Actionable AI Use Cases for EHS & Sustainability

October 28, 2026

NAEM

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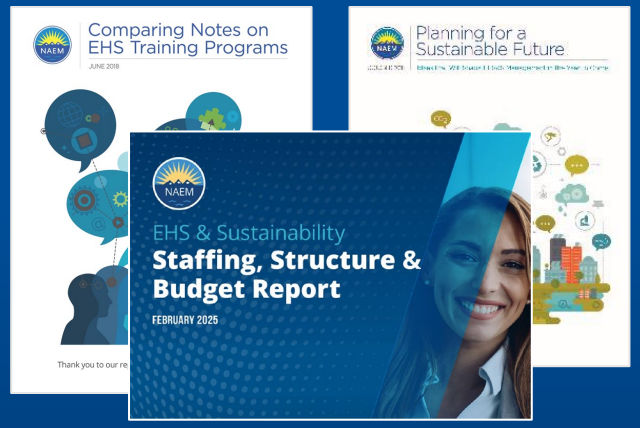
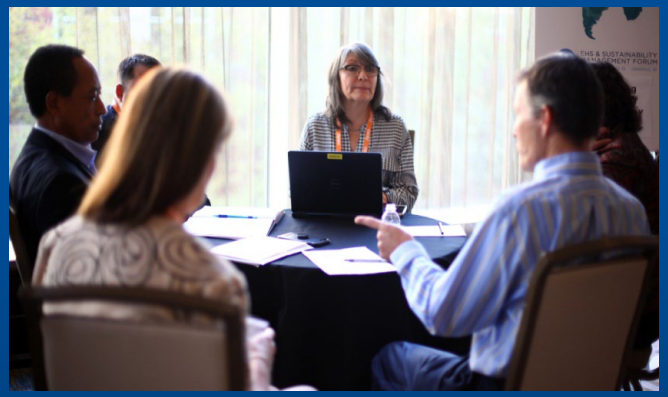
Research Insights



Targeted Networking



Actionable strategies to empower EHS&S leaders to make an impact

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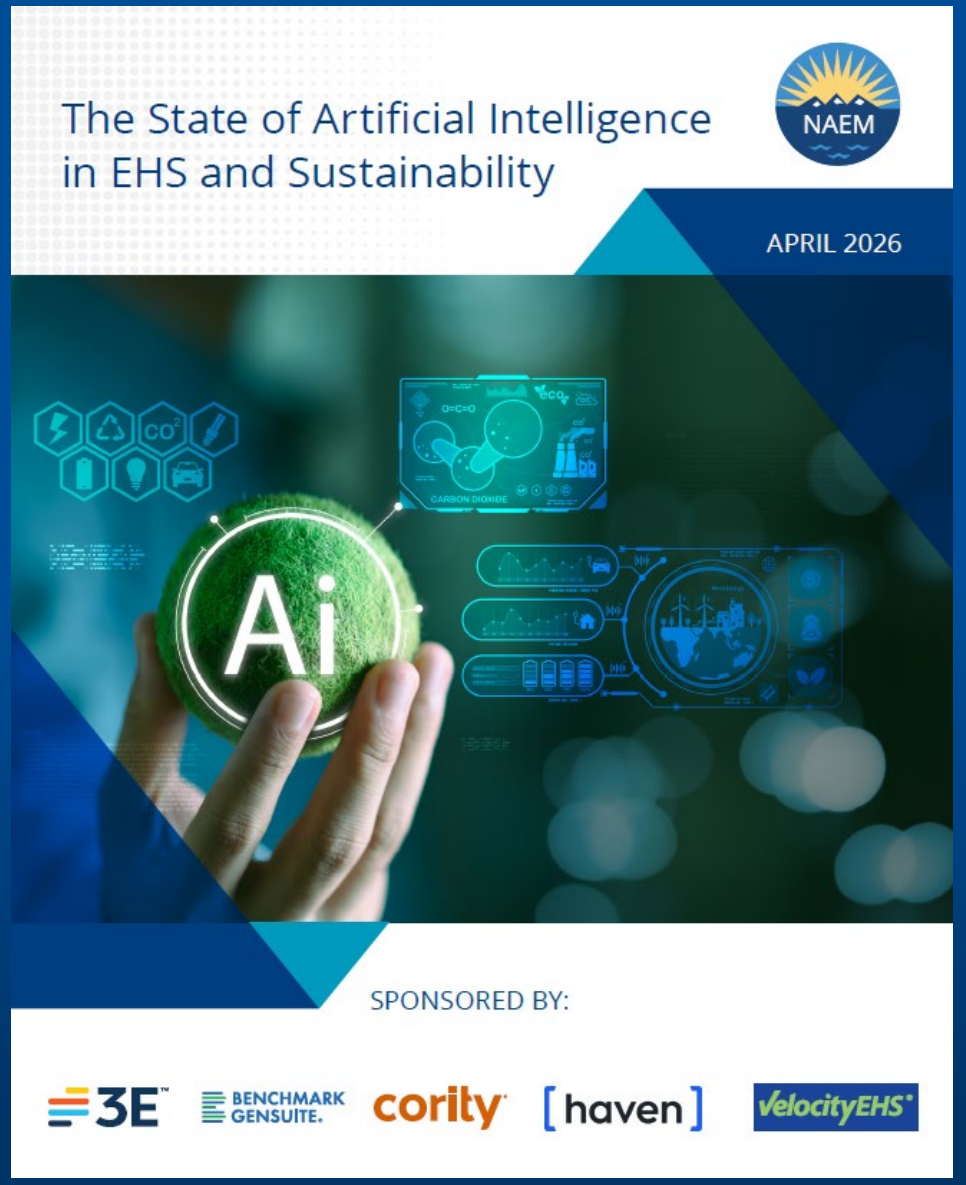
NAEM Connects
EHS & Sustainability Leaders

Today's Agenda

- **Benchmarking the State of AI Adoption in EHS&S**
- **Actionable Use Cases**
- **Looking Ahead: Leading on AI in EHS&S**



Featured Speakers

Donovan Hornsby
Benchmark Gensuite

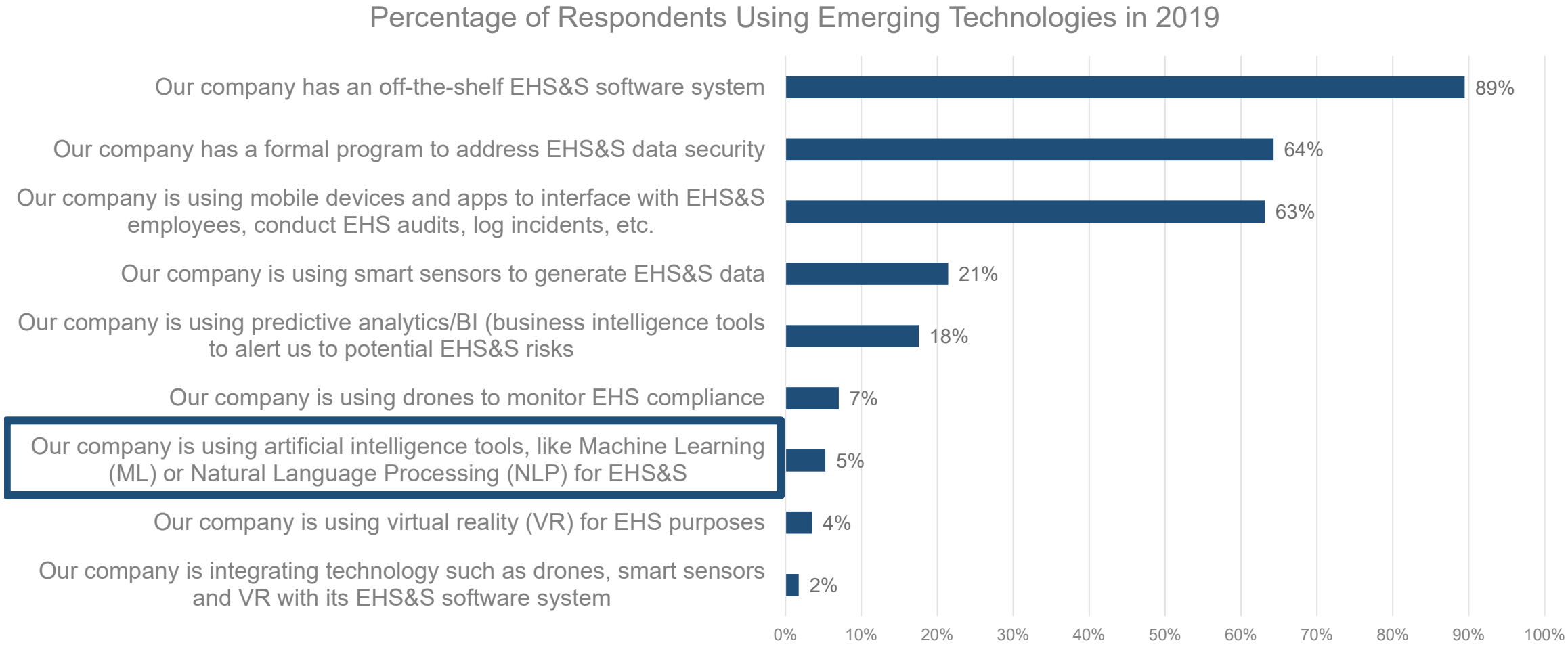
Amanda Smith
Cority

Joe Hanna
Haven Safety AI

Sean Mason
NAEM

Benchmarking the State of AI Adoption

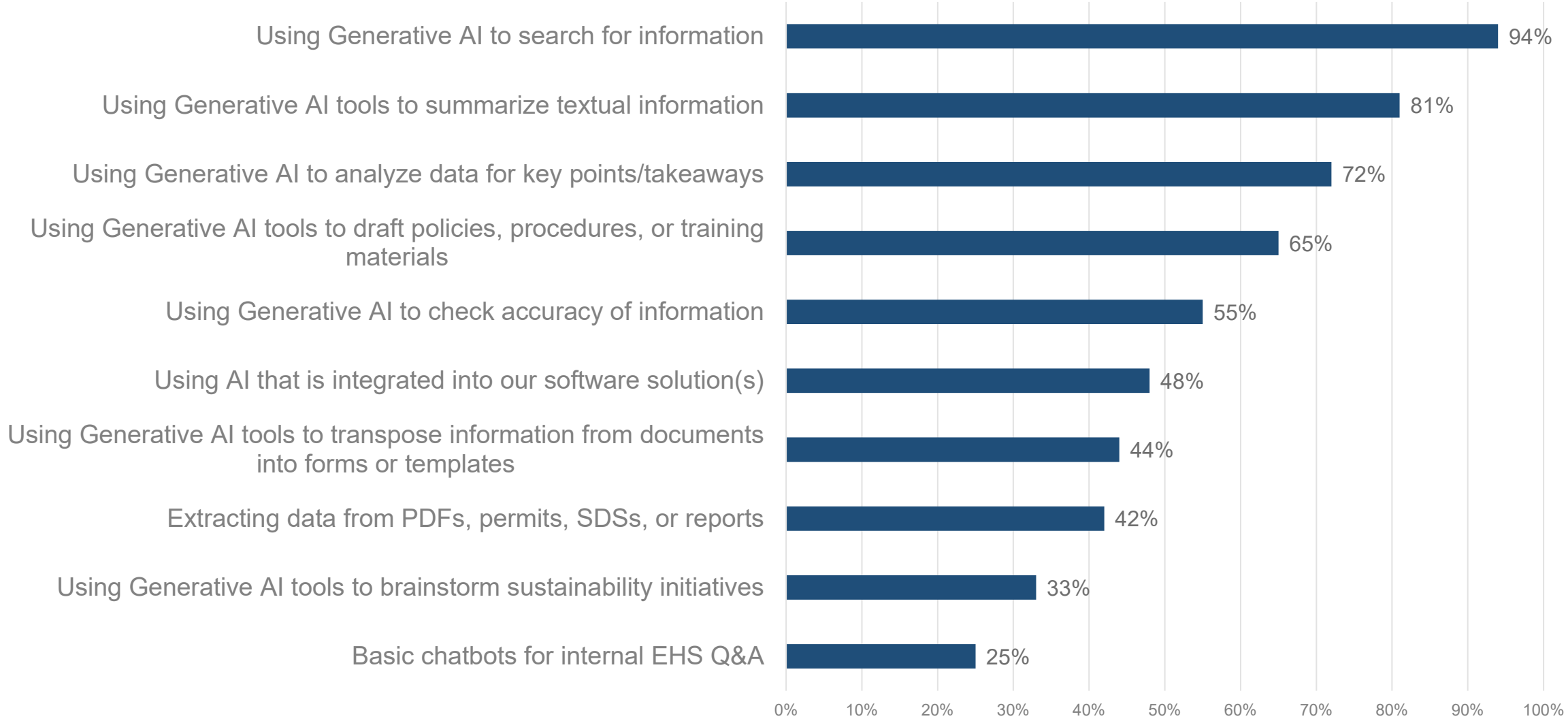
Emerging Technologies in Hindsight



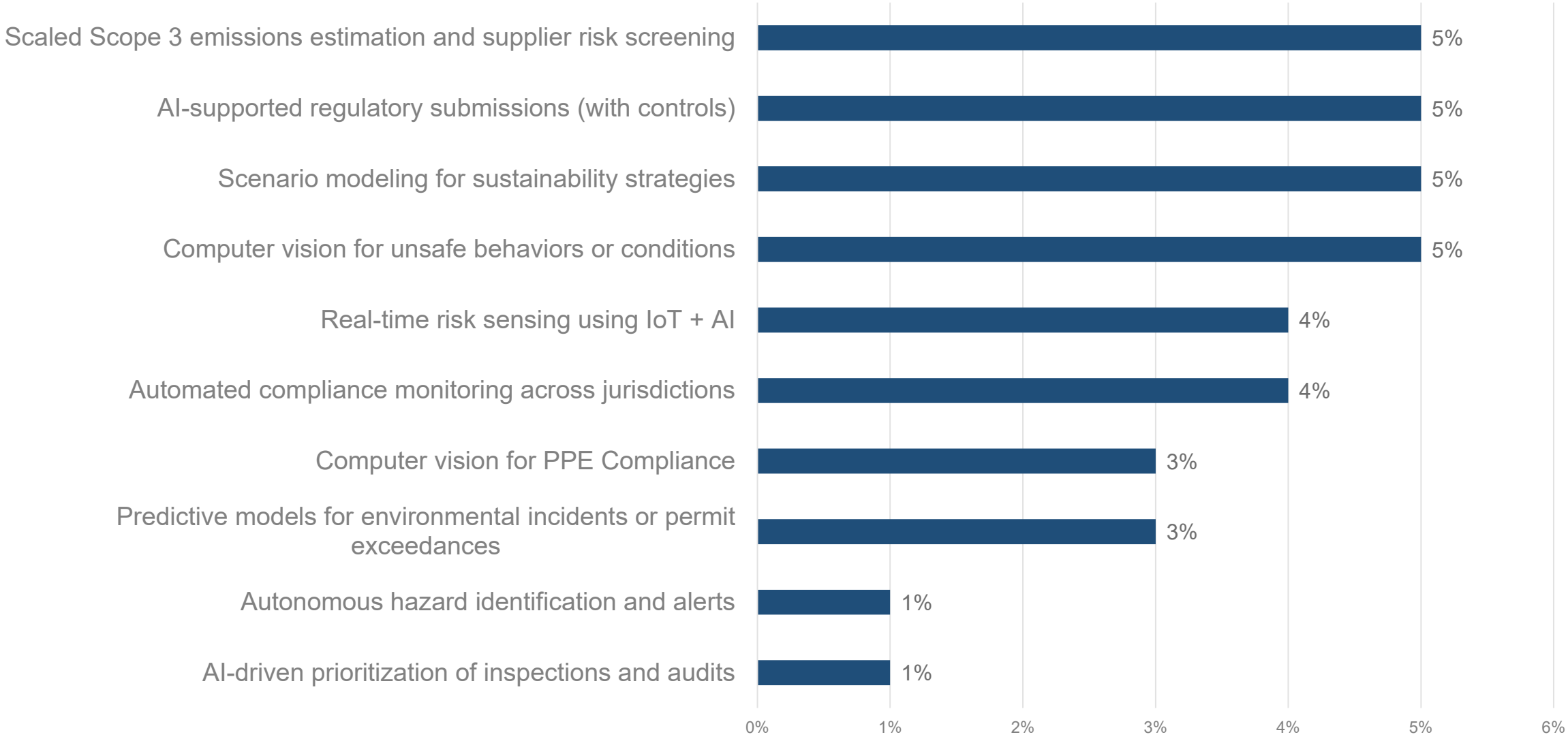
Demographics

- Majority of companies are medium-risk
- Most common company size by annual revenue is $1 – $10 billion
- Majority of respondents have global operations predominantly headquartered in the US

Most Common AI Use Cases



Least Common AI Use Cases

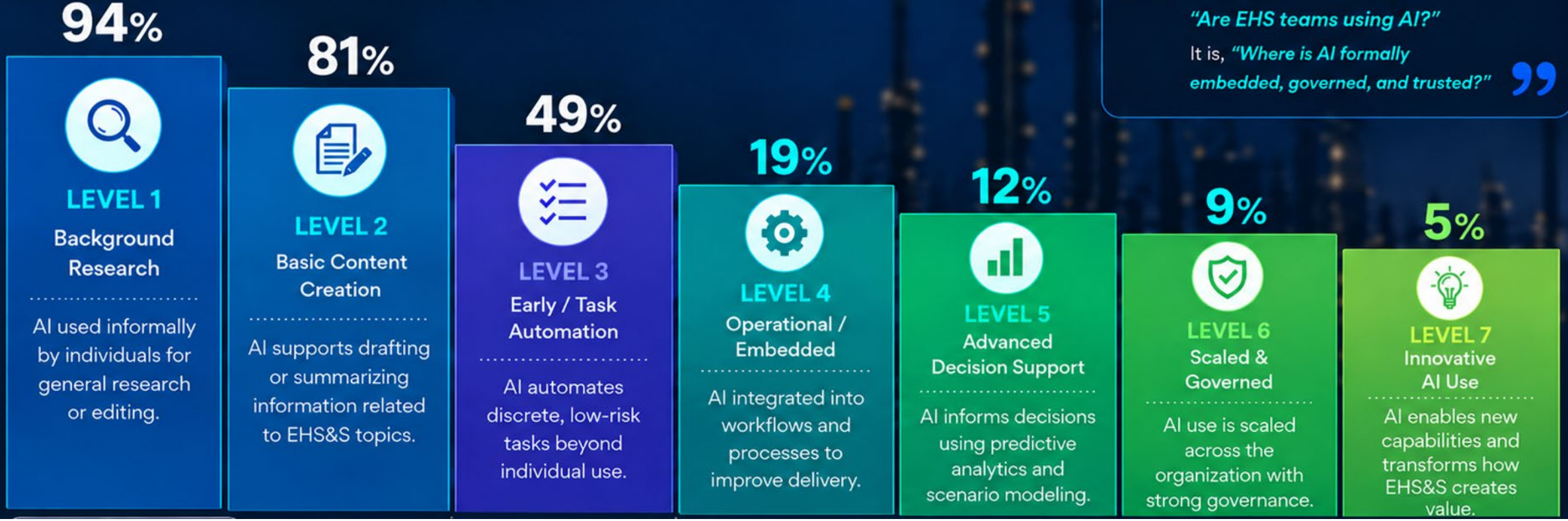


The AI Journey

NAEM RESEARCH (2026)
Survey of hundreds of companies and EHS experts.

PERCENT OF ORGANIZATIONS AT OR ABOVE EACH AI MATURITY LEVEL

> The question is no longer,
> ***"Are EHS teams using AI?"***
> It is, ***"Where is AI formally embedded, governed, and trusted?"***



Actionable Use Cases

Level 1: Background Research

“I have been impressed with how quickly our employees have picked up using Copilot as a tool to assist with everyday tasks.”

“Our Communications contact used our internal AI to double check our Brand Guidelines when drafting the sustainability report, rather than having to read through and find the appropriate section herself.”

“I have been surprised at how quickly and easily Copilot searches through all files, folders, emails, chats, etc. for a specific topic and can summarize the information you are looking for and leave citations for each source it pulled from. This makes it easier to validate the output.”

Level 2: Basic Content Creation

"It has been very helpful summarizing complex regulations and helping to streamline policy and procedure development."

"Use to create summary bullets/notes on decisions and next steps from team meetings."

"Generative AI can generate policy documents in a fraction of the time it used to take."

Level 3: Early / Task Automation

"One outcome that particularly impressed me was the creation of an in-house chat agent trained on our internal standards. It enabled colleagues without an EHS background to ask questions in plain language and quickly retrieve accurate, standards-based answers. This significantly reduced turnaround time, improved consistency, and made our internal guidance far more accessible and user-friendly."

"How quickly and accurately AI was able to pull material accounting information from various documents that showed material content in various forms (tables, pie charts, etc.)."

"We created an AI tool that allows us to create new online safety training courses in about 2 hours per course (historically, this takes weeks), with the resulting quality of the videos, pictures, audio and written content and test quality higher than with traditional course creation methods."

Level 4: Operational / Embedded

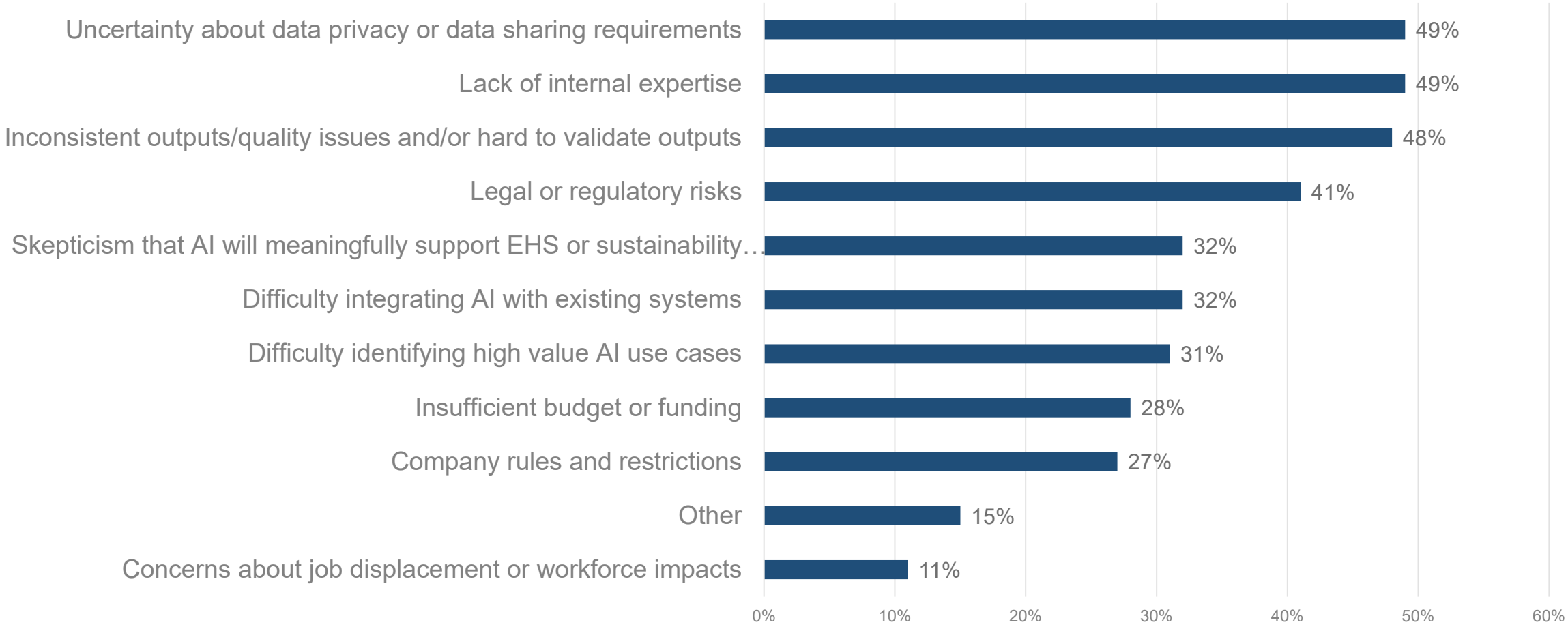
"Our audit team used ChatGPT to look at a photo of a machine in the Netherlands and was able to assess that it had machine guarding issues that could lead to regulatory non compliances. This is now being trialed for use in our audit program. We are trialing cameras in one of our manufacturing facilities to spot risky behaviors. Over time the data we get and the focused training we are conducting has driven down these behaviors by over 50%."

"Developing a generative AI tool to automate a review of some ~2,000 historical documents and compile the collective knowledge into a more accessible format. Through this effort we have decreased the potential for historical knowledge to be lost through employee retirement, digital corruption, inaccurate storage, etc."

Level 5: Advanced Decision Support

“Have successfully used in-house AI models to do ergonomics assessments, identify p-SIFs, do root cause analysis, suggest hazards, controls and corrective actions for JSAs, and to drive internal efficiency in software development, support ticket handling and development of safety training courses.”

Top Pain Points in Adopting Sophisticated AI



Leading on AI:
A Strategic Opportunity in EHS&S

More Learning Events:

- Problem-Solving
- Benchmarking
- Showcasing
- Networking

In-Person and On-Line

Upcoming NAEM Virtual Event

December 9th

Upcoming NAEM Webinars

Building Site-Specific Biodiversity Programs
November 17

Rethinking Behavioral Safety to Drive Operational Efficiency
December 1

Free to NAEM members **Scheduled at 2:00PM ET** **Archived and Accessible on Demand**

Member Drop-Ins

Timely Discussions Facilitated by Peers

November 20th

Free for NAEM members – Thursdays, 4:00PM ET

2027 NAEM In-Person Events

EHSTECH27 | Technology to Drive Operational Excellence

April 13-15, 2027

New Orleans, LA

FORUM27 | EHS & Sustainability Management Forum

October 18-21, 2027

Austin, TX

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Thank you for Attending!

You will receive an email with a link to the recording in 3-4 days

Have a safe, healthy and environmentally friendly day!