

State of Auditing in 2014

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Director, Strategic Planning and Performance
US Postal Service Office of Inspector General
November 12, 2014



US Postal Service at a Glance

\$1.3 Trillion	The U.S. Postal Service is the core of a more than \$1.3 trillion mailing industry that employs more than 8 million people
40%	Of the world's mail volume is handled by the Postal Service
20.1 billion	Stamps were sold in 2013
1.2 billion	Miles driven each year by letter carriers and truck drivers.
1.1 billion	Annual visitors to <i>usps.com</i> ; averaging 3.6 million visits per day
\$67.3 Billion	Annual revenue
200 miles	Of conveyors within postal processing facilities
35,434	35,434 retail facilities - larger than McDonald's, Starbucks, and Walmart combined, domestically.
33 petabytes	Of storage capacity equivalent to playing 83,000 years of songs on an MP3 — no repeats.



State of Auditing in 2014

Themes:

1. Business environment is changing
2. Perceptions of Audit's value are diverging
3. Expectations of Audit are changing, and Audit is struggling to meet expectations
4. Is Continuous Assurance the future?



State of Auditing in 2014

Theme 1:

Business environment is changing

Technology is changing business in a major way, and the pace of change is accelerating.





Information technology now is an indispensable factor of production.

Photo by Marc-Alexander Hecker



Enabling global trade.



Photos by Deutsches Bundesarchiv, Dachan Bay Modern Port Development Co. Ltd.



Driving mass customization.



Photo by BMW AG





Allocating capital.

Photos by U.S. Library of Congress, Wikimedia Commons



Connected Devices

The number of connected devices is increasing dramatically

Connected devices per person



World population



Connected devices



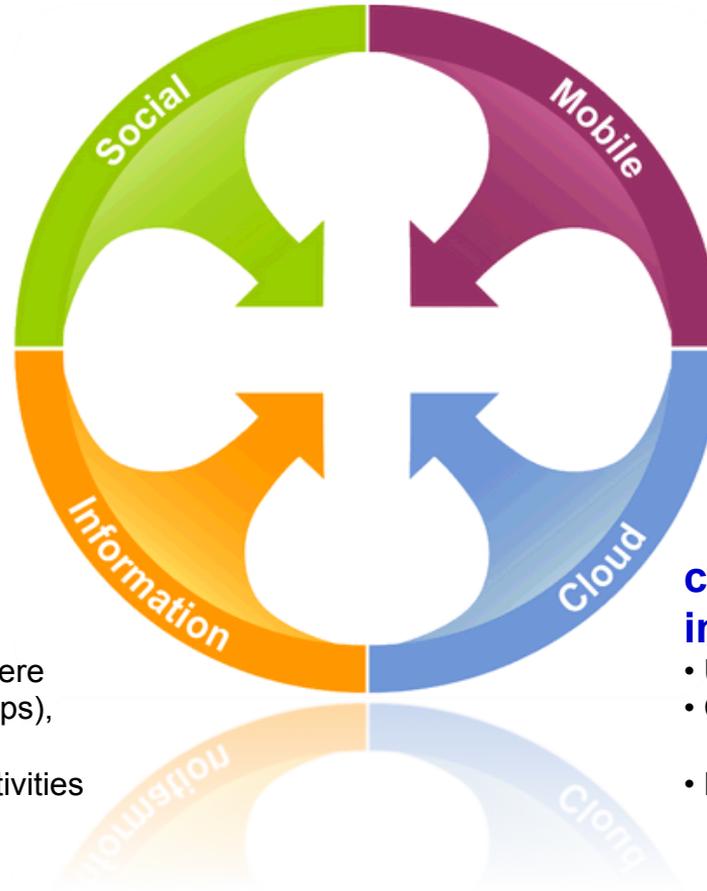
By 2020 there will be nearly **7 times** more networked devices than people in the world



The Nexus of Forces: People...

want to connect to...

- share experiences
- find answers
- engage with the community



want to be mobile...

- using devices of their choosing
- staying connected with people
- being able to switch easily between work and non-work

want a seamless experience to...

- access anything from anywhere
- use multiple devices (and apps), sometimes simultaneously
- blend work and non-work activities

consume and generate information

- Ubiquitous access to info and apps
- Contextually relevant info to augment their activities
- Don't care how it works, only that it does.

Gartner 2013



Which of the following global trends do you believe will transform your business the most over the next five years?

Technological advances



Demographic shifts



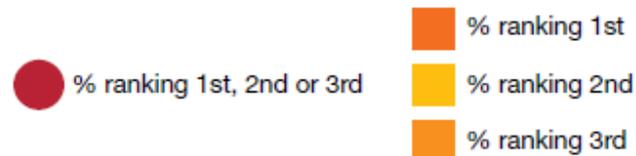
Shift in global economic power



Resource scarcity and climate change



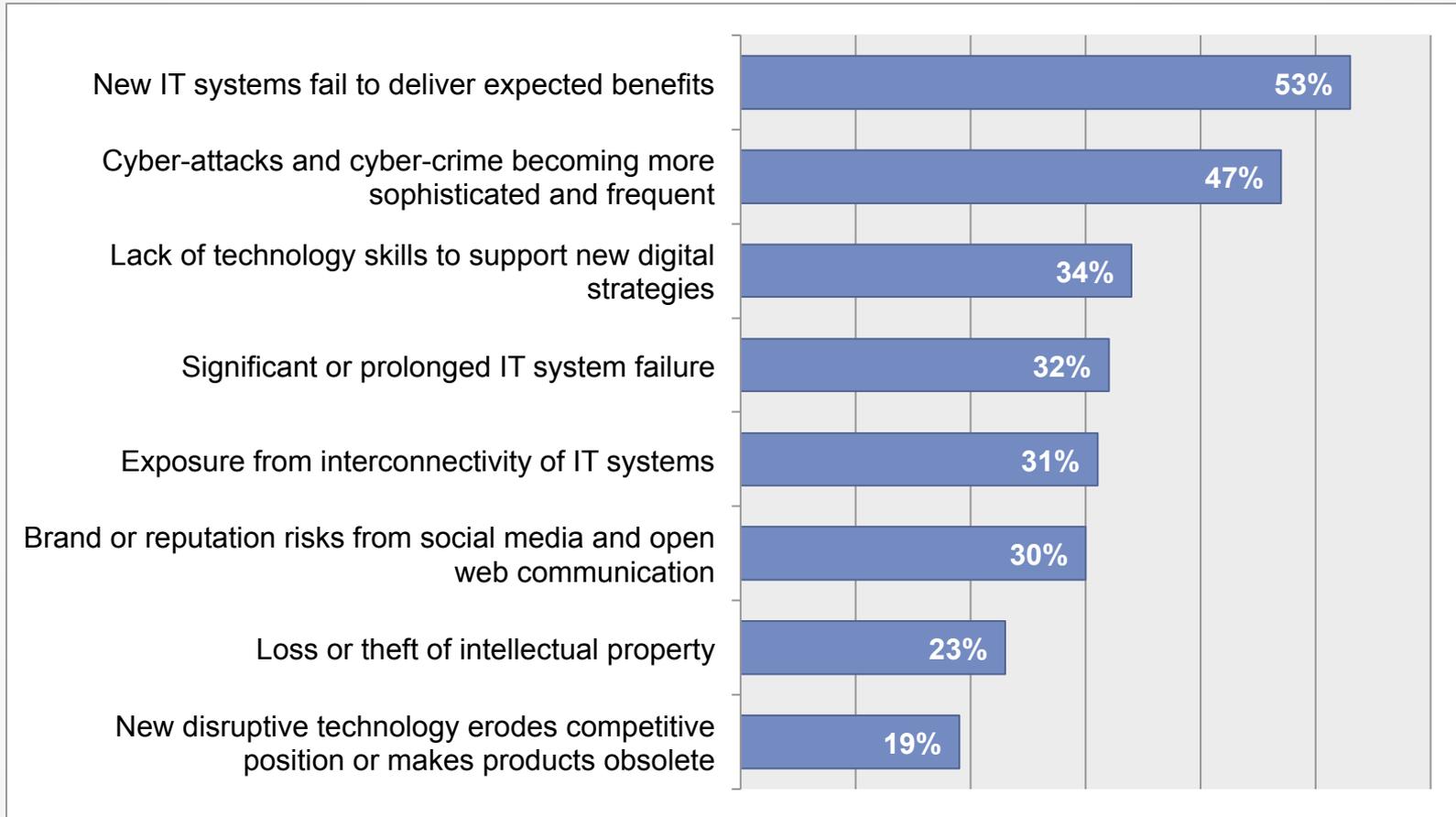
Urbanisation



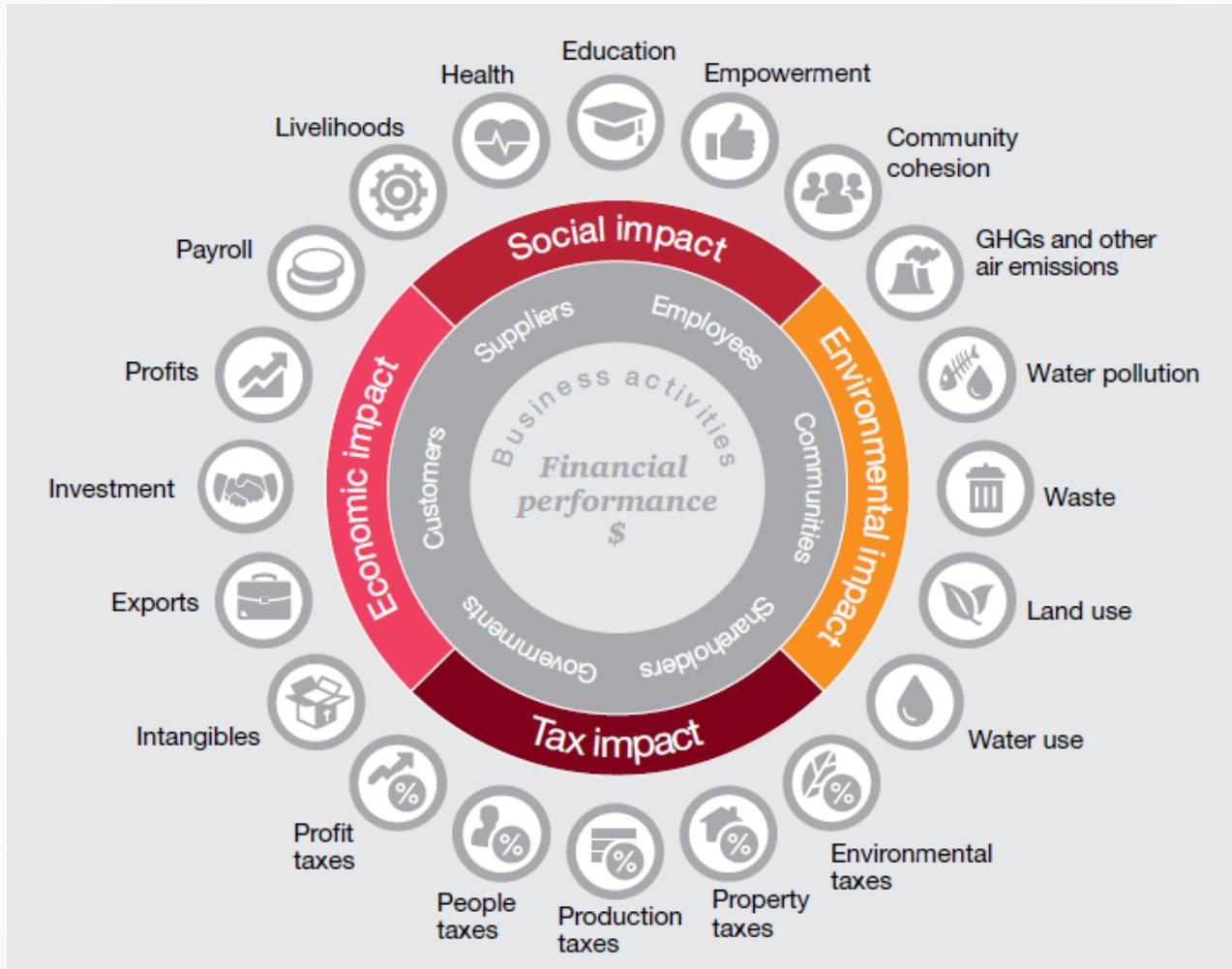
Base: All respondents (1,344)
Source: PwC 17th Annual Global CEO Survey



To what extent do you feel that your organization is at risk from each of the following factors over the next 18 months?



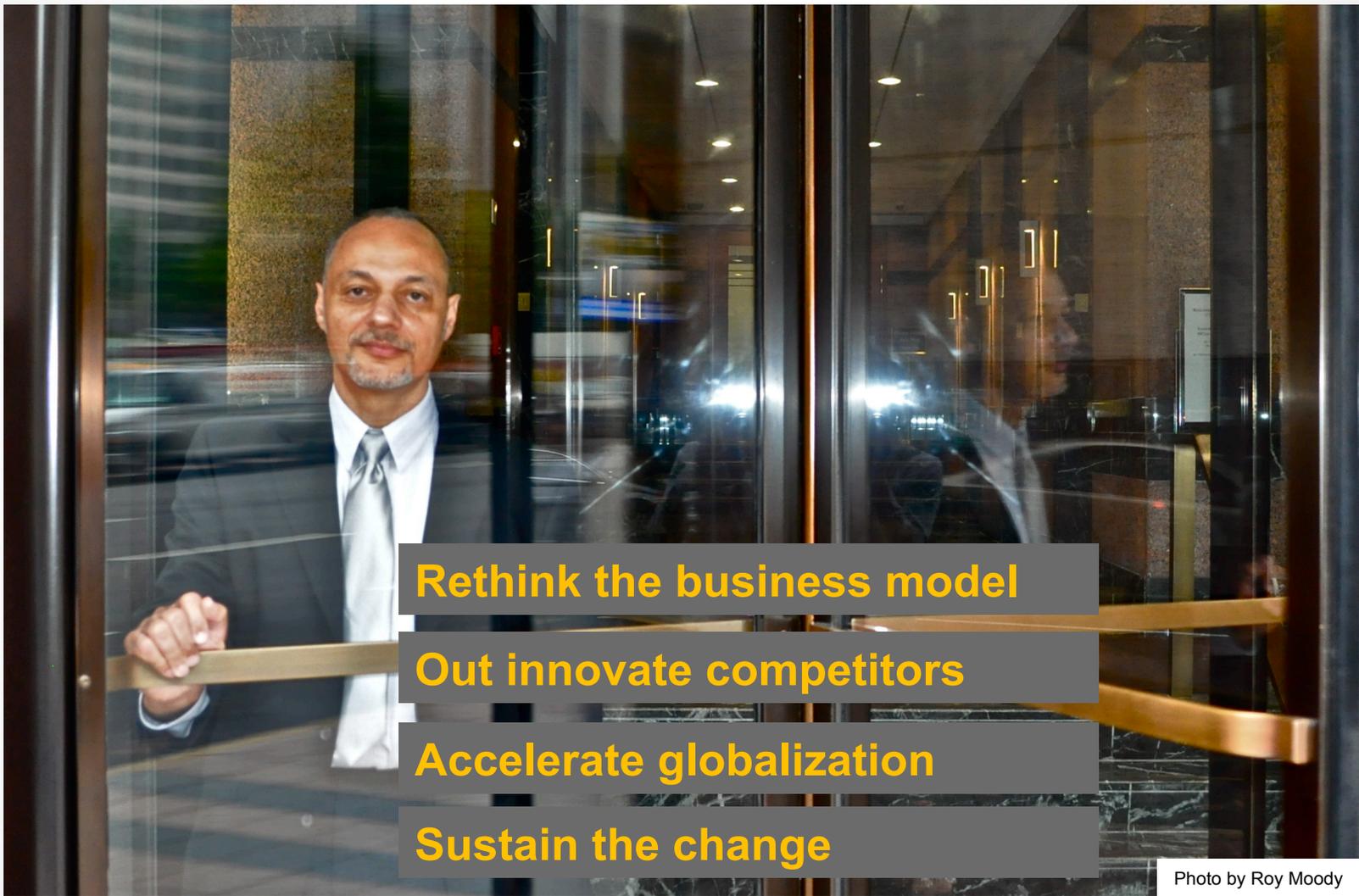
Measuring an organization's total impact helps to show the best route forward



PwC 2014



Change is driving CEOs to...



Rethink the business model

Out innovate competitors

Accelerate globalization

Sustain the change

Photo by Roy Moody



State of Auditing in 2014

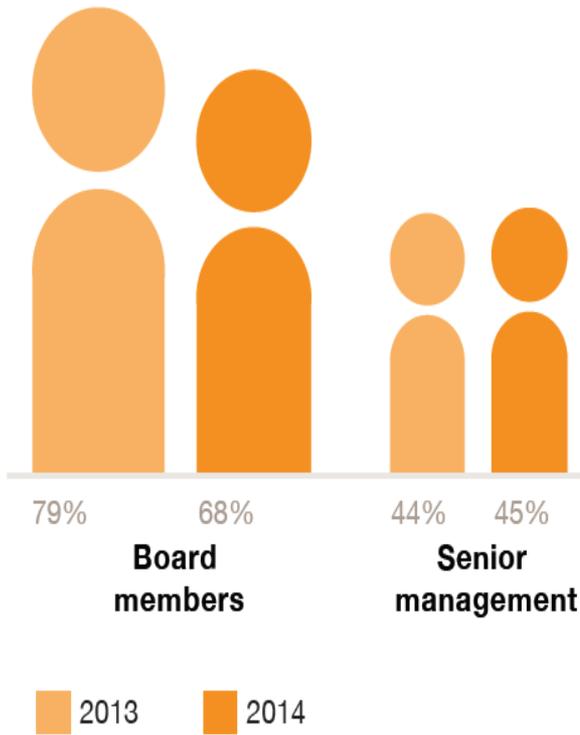
Theme 2:

Perceptions of Audit's value are diverging

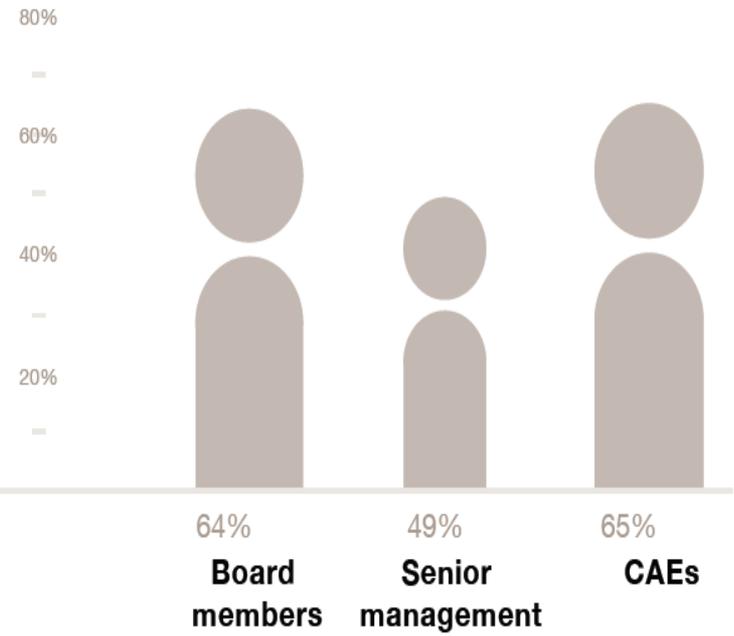


Board members, senior management and chief audit executives (CAEs) perceive Audit differently

Percent of stakeholders reporting internal audit provides “significant value”



Percent of 2014 respondents reporting that internal audit “performs well”¹



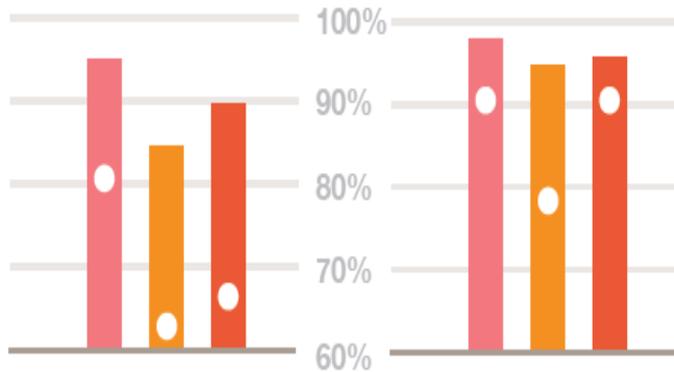
¹Represents the average of “performs well” ratings

PwC 2014



Board members, senior management and CAEs agree on expectations, but differ on how well Audit meets them

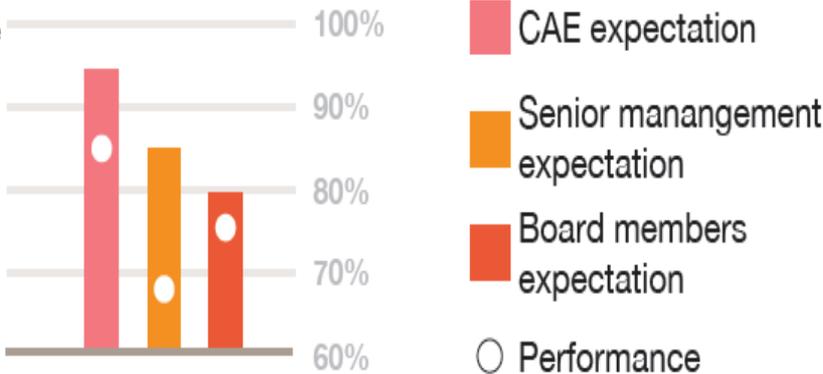
Focusing on critical risks and issues the company is facing



Assessing the effectiveness of the organization's internal controls

Board members (90%), senior management (85%) and CAEs (96%) are aligned on the expectation that internal audit should focus on critical risks and issues facing the company.

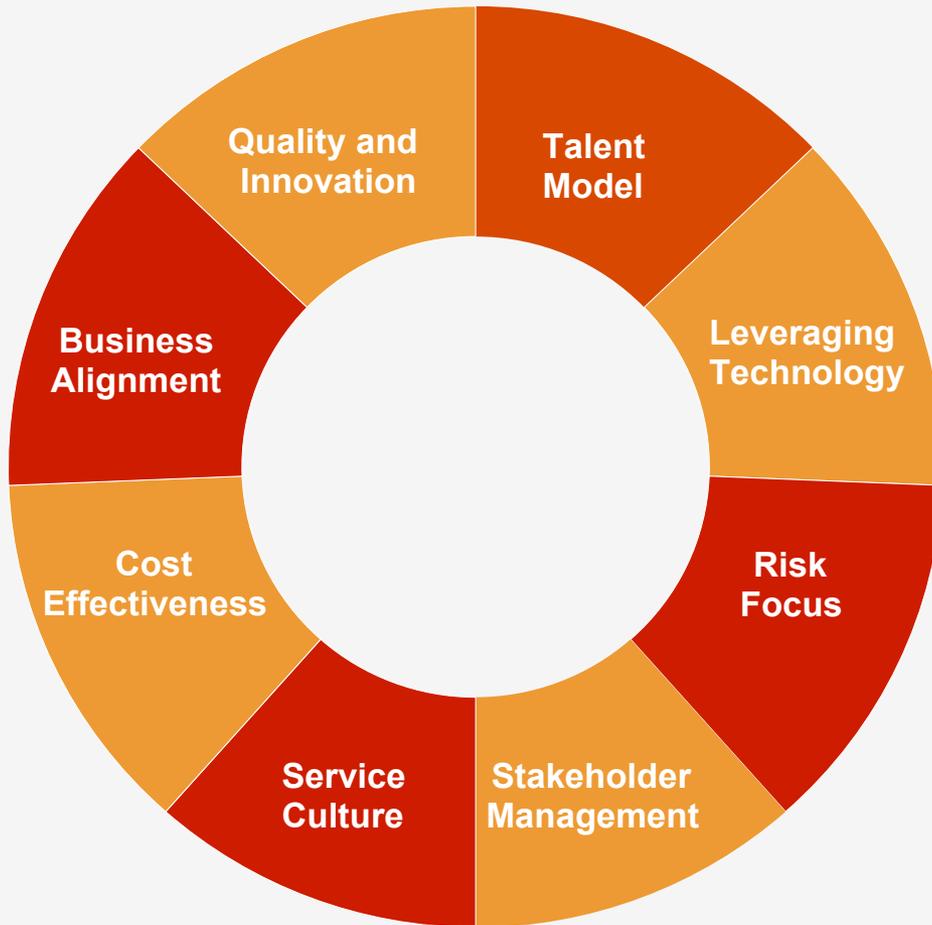
Aligning scope and audit plan with stakeholder expectations



But while 83% of CAEs believe they do this well, only 63% of senior management thinks so.



The top internal audit functions perform at a high level on eight foundational capabilities



More than half (55%) of senior management does not believe internal audit adds significant value to their organization.

Nearly 30% of board members believe internal audit adds less than significant value.

On average only 49% of senior management and 64% of board members believe internal audit is performing well at delivering on expectations.

Board members and management disagree on how well audit performs on 8 key attributes

How well is internal audit performing in each of the following areas?

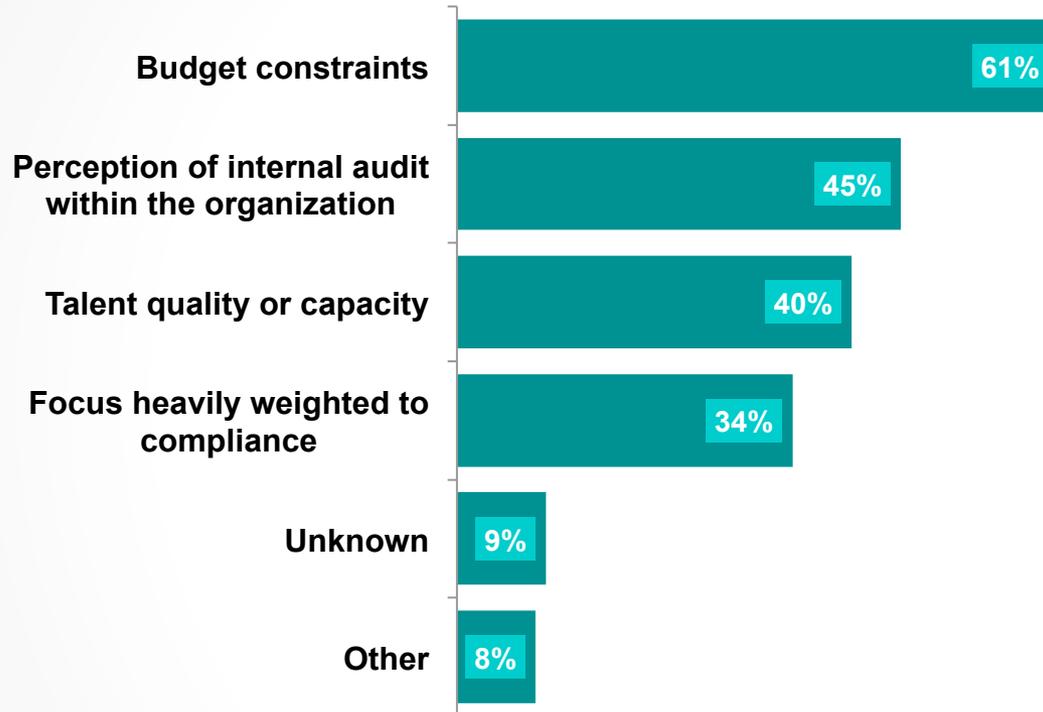


On average, 56 percent of board members rated internal audit's performance as strong, compared with 37 percent of management



Audit is struggling to deliver value

What are the barriers to delivering the greatest value? Select all that apply.



Stakeholders are **most** satisfied with internal audit's contribution in traditional coverage areas such as financial controls and fraud and ethics.

Stakeholders are **least** satisfied with internal audit's contribution in less-traditional areas such as large program assessment, new product introductions, capital project management, and mergers and acquisitions.

Grant Thornton 2014; PwC 2013



State of Auditing in 2014

Theme 3:

Expectations of Audit are changing

Business leaders want **oversight, insight**
and **foresight**, but...

Boards of directors and senior
management may have different
priorities.



Priorities for corporate boards

Understand how technology is continuing to transform the competitive landscape

The convergence of social media, the cloud, mobile devices, and big data – what Gartner calls “**The Nexus of Forces**” – is fundamentally changing the competitive landscape and creating new business opportunities, and the pace of change is accelerating.

The key challenge for boards today is to help shape the company’s strategy and manage the related risks in a business environment undergoing massive change. This requires more than **oversight**. Does the board have **insight** and **foresight** about these technologies and their impact on the business, the industry, and the competitive environment? Are discussions within the traditional boardroom structure sufficient?



Priorities for corporate boards

Recognize that good risk management entails both defense and offense

While a solid defense is essential, more companies today also see good risk management supporting their offense – as a **strategic capability** helping people throughout the organization make smart risk-adjusted decisions, shaping strategy, and adding competitive value.

Set the tone and closely monitor leadership's commitment to that tone, and actively listen to the conversation below senior management and outside the corporate office

Reinforce the right culture – i.e., what the company does, how it does it, and the culture of compliance... Is management actively “listening to the conversation” on **social media** to better understand the **risks**, **opportunities**, and changing attitudes and **perceptions** about the company?



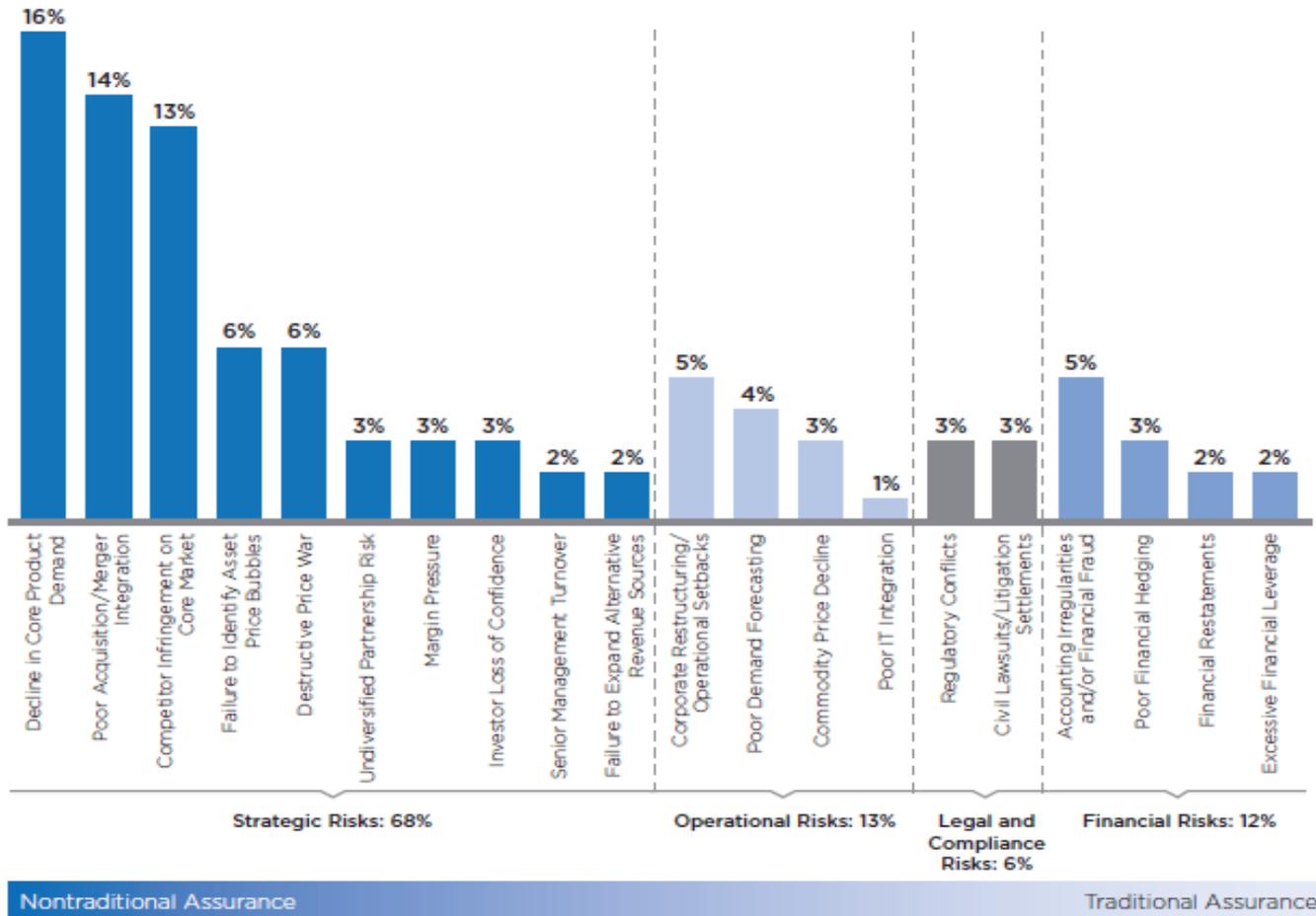
Priorities for audit committees

- Stay focused on job #1: financial accounting and reporting
- Monitor key **regulatory changes** and proposals (potentially) impacting the external auditor's role
- Leverage internal audit as a barometer of the company's financial health – helping the audit committee understand the quality of financial **controls**, processes and people
- Make sure the company's ethics and **compliance** programs are keeping up with new vulnerabilities to fraud and misconduct
- Understand the company's significant tax risk appetite; pay particular attention to the global “tax morality” and “tax transparency” debates, and assess the impact on the company's **brand**



Because risks are changing ...

Market Capitalization Decline Drivers
Top 20% of Fortune 1,000 (1998-2009)



Strategic risks cause **68%** of severe market capital declines.

But the typical audit department spends the majority of its time on traditional assurance activities covering financial and compliance risks.

n = 128.



Expectations of Audit Are changing

In the year ahead, in which of the following areas would you like your internal audit function to devote more of its time and/or sharpen its focus (Select all that apply)?



KPMG, 2014



Chief Audit Executives are coming to their positions from outside the internal audit profession

42%

of CAEs in North America held a position outside of internal audit immediately prior to becoming CAE



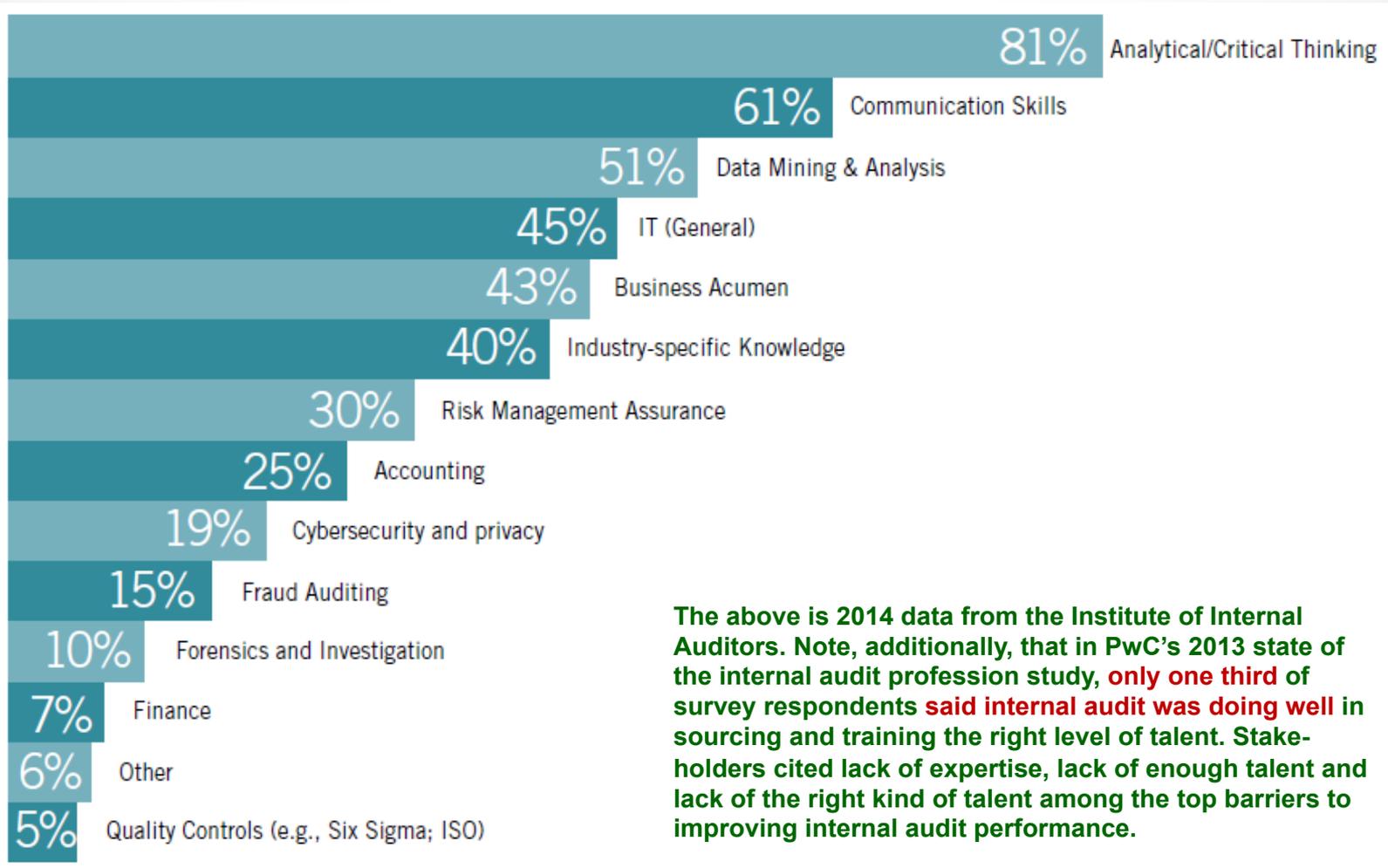
“The bottom line is that internal audit needs people in the CAE chair who understand the business and speak like business leaders.”

Kelly Barrett, VP of Internal Audit and Corporate Compliance, Home Depot

IIA 2014



CAEs are hiring different skill sets



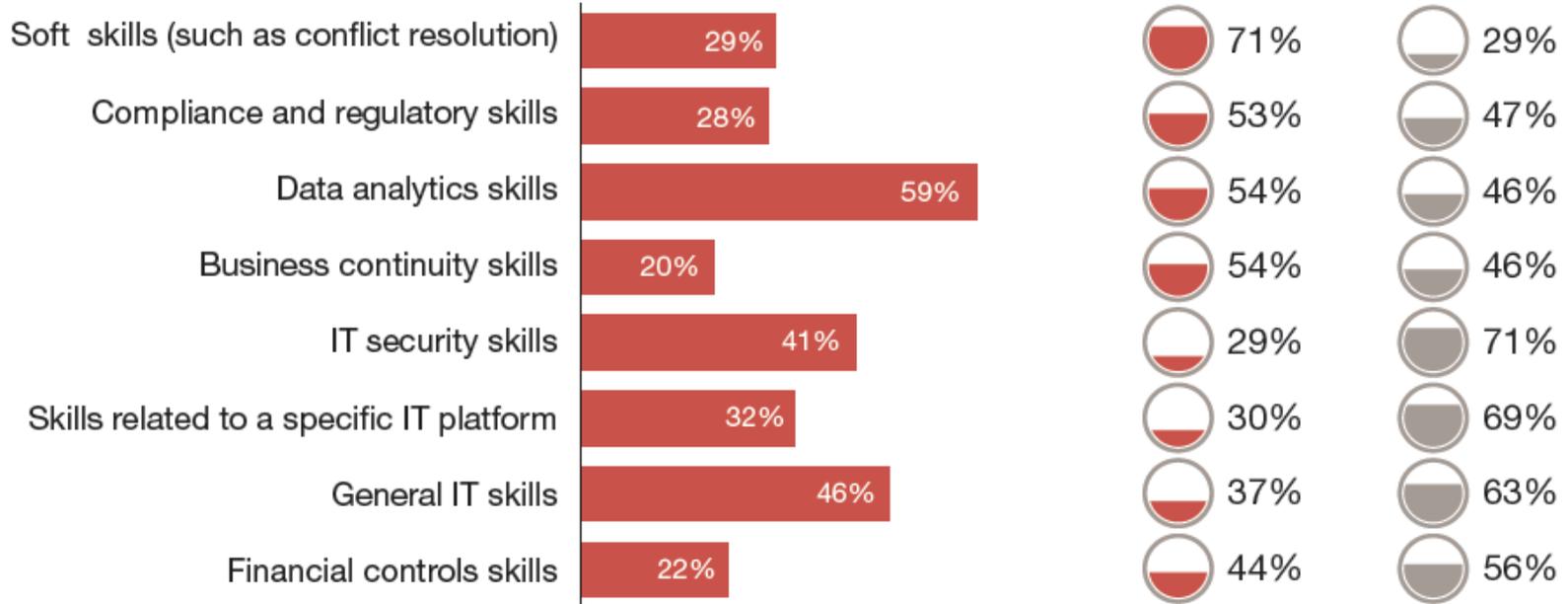
Where Internal Audit Will Get the Talent it Needs

- Reallocate existing resources
- Hire resources or leverage third parties

For each area, will you add internal audit capability over the next 18 months?



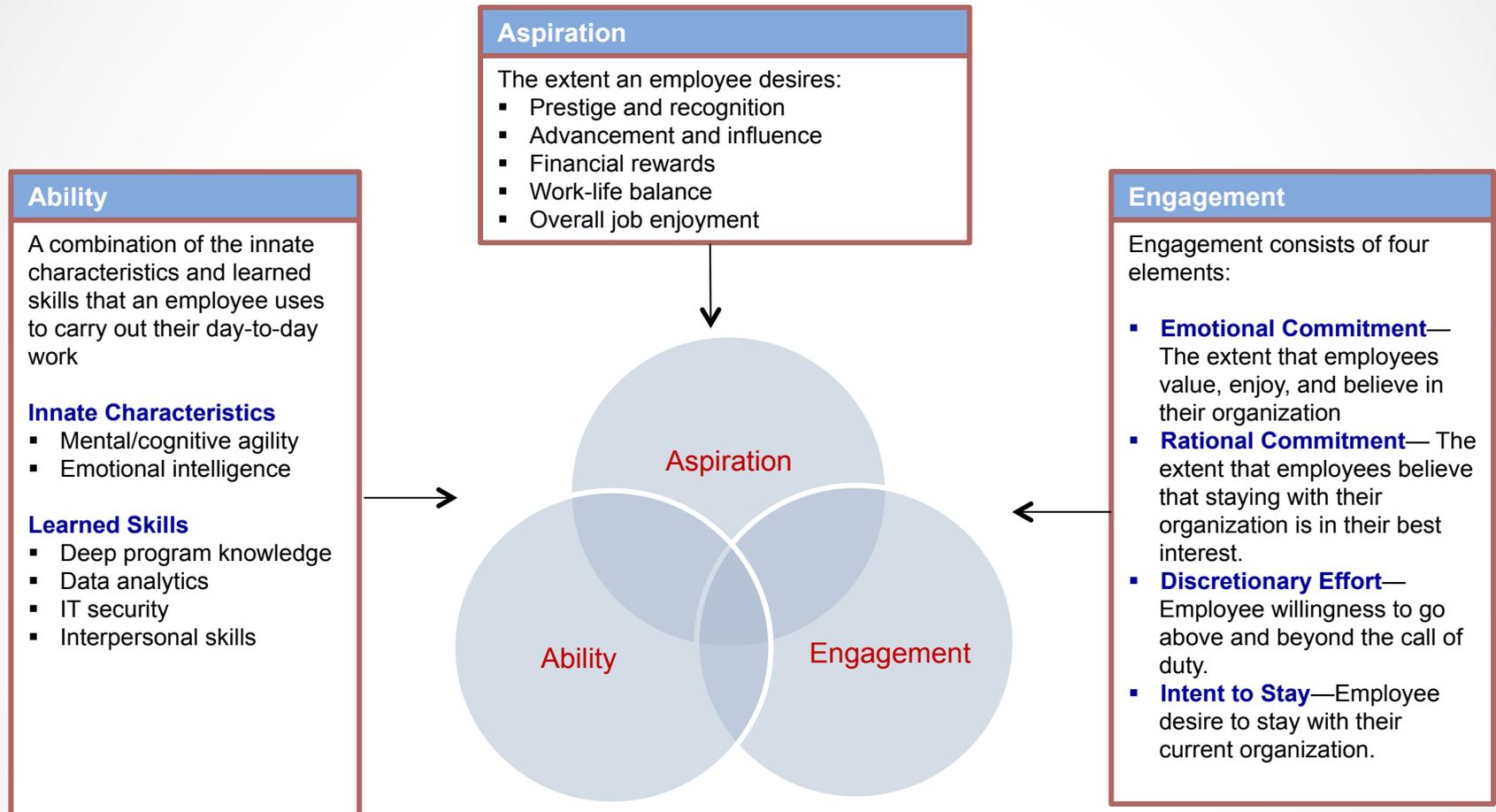
For each area, where will you most likely get the additional talent you need?



Percent of CAEs planning to add internal audit capability

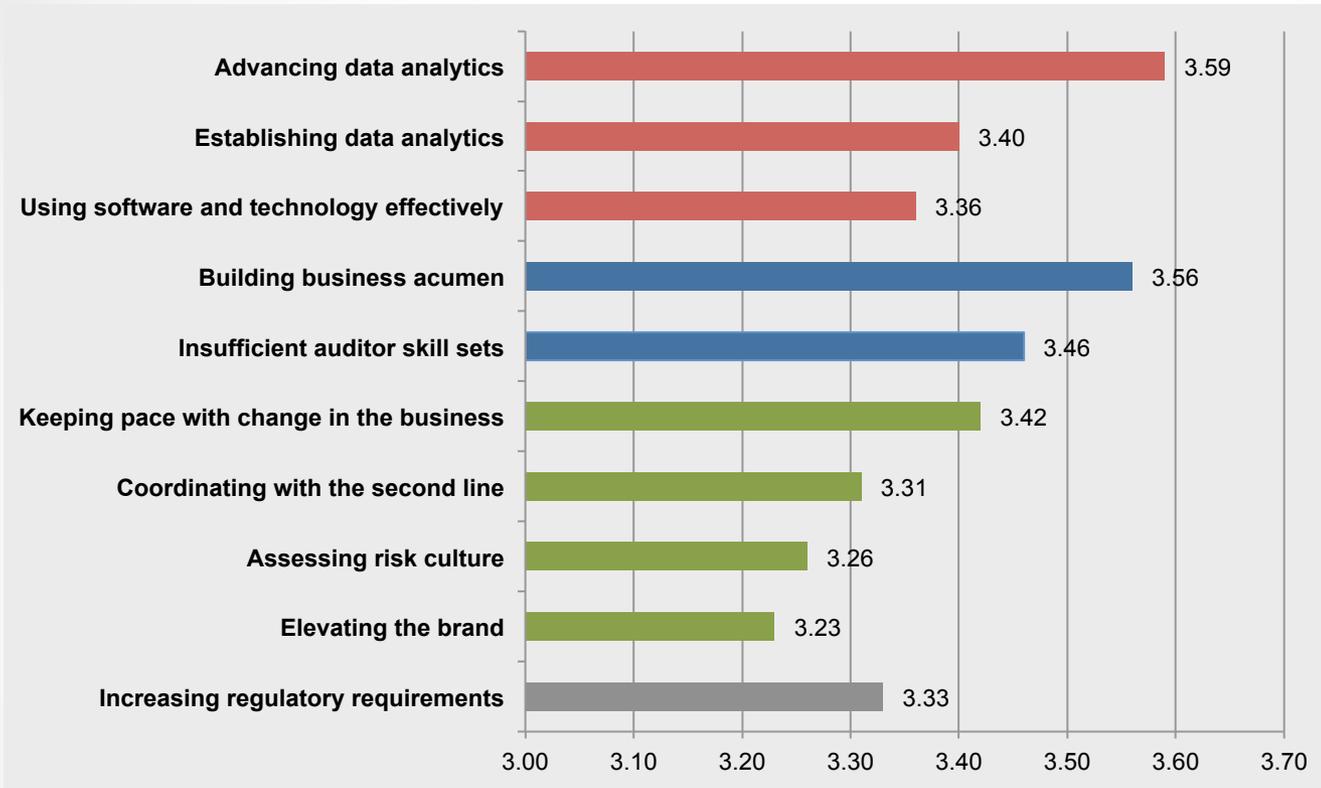


What Makes a High-Potential Employee?



“The true investment in the knowledge society is not in machines and tools but in the knowledge of the knowledge worker.” Peter Drucker, 1994

Top Challenge for Audit Departments in 2015



The top challenge for Audit departments is to advance their data analytics capabilities.

The second and third highest challenges – improving business acumen and garnering sufficient skill sets to cover the organization’s risks – both relate to development of audit talent.

N=117
Scale ranging from 1 (very low) to 5 (very high)

- Audit Technology
- Audit Talent & Skills
- Enterprise Challenges
- External Challenges



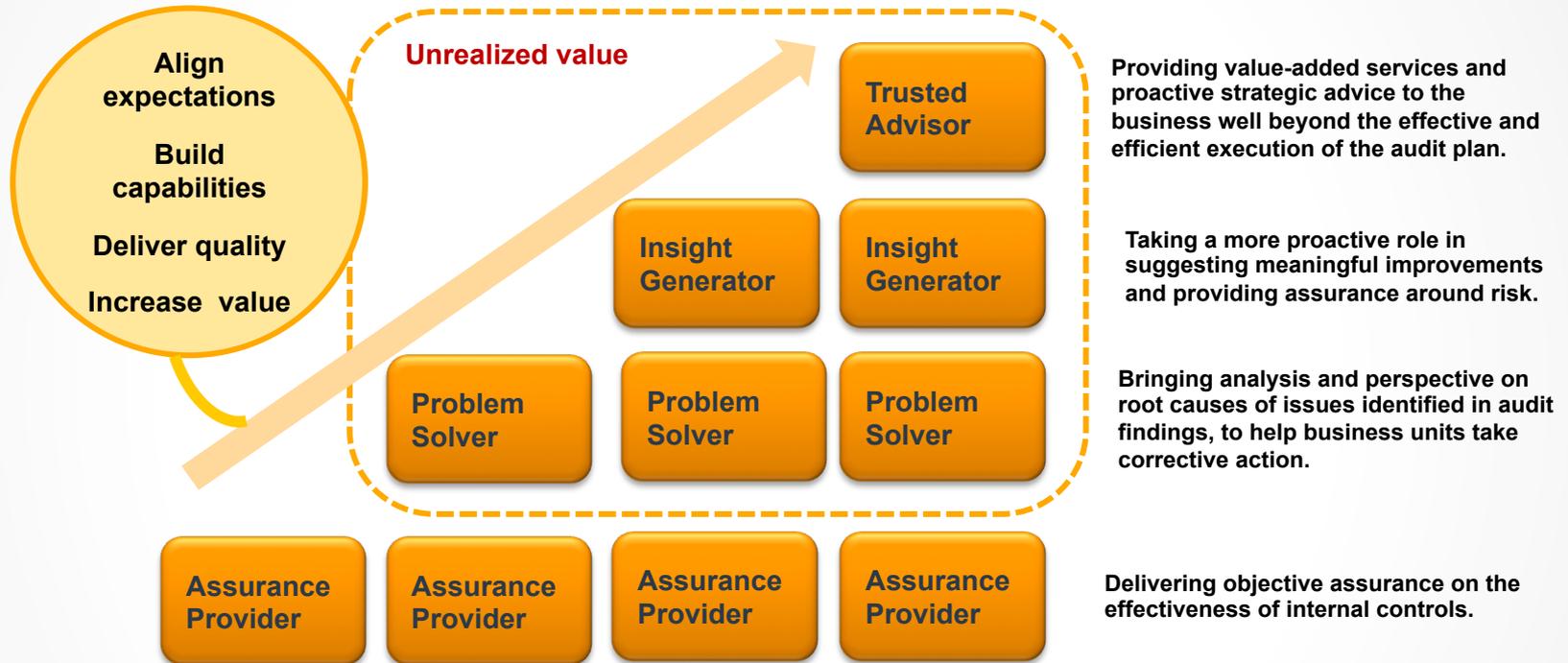
State of Auditing in 2014

Theme 4:

Is Continuous Assurance (data analytics)
the future of the Auditing Profession?



Audit can evolve from assurance provider to trusted advisor



State of Auditing in 2014

Continuous auditing (CA)-

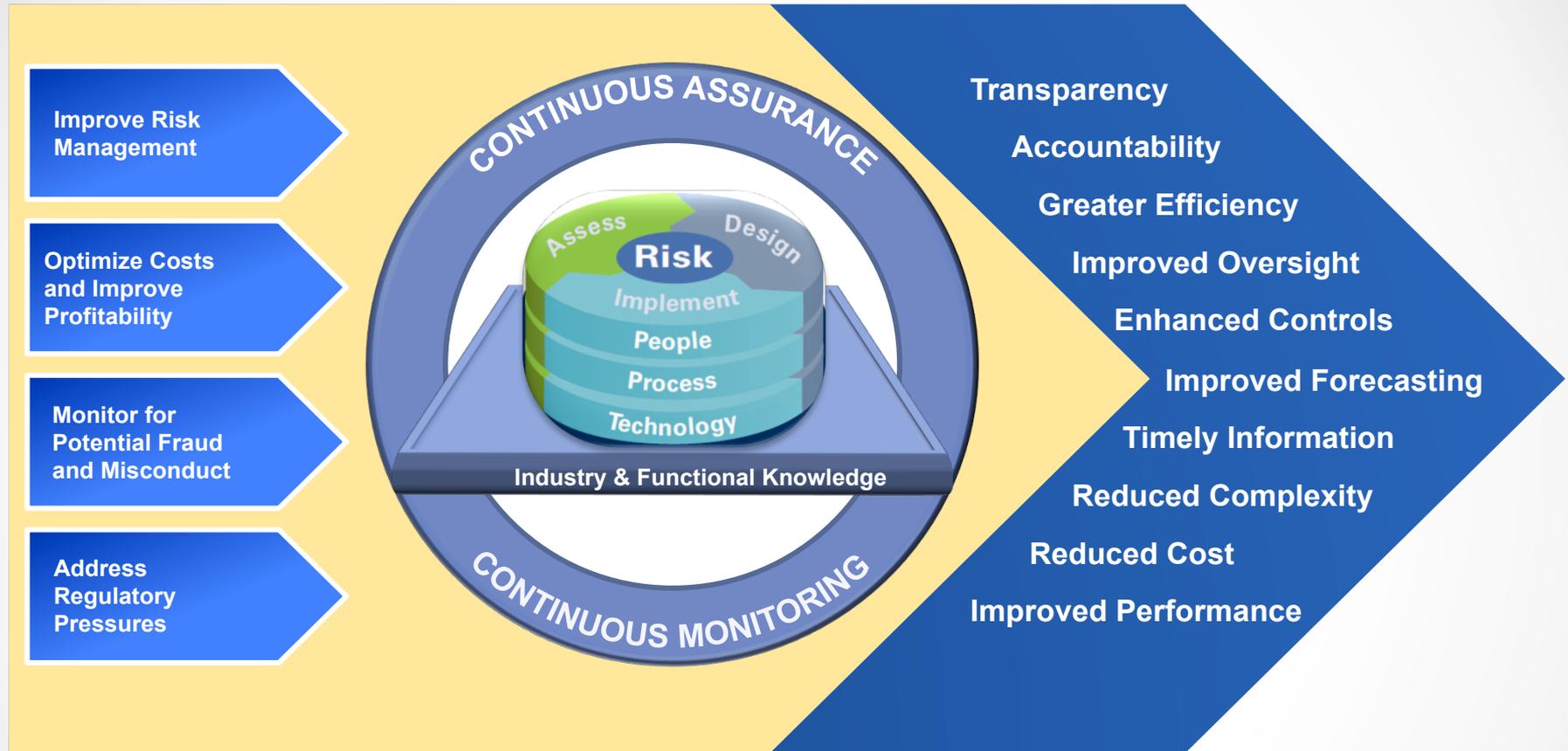
is the collection of audit evidence and indicators by an internal auditor on information technology (IT) systems, processes, transactions, and controls on a frequent or continuous basis, throughout a period.

By contrast, **continuous monitoring (CM)-**

is a feedback mechanism used by management to ensure that controls operate as designed and transactions are processed as prescribed. This monitoring method is the responsibility of management and can form an important component of the internal control structure.



Economic Drivers and Benefits of Implementing CA/CM Capabilities



Process optimization is the objective, with sustainable cost savings the result.

KPMG 2009



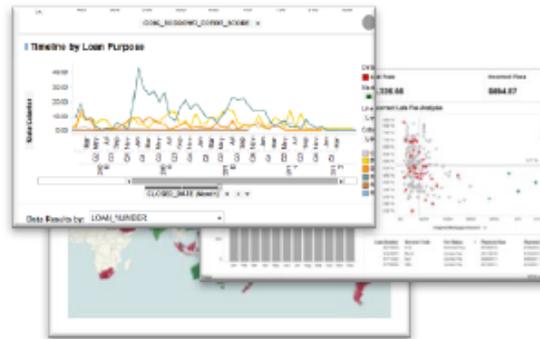
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Characteristics of analytics today

Analytics: discovery and communication of meaningful patterns in data

Big data: collection of large and complex data sets

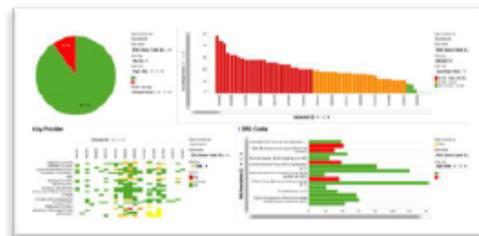
Visualization



Trending & Comparison



Dashboarding



Data

Financial,
Operational,
IT Systems
External

Speed and portability: available anytime, anywhere



PwC 2013



The state of analytics in auditing

Analytics are widely viewed as important

81%

Data analytics are important to improving the quantification of issues

85%

Data analytics are important to strengthening audit coverage

74%

Data analytics are important to gaining a better understanding of risks

Yet few are using analytics regularly

31%

Data analytics are used regularly

And most intend to, yet lack a plan

71%

Plan to expand use of data analytics but do not have a well developed plan

PwC 2013



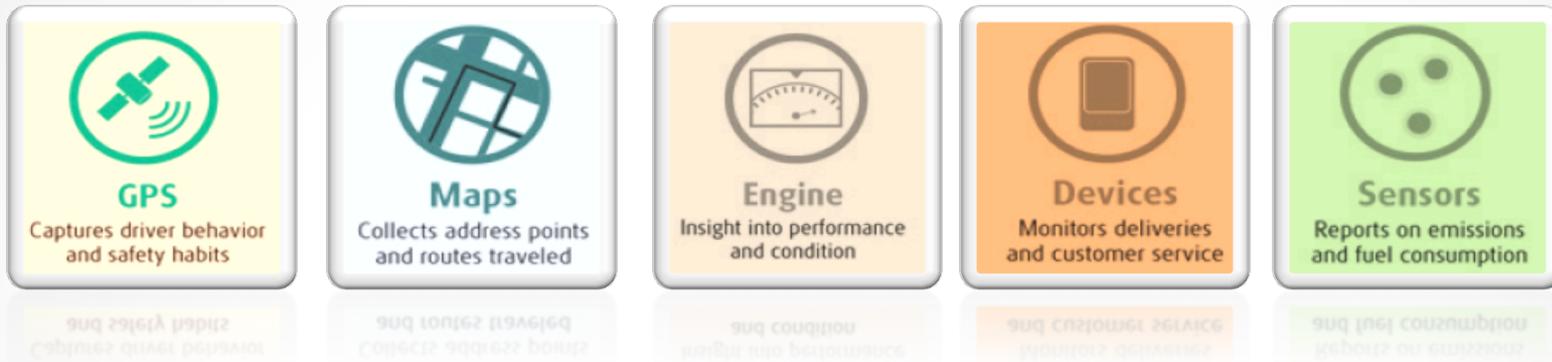
Four types of analytics

Type	Description
Descriptive: What Happened?	Descriptive models about the state of events, trends, patterns and relationships in existing data. There is no dependent variable to predict.
Diagnostic: Why did it happen?	Developed to understand the causes of an outcome; can be used to account for dependencies among causal factors.
Predictive: What will, or is likely, to happen?	Predict values of one or more dependent variables from independent variables; support leading performance measures.
Prescriptive: What is the recommended next action?	Define the best response, given that an event or series of events has taken place.

KPMG 2014



How United Parcel Service Uses Analytics



Sensors that capture over 200 data points for more than 80,000 “telepathic trucks” are downloaded every day. Results:

- 364 million miles avoided since 2001 – enough to drive around the Earth 14,617 times!
- 206 million minutes of idle time reduced in 2012.
- 39 million gallons of fuel saved through route optimization since 2001.
- 13,000 tons of carbon emissions avoided in 2012.



State of Auditing in 2014

What about the Postal Service and the OIG?

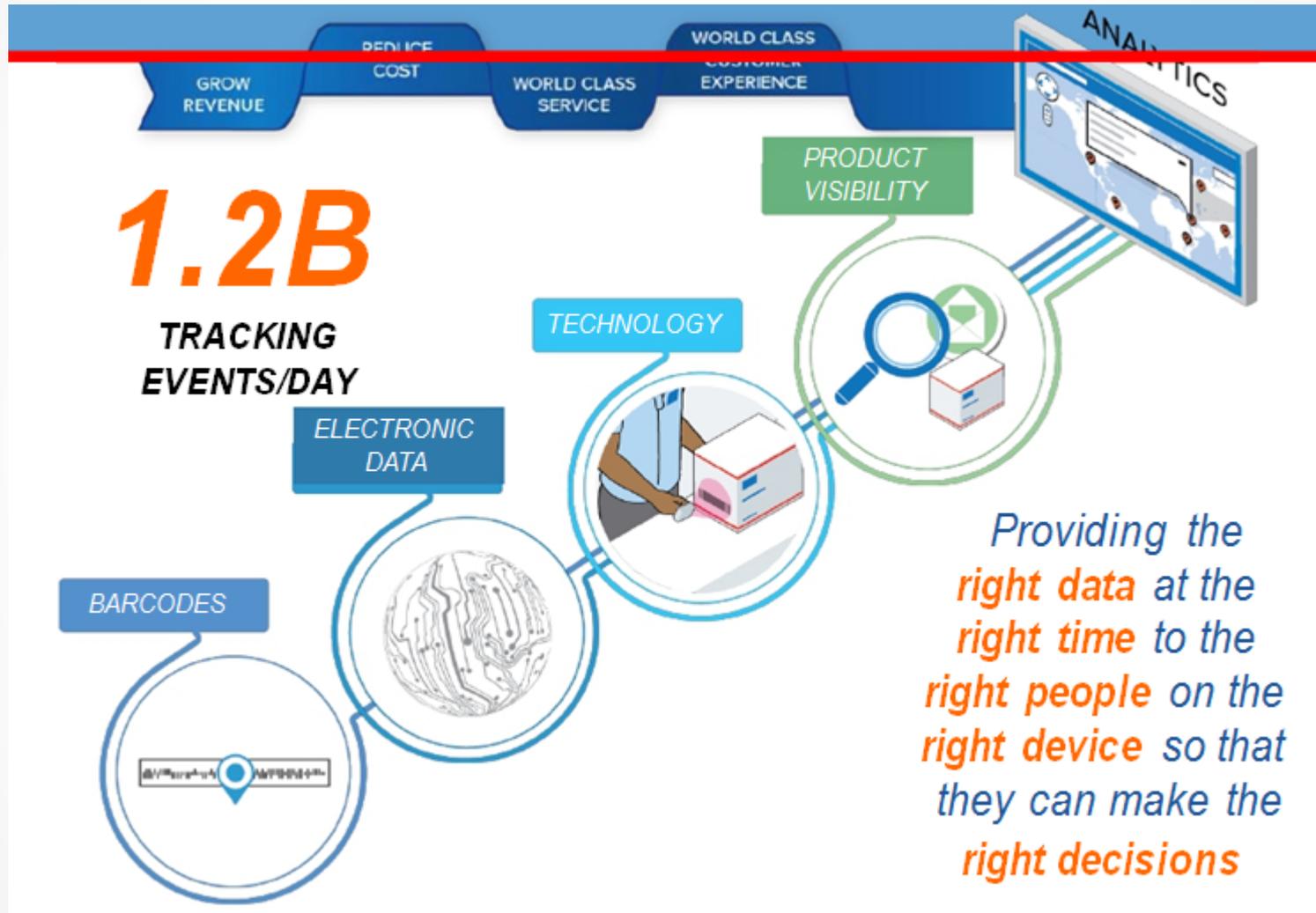




The Postal Service is experiencing the same forces as its customers, and responding by transforming itself with technology.



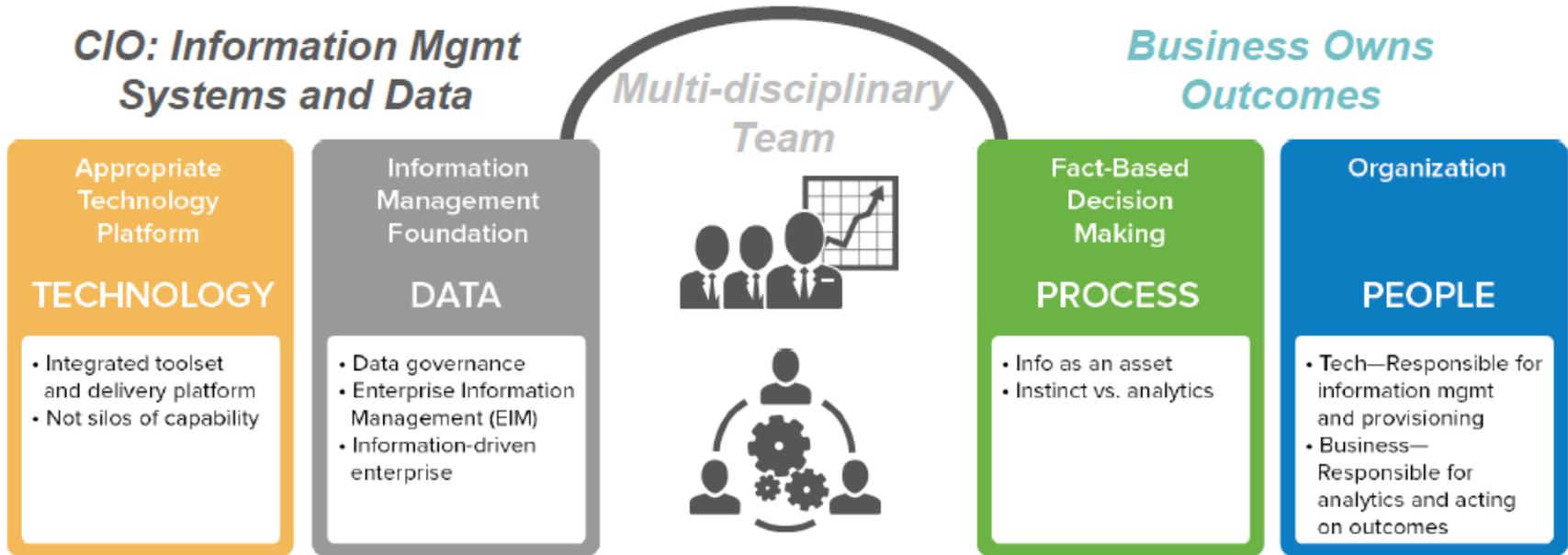
Postal Service Journey to Enterprise Analytics



USPS 2014



Postal Service Journey to Enterprise Analytics



Technology is not the only factor in our Analytics Strategy

USPS 2014



Postal Service Journey to Enterprise Analytics

Mailer Scorecard				
Mailer Profile	Verifications			
	Electronic Verification	eInduction	Seamless	
# Metrics	# Trending	% Metrics	% Trending	
Seamless				
eDoc Submitter	Total	Test Mailer 1	Test Mailer 2	
CRID Seamless Status	N/A	Parallel	N/A	
# Seamless Acceptance Jobs	6,409	6,401	8	
# Bypass Seamless Acceptance Jobs	--	--	N/A	
# Seamless Acceptance Containers	9,474	9,286	188	
# Seamless Acceptance Handling Units	939	791	148	
# Seamless Acceptance Pieces	45,936	22,120	23,816	
# Seamless Acceptance Jobs not Auto-Finalized	12	4	8	
# Undocumented Pieces	--	--	--	
# Nesting/Sortation Seamless Errors (MPE)	7	7	--	
# Nesting/Sortation Seamless Errors (eDoc)	64	64	--	
# Entry Facility Seamless Errors	118	118	--	
# DPV Errors	2	2	--	
Postage Adjustment Factor (PAF)	N/A	1,000	N/A	
Additional Postage Due (Through Manual Sampling) - Info Only	N/A	--	\$0.00	
Additional Postage Due (Content Errors) - Info Only	--	--	N/A	
Additional Postage Due (Through MPE) - Info Only	--	--	N/A	
Additional Postage Due (Undocumented Pieces) - Info Only	N/A	N/A	N/A	
Sampling Compliance Validations				
# Containers Sampled	21,130	21,130	N/A	
# Handling Units Sampled	813	813	N/A	
# Pieces Sampled	9,248	9,248	N/A	
# Mail Characteristic Errors	182	182	N/A	
# Nesting/Sortation Errors	69	69	N/A	
# Barcode Quality Errors	53	53	N/A	
# Weight Piece Errors	11	11	N/A	
# Postage Piece Errors	27	27	N/A	

Mailer Scorecard Seamless Acceptance

The Mail Entry Roadmap describes the Postal Service's key initiatives to streamline the acceptance, induction, and verification of commercial mailings. These key initiatives leverage existing technology to:

- Improve mail quality by sharing information on mail preparation, identification of trends as well as trend-based quality measurements
- Simplify the induction of mailings through automated and standardized acceptance, verification, and induction processes
- Provide end-to-end visibility through scan data.



Just when you think you have it all together...

U.S. Postal Service Says It Was Victim of Data Breach

Personal Information of More Than 800,000 People Could Be Compromised

Employees, some retirees and staffers of the Postal Regulatory Commission, the U.S. Postal Inspection Service and the Postal Service **Office of Inspector General** have been affected, the Postal Service said. An unknown number of customers also could have been affected, though not to the same degree, officials said.



Dashboard



Where Does OIG Need More Real-Time Insight?

Nexus of Forces



New business scenarios emerge as new technologies converge and mutually reinforce each other...



OIG Countermeasures and Performance Evaluation Team Collaborative Approach

Business Customer

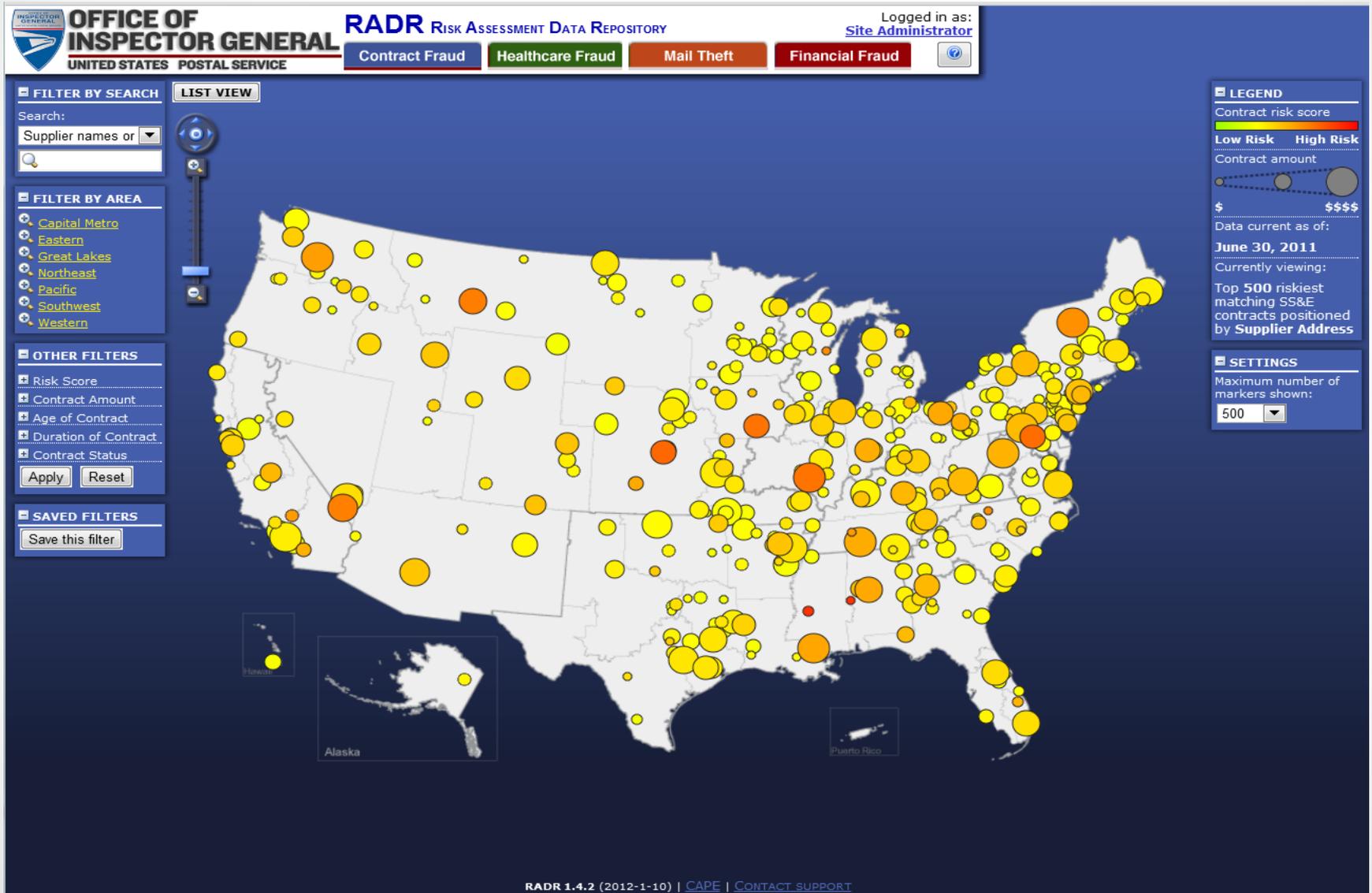
- Provides business question
- Joins modeling team
- Describes success
- Defines value
- Owns completed model
- Claims model result

CAPE

- Develops model technology
- Drives modeling team
- Shows what success looks like
- Builds valuable model
- Delivers model
- Claims model delivery



OIG Analytics: Contract Fraud, Map View



OIG Analytics: Contract Fraud List View

Link analysis.

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UNITED STATES POSTAL SERVICE

RADR Risk Assessment Data Repository

Logged in as: [Site Administrator](#)

Contract Fraud
Healthcare Fraud
Mail Theft
Financial Fraud

Completion: - 04/01/2014

FILTER BY SEARCH

Search:

Supplier names or

FILTER BY AREA

- Capital Metro
- Eastern
- Great Lakes
- Northeast
- Pacific
- Southwest
- Western

OTHER FILTERS

- Risk Score
- Contract Amount
- Age of Contract
- Duration of Contract
- Contract Status

Apply Reset

SAVED FILTERS

Save this filter

MAP VIEW Contract 9HBMJU78M0027

Contract ID	Supplier	Amount	Mods	Current CO	Start/Sched. Completion
64	SOLUTIONS & EXCAVATING ELLIS	\$60,495,844.00	32	WILLIAMS, LOREN	03/17/2004 - 08/31/2011

PERSON SUMMARY

YOUNG, ELAINE

18 Contracts \$1,220m

Riskiest Contracts

64	9HBMJU78M0027	\$60m
54	2JAYUJ64D6783	\$341m
51	7GSVPC26J6596	\$391m

Contract risk

Low High

Contract size

\$ \$\$\$\$

Other markers

- Supplier
- Person

RISK PROFILE

Total score for 9HBMJU78M0027: **64.4**

DOLLAR: 10.0

Contract size: 10.0

PY13: 10.0

Same invoice diff checks: 10.0

PY16: 10.0

Line amts not equal invoice amt: 10.0

MC02: 8.0

Contracts with similar risk

68	0FFPSDI43F7921	\$27m
70	4ZMUPA42K2667	\$35m
65	4YPKMI69C9779	\$68m

SUPPLIER SUMMARY

SOLUTIONS & EXCAVATING ELLIS

TIN: 197797426

46782 North Road, Suite 9719

Jean, NV 89026

7 Contracts \$235m

Riskiest Contracts

64	9HBMJU78M0027	\$60m
39	5WLOHF84A6170	\$98m
35	1ZCRLK47K9707	\$47m

CO SUMMARY

WILLIAMS, LOREN

Office in Huntsville, AL 35806

Authorized for \$10,000,000

Non-compete: \$250,000

5 Contracts \$908m

Riskiest Contracts

64	9HBMJU78M0027	\$60m
54	2JAYUJ64D6783	\$341m
45	3WAQYK09K1615	\$67m

61	Contract 4TSFGP54U2231	Supplier: COLUMBIA WELDING SMITH TRANSPORTATION AND	Amount: \$0.00	Mods: 13	Current CO: BAKER, JOSHUA	Start/Sched. Completion: N/A - N/A
61	Contract 80PNSF83F7832	Supplier: SERVICES ENGINEERING	Amount: \$0.00	Mods: 11	Current CO: JACKSON, LORI	Start/Sched. Completion: 01/13/2000 - N/A

Results 1 - 10

RADR 1.4.2 (2012-1-10) | CAPE | CONTACT SUPPORT

Click on the links to see more information appear in the upper left corner.

Sources

Author	Survey Title	Participants	Interviews	Industries	Countries
KPMG	2014 Global Audit Committee Survey	1500			34
PwC	2014 17th Annual Global CEO Survey	1344	1344		68
	2014 state of the internal audit profession study	1920	125	24	37
	2014 the five behaviors that accelerate value from digital investments; 6 th annual digital IQ survey	1494	n/a	11	36
	2014 risk in review: re-evaluating how your company addresses risk	1940			37
	2013 state of the internal audit profession study	1730	140	18	60
	2013 global innovation survey: Breakthrough Innovation and Growth	1757	1757	30	25
Protiviti	2014 Internal Audit Capabilities and Needs Survey: Assessing Top Priorities for Internal Audit Functions	600		19	7 continents
	2014 IT Priorities Survey, Today's IT Organization – Delivering Security, Value and Performance Amid Major Transformation, March 2014	1100		16	
IIA	2014 North American Pulse of the Profession Survey	367	24	26	3
Grant Thornton	2014 Chief Audit Executives Survey, Adding internal audit value: strategically leveraging compliance activities	433		11	
AGA	AGA's Inspector General Survey: Effective Oversight in a Changing Environment Sept 2013				



Sources

	Other Documents
Author	Title
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KPMG	On the 2014 Agenda: Insights from the 10th Annual Audit Committee Issues Conference
	Audit Committee Priorities for 2014
KPMG	Business Intelligence of the Future
	Next Generation IT Operating Models
	The Transformation of IT Risk Management
	Evolution of IT: How Do You Define Innovation?
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	Predicts 2014: Nexus of Forces Drives Evolution of Integration Strategy, Nov 2013
Deloitte	Analytics Trends in 2014
COSO	Improving Organizational Performance and Governance: How the COSO Framework Can Help, Feb 2014
	Enterprise Risk Management: Understanding and Communicating Risk Appetite, Jan 2012
CEB	High-Potential Employee (HIPO) Development: “Best of CEB on Talent” Series Guidebook, Corporate Executive Board, 2013
CEB	Next-Generation Auditing: Building the Audit Plan from Strategic Objectives, 2010



Questions?

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