



**2016 Environment,
Health and Safety (EHS)
Research Vision &
Agenda**

**Matthew Littlefield &
Peter Bussey**

House Keeping Items



- Lines are Muted
- Recorded Line
- Chat Box
- Questions during the Presentation
- Questions after the Presentation

Our Mission is Driving Industrial Transformation

We are thought leaders and trusted advisors for Business, IT, and Automation executives

Our differentiators:

- Experienced analysts
- Primary social research
- Deep industry contacts
- Interactive data visualizations





Analyst Team



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IIoT



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APM



Dan Jacob
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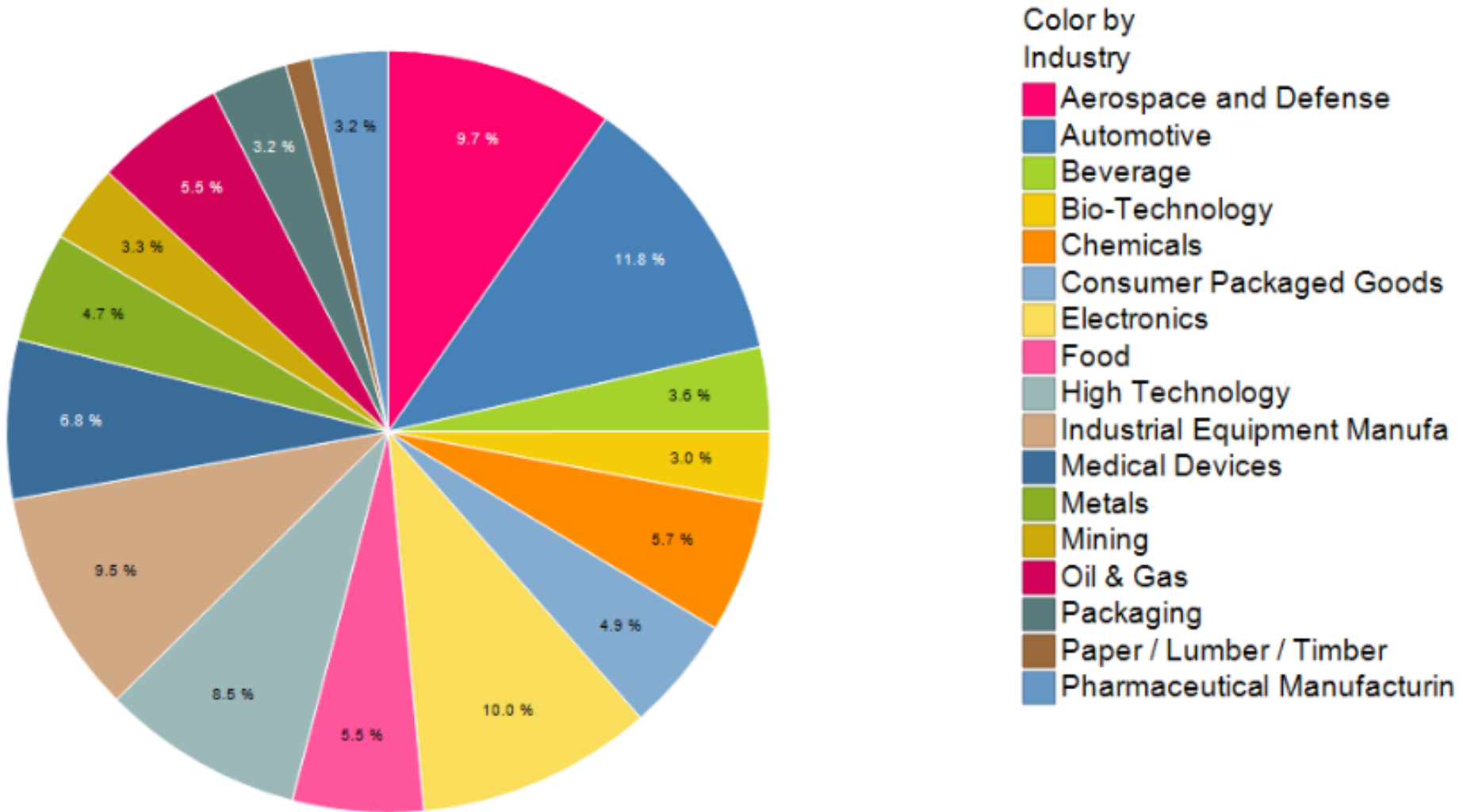
LNS Research in Media



Benchmarking Research



LNS has benchmarked 4,000+ executives, industry demographics include:



LNS Research's End User Clients Include:

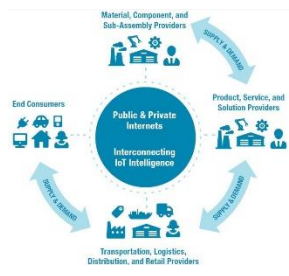


Digitalization & Industrial Transformation Framework



Digital Transformation

Reimagining Business Process and Service Delivery



Operational Excellence

Realigning People, Process, and Technology



Enterprise Architecture

Managing IT-OT Convergence and Next-Gen IIoT Technology



Business Case Development

Defining Immediate and Long Term ROI

Five Year Total Cost Summary - Subscription Licensed

COSTS	TOTAL	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
PERSONNEL						
SOFTWARE LICENSING						
THIRD PARTY SOFTWARE						
APPLICATION SOFTWARE						
DOCUMENTATION & TRAINING						
MAINTENANCE						
INSTALLATION						
INTEGRATION						
LEGACY DATA LOADING						
PROJECT MANAGEMENT						
SUPPORT						
TOTAL:						

Solution Selection

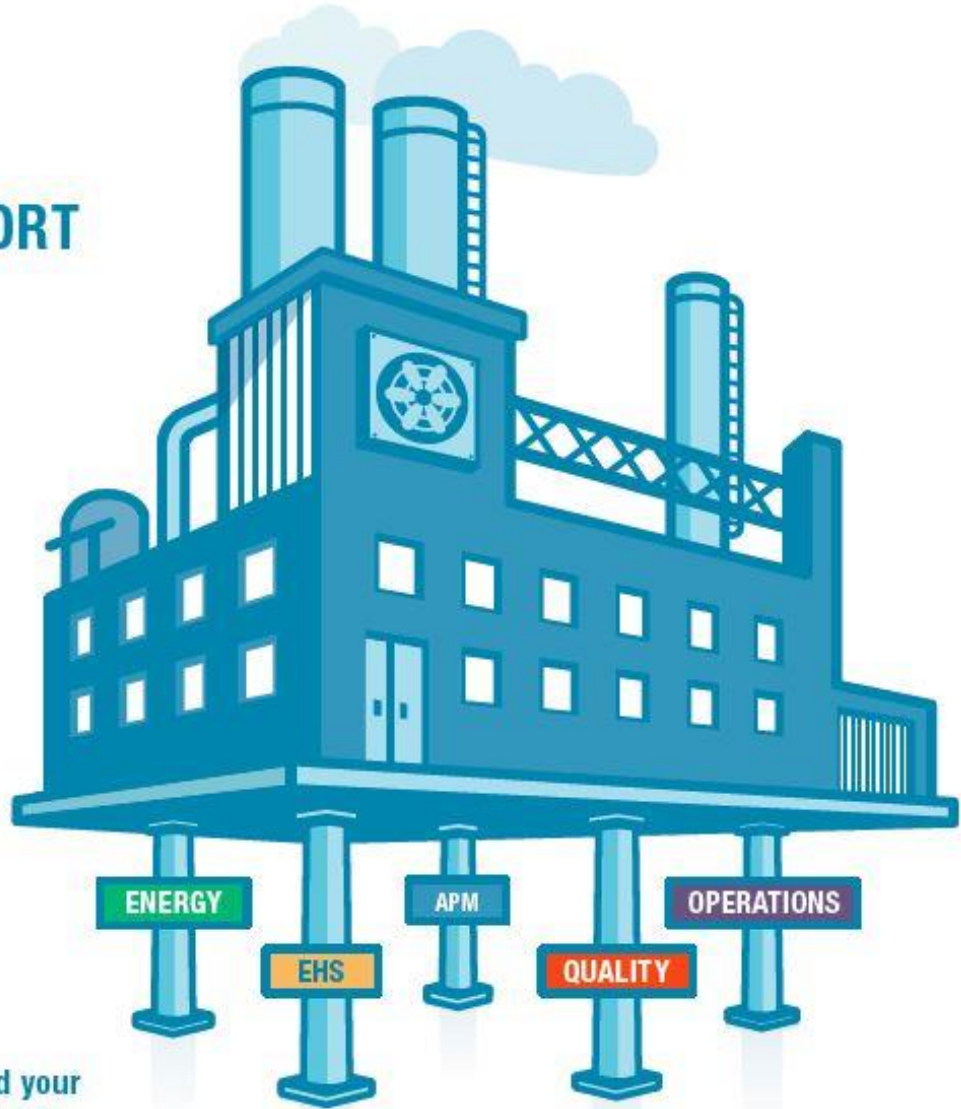
Eliminating Bias and Finding Long Term Partners



Research Vision: EHS is Foundational to Operational Excellence



OPERATIONAL EXCELLENCE SUPPORT



People – Process – Technology
Operational Excellence Platform

Fall short on any pillar and your
OpEx platform becomes tippy

Fall short on two or more pillars and your
OpEx platform becomes totally unstable

Research Vision: EHS is Integral with Plant and Enterprise Operations



Research Vision: The Path to Sustainable Operations

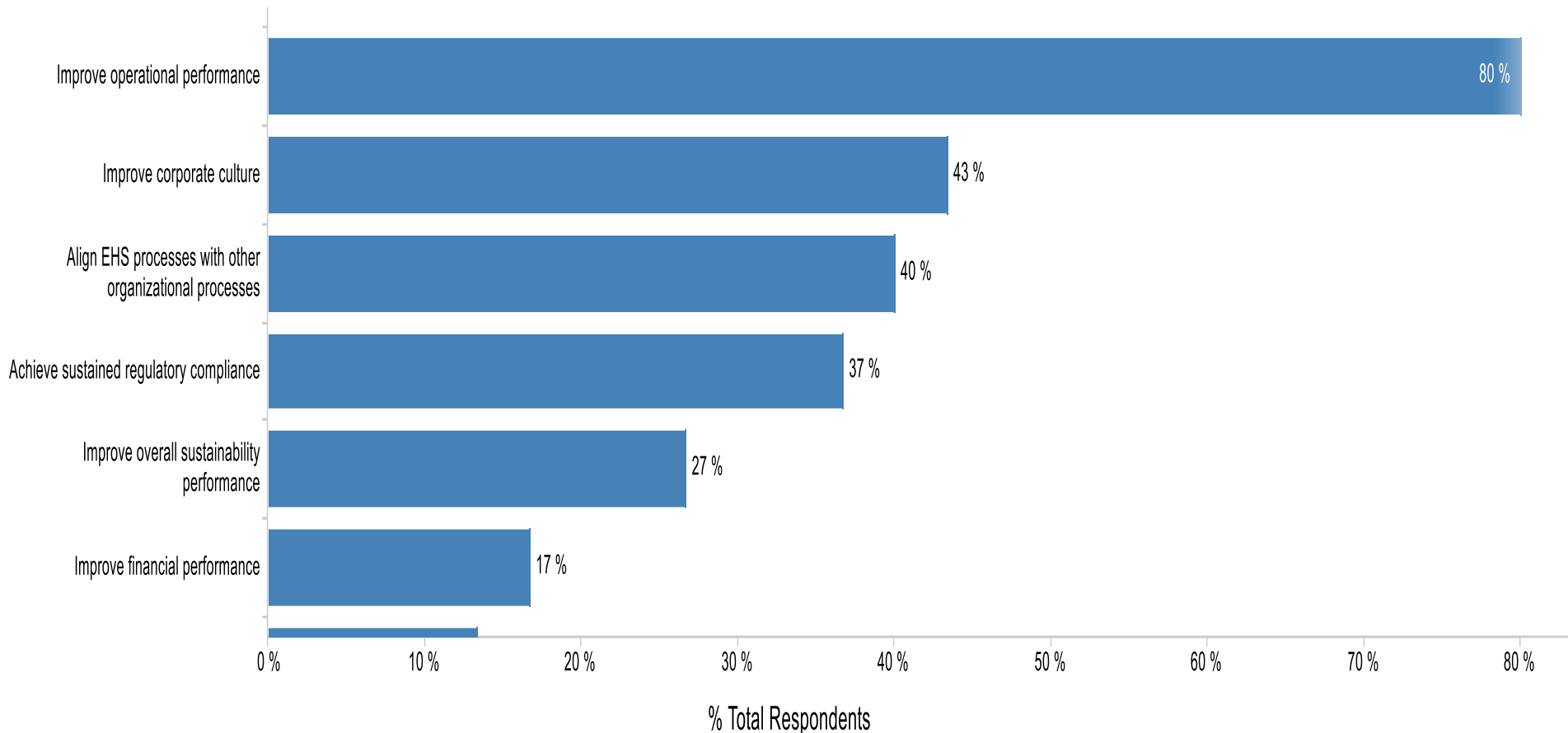


Hierarchy of Business Objectives Supporting Holistic Sustainability



Top EHS Strategic Objectives

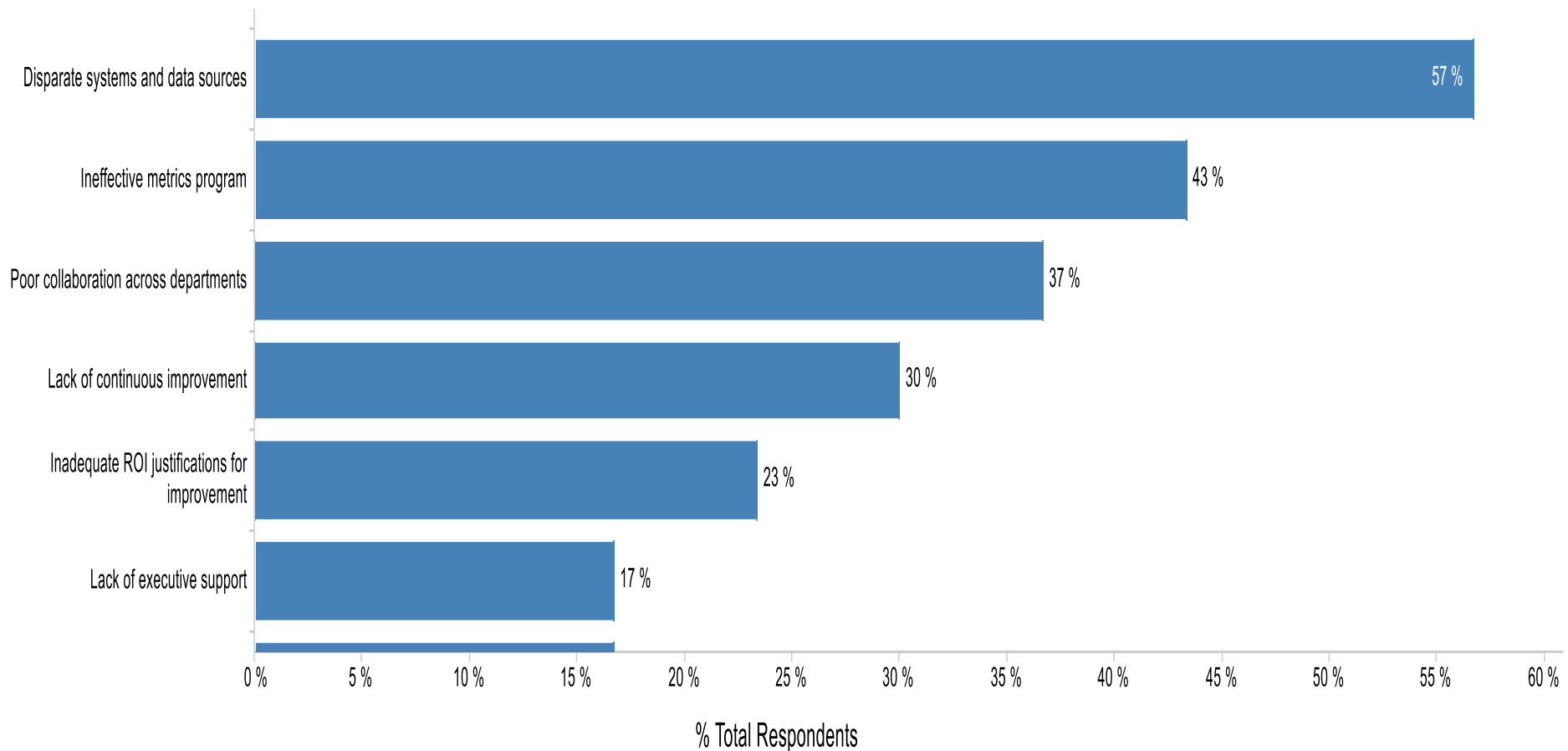
- Improving operational performance is the top strategic objective for EHS
- Alignment of business processes, culture improvement, and compliance are key objectives





Top EHS Challenges

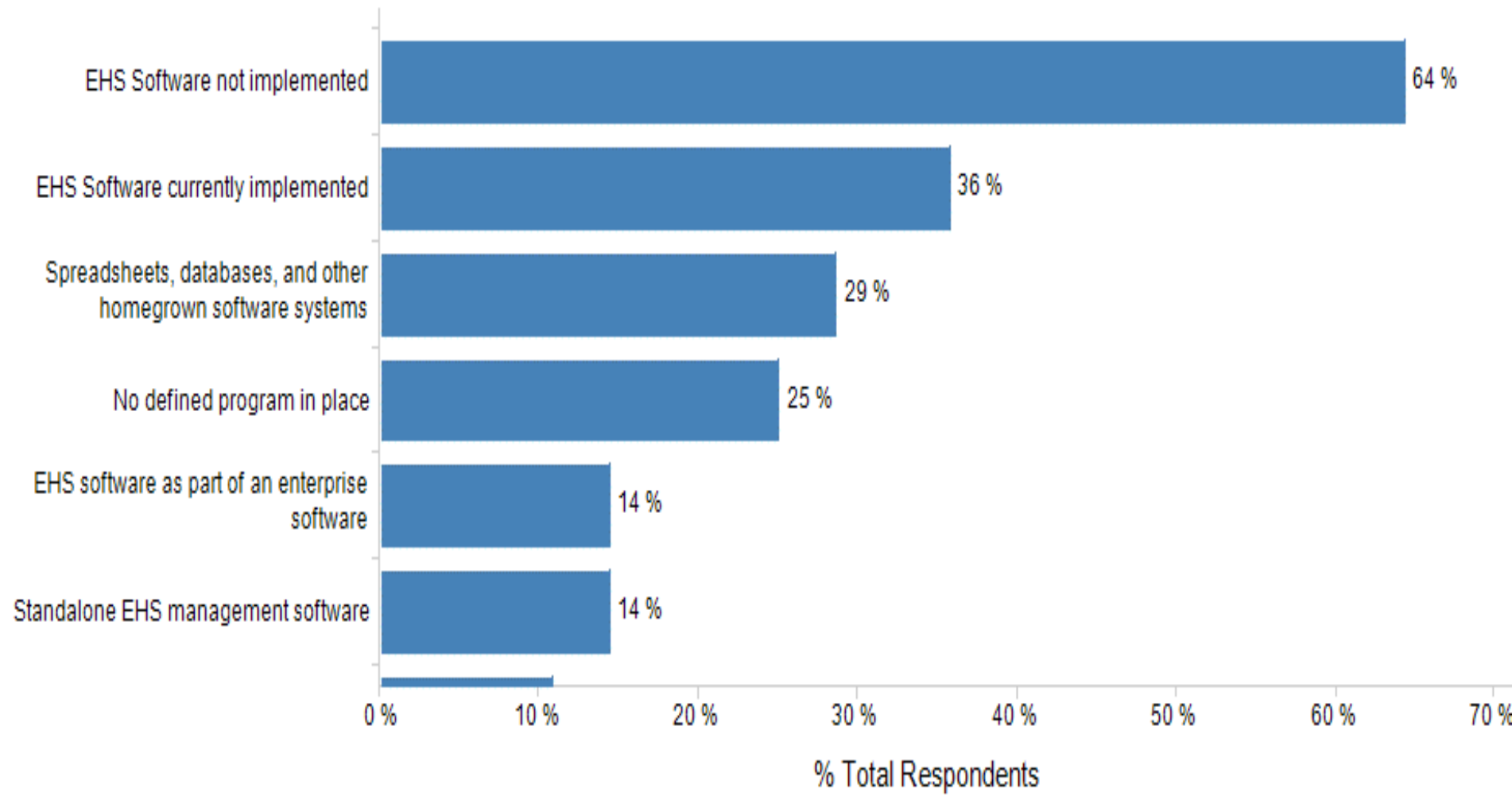
- Top challenges relate to disparate systems and ineffective metrics programs.
- Companies are still struggling to collaborate



How are EHS processes and performance managed today?



- Big opportunity to improve EHS management



Research Point of View: Alignment of People, Processes, and Technology



Research Agenda: Business Value of EHS

Business case development

- Key EHS value drivers
- Effective business case elements
- Justifying an EHS IT initiative

Successful implementation

- What practices affect time-to-value?
- Profiles of real-world success stories
- Best practices and lessons learned
- How to develop an implementation roadmap



Hierarchy of Business Objectives Supporting Holistic Sustainability

Research Agenda: Operationalizing EHS

Business Integration

- How can EHS be integrated into day-to-day operations?
- What EHS processes are world-class companies optimizing?
- Operational risk management in an enterprise risk context

Role of Management Systems

- Management systems adoption
- Impact of new ones?
- Role in driving performance improvement
- To what extent should management systems be integrated?



Research Agenda: Performance Improvement

Metrics and Analytics

- Moving from lagging to leading indicators
- Harnessing Big Data
- Technology enablers

Organization and Culture

- Re-invigorating safety culture
- Improving cross-functional collaboration
- Role organizational learning

Top 3 Metrics used to Assess EHS Performance at the Site Level

Total Injuries **15%**



Lost Time **14%**



Near Misses **9%**



Research Agenda: Sustainable Business

Sustainable supply chain

- ESG performance criteria
- Managing EHS issues across the global value chain
- Product stewardship

Managing sustainability performance

- Determining materiality
- Standalone vs. integrated
- Technology for data collection, analysis and reporting
- Industry standard reporting formats- use and usefulness



EHS Research Agenda: Technology Enablers

- How and where are novel technologies being deployed?
- How can these technologies help?
 - Big Data analytics
 - Mobile
 - Cloud
 - IIoT





2016 Plans for EHS Campaigns

Q2: Making the case for EHS information management investment: how to identify and communicate business value

- Identifying and assessing strategic, financial, and operational benefits
- What is the value to the business of EHS performance improvement?
- The contribution of EHS to Operational Excellence, risk reduction, and growth
- How to communicate the business case and compete for funding

Q4: Metrics for EHS management: using the power of analytics to drive performance improvement

- Best practices for using metrics to drive continuous performance improvement
- Making the move from lagging to leading indicators
- Harnessing the power of Big Data and predictive analytics
- Technology enablers for data collection, analysis and reporting



Potential 2016 Reports

- 2016 EHS Solution Selection Guide
- Justifying EHS Software Investments: 7 Keys to a Successful Business Case
- Developing a Roadmap for an Enterprise EHS Information Management System
- Best Practices for Successful Implementation and Deployment of EHS Software Solutions
- The Business Value of Operationalizing EHS Management and How to Achieve It
- Driving EHS Performance Improvement with Integrated Management Systems

Business value, Operationalization



Potential 2016 Reports

- Beyond Incident Rates: Moving from Lagging to Leading Indicators to Predict Risk and Prevent Incidents
- Enabling Safety Culture: The Role of Leadership and Technology in Shaping How Your Organization Lives Safety Every Day
- Accelerating EHS Performance Improvement with Cross-Functional Collaboration
- Bringing the Worlds of Occupational and Process Safety Together
- The Importance of Organizational Learning in Getting Value from Incident Investigations
- Managing EHS Compliance and Operational Risk Across Global Value Chains

Performance Management, Sustainable Business



Potential 2016 Reports

- Sustainable Supply Chains: Optimizing End-to-End Operations for Efficiency and Risk
- Focusing Sustainability Initiatives on Issues of Materiality
- The Internet of Things (IoT) and EHS: Best Practices From Today and Use Cases for Tomorrow
- How to Mobilize EHS Management to Improve Compliance and Reduce Risk
- Transforming EHS Management Using Big Data Analytics
- The Importance of Services Providers in Implementing EHS Information Management Systems
- The Key Role EHS Content Providers in Achieving Global Compliance

Sustainable Business, Technology, Services



EHS Global Executive Council Meeting

Moving to Zero Incident Rate via a Comprehensive EHS Program

When: **March 17, 2016**

Time: **1:00 EST**

Focus:

- What are the best-practices in rolling out a safety system to multiple business units?
- What are the key EHS metrics that are critical for every organization?
- How do you drive culture transformation to proactively manage EHS initiatives?
- How to build a proactive safety plan by eliminating paper and spreadsheets?
- And much more!



*Plus quarterly EHS
GEC virtual
meetings*



LNS Research Focus

- **Digital Transformation for Operational Excellence**
- **EHS is foundational**
- **EHS research agenda focused in key business themes**
 - Business value
 - Operationalizing EHS
 - Performance management
 - Sustainable business
 - Technology as enabler
- **Opportunities to engage**
 - Participate in research survey (EHS plus others)
 - Consume research content: learn, benchmark, improve
 - Join Global Executive Council: network, share with peers
 - Engage with LNS analysts: briefings, inquiries, projects



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Questions?



Thank You!

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