

Big Data, Better Learning?

How Big Data is Affecting Organizational Learning

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i4cp discovers the people practices that drive market performance.



SAP AG is a world leader in enterprise software and software-related services. HQ in Walldorf, Germany; locations in 130+ countries; 40-year history of innovation.

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2011, 2012 and 2013



Defining High Performance

- Revenue growth
- Market share
- Profitability
- Customer satisfaction

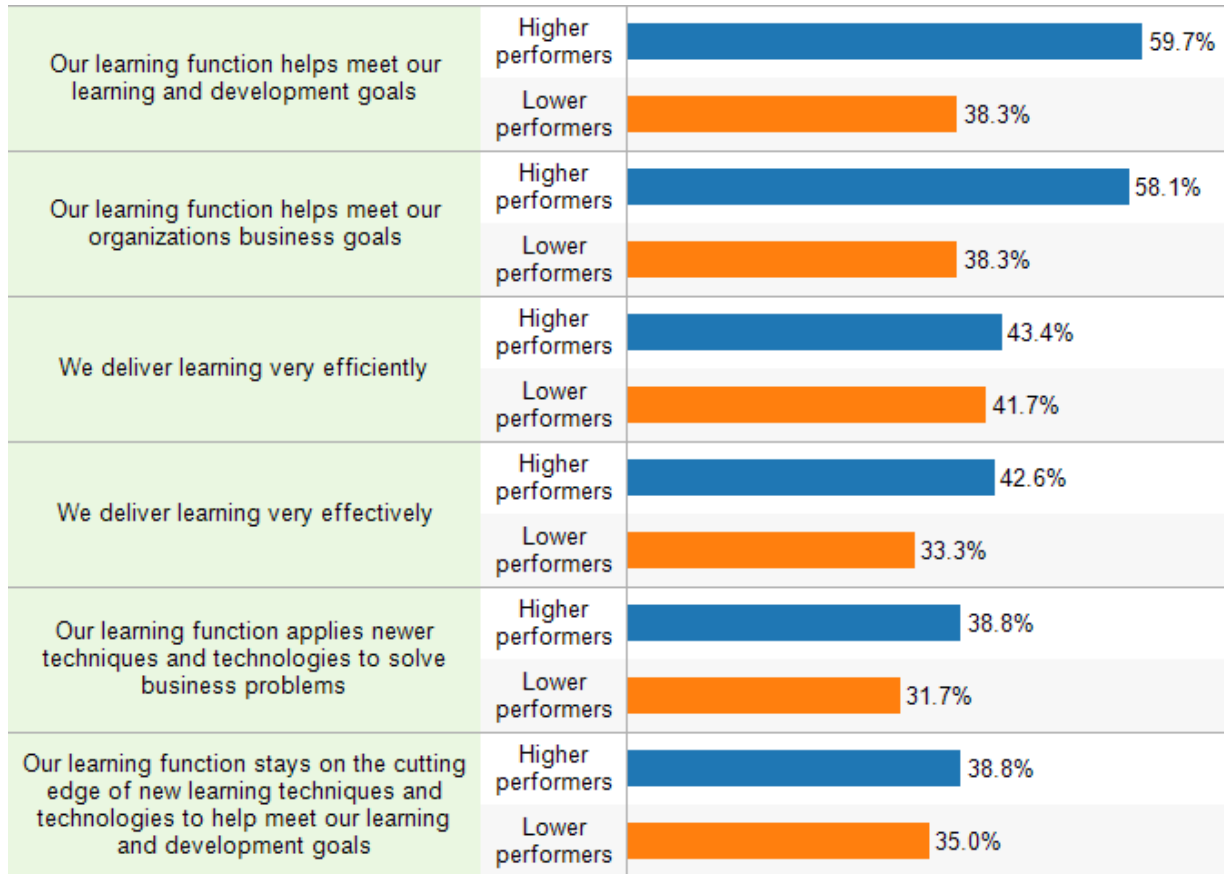


Focus of Research:

- Do high market performance organizations do things differently?
- Do specific practices correlate with market performance?

Learning Effectiveness

High market performers score higher in learning effectiveness



High/very high extent responses

About the Study

- 418 respondents
- Representing varied industries
- 80% manager level or above
- Most organizations with workforces of 1000 or more
- Interviews with practitioners
- Published June 2014

What is Big Data?

“High volume, high velocity, and/or high variety information assets that require new forms of processing to enable enhanced decision making, insight discovery and process optimization” (Laney, 2012).

Interest > Capability

30%

Organizations with big data initiatives underway

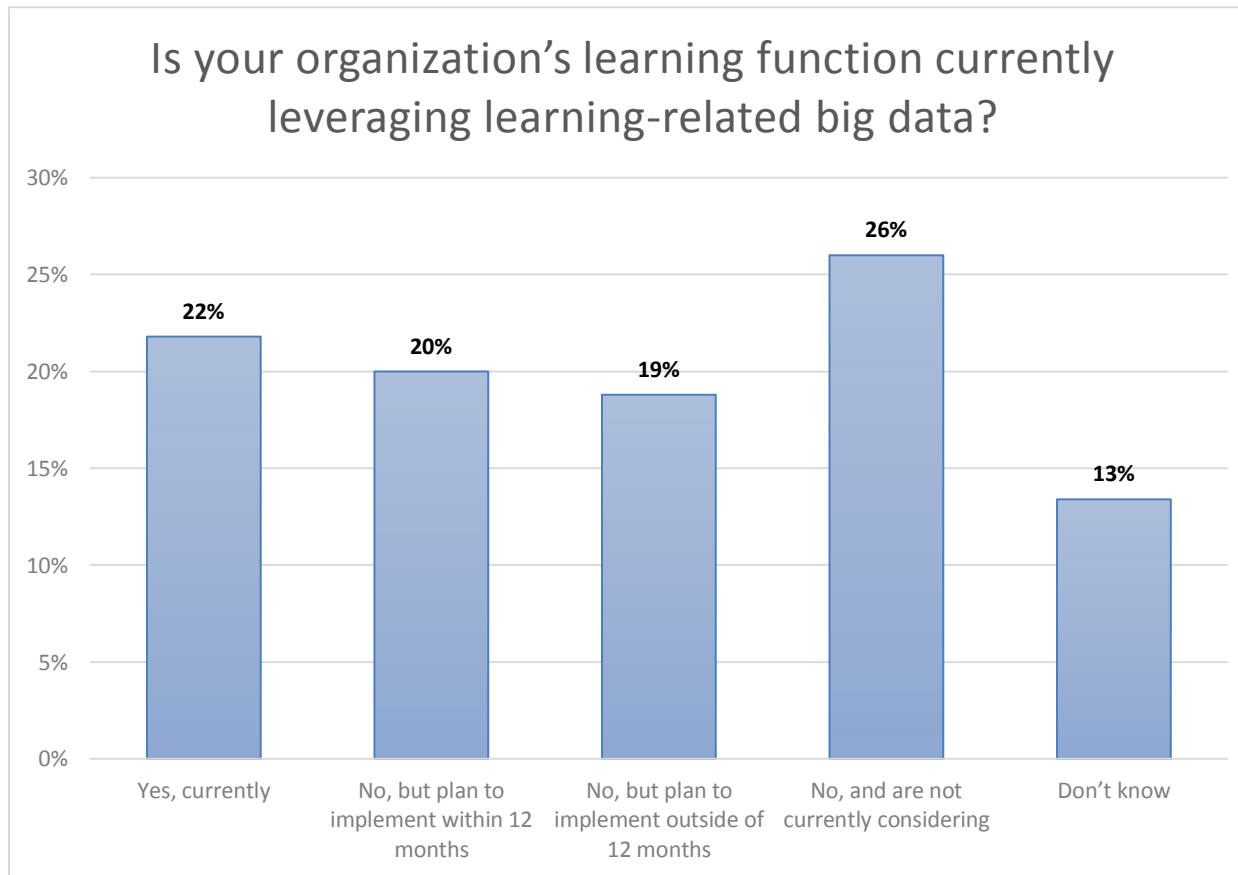
34%

Plan future big data initiatives

15%

Organizations highly effective at analyzing big data

What about the Learning Function?

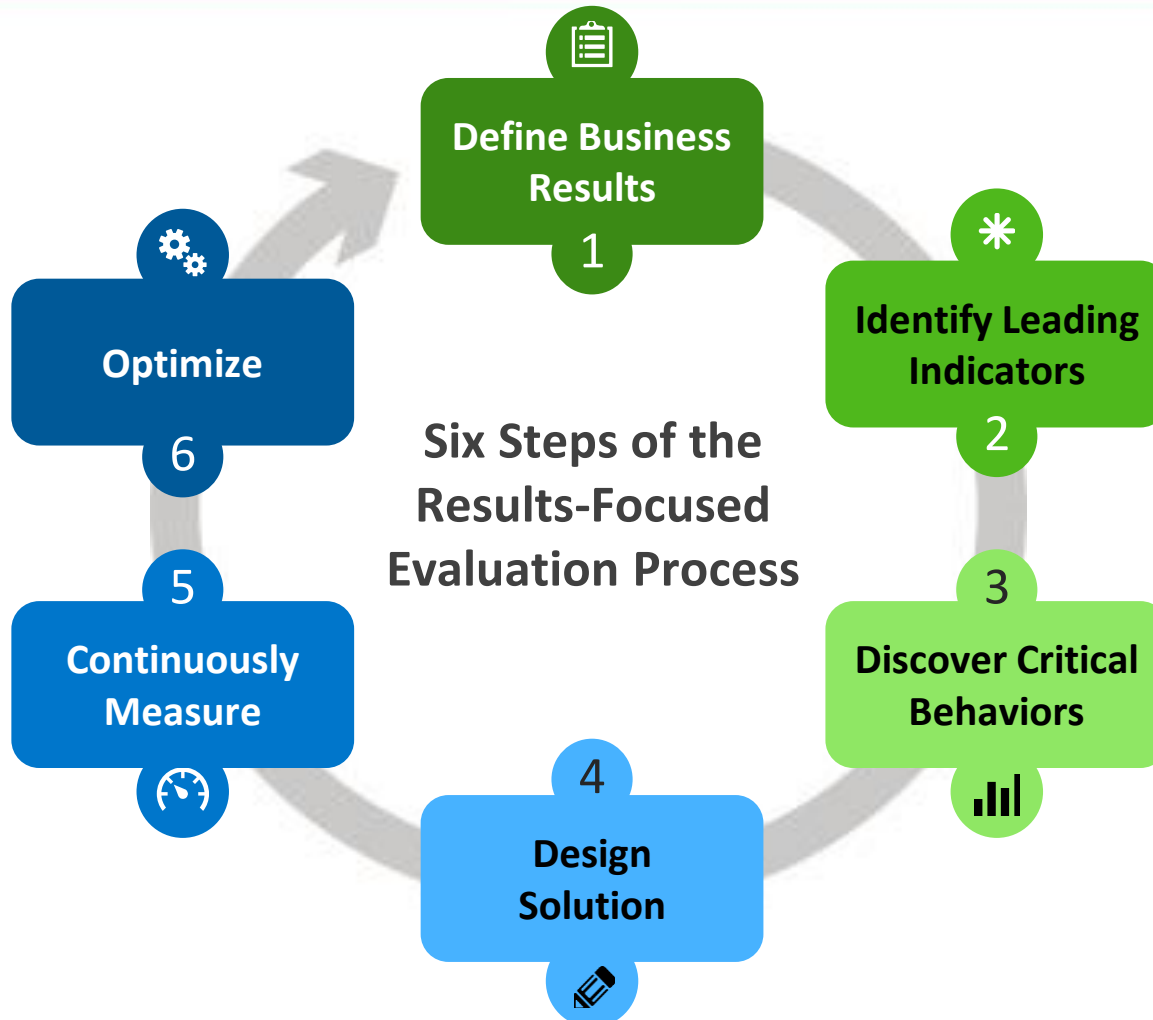


What's driving learning's interest in big data?

Improvement!

- Evaluating effectiveness of L&D initiatives
- Evaluating business impact of learning
- Delivering learning

- Make better decisions in the learning function
- Individually tailor learning content
- Gain greater understanding of the learning audience
- Empower learning to use new technologies
- Make faster decisions in the learning function
- Analyze ROI



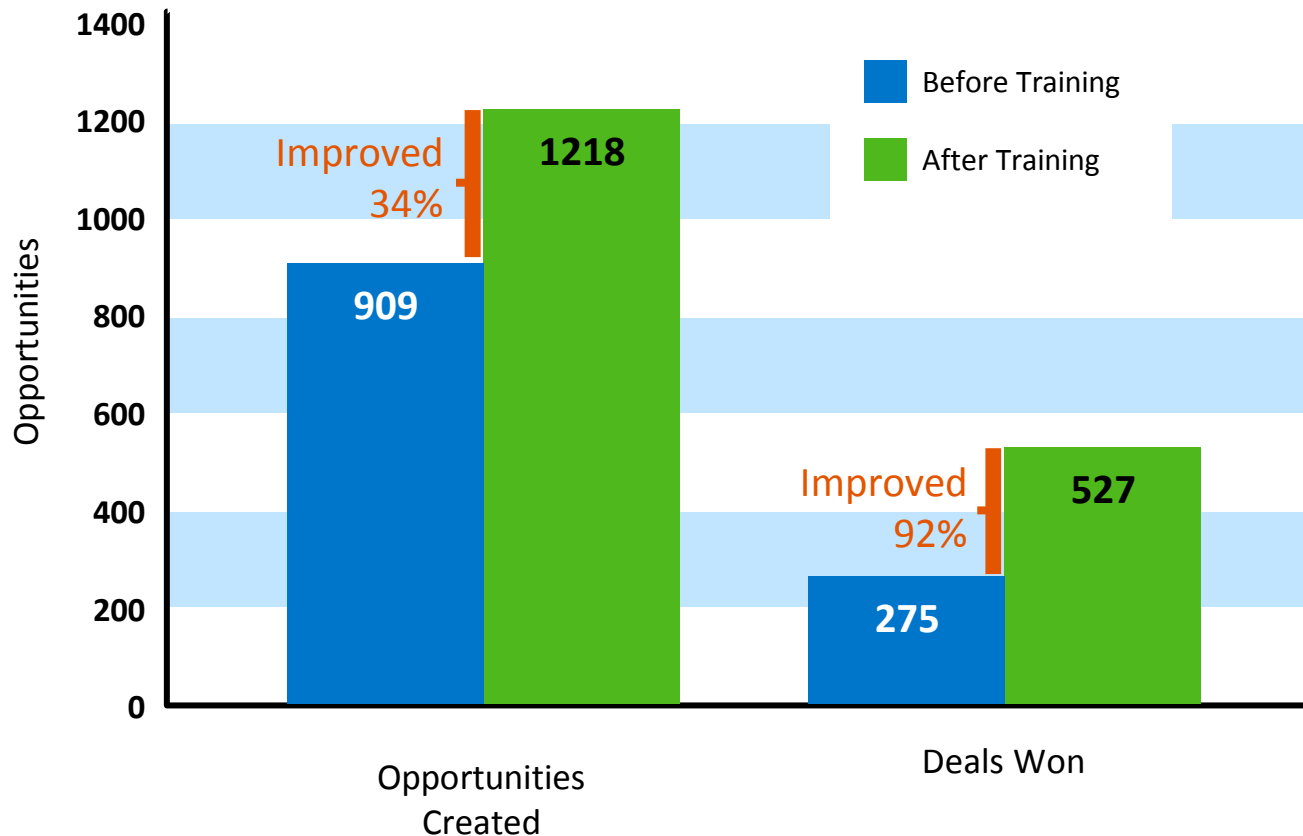
Sales University: "Ramp to Quota" Sales Onboarding

Sales Cycle Stages

Stage 1 SUSPECT	Stage 2 PROSPECT	Stage 3 PIPELINE	Stage 4 DECISION PENDING	Stage 5 CLOSING THE DEAL
Business Metrics <ul style="list-style-type: none"> • Opportunity number • Opportunity quality 	<ul style="list-style-type: none"> • Deal Size • Product Mix 	<ul style="list-style-type: none"> • Conversion to late stage 	<ul style="list-style-type: none"> • Sales Cycle • Forecast accuracy 	<ul style="list-style-type: none"> • Close Ratio • Win to loss ratio
Leading Indicators <ul style="list-style-type: none"> • Prospecting • Account research • Messaging • Qualification • Access to C level 	<ul style="list-style-type: none"> • Needs discovery • Strategic positioning • Expand & broaden opportunity 	<ul style="list-style-type: none"> • Connecting BizX drivers to SF solutions • Compelling demo • Competitive positioning • Leverage teams and Resources 	<ul style="list-style-type: none"> • Financial acumen/ business case prez • Negotiation • Winning all stakeholders 	<ul style="list-style-type: none"> • Gain commitment • Closing
Training Courses				
Sales Boot Camp				
CXO Relevancy				
Prospecting			Negotiation	
SC Boot Camp				
		Great Demos		
Sales Coaching				



Measurement Example: Training Increases Opportunities Created and Won



58%

Learning functions have *significantly* more data today than 5 years ago

31%

Have more data than just a year ago

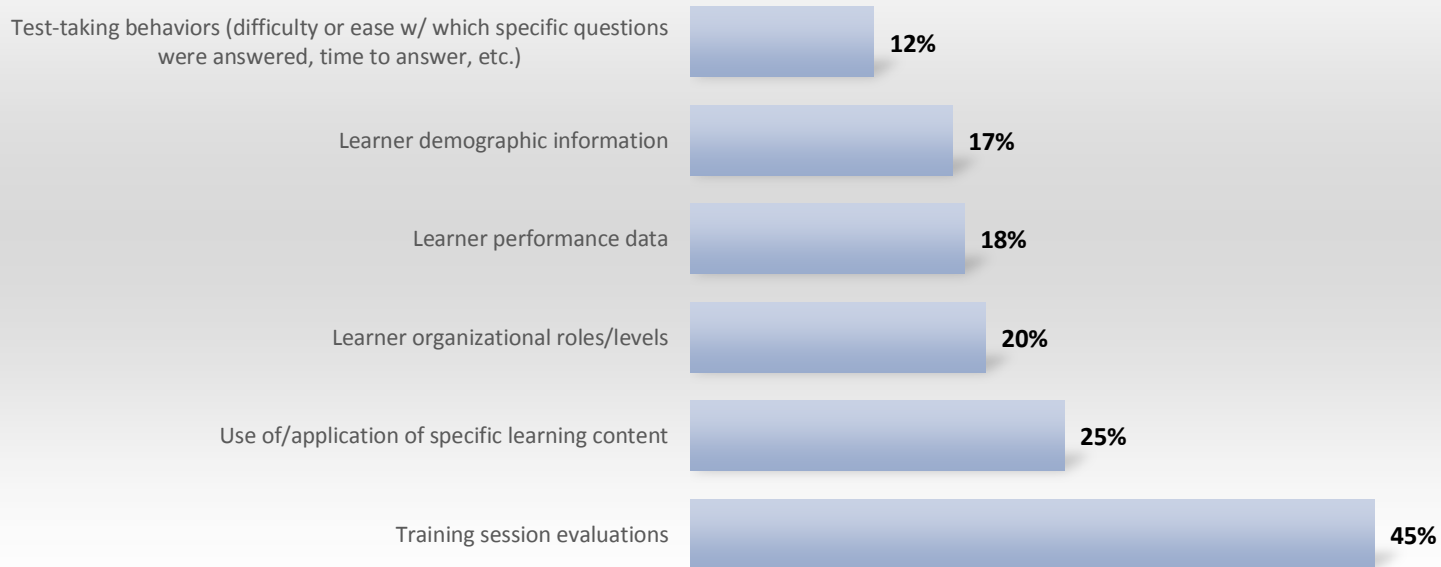
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- The amount of data in the world now is comparable to every U.S. resident sending three tweets every minute for 26,976 *years*.
 - By 2020, data production will be 44 times greater than it was in 2009

Wikibon 2013

Smile sheets top data leveraged by learning



To what extent are the following types of big data leveraged by your organization?



Taking Responsibility

36%

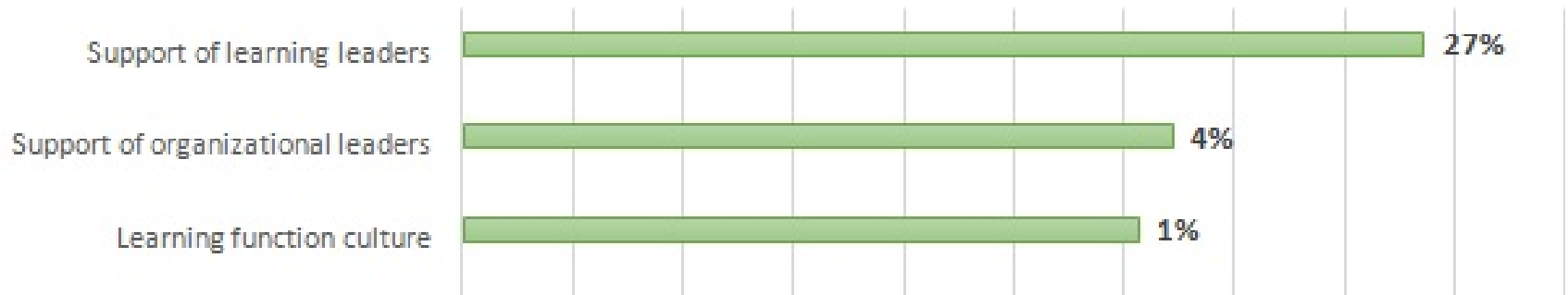
Of survey respondents rate their learning functions highly effective at analyzing big data

54%

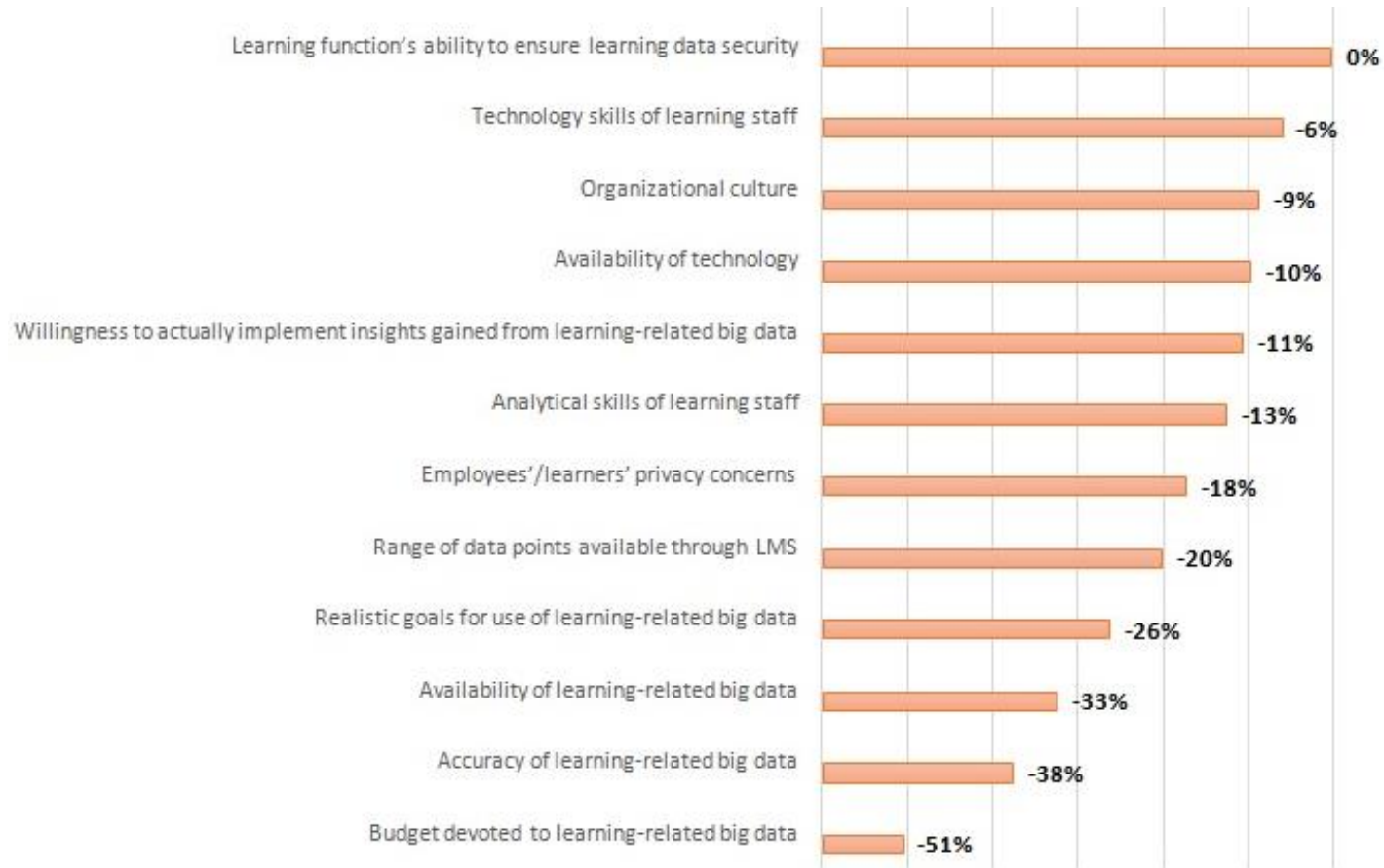
Of respondents using big learning data say their learning functions have a position responsible for overseeing big data

Most learning functions also take responsibility for collecting, storing and analyzing learning-related big data

Learning professionals say leaders' support is their greatest strength



Challenges outnumber strengths *4 to 1*



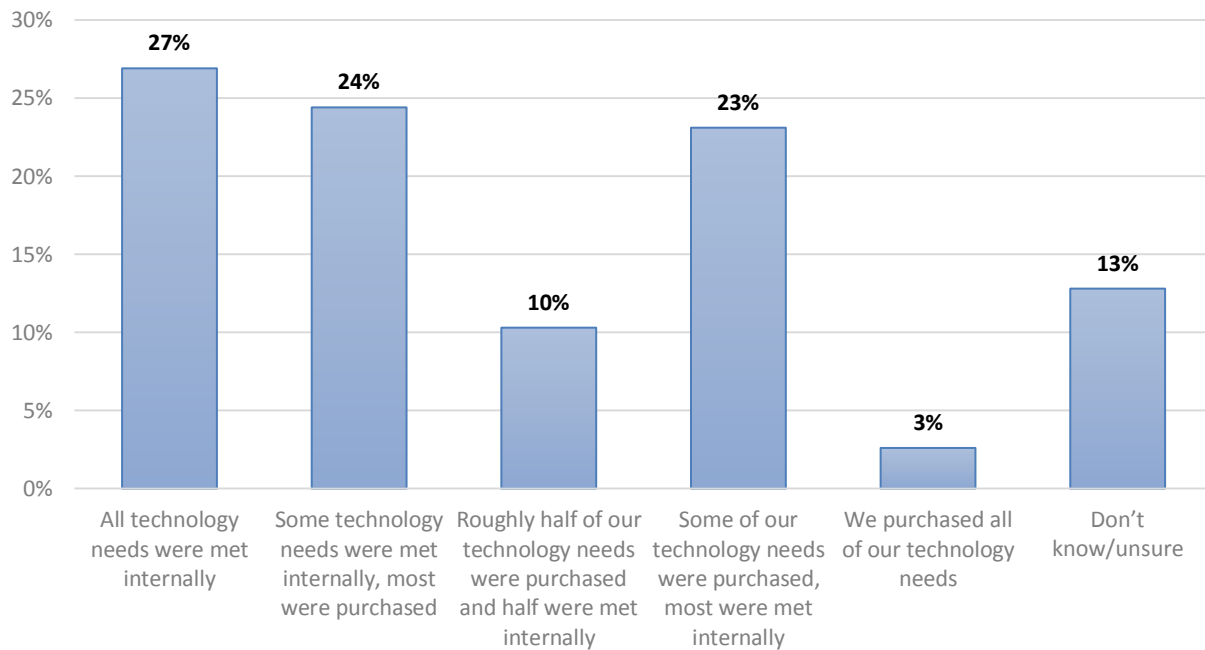
52%

Survey respondents with budget knowledge who reported learning and development budgets of \$100,000 or more in their organizations

20% or less

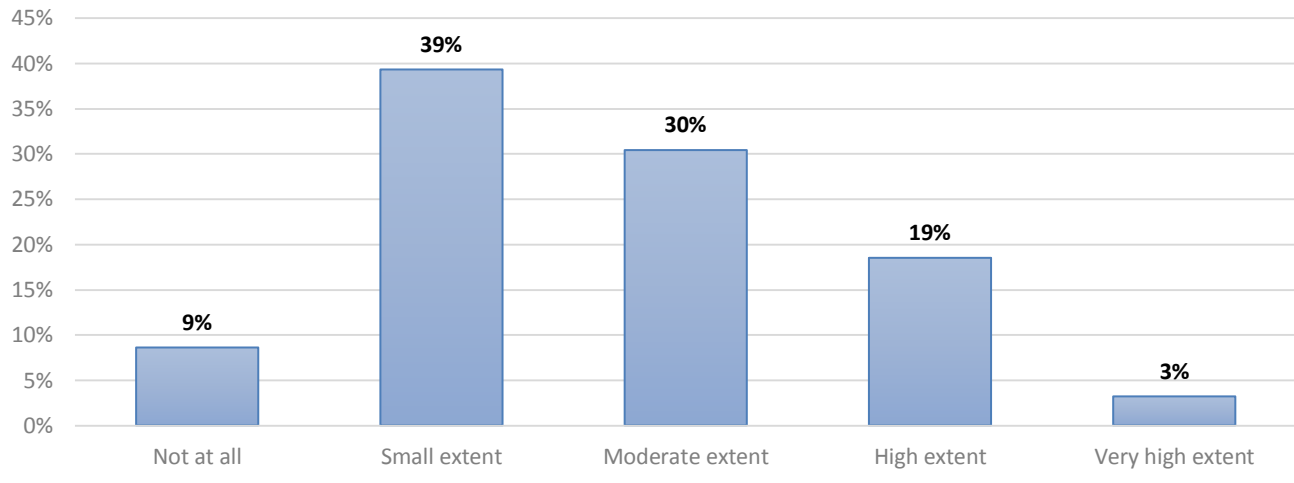
Portion of learning budget dedicated to big learning data initiatives according to 77% of respondents

Did your organization have the technology to process learning-related big data internally or was it necessary to purchase business analytics tools or data mining software?

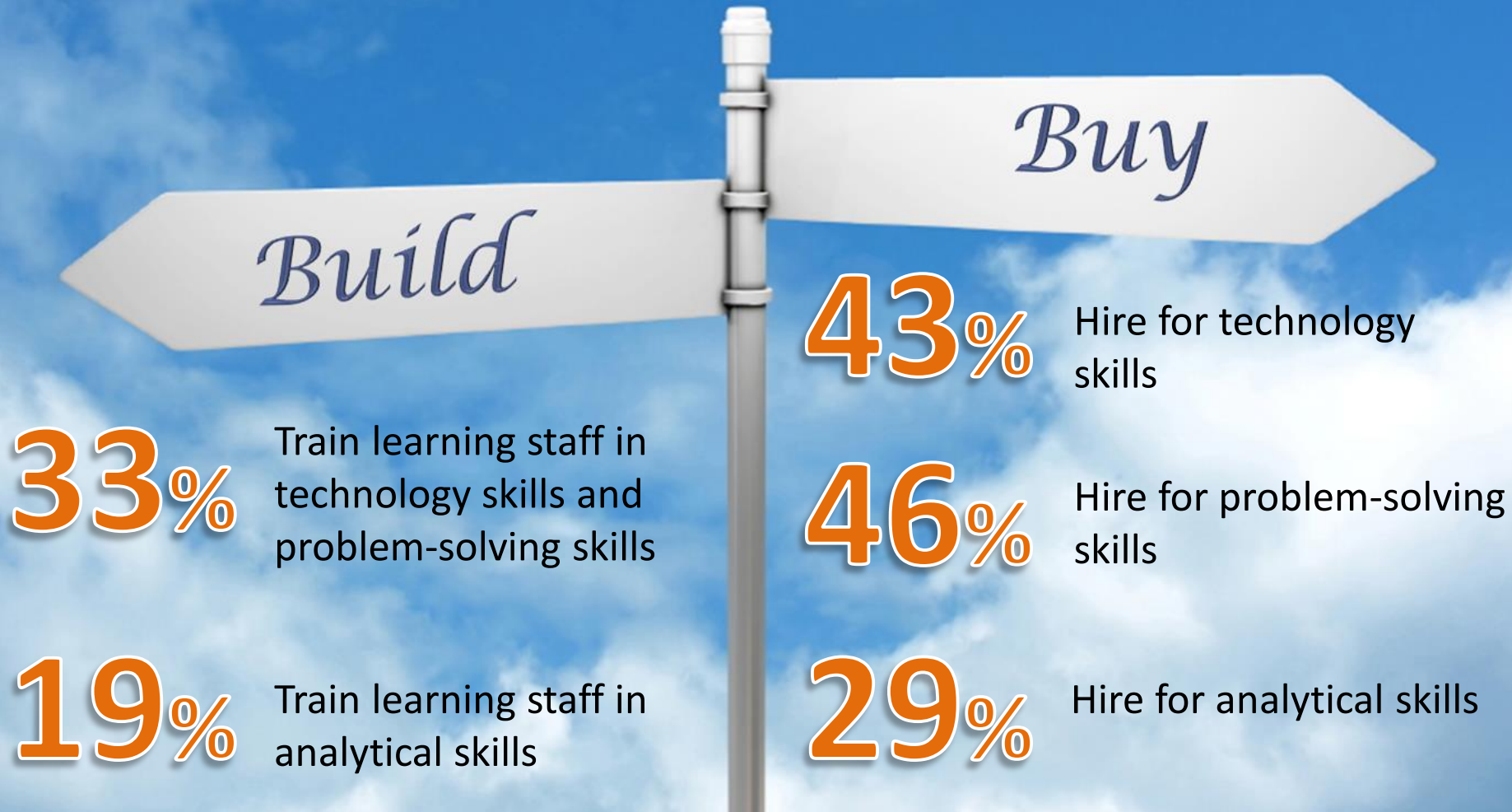


Analytical Know-How

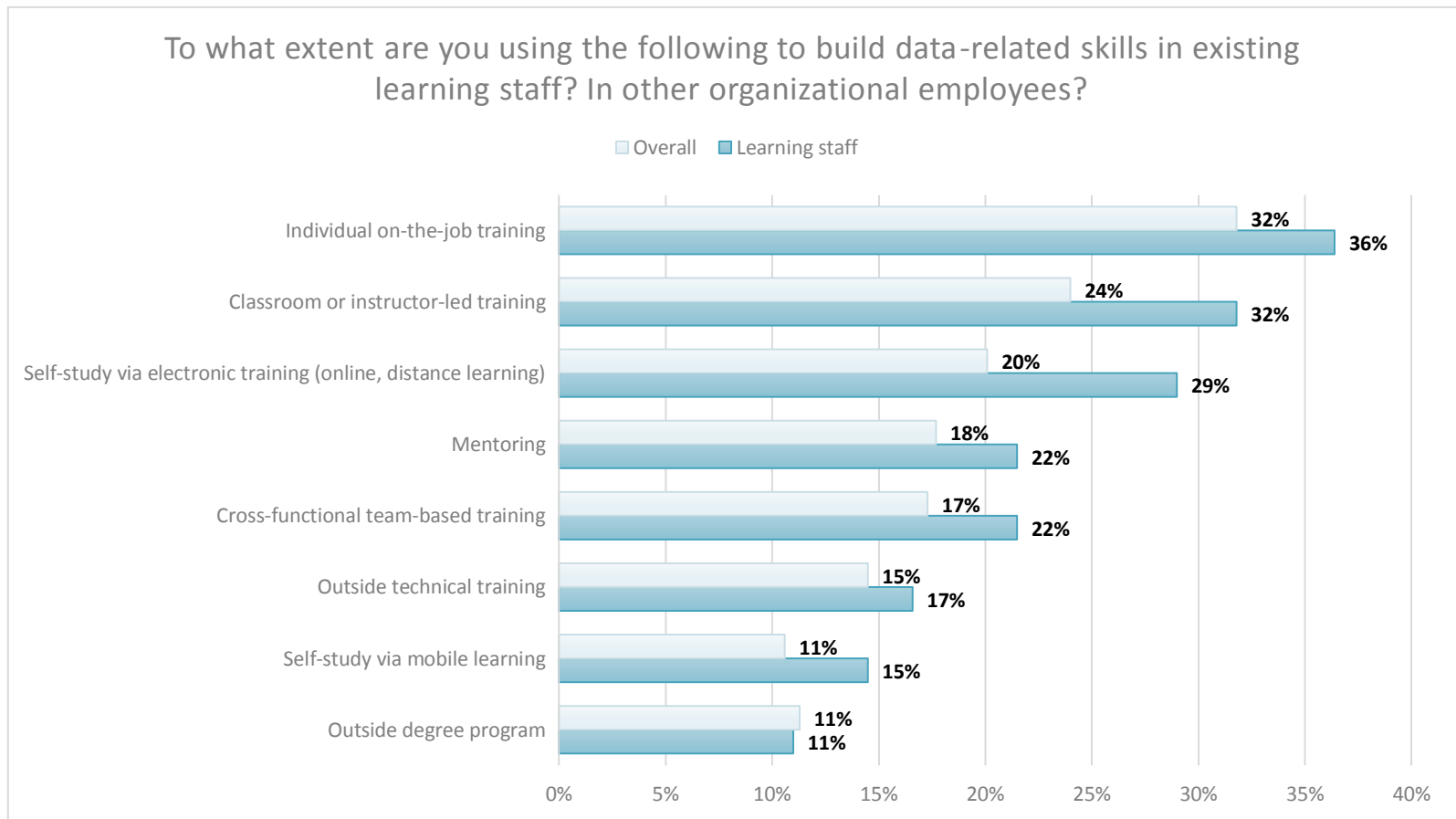
To what extent does your learning staff possess the knowledge/skills required to meet the training needs of broader organizational staff in developing analytical skills?



Build or Buy Skills?



OJT Leads Learning Methods





**KEEP
CALM
AND PROCEED
WITH
CAUTION**

- Analytics expertise is a must-have
- Technological capabilities matter
- Data integrity and statistical modeling demand close attention

- Establish purposes for big data initiatives
- Secure analytical expertise
- Ensure access to data and insist on data integrity
- Secure the technologies needed to manage data volume

Big
Learning
Data

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RESEARCH REPORT
ASTD Research:
Connecting Research to Performance

SURVEY PARTICIPANTS
39%

TRENDS

BIG DATA

AMOUNT OF DATA AVAILABLE

ANALYSIS

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