

Trends in Emerging Tech for EHS&S

What's Really Happening Inside Companies



Trends in Emerging Tech for EHS&S
What's Really Happening Inside Companies

MARCH 2020



Thank you to our sponsors:



Welcome to NAEM

A professional community where you can get the solutions you need to make an impact

Benchmark

Benchmark your programs via events, online learning, research and executive networks

Learn

Learn tools & techniques to execute your strategy and be inspired by peers

Build

Build a network of peers whose experience can help you solve your challenges

NAEM Connects EHS & Sustainability leaders

120

Corporate
Members

4,200

Individual Members

60

Affiliate Members

Reaching a
community of
Practice

25K+



Delivering Knowledge & Professional Wisdom

Peer Forums



Research Insights



Targeted Networking



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



Thank you to our Report Sponsors!

cority[™]

enablon

 **Gensuite.**

INTELEX

SHE 
Configurable EHS Software

NAEM's Research program is completely independent. The topics are selected and researched exclusively by NAEM staff utilizing both quantitative and qualitative approaches

NAEM is grateful to our Report Sponsors whose financial support makes it possible for the research to be available free of charge to our community of corporate leaders of EHS&S management



Today's Speakers



Kelvin Sanborn
Director, EHS Strategy
& Operations
GE Healthcare



Cathy White
Global EH&S
Project Leader
The DOW Chemical
Company



Callum Lever
Research Analyst
NAEM



Sean Mason
Research Manager
NAEM




Purpose of Research



Trends in Emerging Tech for EHS&S
What's Really Happening Inside Companies
MARCH 2020



Thank you to our sponsors:

cority **enablon**  **Gensuite.**

INTELEX **SHE**
Configurable EHS Software

1

- Benchmark the State of Emerging Technologies

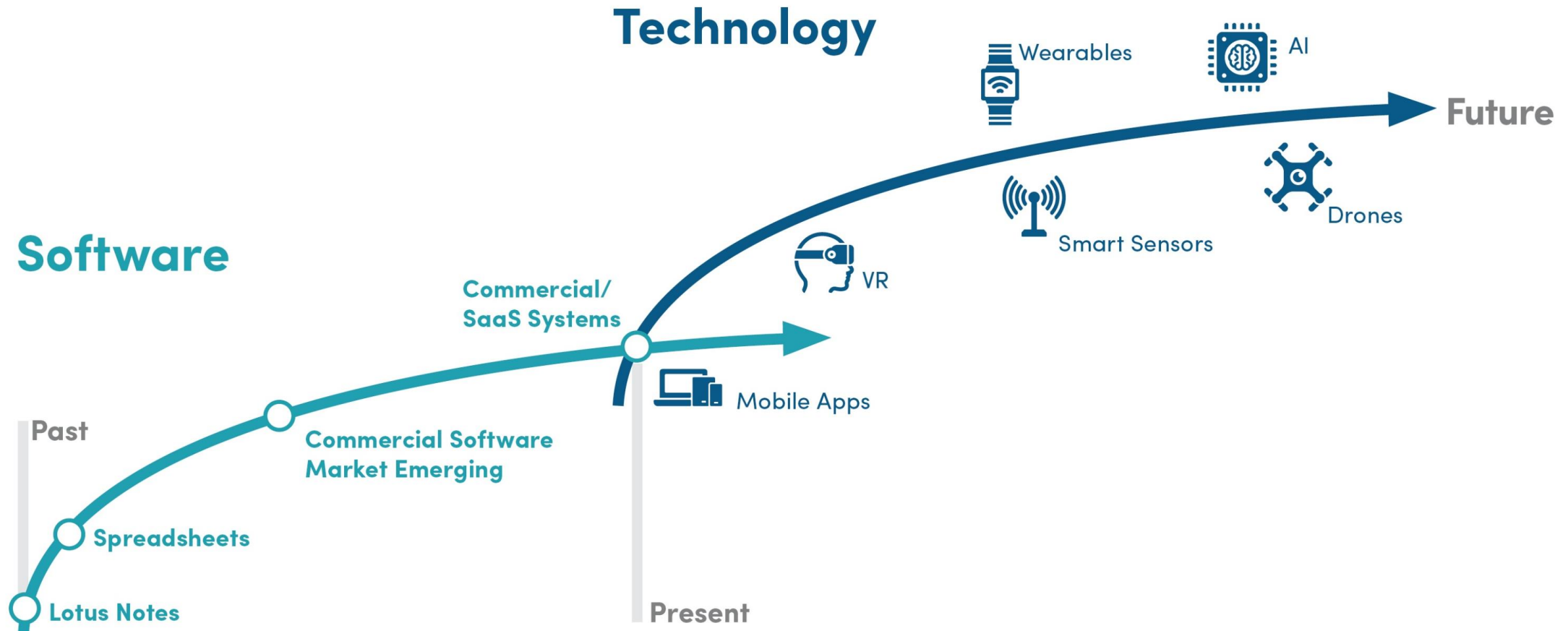


Overview

- Adoption of EHS&S Management Systems, Emerging Technologies, and Artificial Intelligence
- The Goal of Data Analysis
- Drivers for Adopting Emerging Technology
- Challenges and Solutions



Software and Technology Adoption Curves



Key Findings of Research



Mobile apps

the most widely adopted Emerging Technology



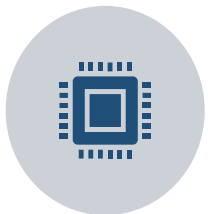
Budgets

for Emerging Tech are increasing



Risk Reduction

was the primary driver of technology adoption



Artificial Intelligence

has huge potential in the EHS field but is in its infancy



Factors Impacting

Budgets were Risk, Size, Maturity, and Industry

Demographics

- 73 EHS&S leaders responded to the survey
- Most respondents are large, manufacturing, US-based with global operations, and held a medium degree of risk.
- 78% of respondents have revenues over \$1 Billion
- 58% of respondents are in manufacturing
- 70% of respondents have medium risk operations
- Non-Manufacturing industries include: Utilities, Mining, Solid Waste/ Recycling, Food & Beverage, and Construction



Emerging Technology and Analytics Tools

- **Data Generating Tools / Technology**

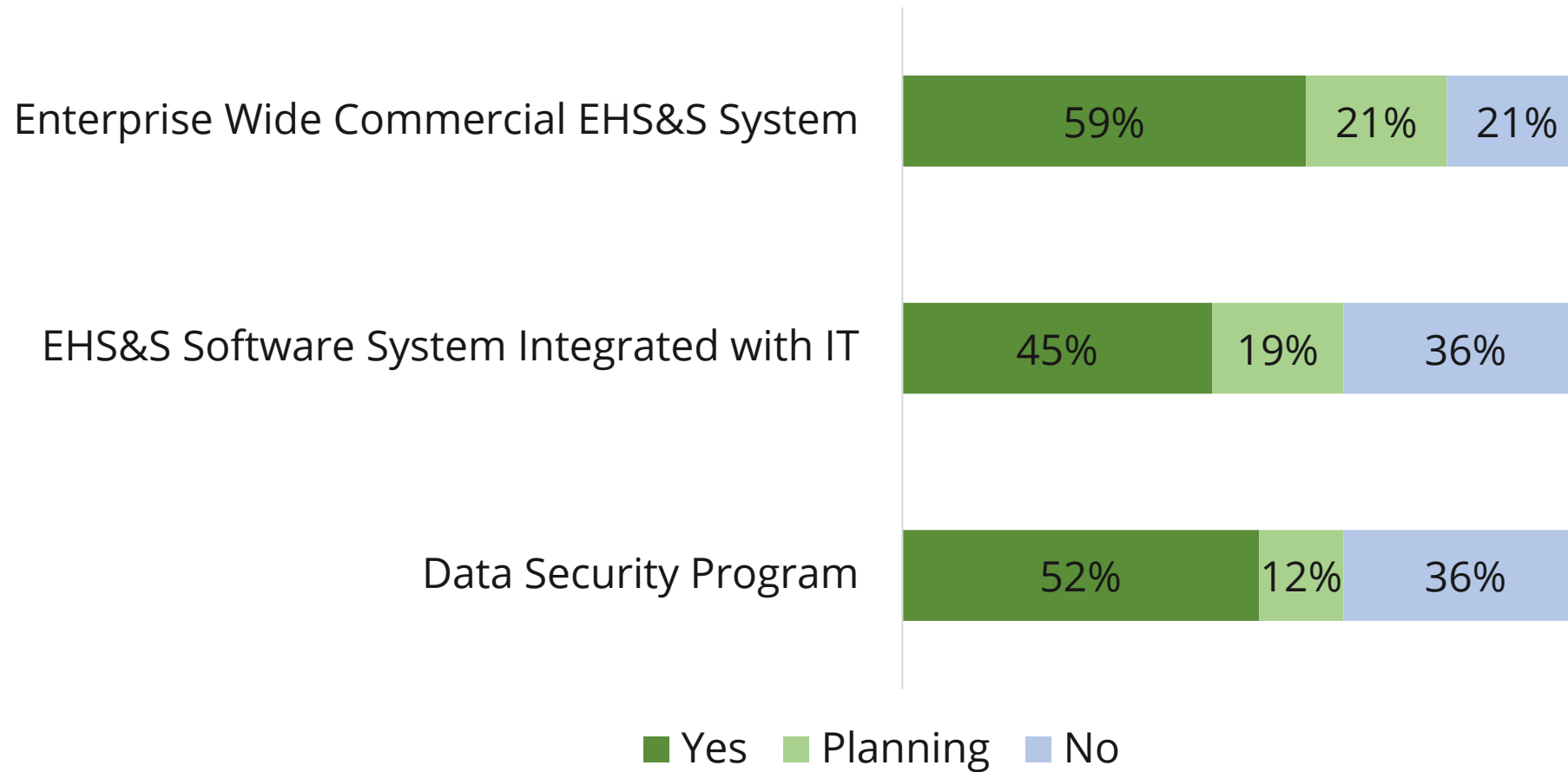
- Mobile apps
- GPS
- Vehicle Data
- Wearables
- Smart Sensors
- Virtual Reality
- Drones

- **Data Analytics Tools**

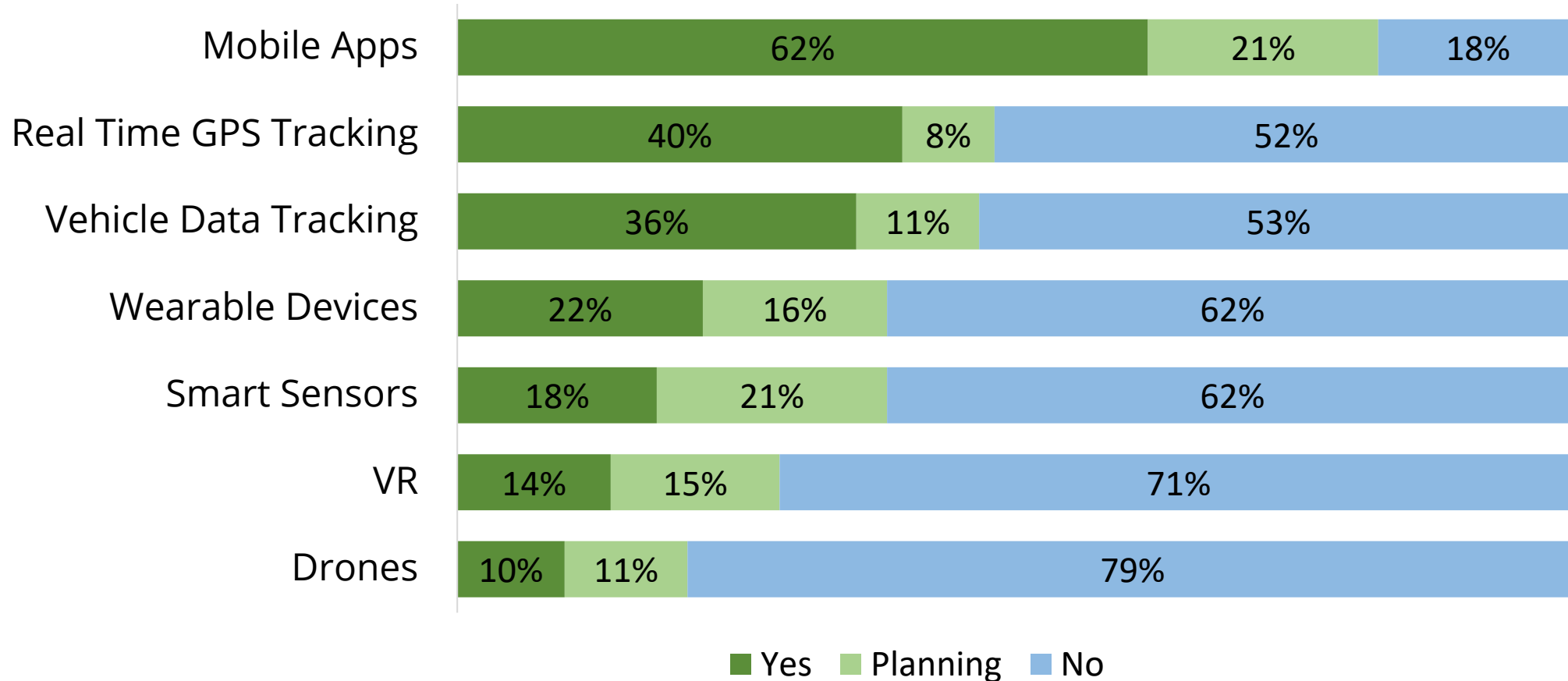
- Artificial Intelligence
 - Natural Language Processing
 - Machine Learning



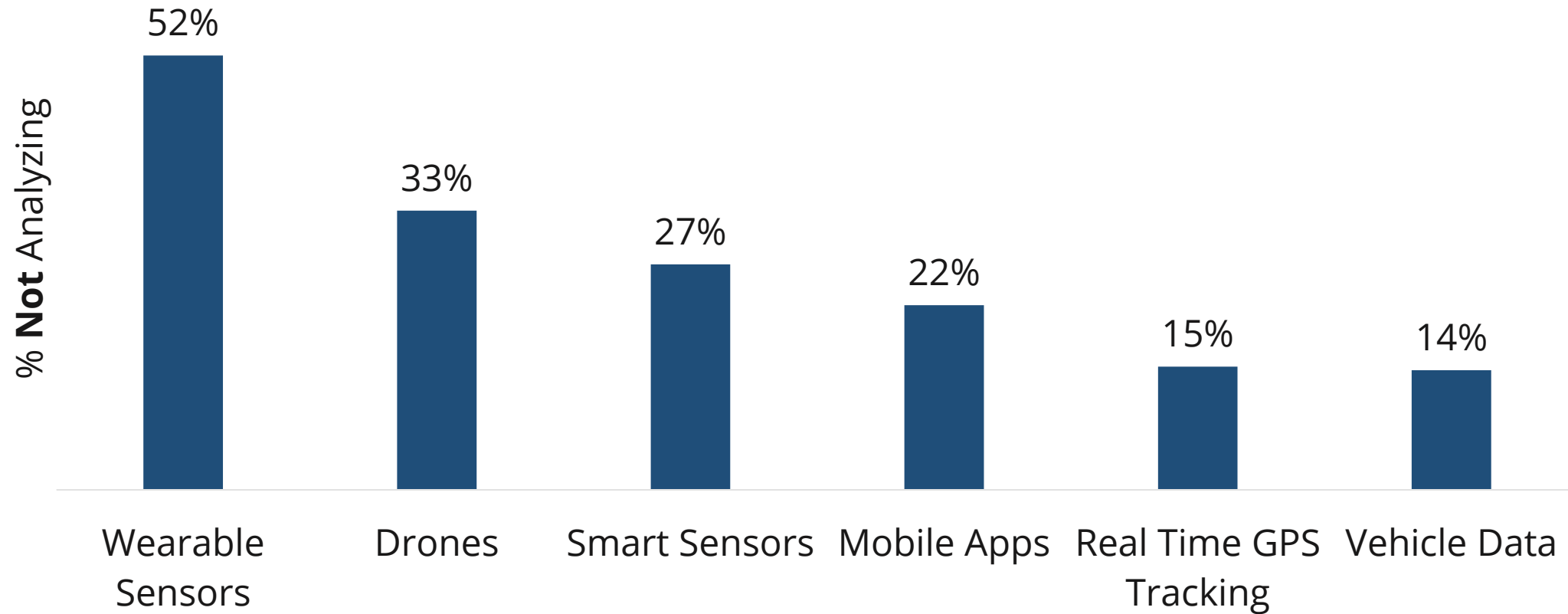
EHS&S Management Systems Adoption



Emerging Technology Adoption



More Data, More Answers?



Predictive Analytics... The Quest Advances?

Descriptive

- Current state
- Basic processes

Predictive

- Forward-looking
- Advanced processes

Prescriptive

- Real-time analysis
- Automated processes



Most Respondents use Data for Descriptive Purposes

Technology	Descriptive	Predictive	Prescriptive
Drones	92%	54%	23%
Mobile Apps	83%	33%	35%
Vehicle Data	73%	23%	47%
Real Time GPS Tracking	70%	23%	37%
Smart Sensors	58%	58%	42%
Wearable Devices	45%	41%	41%



AI for Data Analysis is in its Infancy in EHS

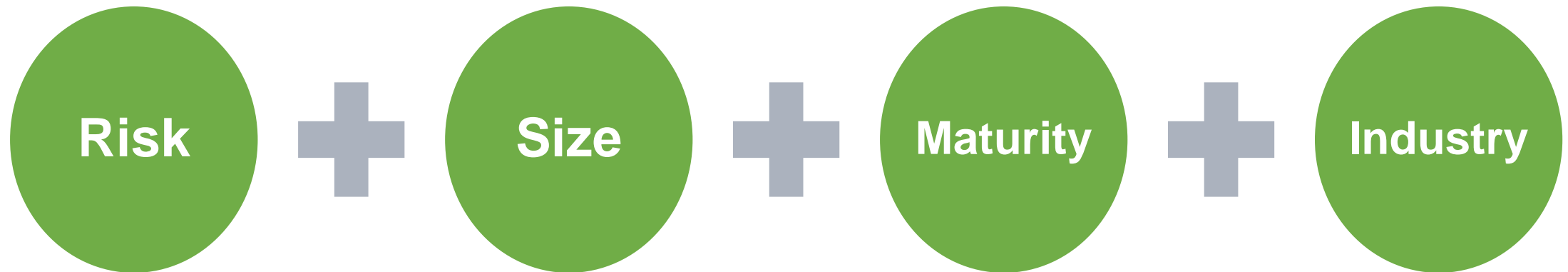
Technology	AI
Smart Sensors	15%
Vehicle Data	9%
Wearable Sensors	7%
Drones	7%
Real Time GPS Tracking	6%
Mobile Apps	5%



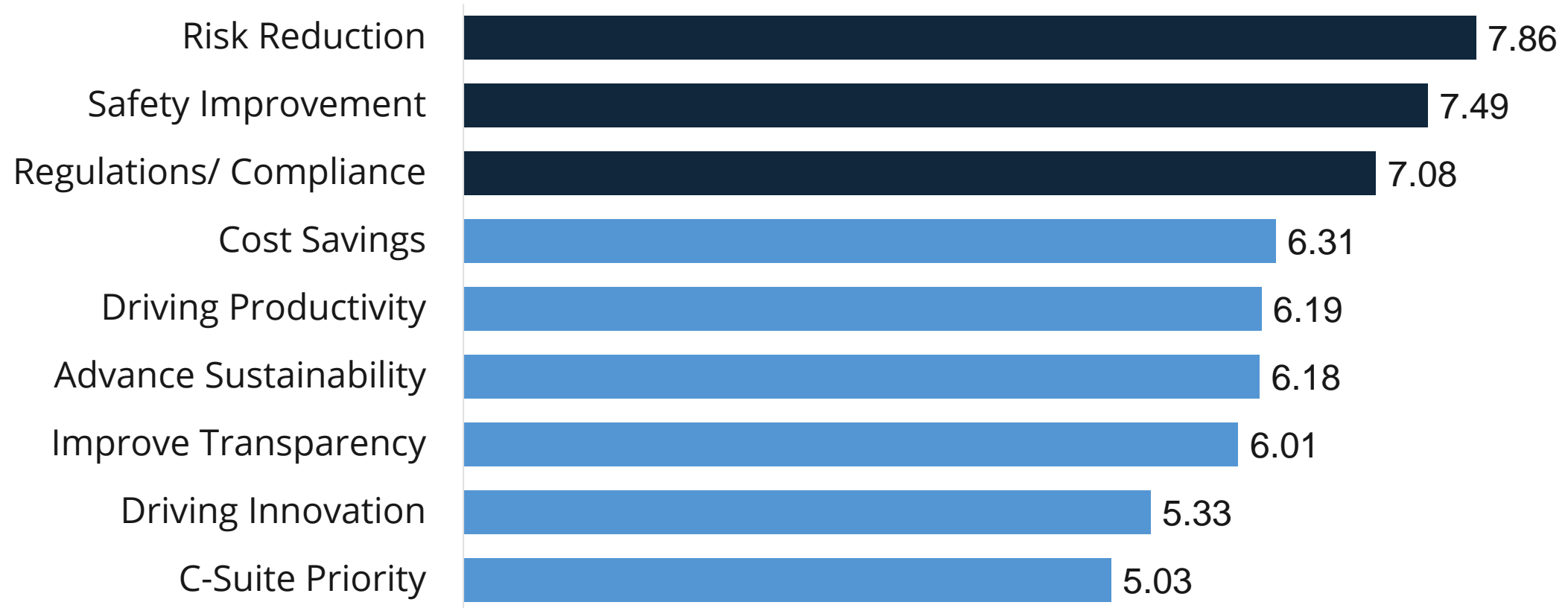
Emerging Technology Budget Overview

	% Budget = \$0	Average	1 st Quartile	2 nd Quartile	3 rd Quartile	4 th Quartile
Budget	11%	\$629,300	\$60,000	\$145,000	\$300,000	\$9,200,000
Budget/ Employee	11%	\$67.50	\$6.00	\$14.29	\$46.30	\$500.00

Factors Impacting Budget



Drivers for Adopting Emerging Technology



Moving from Challenges to Solutions

Select, Screen,
and Pilot

- **Fail fast** and **prioritize** opportunity for impact

Data Privacy and
Security

- **Communicate** with employees

Solution
Overload

- **Centralize** data operations



Questions from the Audience







Download the Publication Today!



 Trends in Emerging Tech for EHS&S
What's Really Happening Inside Companies
MARCH 2020

Thank you to our sponsors:

   Gensuite.

1

- Report available now
- Free to everyone



New & Upcoming Reports from NAEM



- 2020 EHS & Sustainability Salaries
- 2020 Staffing, Structure & Budgets
- Managing Covid-19 Challenges

All available @ [NAEM.org/research](https://naem.org/research)



A Wide Variety of Research and Publications

- *The EHS&S Tech Transformation*
- *Why Companies Replace Their EHS&S Software Systems*
- *2019 EHS & Sustainability Salary Report*
- *Strategies for Improving Contractor Safety Management*
- *Why Diversity and Inclusion is a Winning Strategy for EHS&S Teams*
- *Strategies to Increase Your Executive Presence*
- *Leading-Edge Greenhouse Gas Reduction Strategies*
- *Setting the Next Generation of Sustainability Goals*
- *Insights From Successful Supply Chain Sustainability Practices*



Leading-Edge Greenhouse Gas Reduction Strategies
JULY 2019



Back to the Market

MARCH 2019
Why Companies Replace their EHS&S Systems



Planning for a Sustainable Future

NOVEMBER 2018
Ideas that Will Shape EHS&S Management in the Year to Come



Sponsored by: **EY**
Building a better working world



The EHS&S Tech Transformation

FEBRUARY 2019
A Guide to the Technology Tools Shaping the Future of EHS&S Management



Connecting On-Line and In-Person



EHS Operational Excellence Conference

• May 21



Sustainability Impact Conference

• Aug 3-5



EHS&S Management Forum

• Oct. 20-23

***Check our website for registration
and additional information about our conferences!***

www.naem.org



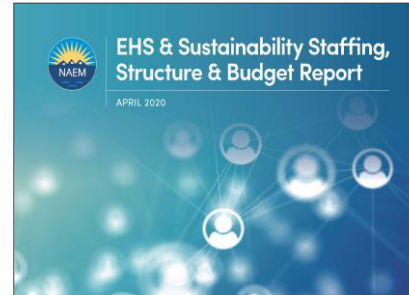
Great Webinars!

April 16



*Artificial Intelligence
for EHS Compliance
and Sustainability
Management*

April 30



*EHS & Sustainability
Staffing, Structure &
Budget*

May 28



*How to Build
Corporate Social
Responsibility in
Your Supply Chain*

***FREE for NAEM members
Information & Registration on-line at www.naem.org***



Connect with NAEM!

- Online: www.naem.org
- Via email: research@naem.org
- Social media:
 - Twitter: [@NAEMorg](https://twitter.com/NAEMorg)
 - Facebook: www.facebook.com/NAEM.org
 - LinkedIn: <https://www.linkedin.com/company/naem>



Thank you for Attending!



A recording will be available in 3-4 days. You will receive an email once it's posted to our site.



Have a safe & healthy day!