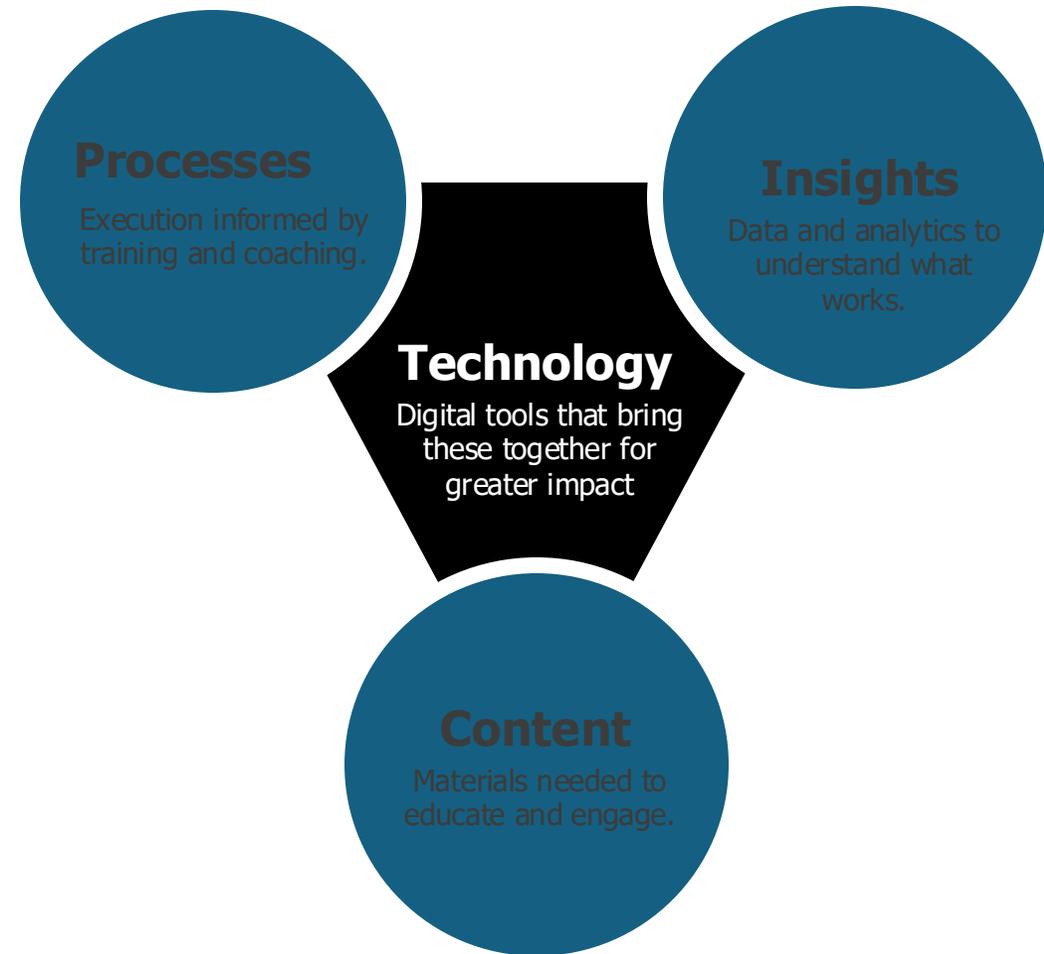
What is Enablement?

The **system** behind adoption.

The **program** that makes new tools stick.

For AI assistants:

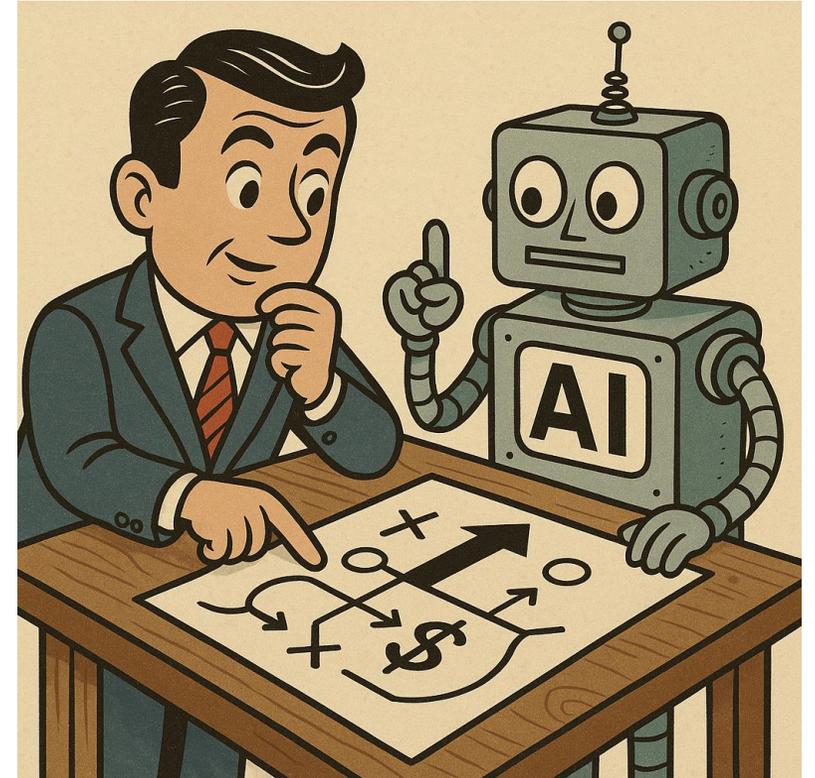
- Training users
- Tracking adoption
- Refining programs



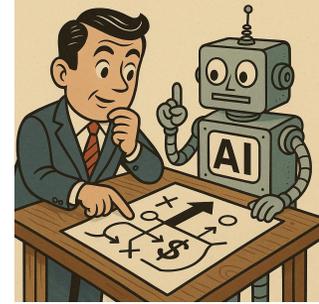
AI Strategy Dimensions

- Acute pains
- New capabilities
- Transformation
- Intra-departmental

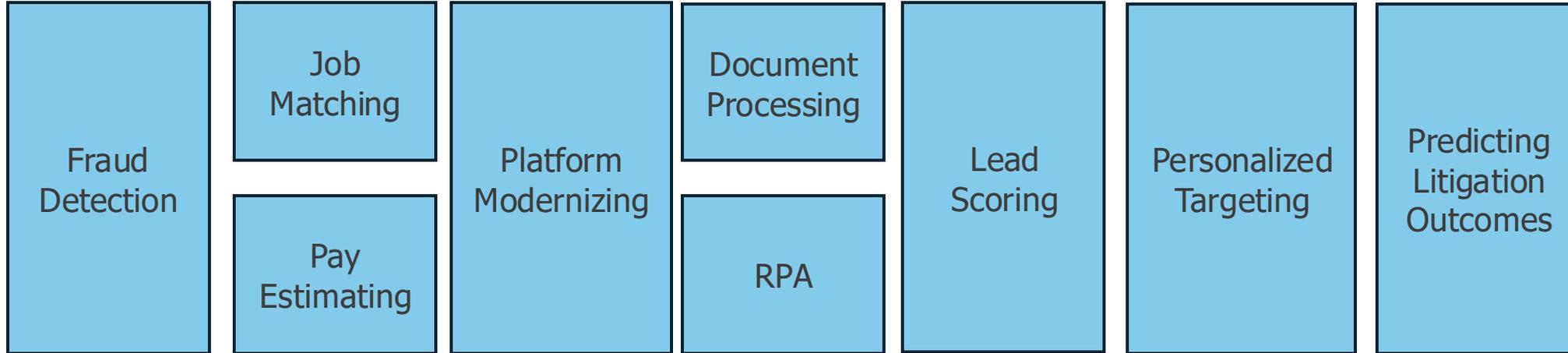
Vertical AI Strategy



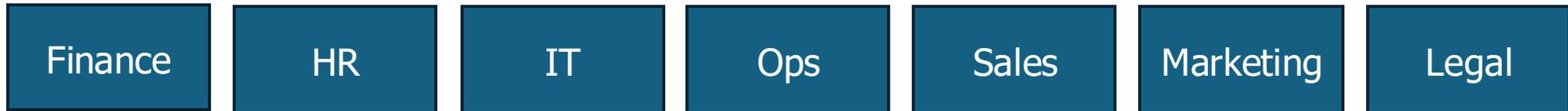
AI Strategy Dimensions



Vertical AI Strategy



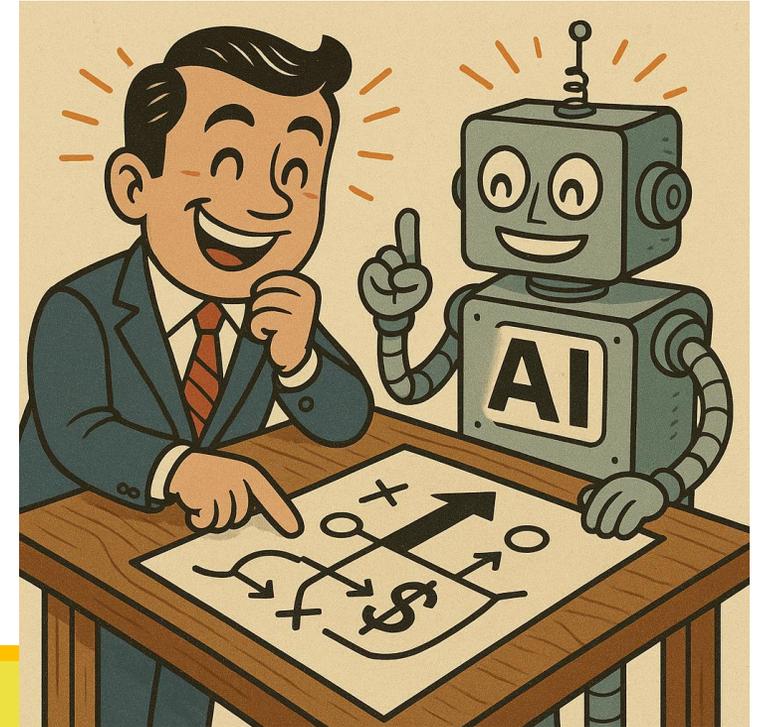
Enterprise AI Assistants (ChatGPT, Copilot)



Horizontal AI Strategy

AI Strategy Dimensions

- Wide applicability
- Broad gains
- Faster ROI



Enterprise AI Assistants (ChatGPT, Copilot)

Finance

HR

IT

Ops

Sales

Marketing

Legal

Vertical AI Strategy

Horizontal AI Strategy

Our 2025 AI Strategy

Aggressively adopt AI assistants to drive efficiencies across the organization.

Maintain a judicious focus on governance and accountability in data protection for both our organization and our clients.

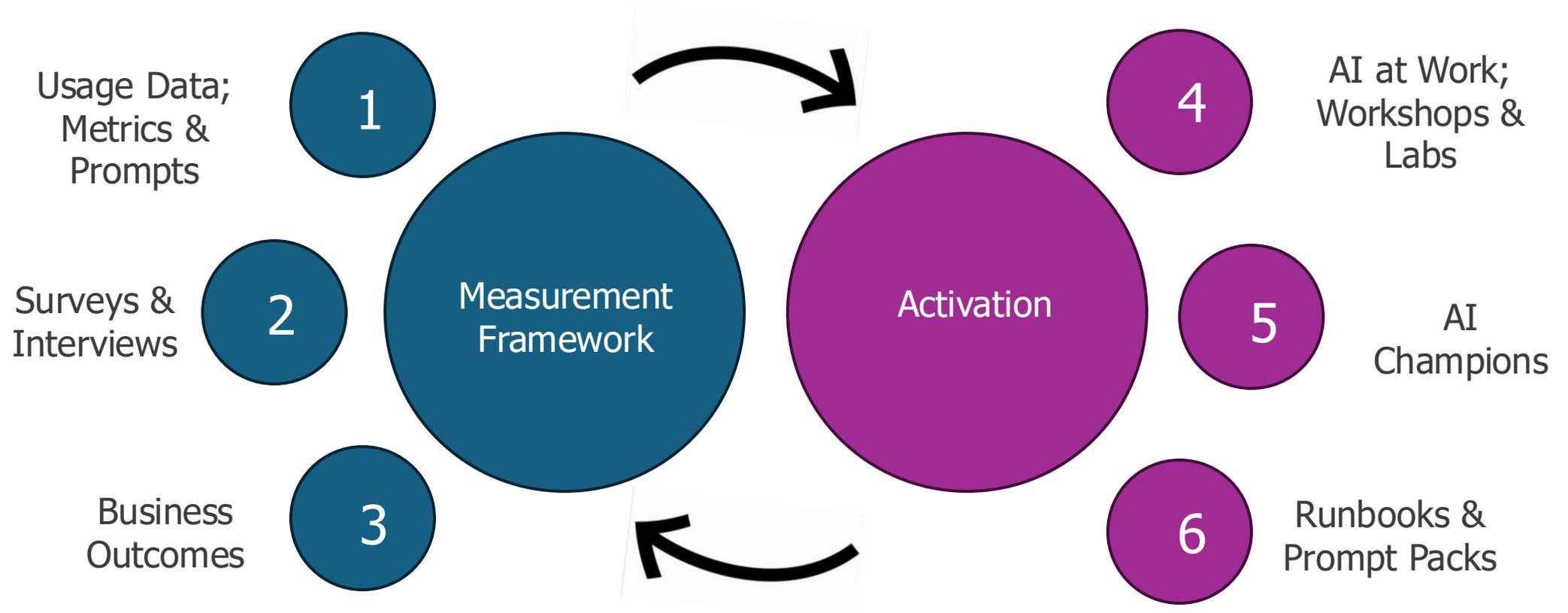
Establish metrics, training programs and supporting processes, ensuring tangible improvements over time.

**Waiting for
productivity
gains.**

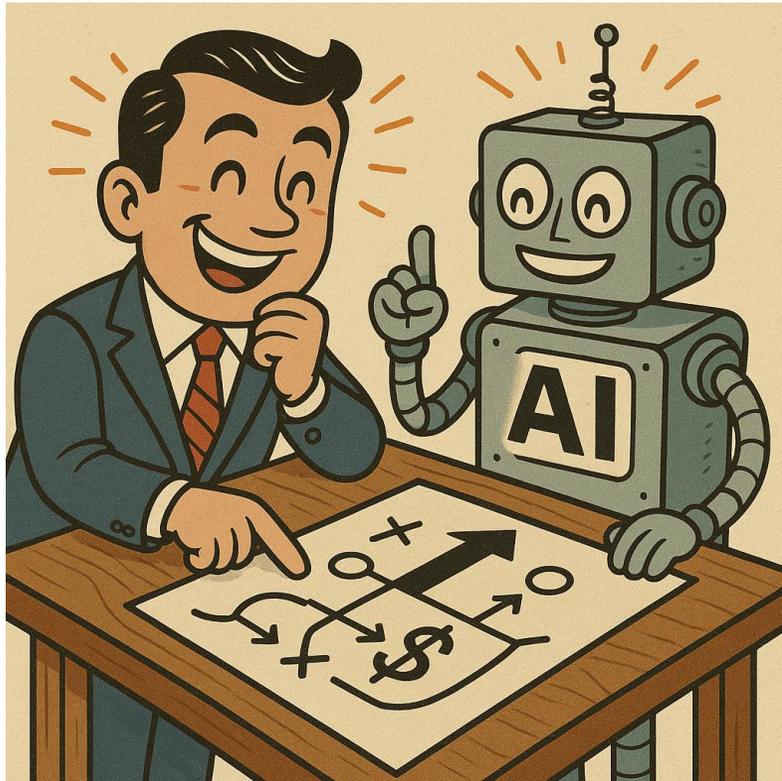


Enabling the Team

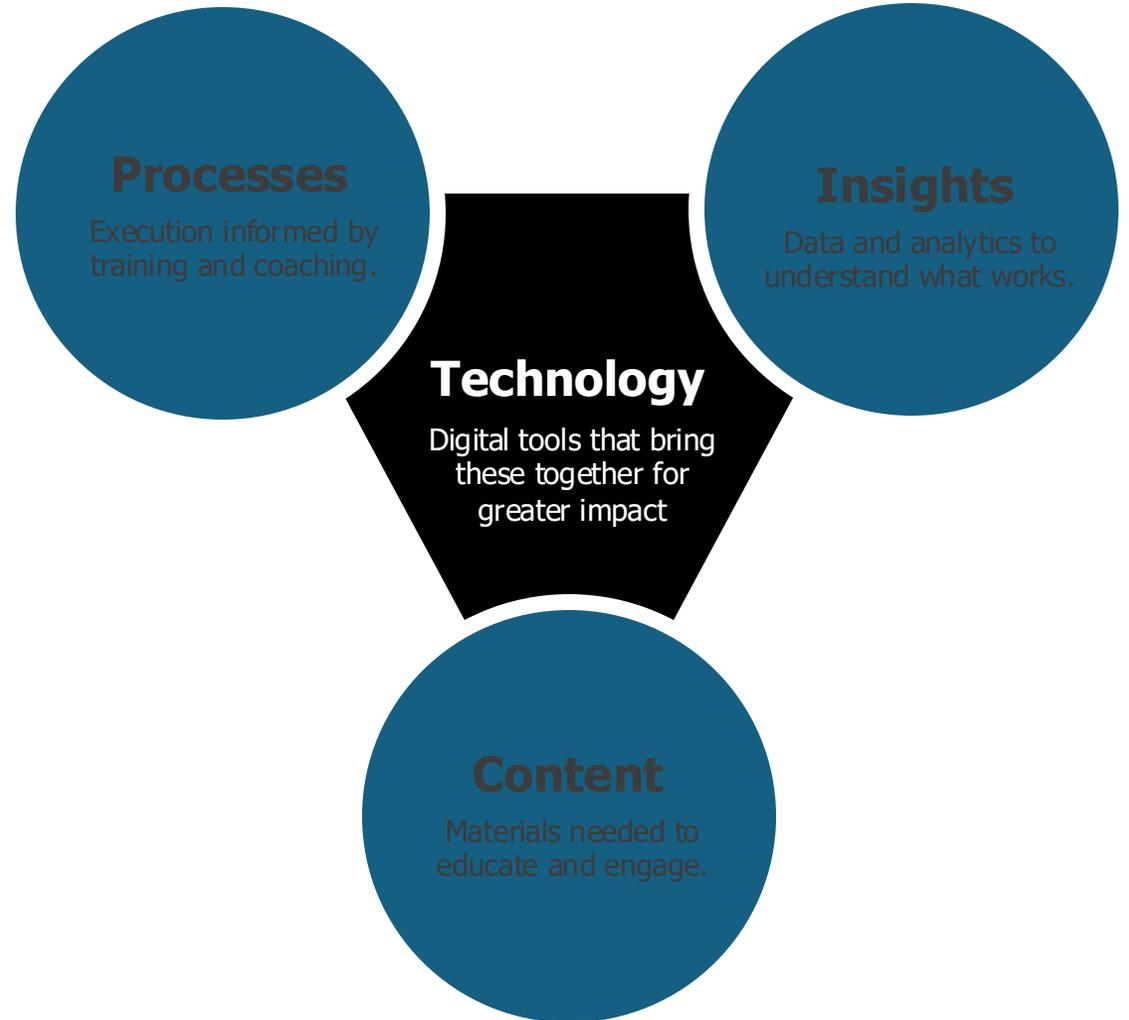
Driving adoption; Enablement is a feedback loop.



So what...

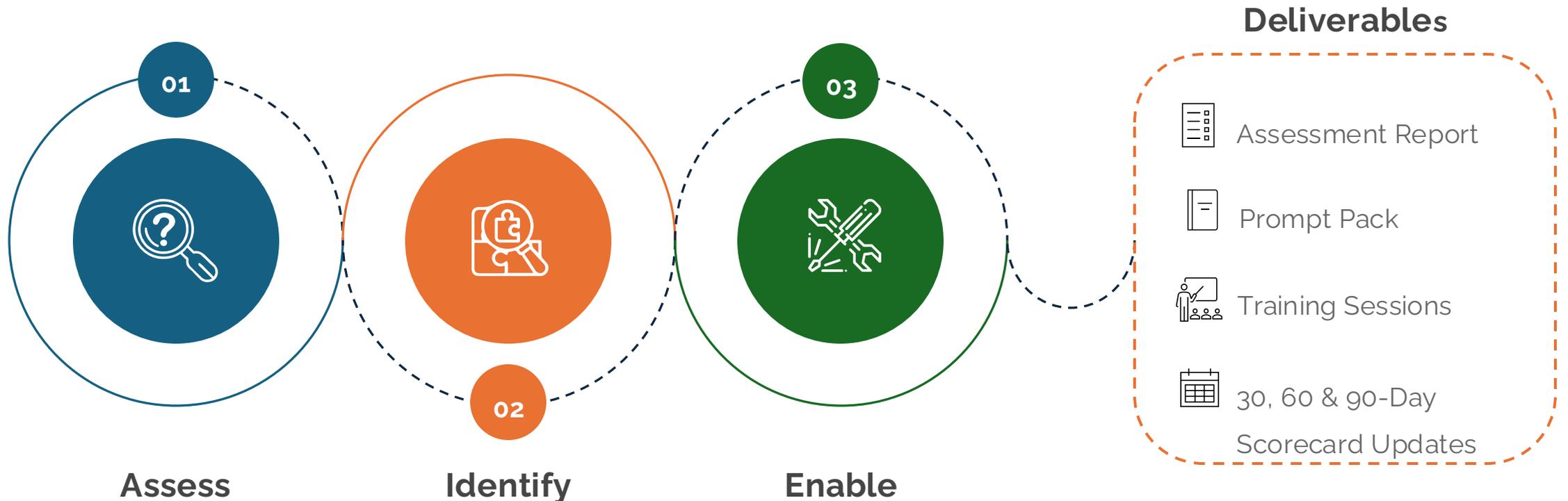


Horizontal AI Strategy



New Offering: AI Assistant Enablement

Focused program that evaluates adoption, provides training, documents governance, and reports performance vs best practices.



Better Together: Combining LLMs and Traditional ML

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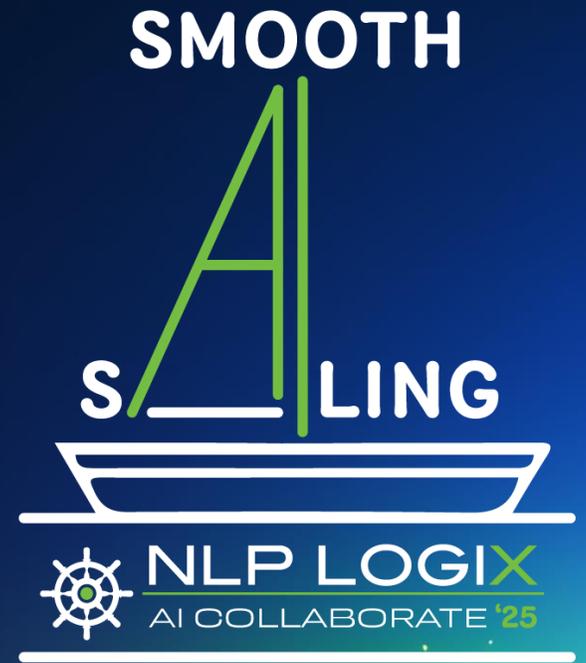
Presenters



BEN WEBSTER
VP of AI Solutions



KATIE BAKEWELL
VP of AI Strategy



Traditional Machine Learning

2013

Models based on statistical foundations bring value by predicting the likelihood of events

Problem: “Will this customer return to purchase again?”



Computer Vision Revolution

2015

Deep Learning Revolutionizes our ability to analyze images and videos

Problem: "Hot Dog. Not Hot Dog"



Enter Transformers

2017

Googles paper "Attention Is All You Need" introduces the Transformer architecture

Problem: "Is that comment sarcastic?"



Large Language Models Debuts

2022

OpenAI released ChatGPT and the world changed! LLMs at everyone's fingertips.

Problem: "Summarize this document"



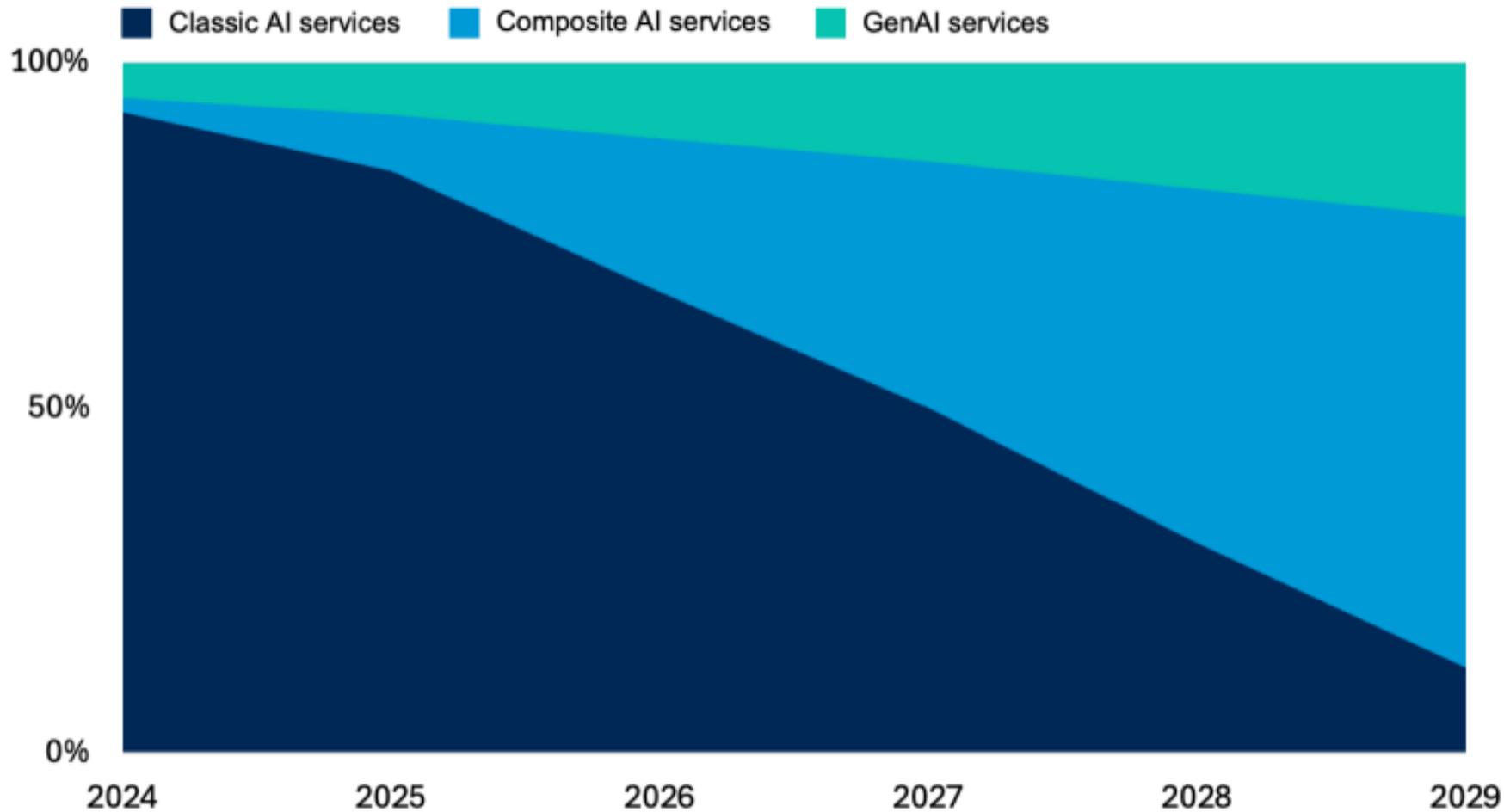
Agentic AI Take Over

2024

Ok but what if ChatGPT could **ACT**?

Problem: "Research this topic and create a plan"

Share of Spending



GenAI is a component of 85% of spending

Classic AI is a component of 80% of the spending

Composite AI integrates generative AI capabilities with “connectionist” AI methods like machine learning and deep learning, or “symbolic” approaches such as rule-based reasoning, logic, graph analytics and optimization techniques.

The goal is to create AI solutions that can both **learn and generalize**, enabling more adaptable solutions.

- Gartner

Classic AI

Forecasting

Tabular Predictive Models

Use Case Specific Predictions

Well Calibrated Probabilities

**Business Logic (Decision
Trees)**

Image Classification

RPA

OCR

GenAI

Brainstorming

Quick Prototypes

Translation

Image Generation

**Predictions without
Structured Data**

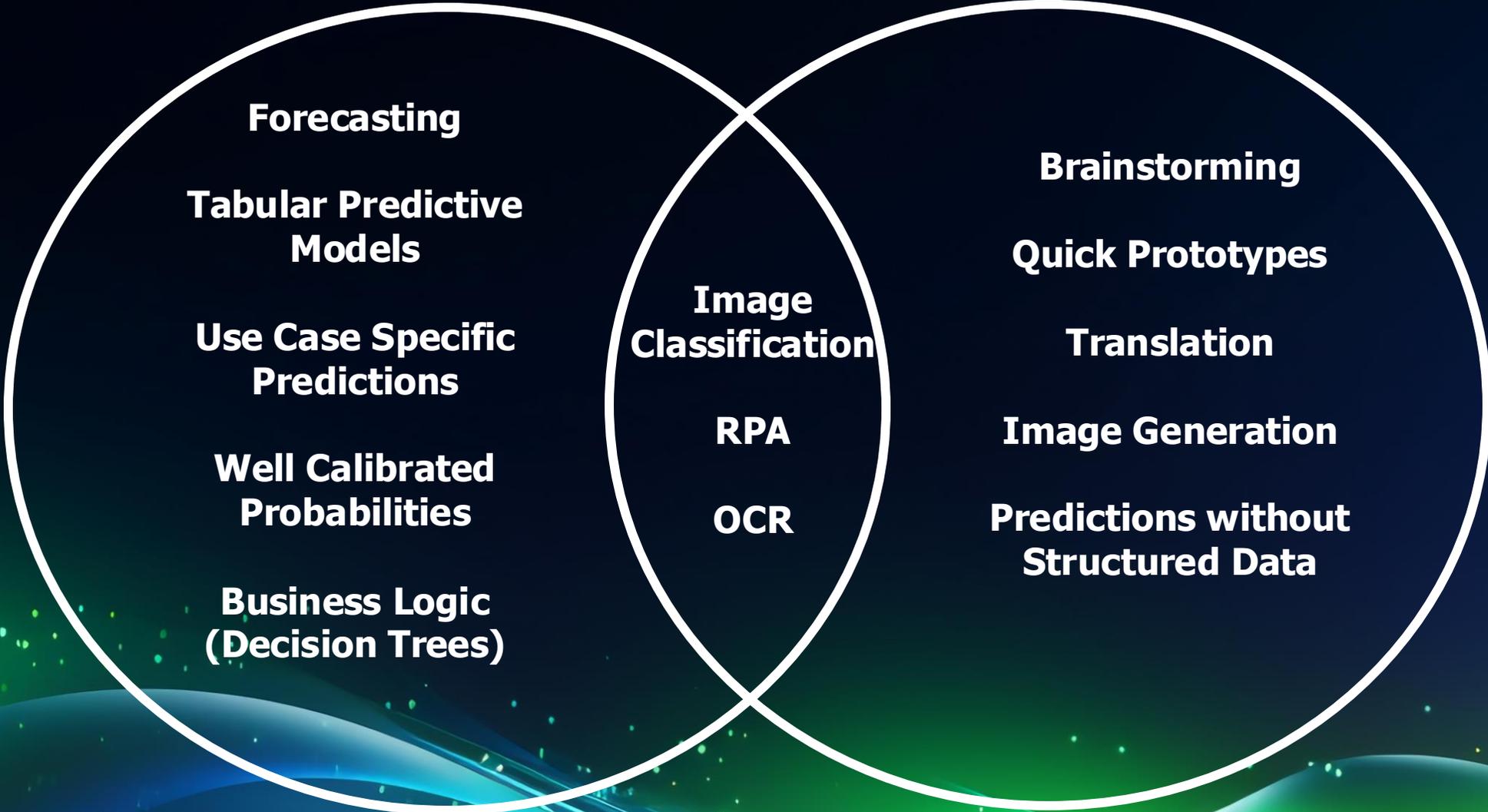
Image Classification

RPA

OCR

Classic AI

GenAI



GenAI First with **ML** as Needed

Can you help me plan a trip?



For sure! Where would you like to go?

I would like to go somewhere where there is a beach, a spa, and family friendly fun



Who is going to be joining you on the trip? Are Victor and Brayden the kids?

Yes



Traditional
Filtering

Recommendation
Engine

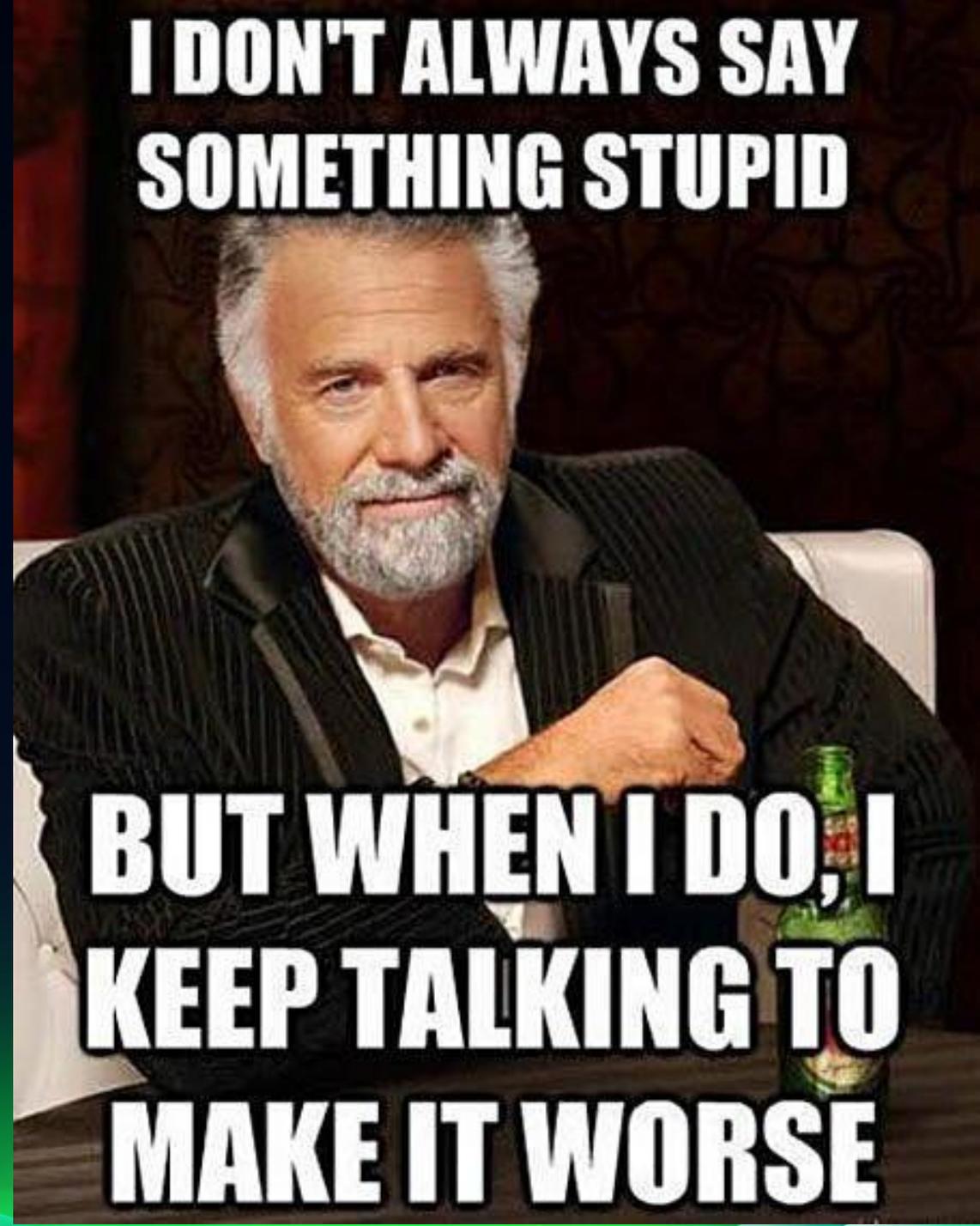
What's NEXT - Technology

- Modular Solution Architecture
- Match the Solution to the Team that will Support it (internal and external) and upskill as needed
- Monitor costs and understand which conditions would make alternative technologies more appropriate
- Have a data driven way of making decisions which removes bias and preferences

**What's
NEXT**

—

**Solving harder
problems!**

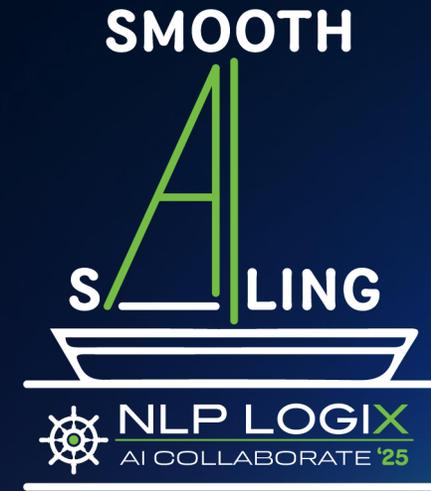


**I DON'T ALWAYS SAY
SOMETHING STUPID**

**BUT WHEN I DO, I
KEEP TALKING TO
MAKE IT WORSE**

Wiggle AI:

**AI that sees
sooner**



Presenters



Jason Peoples

Mary Free Bed Rehabilitation Hospital

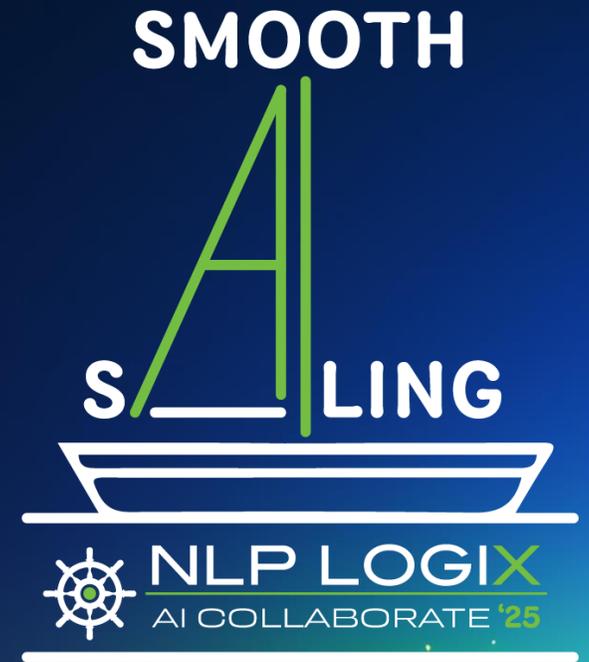
Director of Technology & Innovation



Eddie O'neal

NLP Logix

Client Services Manager



Mary Free Bed Rehabilitation Hospital

AI that sees sooner. For
families, for the future.

The Human Why

Cerebral Palsy affects 2 in every 1000 live births.

Early detection changes everything.

MFB asked: Can AI help clinicians see sooner?



Early Detection = Better Futures

Our Vision: Improve clinical outcomes and quality of life for infants and families.

AI that empowers clinicians, not replaces them.

The Partnership

Mary Free Bed & NLP Logix united under a shared purpose.

Responsible innovation built on trust and compassion.



The Challenge: Early CP Screenings Today

Traditional tools (GMA, MRI) work – but access, time and data are barriers.

Clinicians asked for a scalable risk assessment tool, not a diagnostic device.

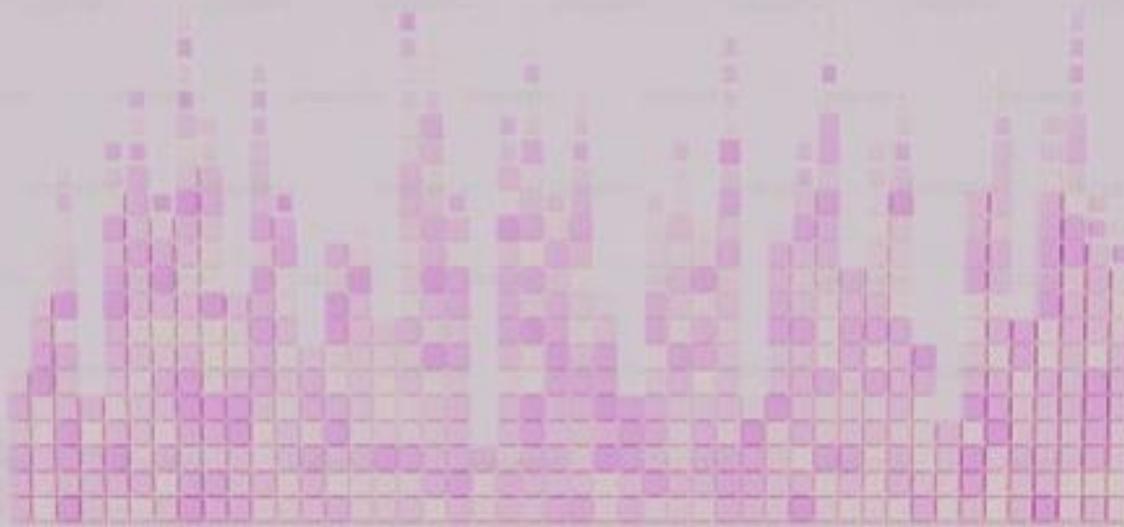


Introducing: WiggleAI

A mobile app connecting clinicians and specialists for early screening.

Empowering providers to refer earlier
and support families faster.





How It Works

AI analyzes infant movement videos:

- Writhing (<4 weeks)
- Fidgety (8-16 weeks)

Detects subtle motion patterns clinicians already recognize.

Hybrid deployment: Cloud + device for performance & privacy

Performance & Proof of Value

Early Model Results:

- Precision: 58%
- **Recall: 85%**
- Accuracy: 52% (initial)
- Clinical validation: 81% accuracy

Strong early signal for ongoing refinement.



Responsible Innovation; AI for Good

Governed under NIST AI RMF &
ISO 42001

HIPPA compliant. Encrypted.
Secure. Transparent.

Safe. Scalable. Responsible



Impact in Practice

Clinicians report improved referral confidence.

Families access therapy earlier.

“This tool doesn’t replace us – it helps us act sooner.”

Beyond CP: The Blueprint for the Future

Extensible AI framework for:

- Stroke rehabilitation
- Neonatal motion monitoring
- Physical therapy analytics

A model for responsible, compassionate
innovation.



AI With Heart

AI that sees sooner.

For families. For the future.

A collaboration of empathy, technology,
and purpose.



AI for Work and Life

SMOOTH

SAILING



NLP LOGIX
AI COLLABORATE '25

Presenters



Dr. Josh Gellers

University of North Florida

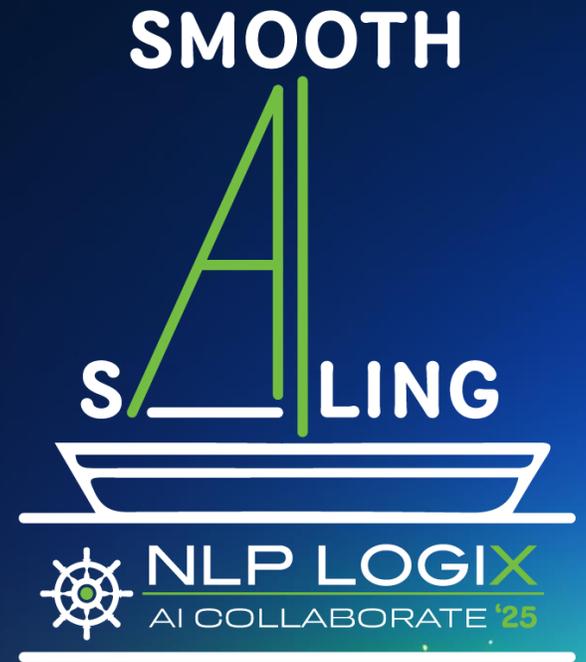
Director, Digital Humanities Institute



Wendy Alexaitis

NLP Logix

Vice President Marketing



UNF's AI for Work and Life Certificate

Josh Gellers, PhD

Inaugural Faculty Fellow for AI

Professor, Political Science



Overview

Motivation

Structure

**Early
Returns**

Q & A

UNIVERSITY *of* NORTH FLORIDA

AI FOR WORK AND LIFE CERTIFICATE

Sponsored by



Motivation

Leadership

Strategic plan

Serving Northeast Florida (and beyond)



Areas of Focus

- Advanced Manufacturing
- Coastal Resilience
- Data Science, Cybersecurity, and Information Technologies
- Healthcare and Health Sciences
- Transportation and Logistics



Structure

- Market analysis
- AI assistance
- Negotiation



ChatGPT >



To design a distinctive and impactful free AI certificate program, it's essential to understand the landscape of existing offerings. Below is a benchmarking analysis of three notable AI certificate programs, highlighting their structures, commonalities, and areas where differentiation is possible.

Benchmarking Analysis of Existing AI Certificate Programs

Google ai certificate

University of North Florida
https://www.unf.edu › ai › worklife-certificate

AI for Work and Life - Registration Still Open!

Registration is open. Be sure to secure your spot! Individuals who complete the course by Wednesday, Dec. 31, 2025, will earn a UNF certificate for FREE ...

Things to know

- Certification Costs
How much do AI certifications cost?
- Best Certification
Best AI certification for beginners
- Certification Process
How to obtain AI certification?
- Difficulty Level
How difficult is AI certification?

Coursera
https://www.coursera.org › courses

Best AI Courses & Certificates Online [2025]

Artificial intelligence courses can help you learn how to build systems that solve problems, recognize patterns, and make decisions using data and algorithms.

University of Maryland
https://www.rhsmith.umd.edu › executive-education › f...

Free Online Certificate in Artificial Intelligence and Career ...

A free online certificate that can aid working professionals transition to new jobs and career opportunities in the private sector and in AI-related ...



Early Returns

30k+ registrants

- 144 countries
- 12k+ companies
- 100k+ views on YouTube

Testimonials:

- “I really enjoyed learning about the different AI tools I can use in my daily life. Great class!”
- “This was transformative for me - AI not a search tool but a thinking tool.”
- Loving the creativity and productivity...Thanks for the spark of inspiration.”



Thank you!
Questions?



Scan here
to keep in
touch!



Scan here to
register for
the course!



Interactive AI for Cognitive Decline: Where Accuracy Meets Speed

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 **NLP LOGIX**
AI COLLABORATE '25

Presenters



Dr. Fabian Consbruck

*Hidden Peaks Psychology &
Intuitive Psychological Assessments*

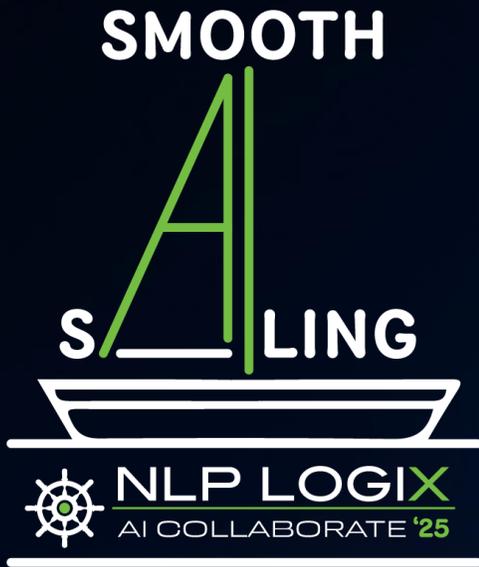
Founder/CEO



Jack Bisher

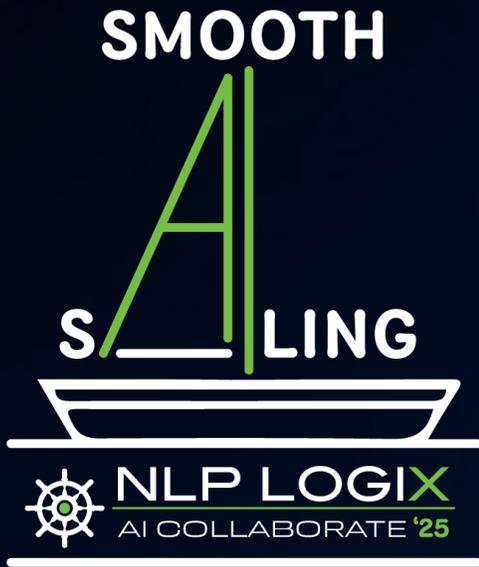
NLP Logix
AI Analyst





The Why

- 1 out of 4 adults believe they have ADHD.
- Alzheimer's has grown 15% in just 3 years.
- TBI referrals have doubled in the past 10 years.
- 50% to 80% of brain impairment cases go undiagnosed.



The Why

Cognitive assessments have an estimated CAGR of 26.2% between 2025 and 2033.

Increased Geriatric and Pediatric population.

5-10

Months

average wait time for adults

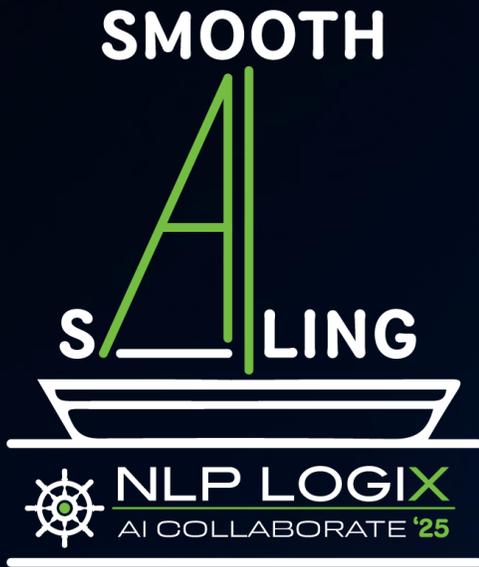
**Dementia Consumes
20% of Medicare's
budget.**

12+

Months

average wait time for children

**ADHD is now the most
frequently billed
diagnosis for children.**



The How

Automation of these tests through the Neuron will allow for significant improvements in the ability to serve more patients in need.

Online

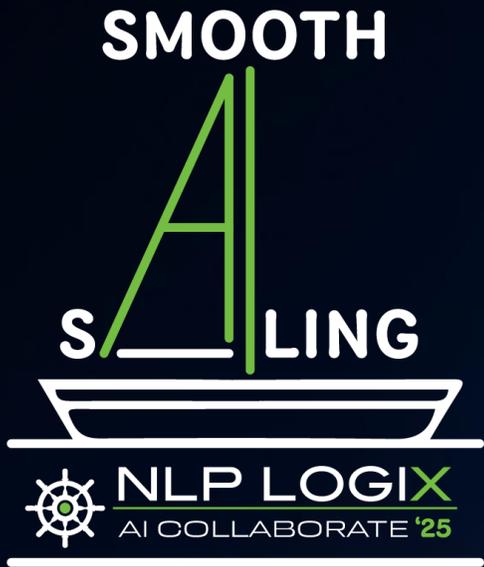
Admin and
Clinician Portal

iPad

Patient Test
Administration

AI

Scoring for
human review



Clock Drawing

VLM

Visual Language
Model



CV

Traditional
Computer Vision

Scoring Rubric:

Is the shape a circle? **(0 or 1)**

Are all of the numbers present? **(0 or 1)**
Contained?

Anchored at 12, 3, 6, 9

Are the hands correct? **(0 or 1)**

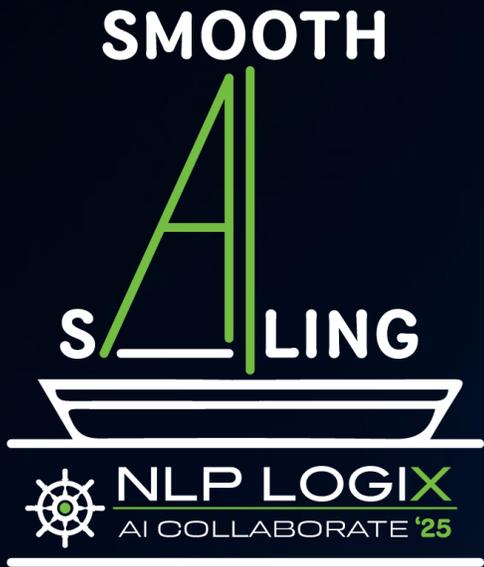
Meet at the center?

Correct time?

Distinction between hour and minutes?

Diagnostic Assist:

How closely does the clock match to one of the pre-drawn diagnostic images of clocks.



Time Estimation

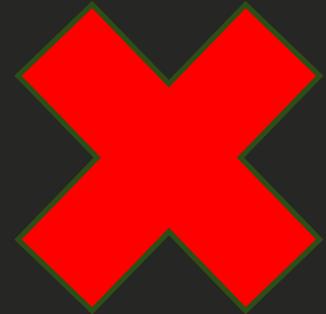
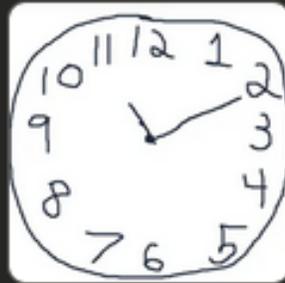
What time is being shown in this clock drawing?

+ ⚙️ 🕒

Sonnet 4.5 ⌵ ⬆️

A hand-drawn clock with a circular face and numbers 1 through 12. The hour hand is positioned between 1 and 2, and the minute hand is pointing at 10. The time shown is 1:50.

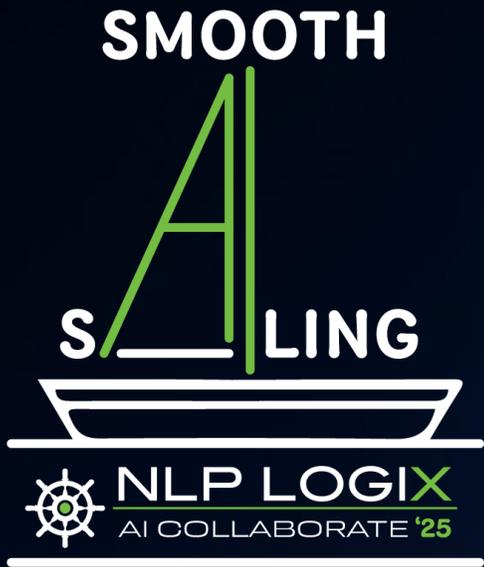
Time Estimation



JB What time is being shown in this clock drawing?

The clock in your drawing shows 4:25 (or twenty-five minutes past four).

The hour hand (the shorter hand) is pointing between the 4 and 5, and the minute hand (the longer hand) is pointing at the 5, which represents 25 minutes past the hour.

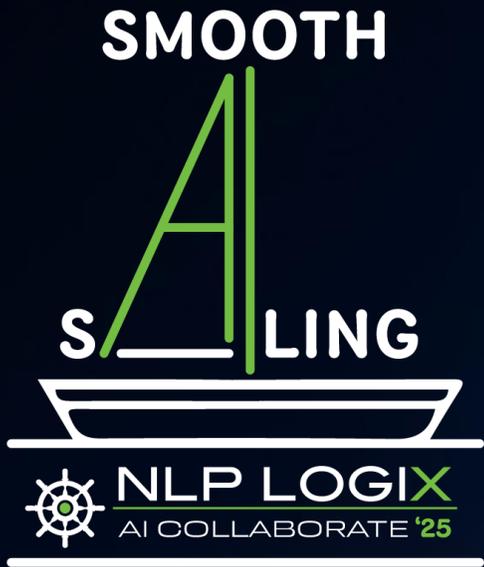


Time Estimation



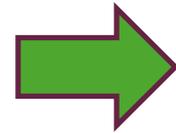
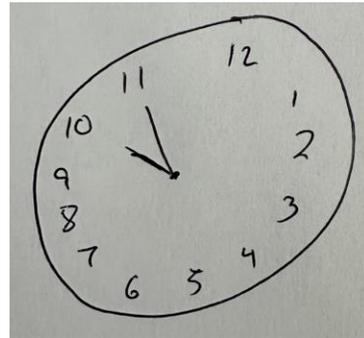
```
1 prediction = predict_time_from_image(  
2 |   time_model, rotation_model, clock_image, round_to_minutes=5  
3 )
```

Predicted Time: 11:10

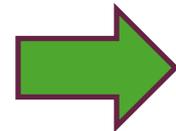
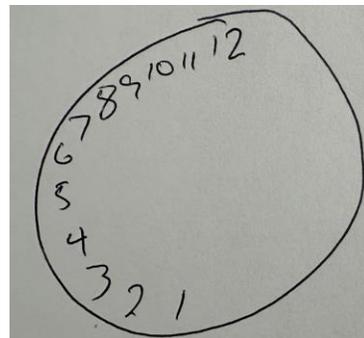


Pattern Matching

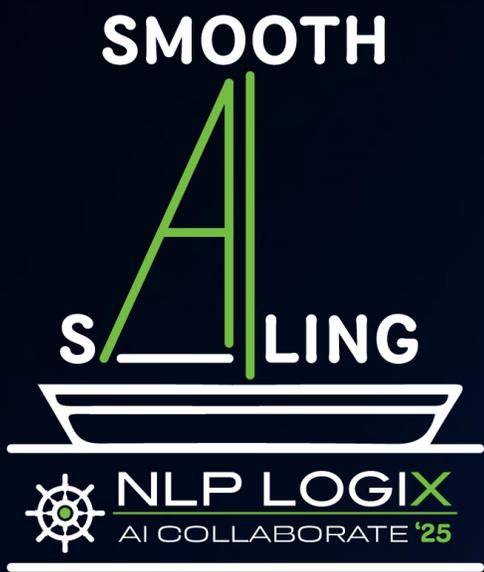
Errors made during the clock-drawing task can reveal underlying cognitive difficulties. The patient's drawing is compared to a reference set of sample clocks, and these comparisons are used to generate a predicted diagnosis.



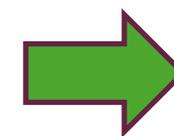
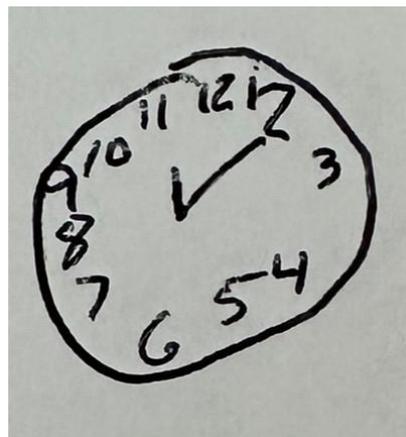
Alzheimer's



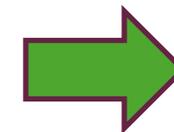
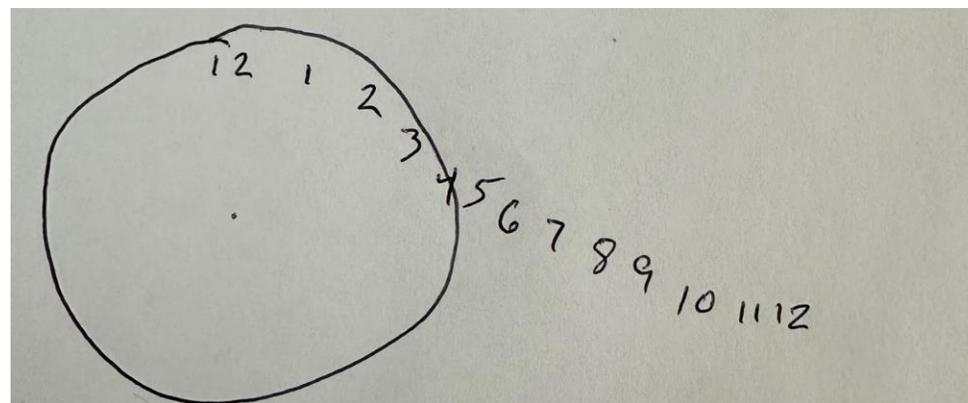
Left Hemisphere Stroke



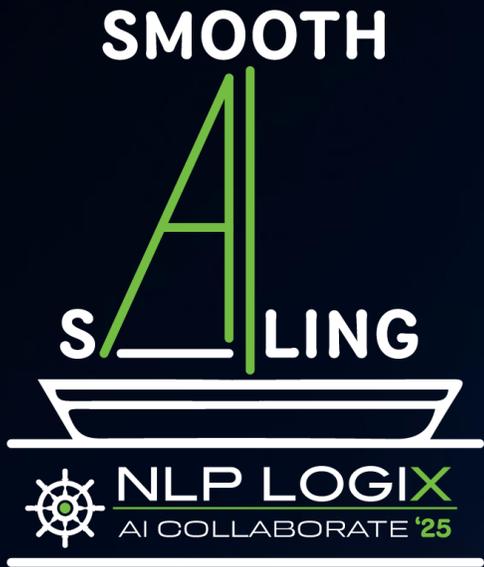
Pattern Matching



Micrographia

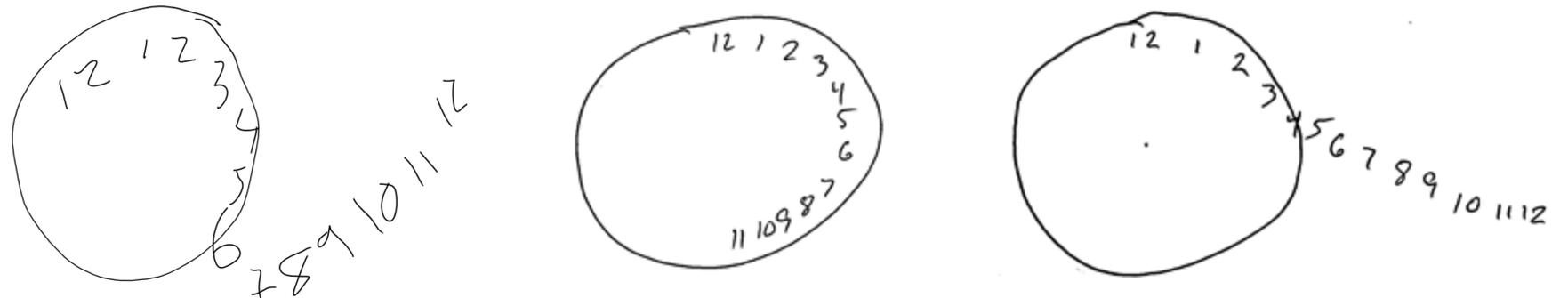


Parkinsons



Pattern Matching

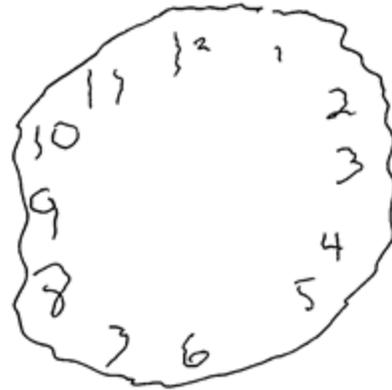
Clock Drawing - Diagnostic



The clock shown above (left) was compared to a multitude of clocks associated with specific values. The two clocks with a sufficient similarity score are the right-sided stroke (center) and Parkinsons (right).

AI Scoring

Clock Drawing - Scoring



SCORECARD

Overall Score: 1 out of 3

Numbers: 0 (incorrect placement)

Shape: 1 (relatively circular)

Hands: 0 (not clearly defined)

Scale: *appropriate and central*



SCORECARD

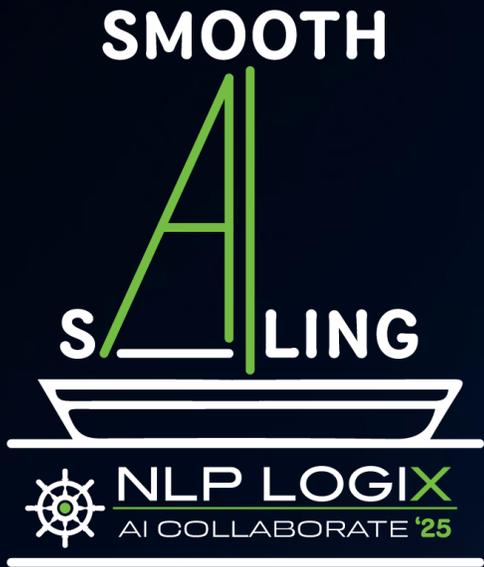
Overall Score: 1 out of 3

Numbers: 0 (incorrect placement)

Shape: 1 (relatively circular)

Hands: 1 (correct)

Scale: *appropriate and central*



Verbal Learning

Transcribe

Visual Language
Model



NLP

Traditional
Computer Vision

Scoring Rubric:

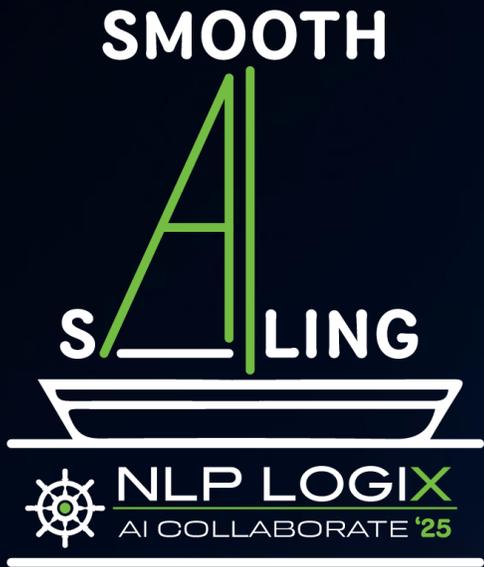
- 1 point per correct word at each iteration.
- Logging includes all words said, including identification of additional words or distractor words.



The model must be able to request repeats for mumbling without creating bias.



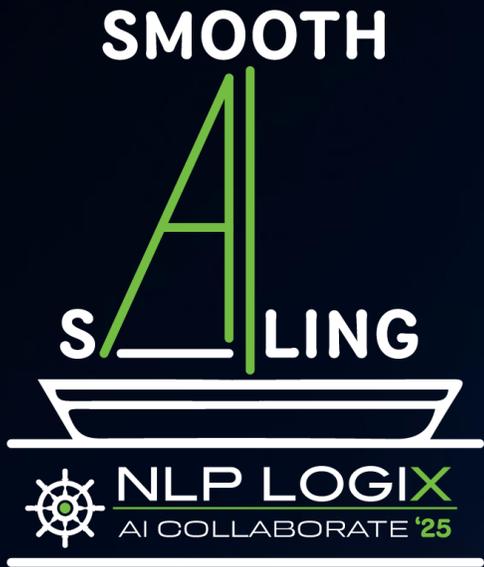
The model must be able to identify each word accurately



AI Scoring

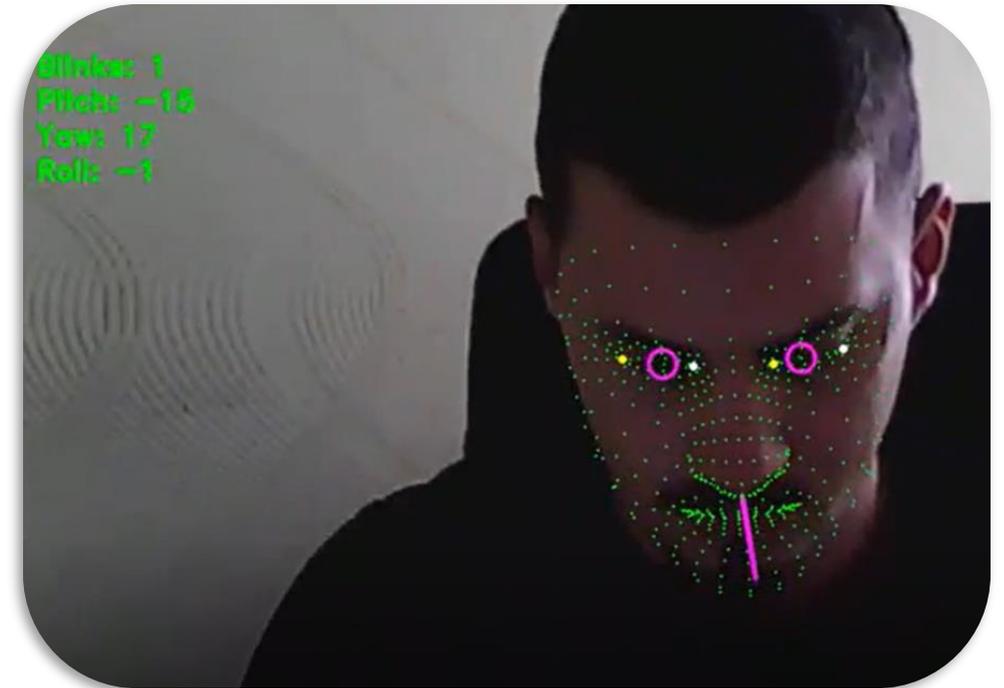
Verbal Learning - Scoring

A recording is transcribed using a multimodal Audio-Text model to evaluate the patient's responses. The model will detect flubs, extra words, and word accuracy.



Future

Biometric Data Incorporation

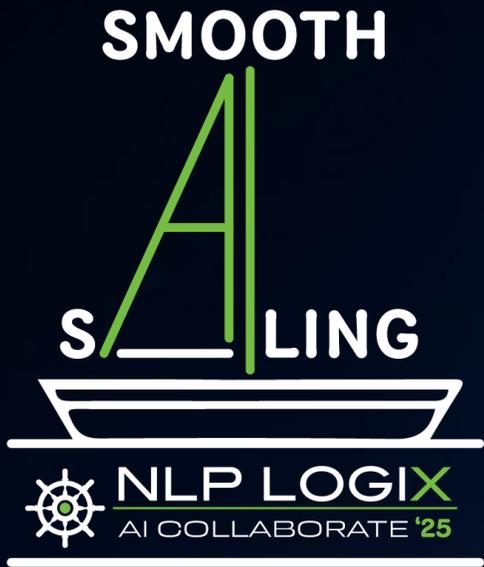


Proof of concept work was reviewed for tracking facial positioning. By incorporating an external camera as a part of the hardware supplied to clinic, future assessments can incorporate:

Amount of
time facing
the screen

Number of
blinks

Facial
expressions of
frustration



What's Next For Intuitive?

Community
Validation

Research
Collaboration

Beta Testing
With
Practices

Thank

You!

