



2015 Cost of Data Breach Study: Impact of Business Continuity Management

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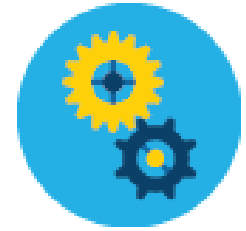
Presented by Dr. Larry Ponemon

Toronto: November 3, 2015

The 2015 Cost of Data Breach Study: Global Analysis—definitions and key facts.

- **Data breach:** An event in which an individual's name plus a medical record or financial record or debit card is potentially at risk
- **Data record:** information that identifies the natural person (individual) whose information has been lost or stolen in a data breach
- **Incident:** For this study, a data breach involving between 2,200 to slightly more than 101,000 compromised records
- **Participants:** Organizations that experienced a data breach within the target size range
- **Benchmark research:** The unit of analysis is the organization; in a survey, the unit of analysis is the individual

350 organizations



16 industries

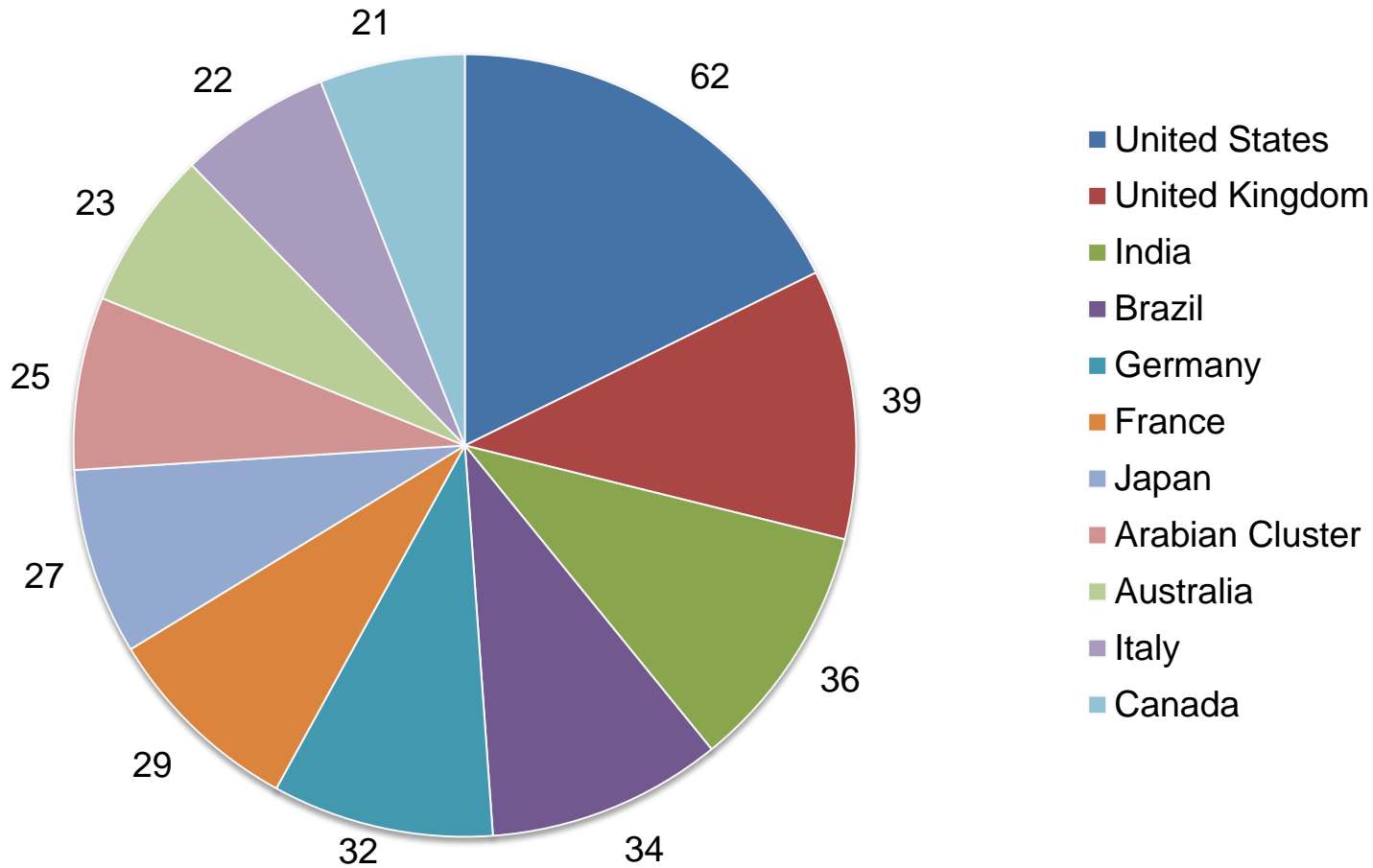
11 countries



A mega-breach of more than 100,000 records is not considered typical. The cost data in this study cannot be used to calculate the financial impact of a mega-breach.

Frequency of benchmark samples by country

Consolidated view (n = 350)



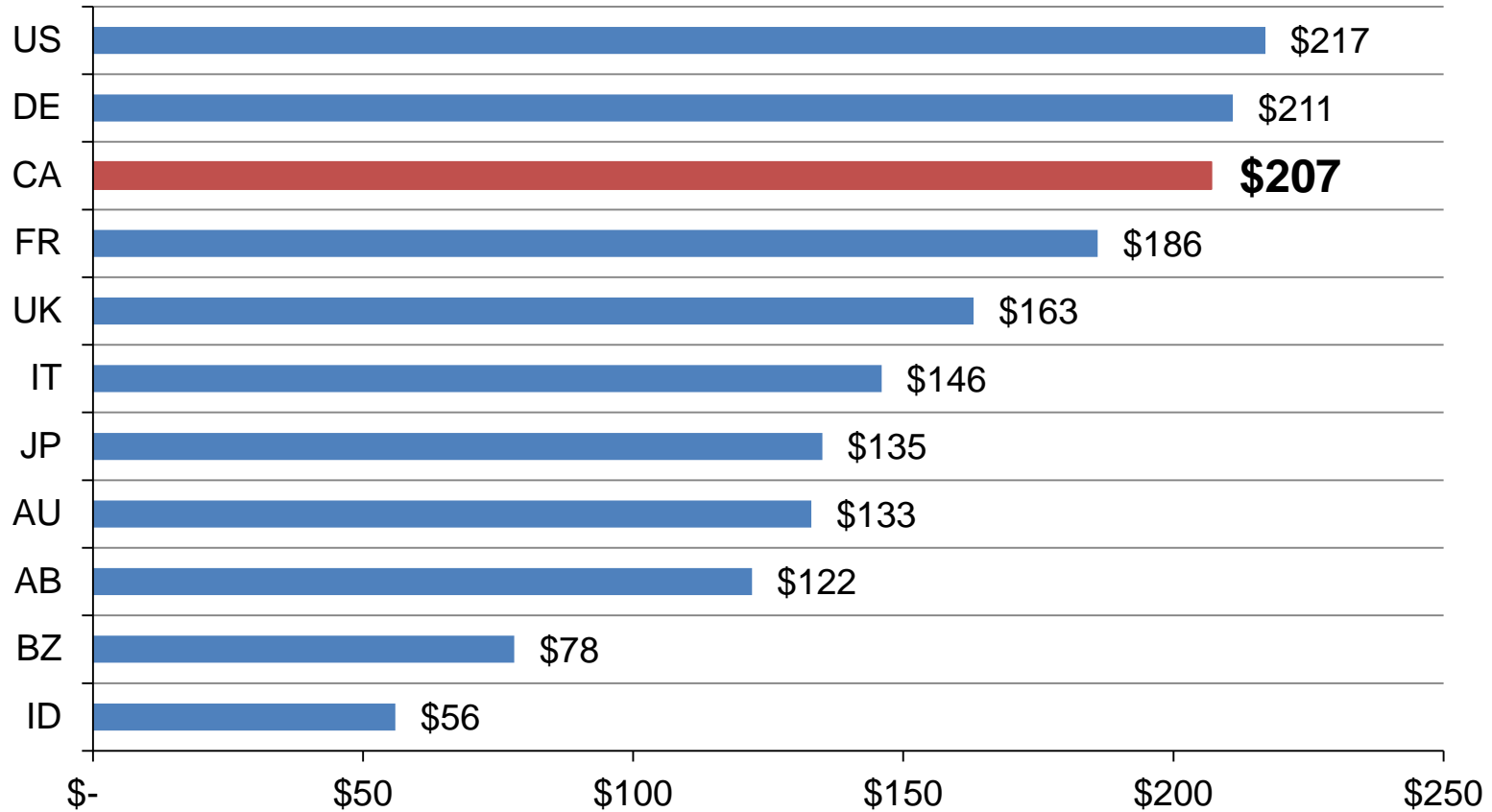
What are the key findings this year?

Global study introduction

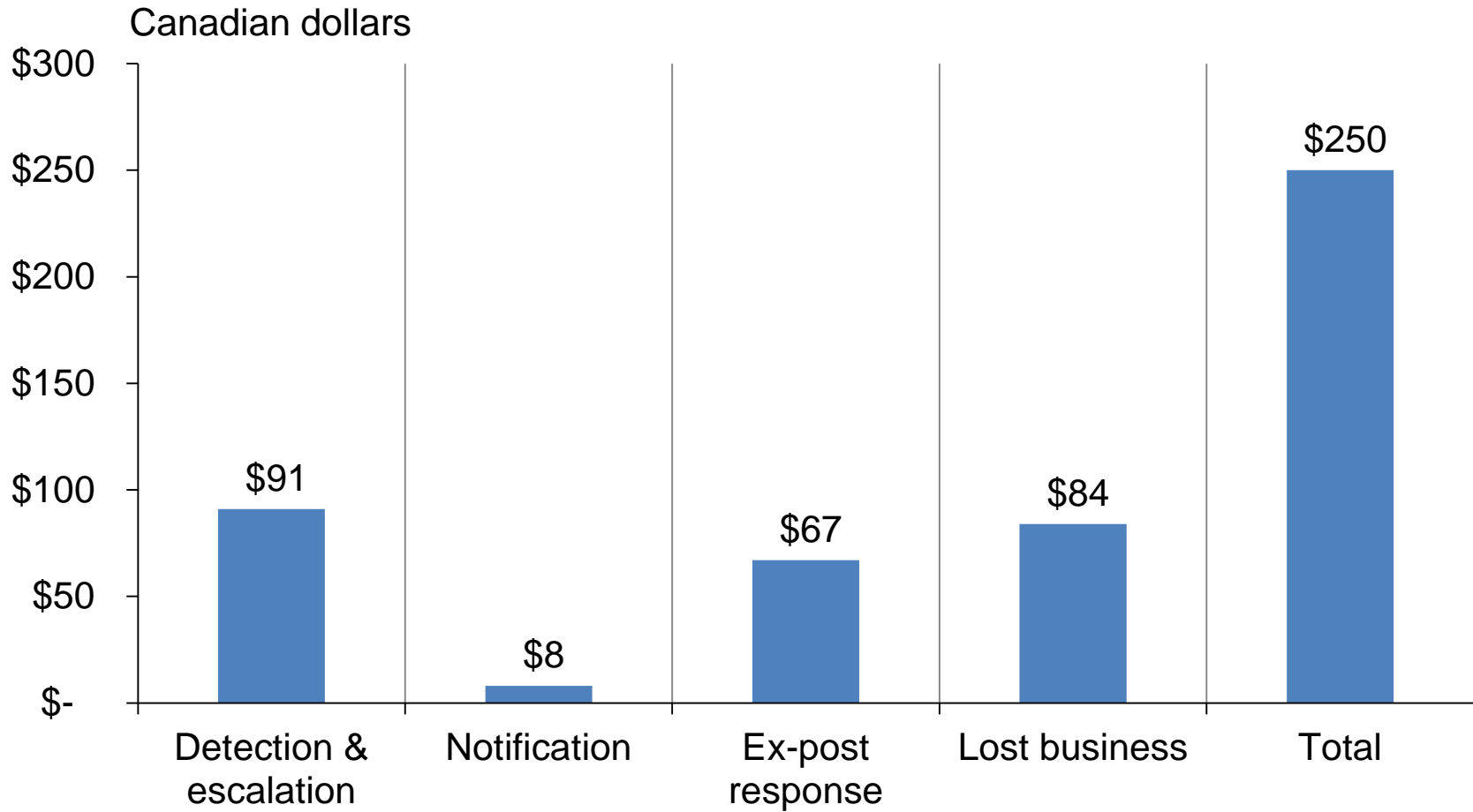
- 350 companies in 11 countries
- Canada added for the first time
- 16 industry sectors
- \$3.79 million is the average total cost of data breach
- 23% increase in total cost of data breach since 2013
- \$154 is the average cost per lost or stolen record
- 12% percent increase in per capita cost since 2013

Per capita data breach cost for 11 countries

U.S. dollars

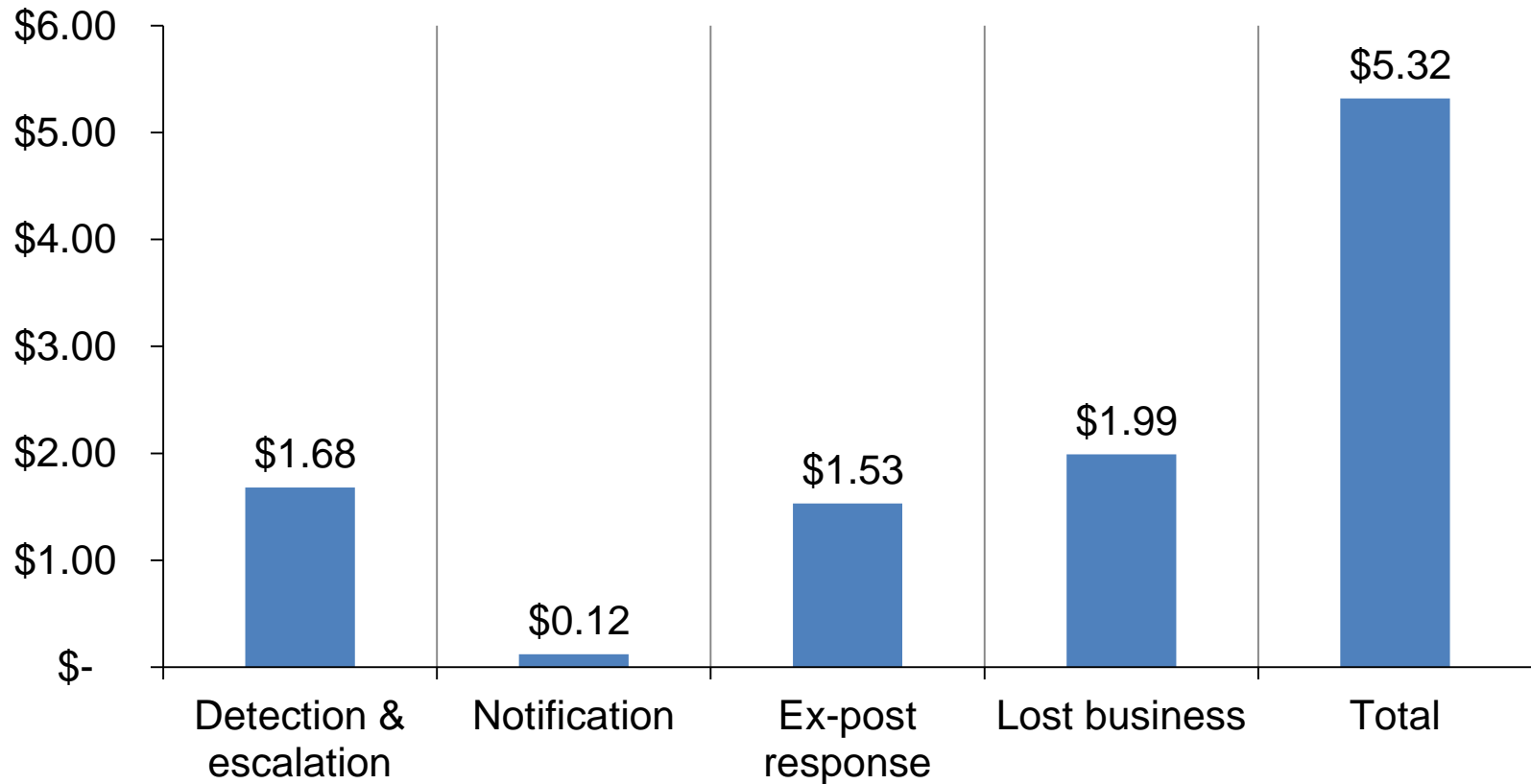


Canadian per capita data breach cost



Canadian total average data breach cost

Canadian dollars (\$1,000 omitted)



Global and country-specific averages show that the cost of a data breach is on the rise.

Cost per record*

Global average

\$154

12%

increase over two years

Highest countries



\$217
in the U.S.

\$211
in Germany

\$78
in Brazil

\$56
in India



Lowest countries

Cost per incident*

Global average

\$3.8M

23%

increase over two years

Highest countries



\$6.5M
in the U.S.

\$4.9M
in Germany

\$1.8M
in Brazil

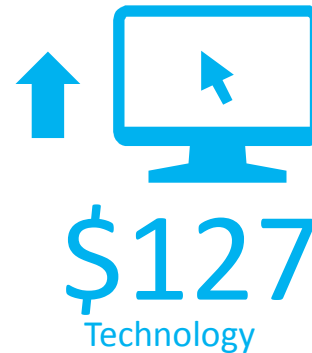
\$1.5M
in India



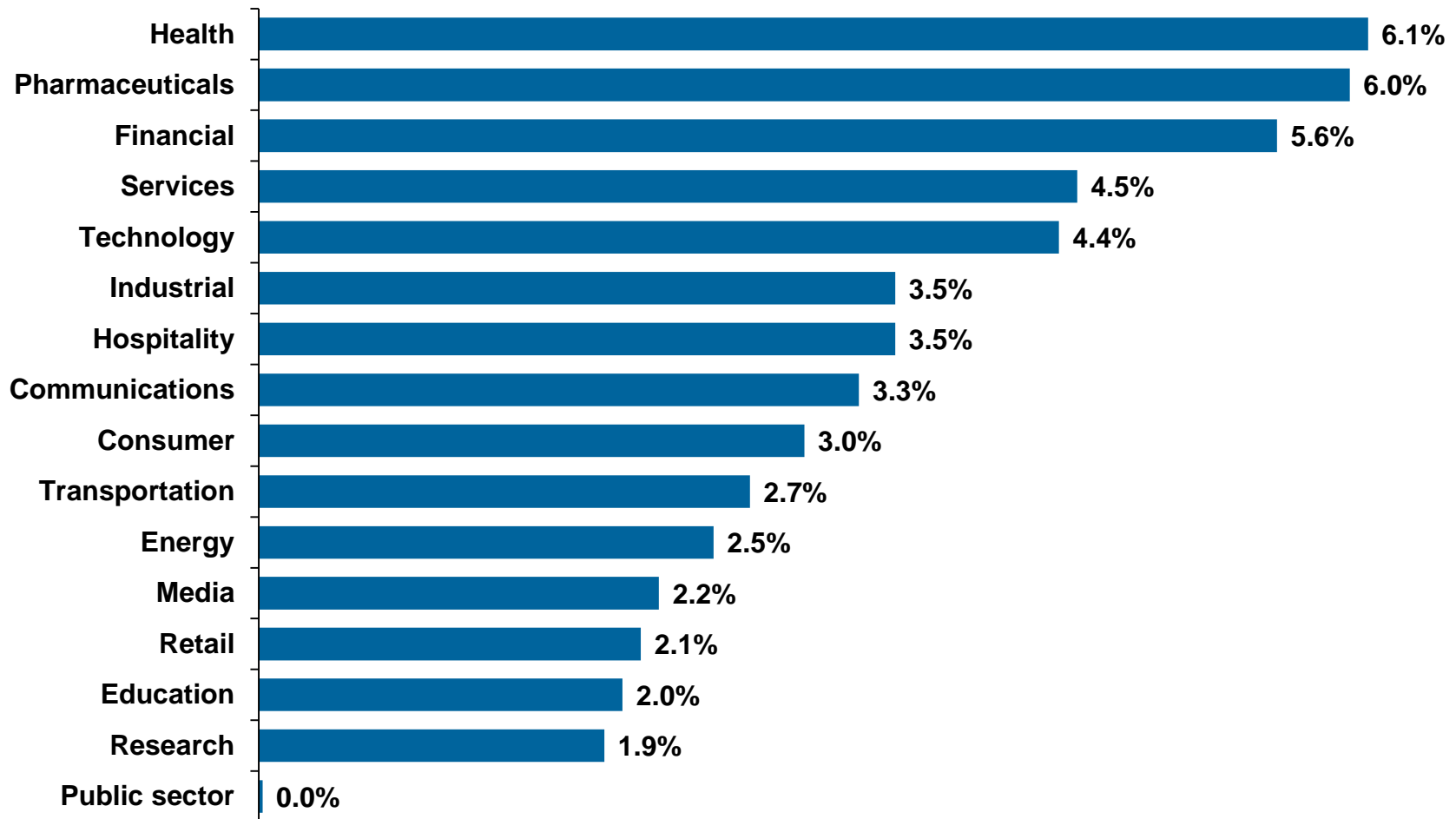
Lowest countries

*Currencies converted to US dollars

Per-record data breach costs vary widely across industries, with a significant year-to-year increase for retail.



Customer churn following a data breach—and the related impact on the organization’s reputation—is a key contributor to cost.



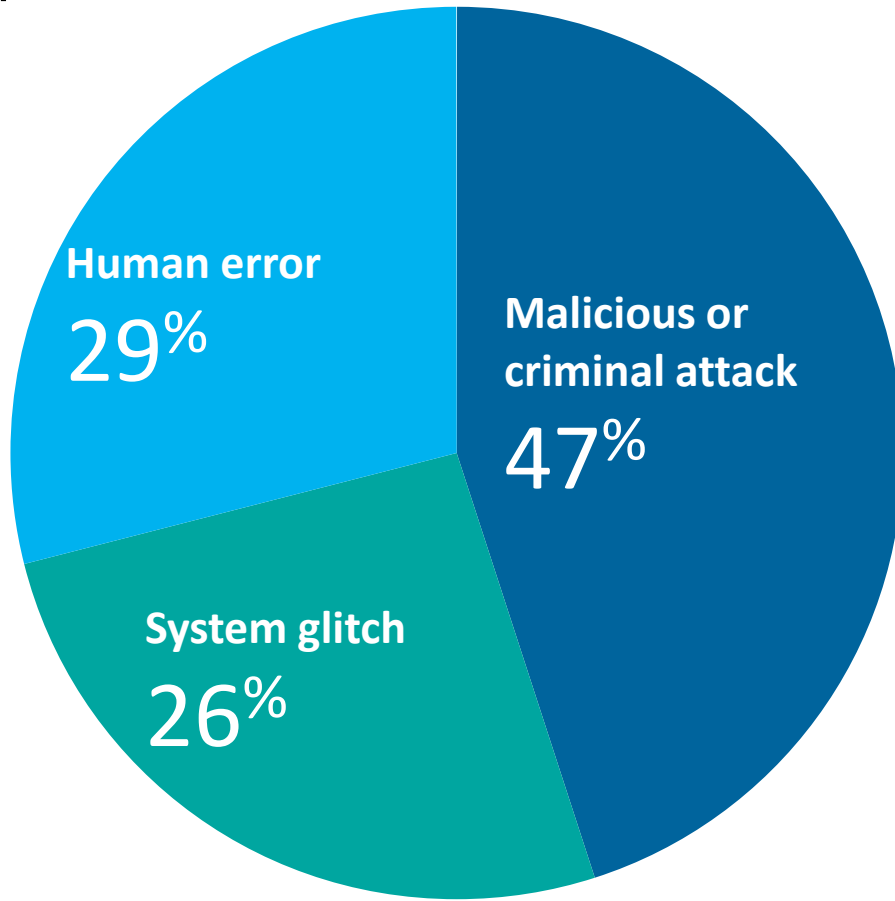
With lost business leading, other components of the cost of a data breach include post-event costs, detection and notification.



Cost category	Cost	Typical components
Lost business	\$1.57M	Abnormal turnover, increased customer acquisition costs, reputation losses, diminished goodwill
Post-data breach costs	\$1.07M	Help desk, inbound communications, investigations, remediation, legal costs, product discounts and other special offers
Detection and escalation	\$0.99M	Forensics, assessment, audit services, crisis team management, internal communications
Notification	\$0.17M	Contact databases, regulatory requirement research, outside experts, postal expenditures, inbound communications setup

Malicious or criminal attacks are the leading root cause of a data breach...and result in the highest cost per record.

\$134
per record




\$170
per record

\$142
per record

Does business continuity management impact cost?

The impact of business continuity management on the cost of a data Breach

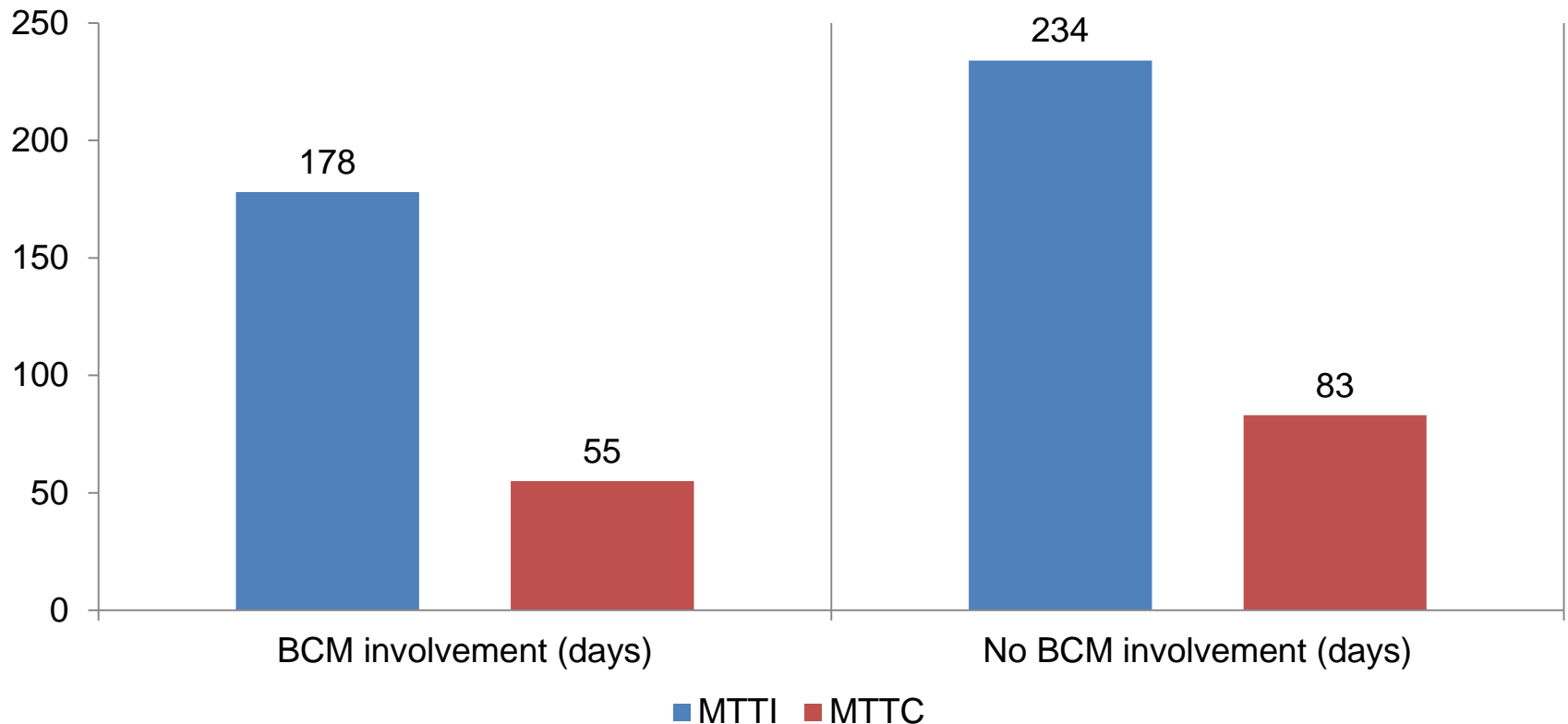


- 9% reduction in the per capita cost of data breach
- 27% reduction in the mean time to identify a data breach
- 41% reduction in the mean time to contain a data breach
- 28% decrease in the likelihood of a data breach over the next 2 years

MTTI and MTTC for organizations that involve or fail to involve BCM in the incident response process

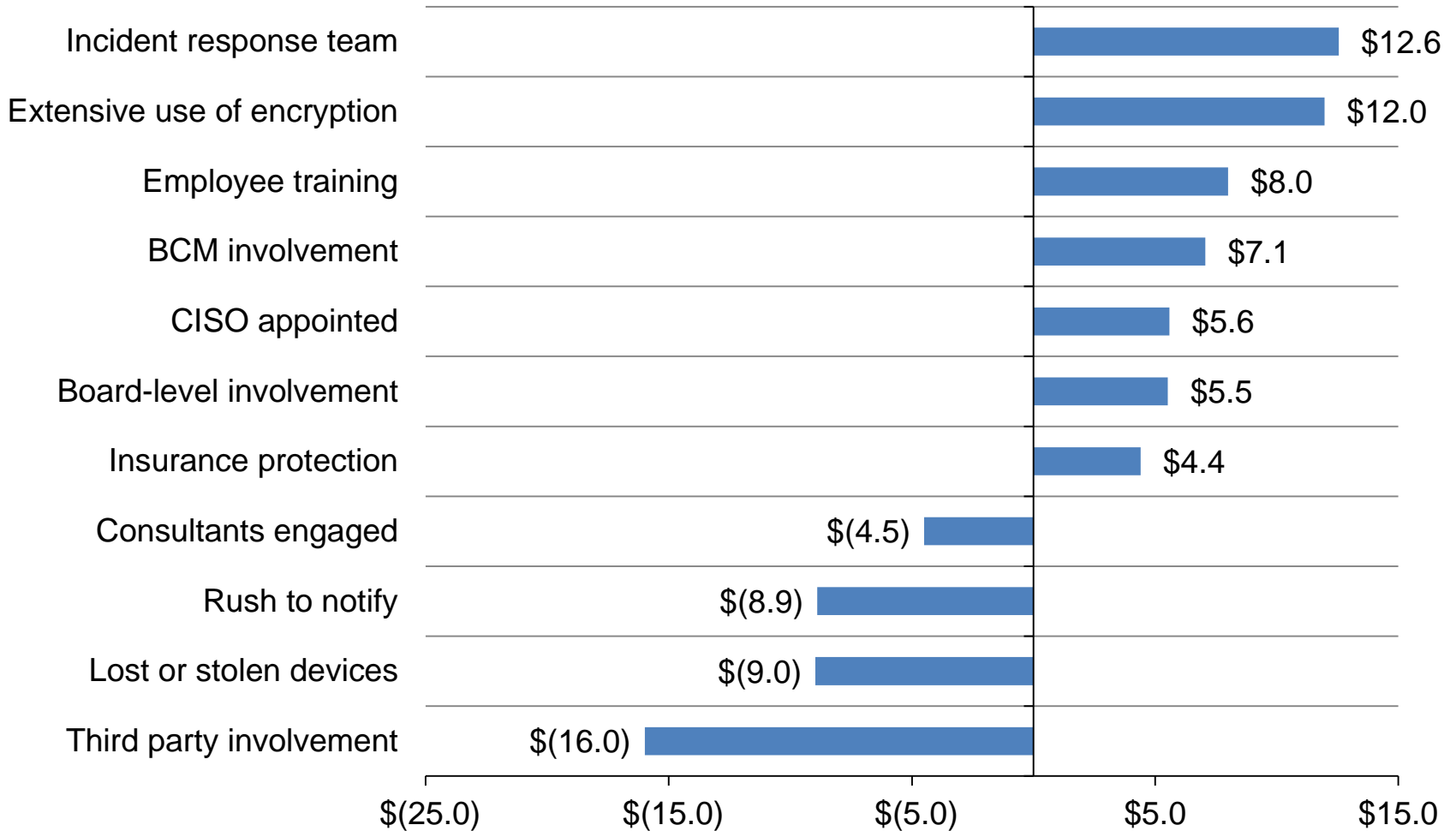
Percentage difference for MTTI = 27%; percentage difference for MTTC = 41%

Consolidated view (FY 2015 = 350, FY 2014 = 315)



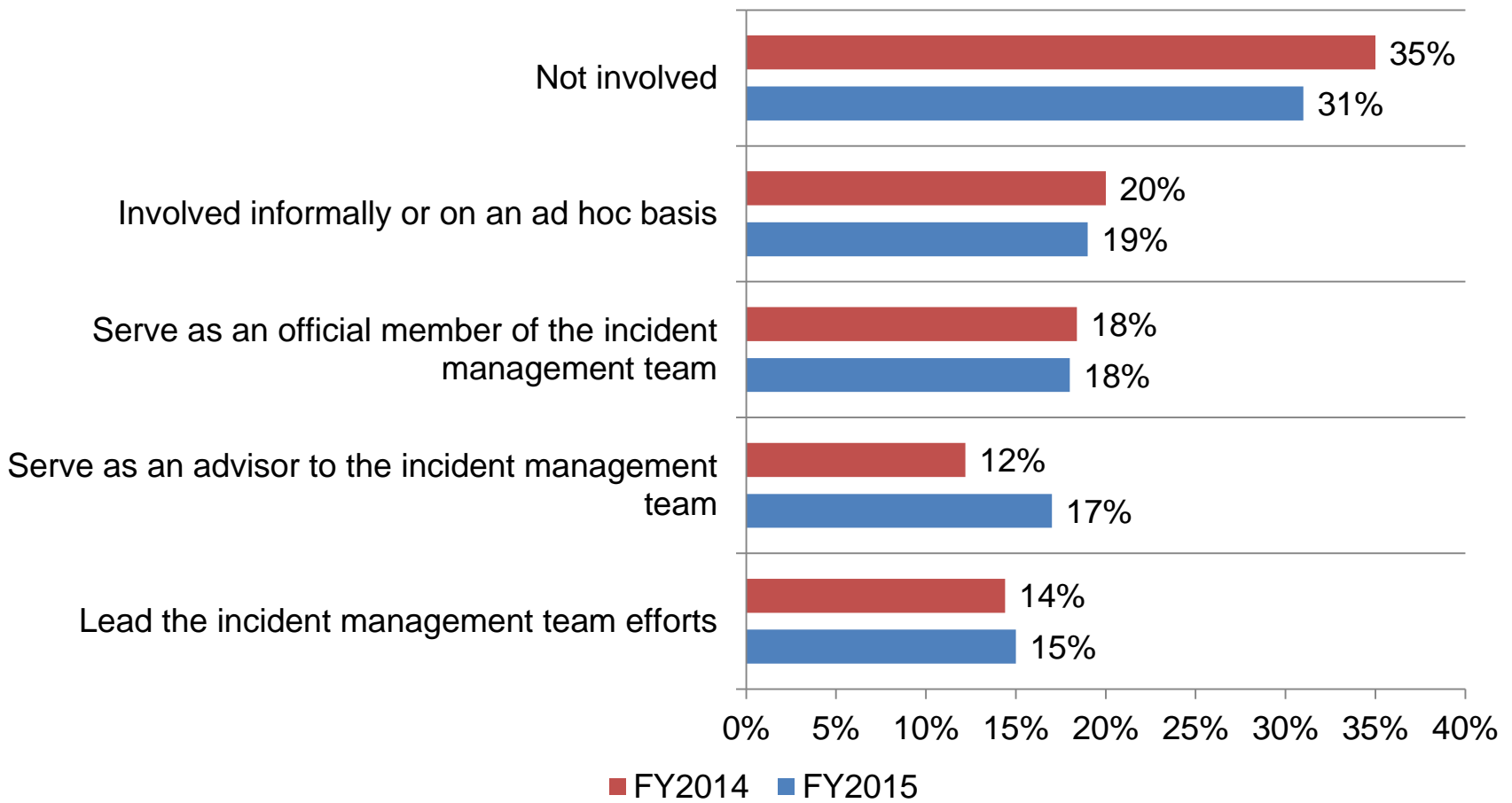
Impact of 11 factors on the per capita cost of data breach

Measured in US\$ consolidated view (n = 350)



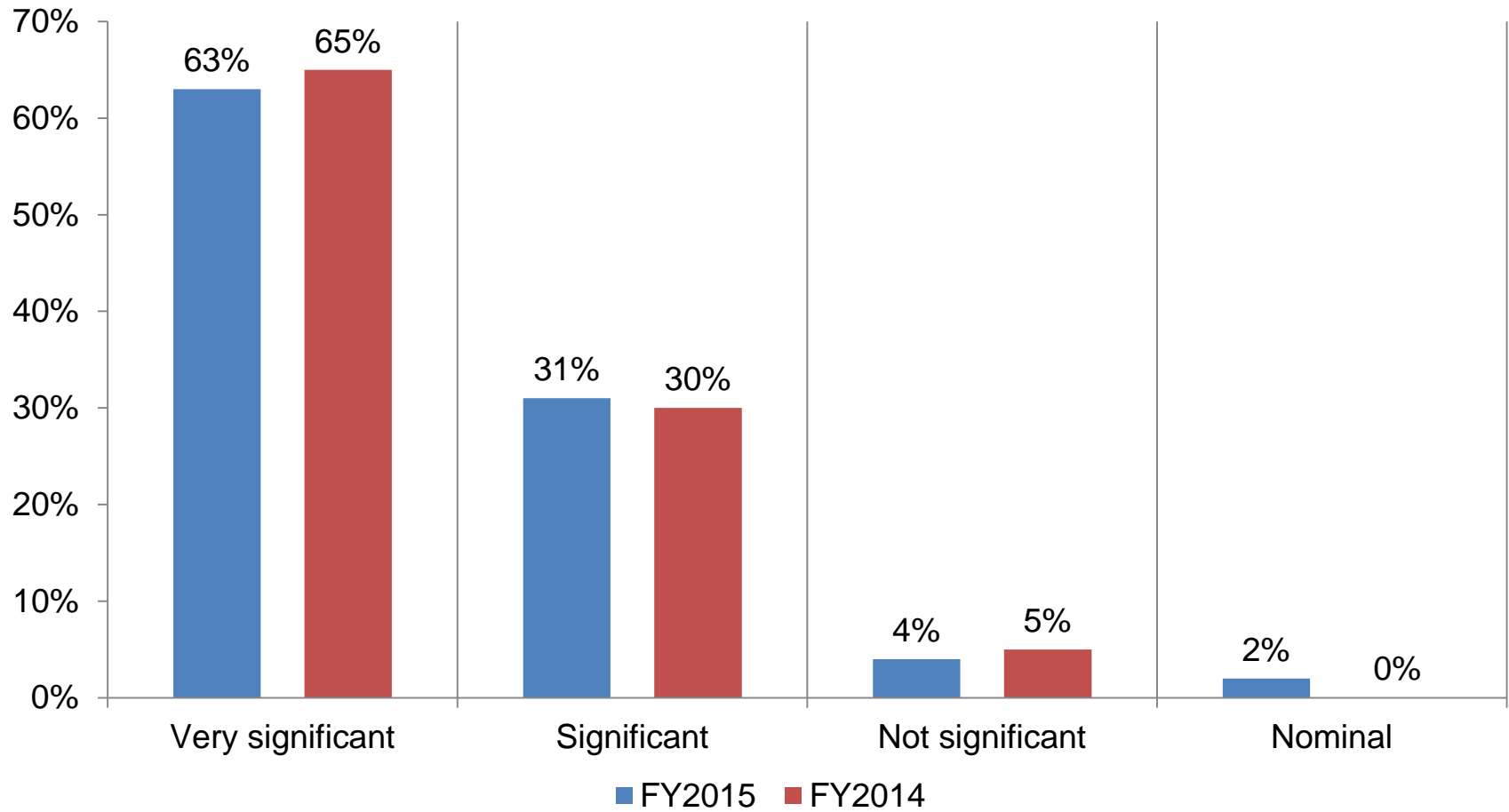
How does BCM contribute to the data breach incident response process?

Consolidated view (FY 2015 = 350, FY 2014 = 315)



What best describes BCM's contribution to the incident response process?

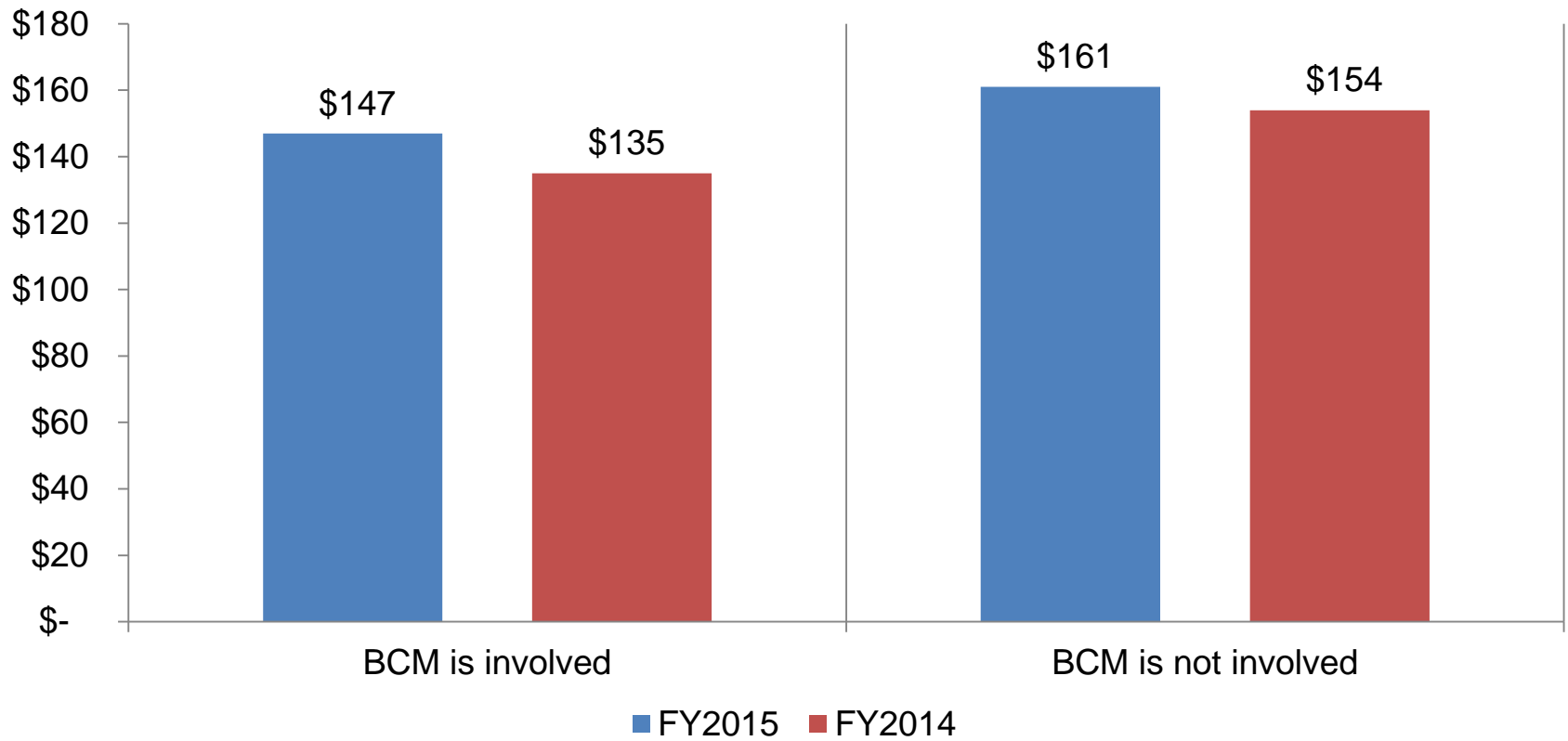
Consolidated view (FY 2015 = 350, FY 2014 = 315)



Per capita cost of data breach for companies with or without BCM involvement

Percentage difference in FY 2015 = 9%; percentage difference in FY 2014 = 13%

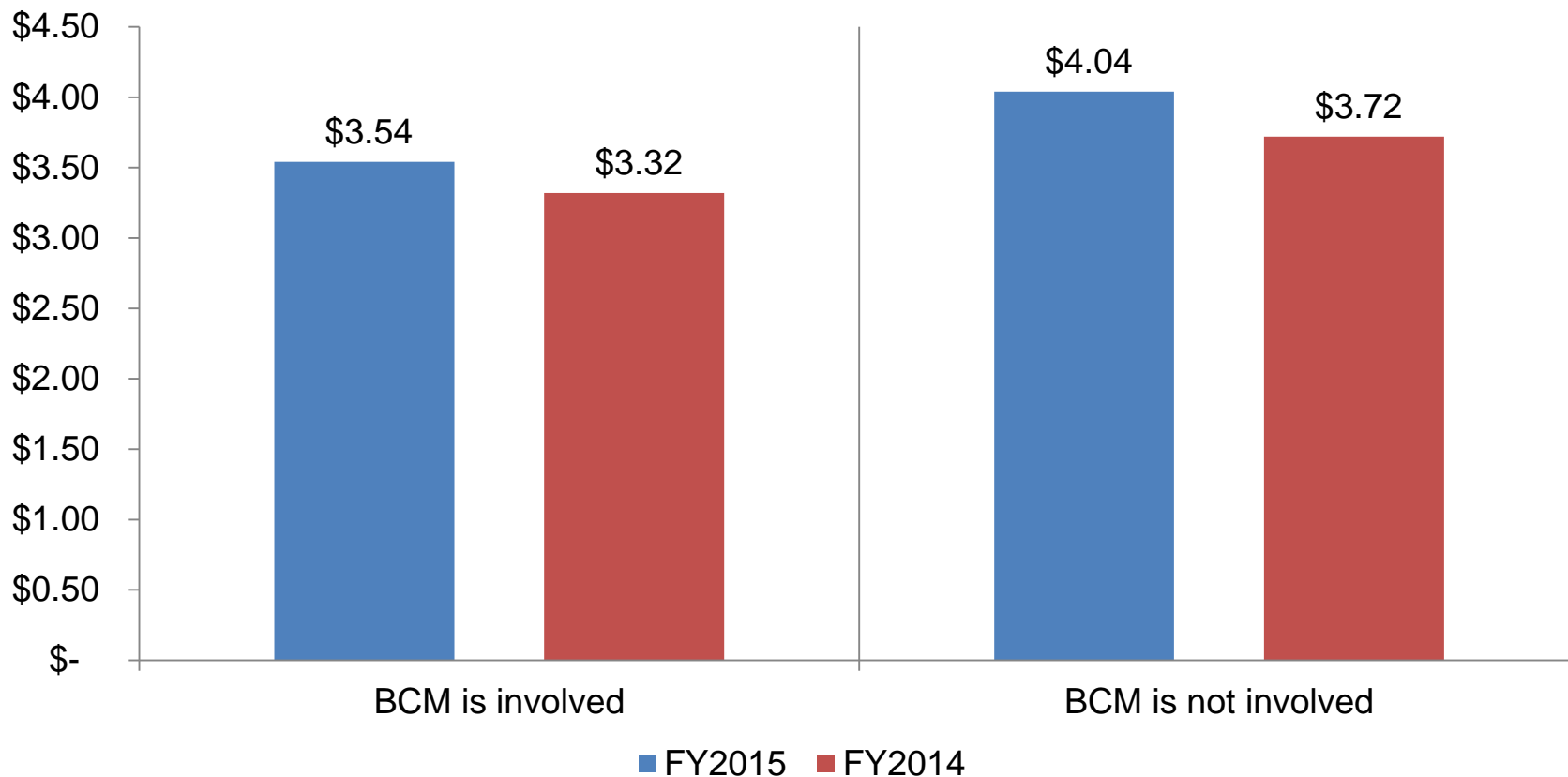
Consolidated view (FY 2015 = 350, FY 2014 = 315)



Total cost of data breach for companies with or without BCM involvement

Percentage difference in FY 2015 = 13%; percentage difference in FY 2014 = 11%

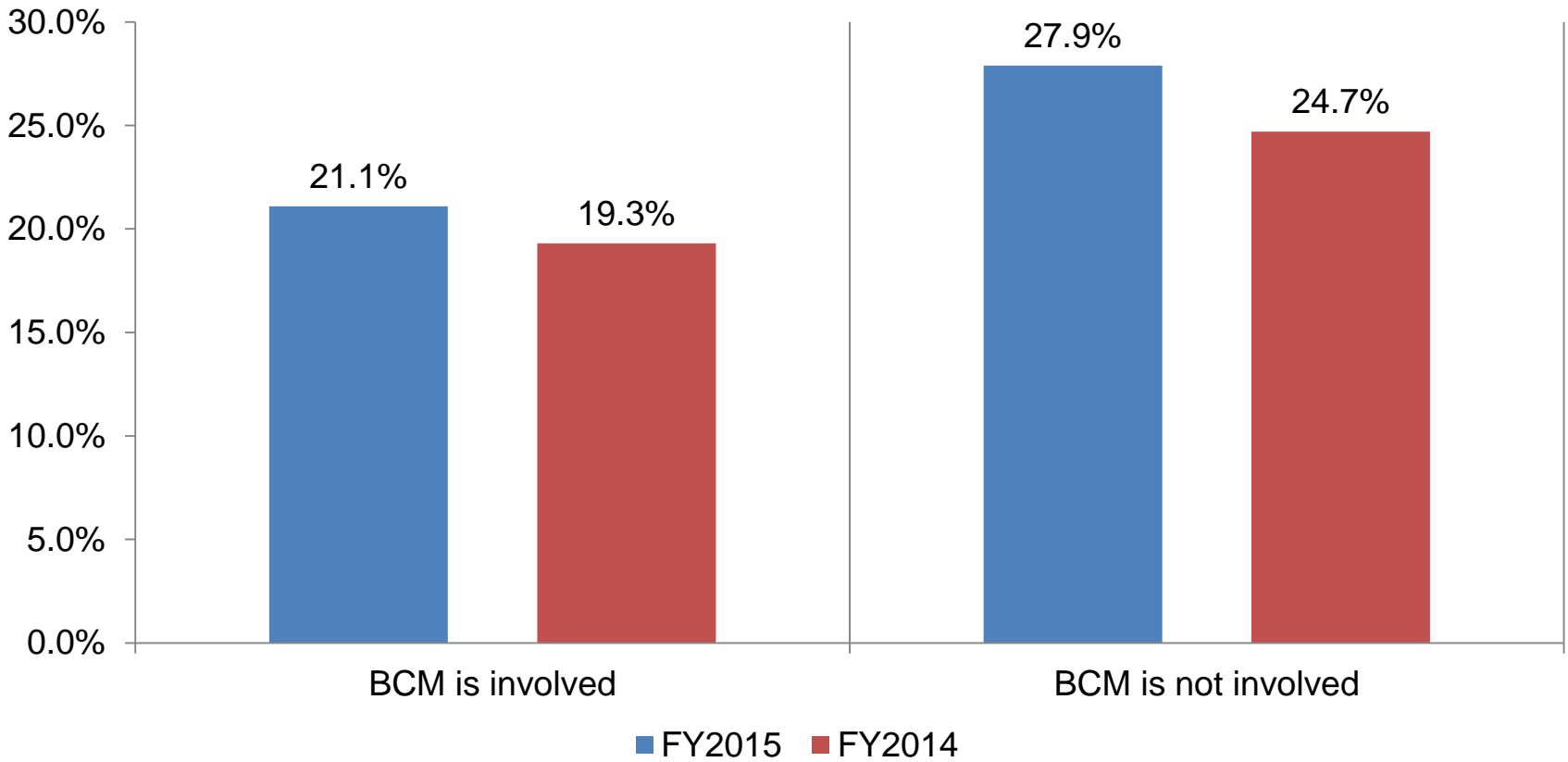
Consolidated view (FY 2015 = 350, FY 2014 = 315)



Likelihood of a material data breach for companies with or without BCM involvement

Percentage difference in FY 2015 = 28%; percentage difference in FY 2014 = 25%

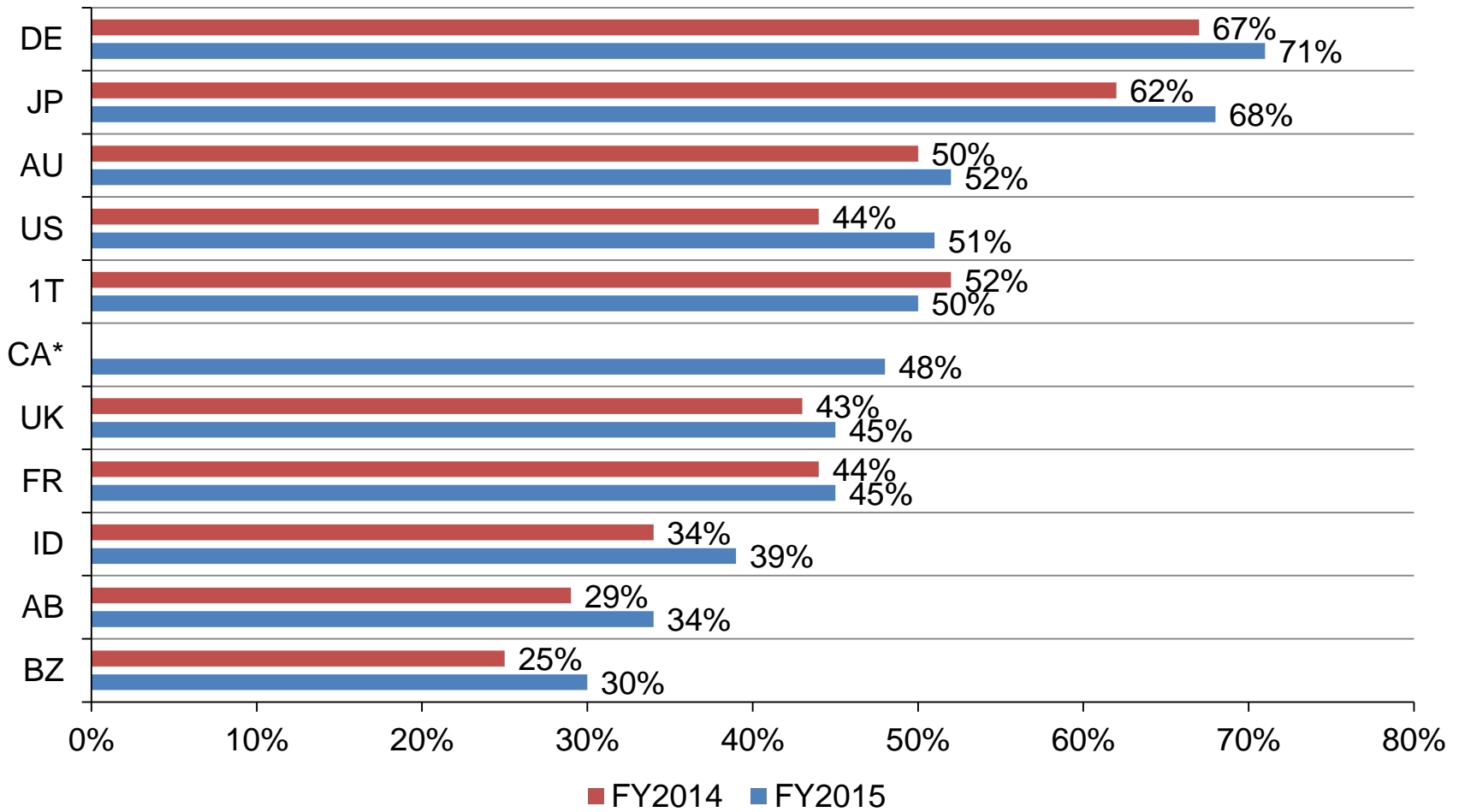
Consolidated view (FY 2015 = 350, FY 2014 = 315)



BCM participation rate by country sample

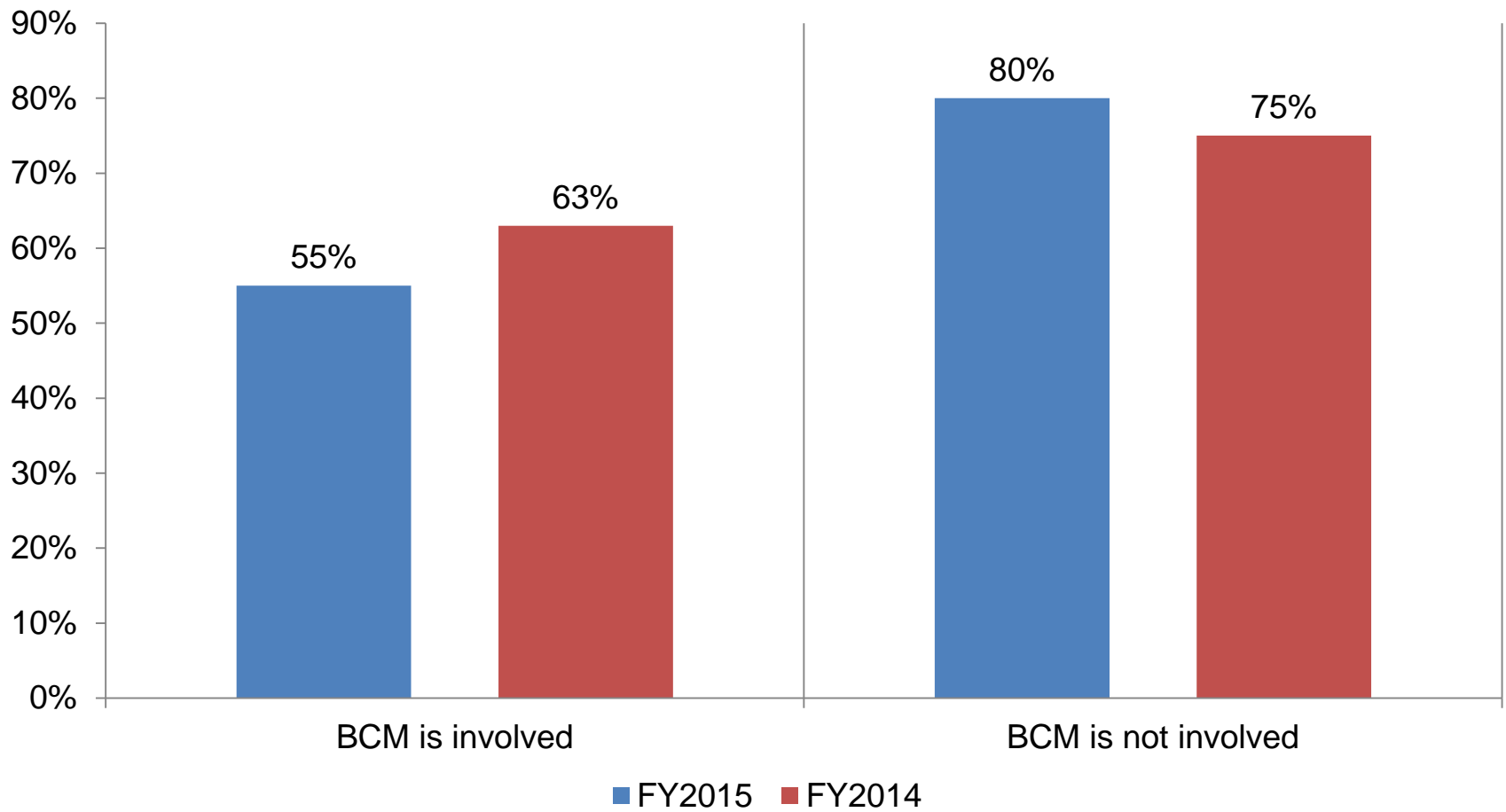
*Historical data is not available

(FY 2015 = 350, FY 2014 = 315)



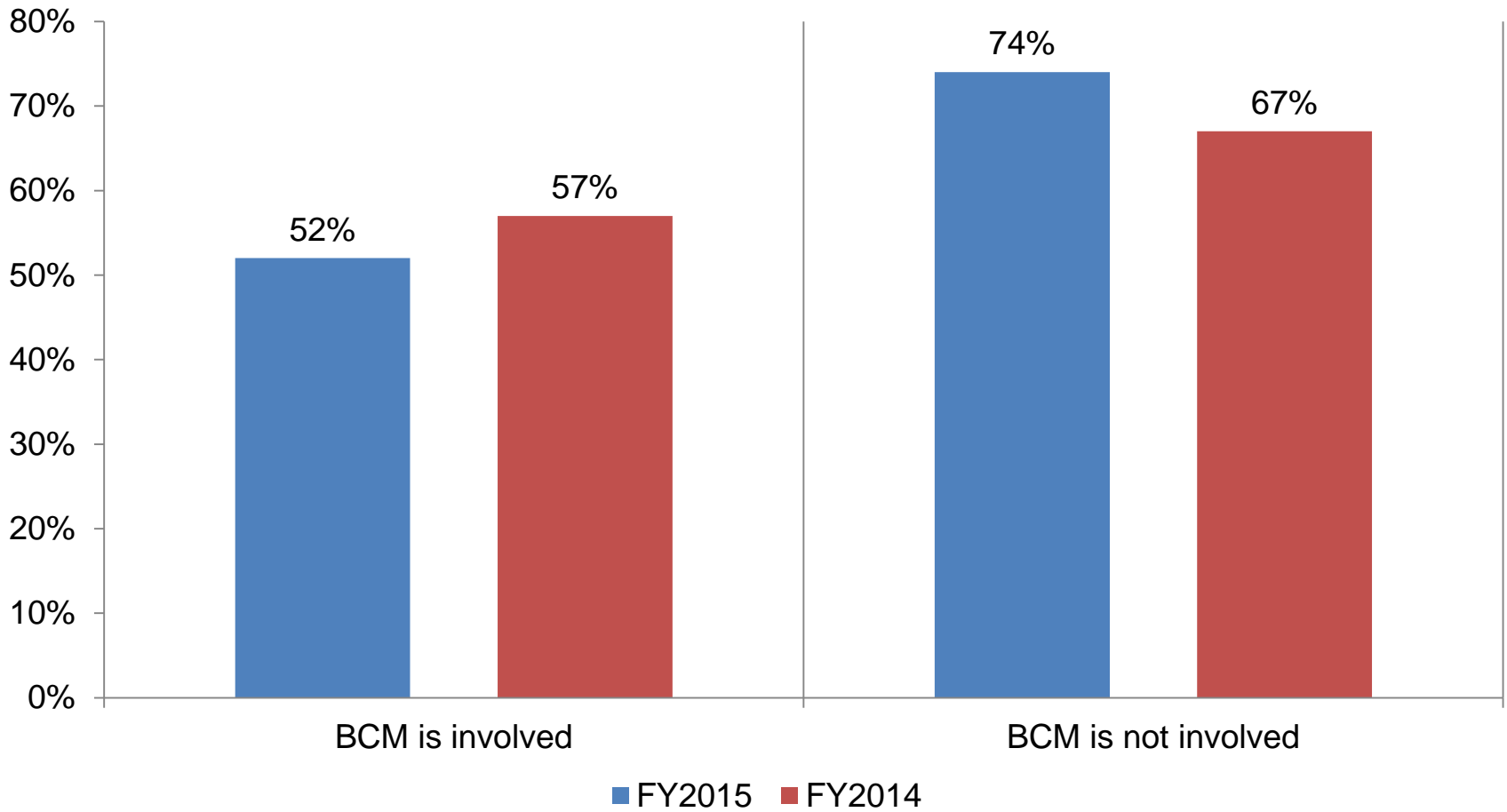
Did the data breach incident cause a material disruption to business processes?

Consolidated view (FY 2015 = 350, FY 2014 = 315)



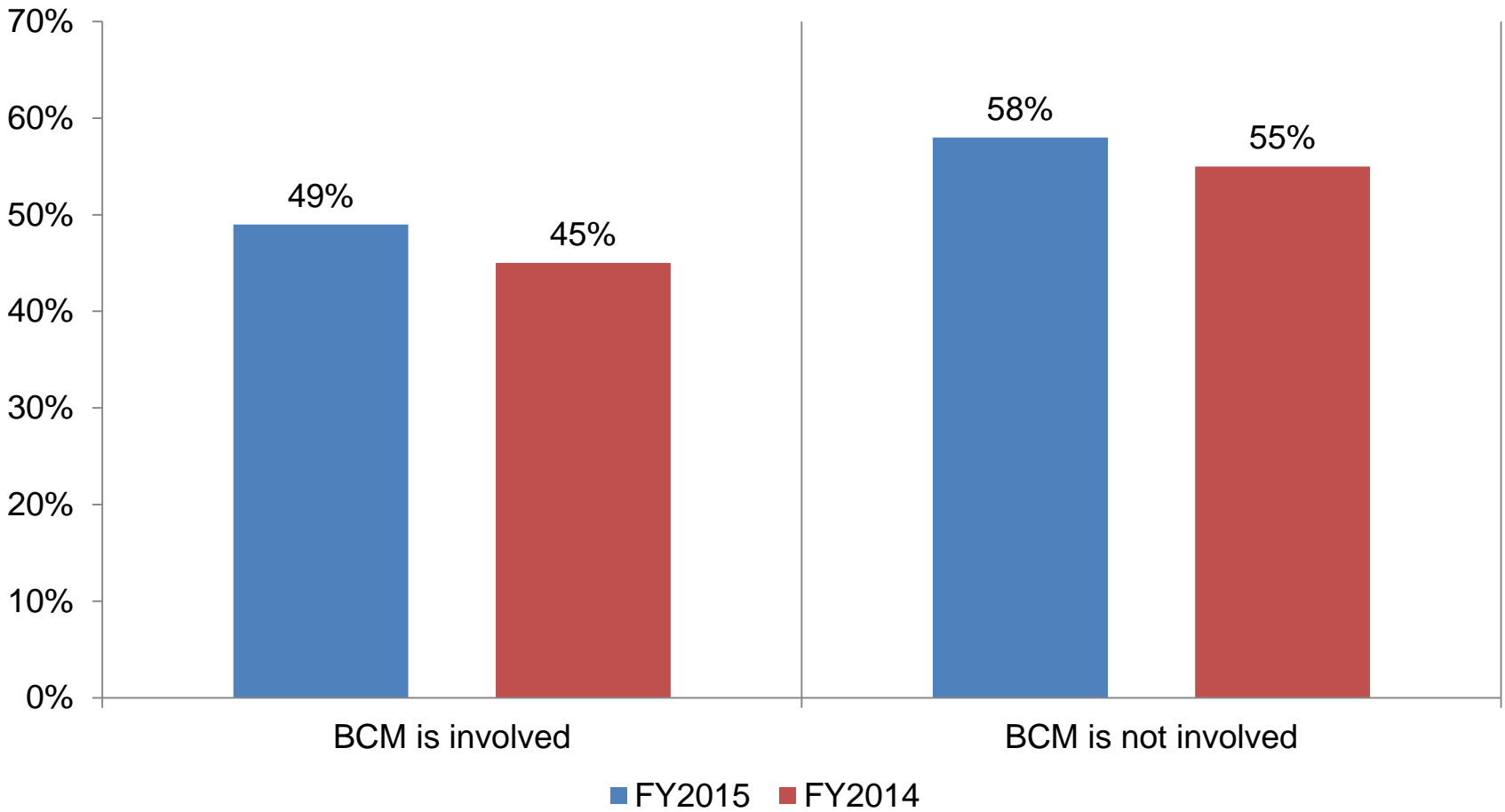
Did the data breach incident cause a material disruption to IT operations?

Consolidated view (FY 2015 = 350, FY 2014 = 315)



Did the data breach have a material negative impact on the organization's reputation?

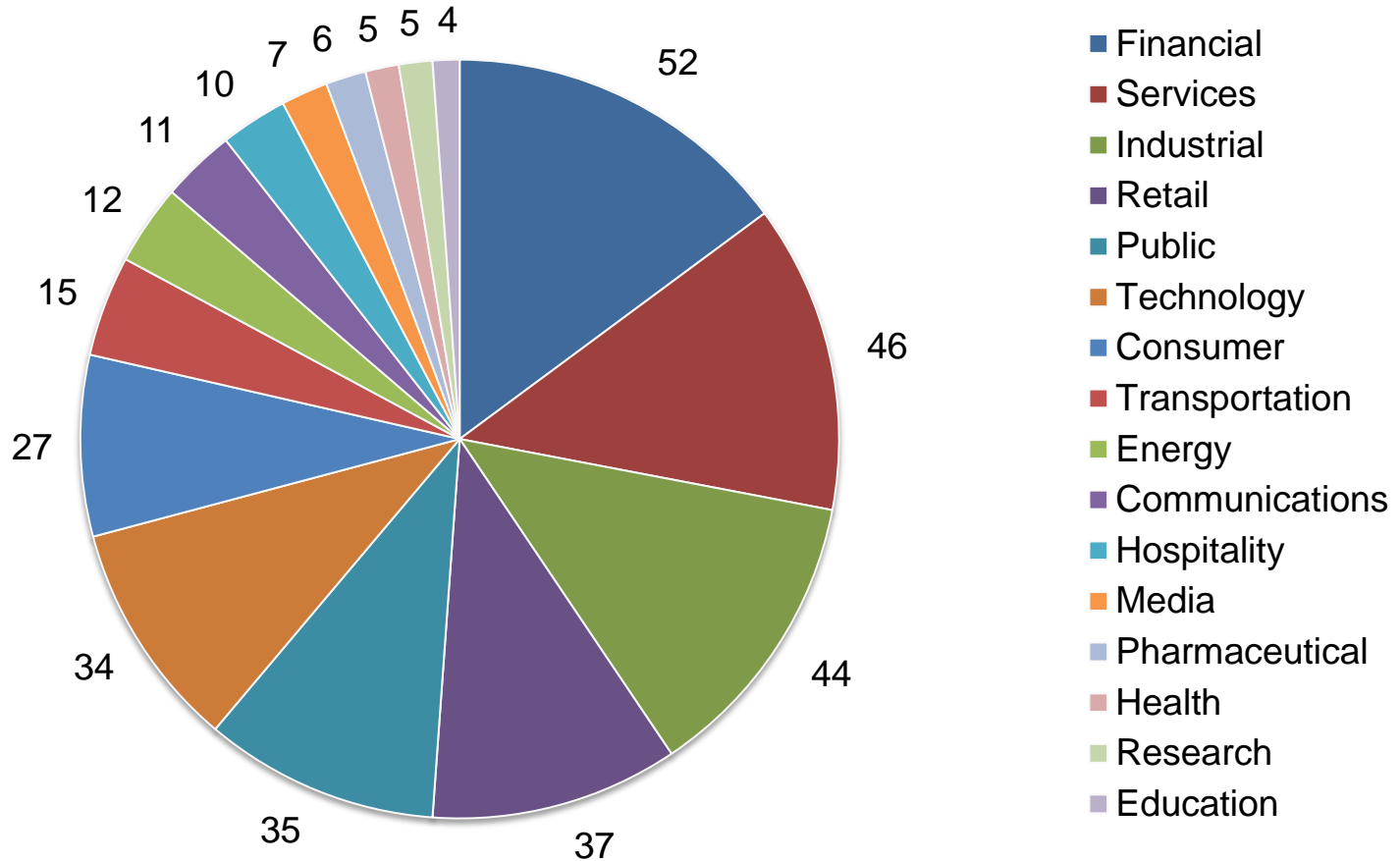
Consolidated view (FY 2015 = 350, FY 2014 = 315)



Organizational characteristics and benchmark methods

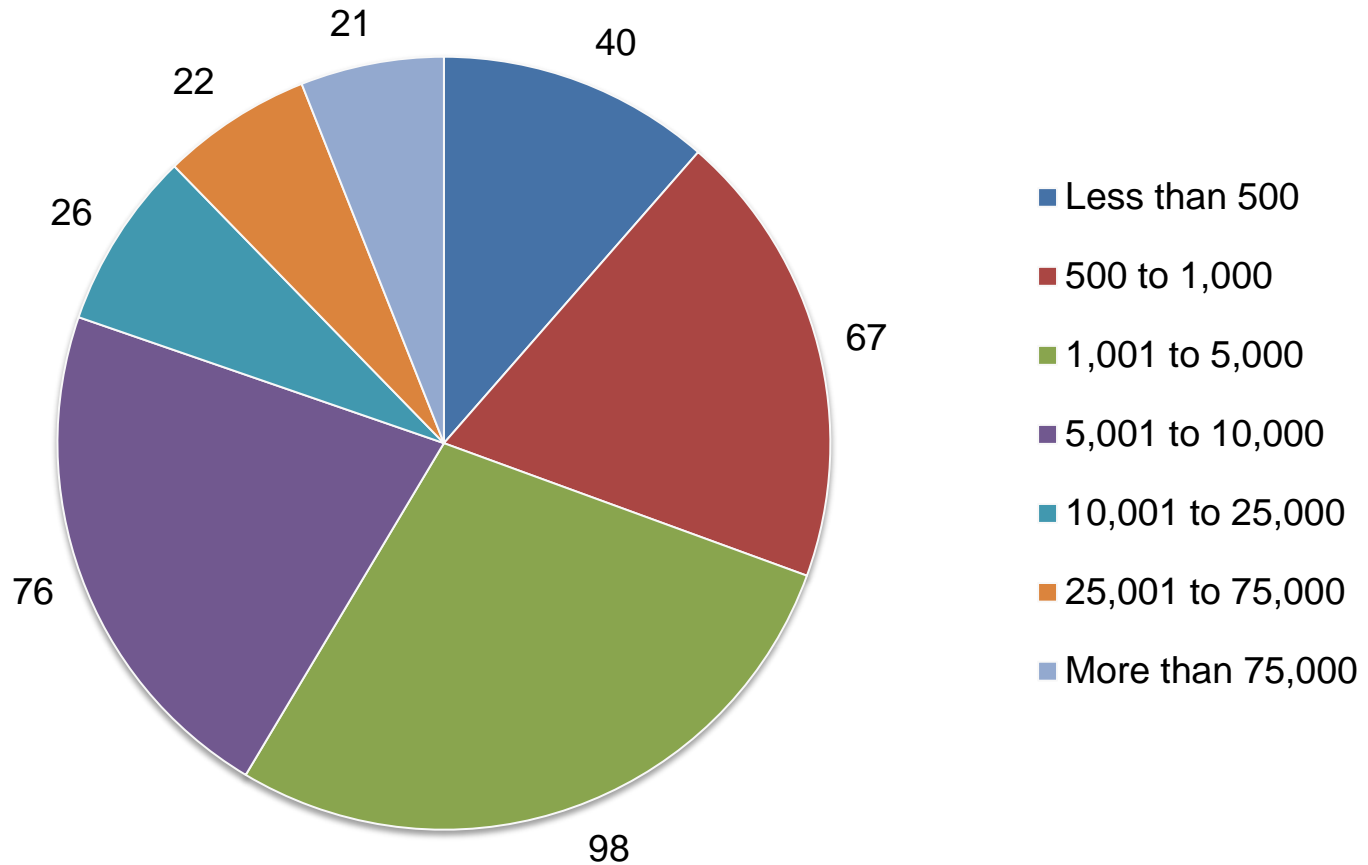
Distribution of the benchmark sample by industry segment

Consolidated view (n = 350)



Global headcount of participating companies

Consolidated view (n = 350)



Questions?

Ponemon Institute

Toll Free: 800.887.3118

Michigan HQ: 2308 US 31 N.

Traverse City, MI 49686 USA

research@ponemon.org