



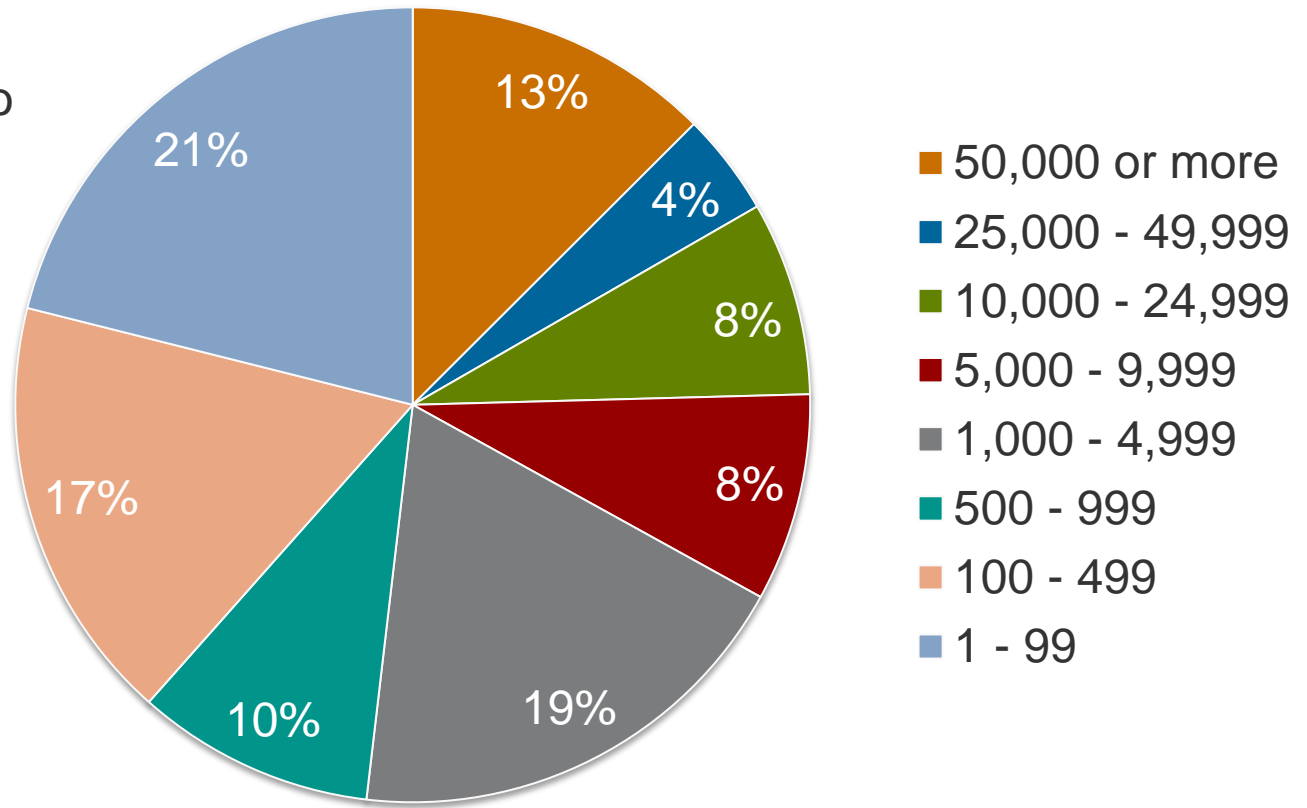
Where serious technology buyers decide

Analytics & Data Warehousing Reader Challenges & Priorities Survey

Business Applications 2013

Respondent company size

52% from companies with over 1,000 employees (similar to past years' surveys)

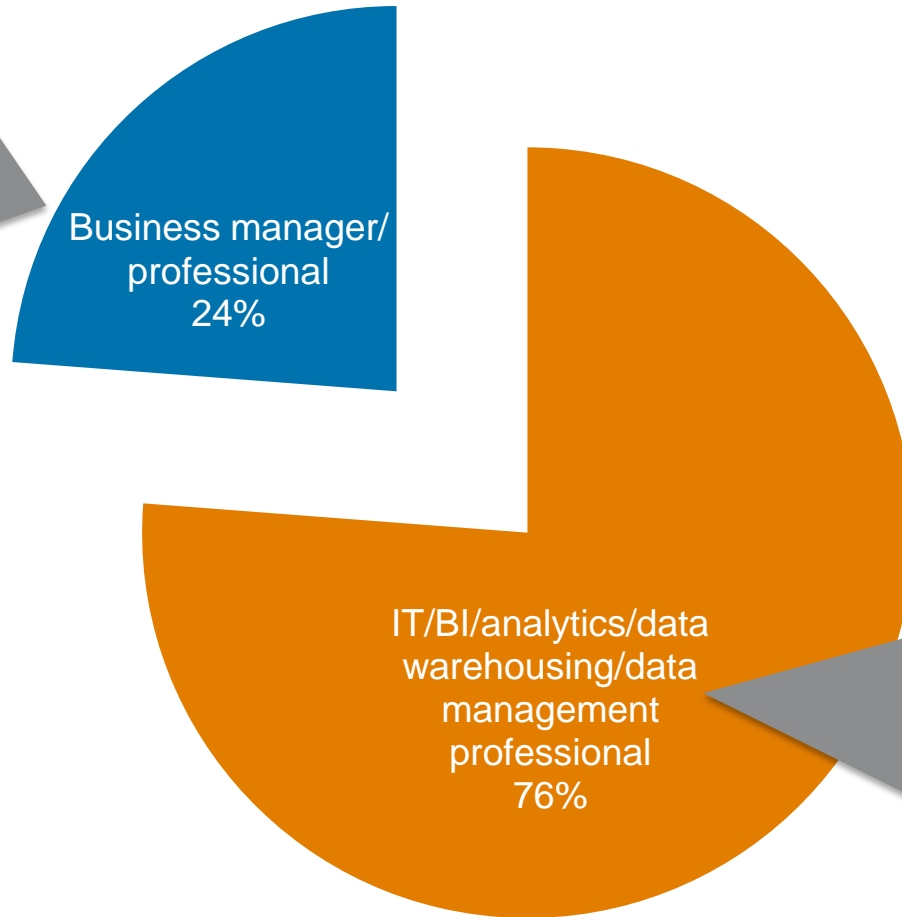


N = 887

Respondent title breakdown

Titles include...

- CEO
- CFO
- CMO
- COO
- Corporate/business executive
- Corporate/business manager
- Business analyst
- Functional analyst



Titles include...

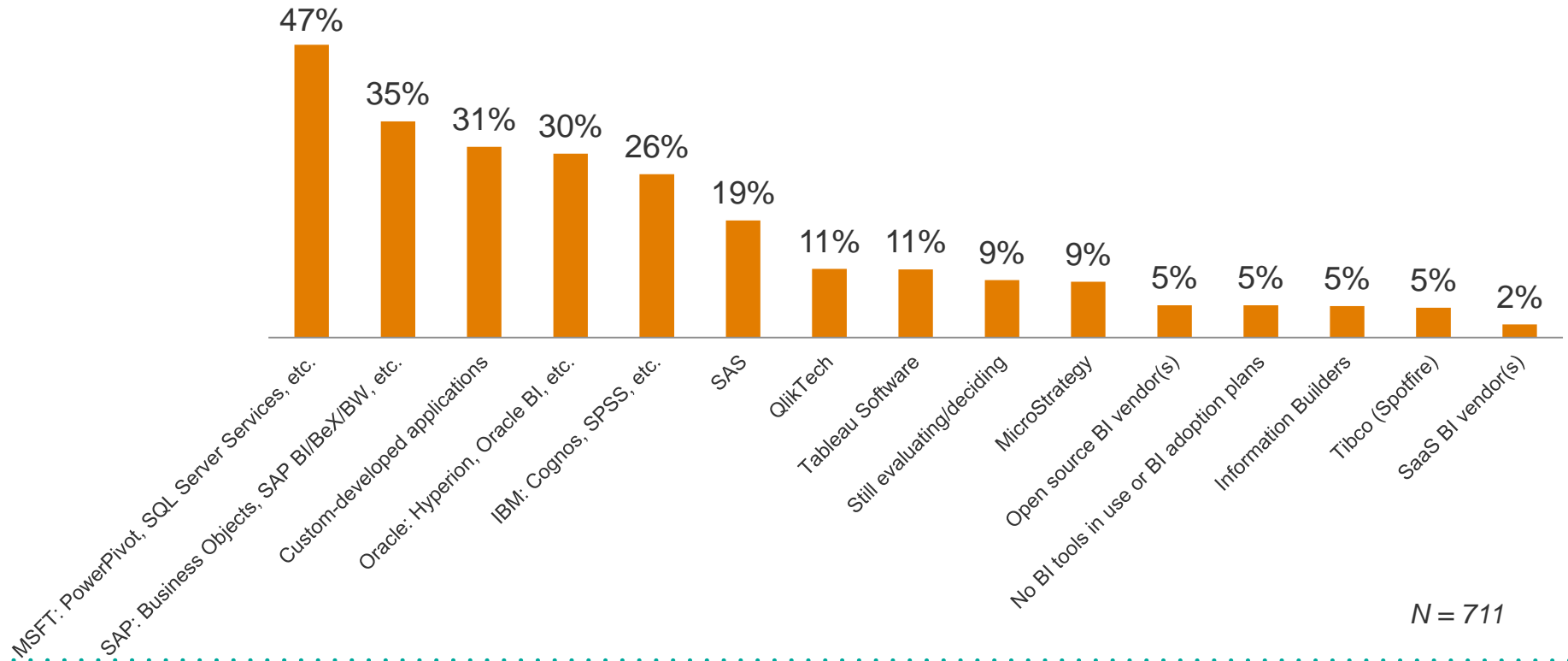
- CIO/CTO
- IT director/VP
- BI director/VP
- BI manager
- Application manager
- Data services manager
- Data warehouse manager
- Data/information architect
- Database administrator
- Database/systems manager

N = 887

Top BI/business analytics vendors

- MSFT is in use by many companies, but at some, it may be a departmental or point use case (note: This was a multi-select question).
- Custom-developed apps saw a significant increase from previous years' surveys (13%).
- 14% are still evaluating or have no BI tools in use.

Which vendors or technologies does your organization use or plan to use for BI/business analytics?



N = 711

Top factors in BI purchase decisions

- Integrating with enterprise applications jumped from #3 to #1 compared to previous years, followed by cost and best technology fit.
- Usability also saw a big rise in importance.

What were the top 3 factors in evaluating and selecting the BI tools that your organization uses or plans to use?

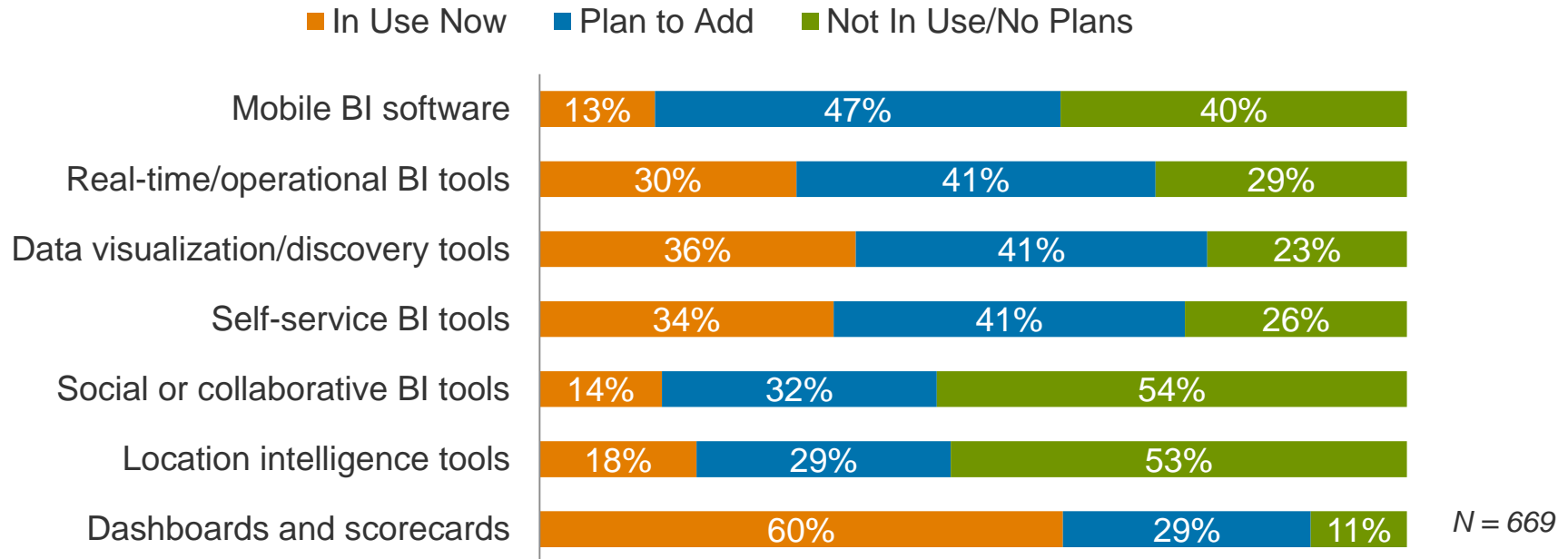
Factor	2013 Rank	2011 Rank
Integration with enterprise applications	1 	3
Cost	2 	1
Best technology fit for our requirements	3 	2
Usability/ease of use	4 	7
ROI	5 	4
Ease of implementation	6 	5
Customization capabilities	7 	9
Corporate standard or preferred vendor	8 	6
Vendor support and maintenance	9 	8

N = 681

BI features in use now and future plans

- Just under half the respondents plan to add mobile BI software within the year.
- Operational BI, data visualization and self-service BI also scored high on the list of technologies companies are planning to add.

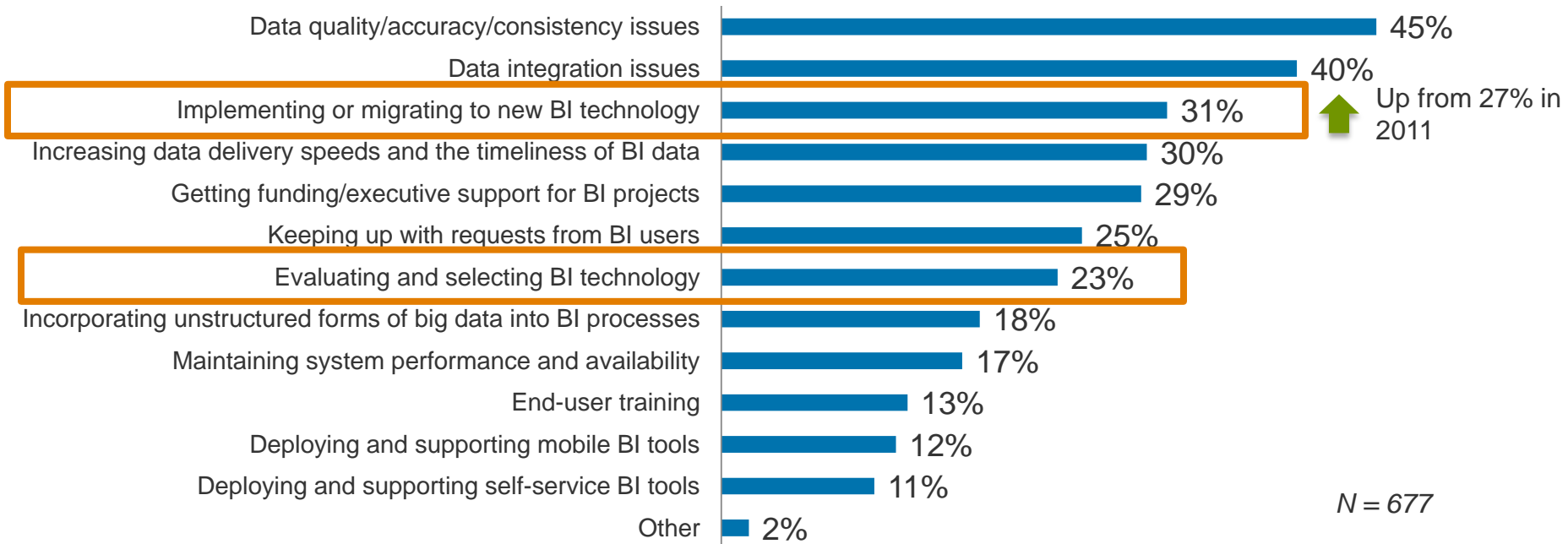
Which of these BI technologies does your organization use now or plan to add within the next 12 months?



Top-ranked BI challenges

- As BI programs expand, data quality and data integration issues continue to pose major headaches for users.
- Sizable percentages of the respondents indicated they are in the BI project consideration or deployment/migration planning phases. For some, this implies that their existing BI solutions are not meeting their current needs.

What do you expect to be your biggest BI-related challenges over the next 12 months?

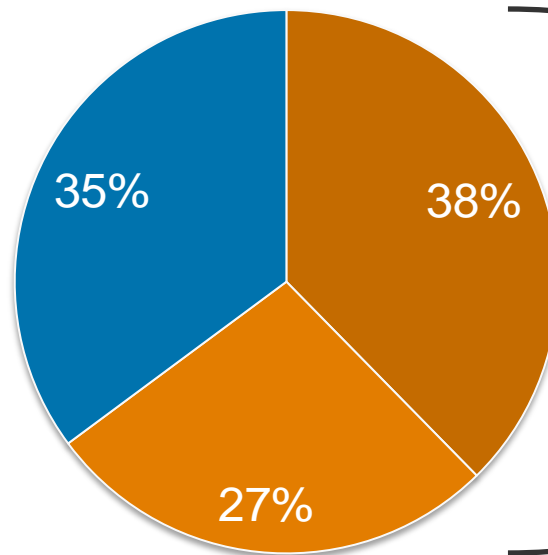


BI organizational structure

- As BI becomes more pervasive throughout the enterprise, BI teams are becoming more centralized, cross-functional.

Has your organization set up a business intelligence competency center or another form of a centralized BI team?

- Yes
- Plan to do so within the 12 months
- No, and no plans to create one



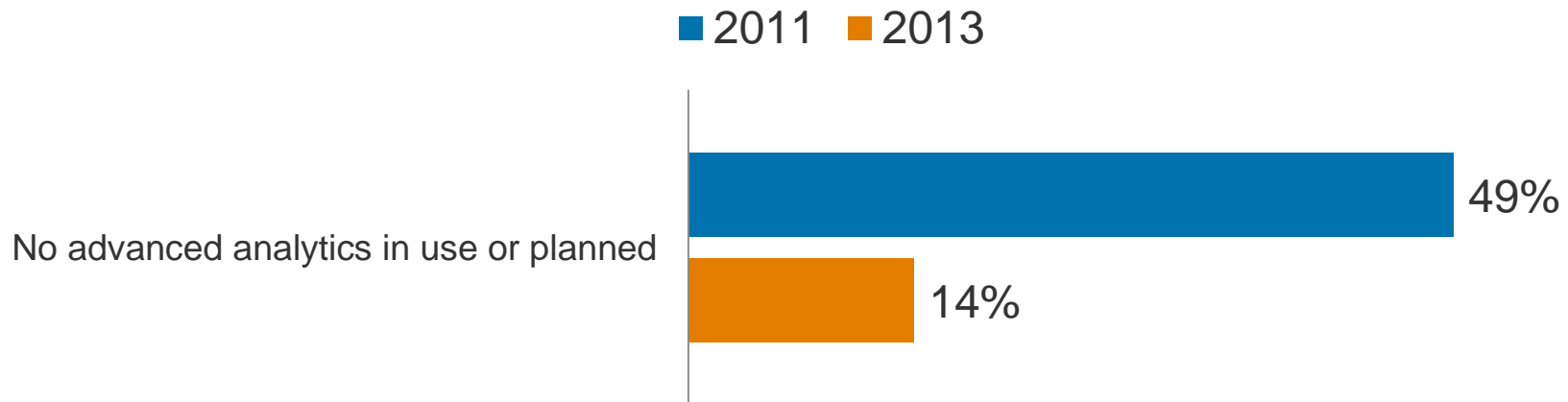
Nearly 2/3
have/plan to
add a
centralized
BI team

N = 680

Notable difference in analytics use, 2013 vs. 2011

- Seeing a massive shift in advanced analytics projects currently underway:
 - 86% of respondents are currently using advanced analytics or plan to in the next year compared to only 51% two years ago.

What kinds of advanced analytics is your organization doing now or planning to do within the next year?

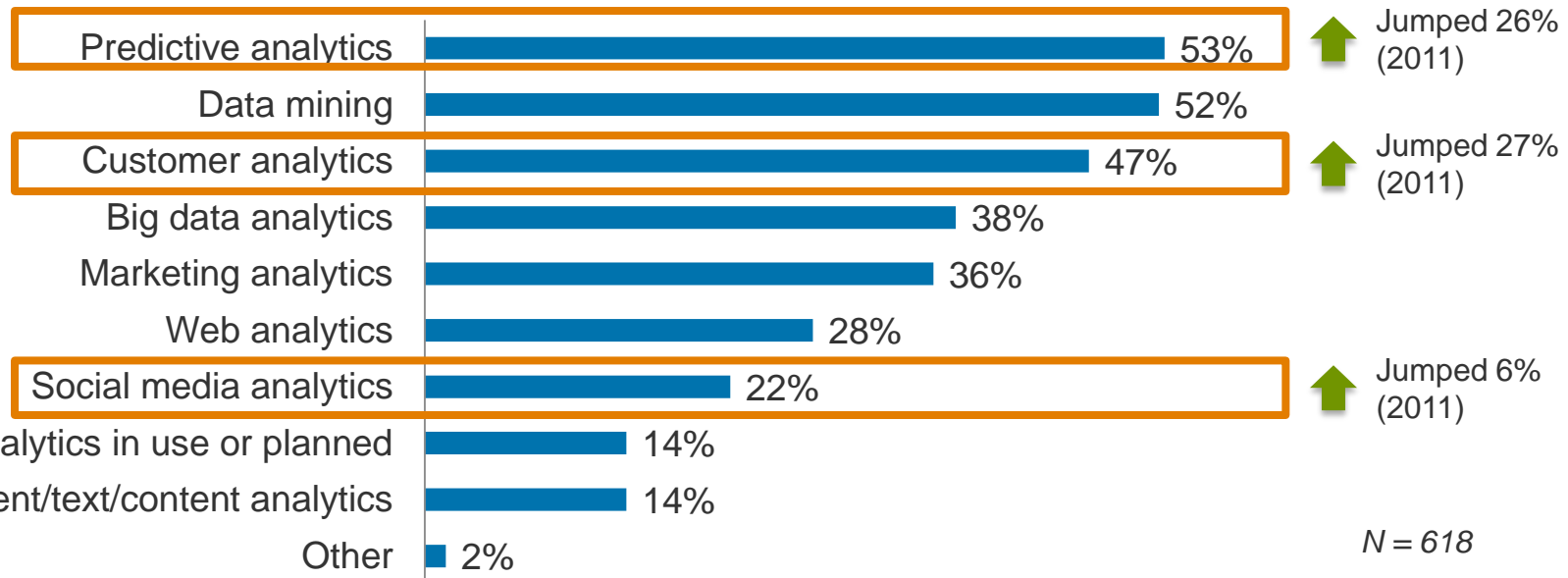


N = 618

Types of analytics in use

- Analytics adoption is becoming more sophisticated with some more advanced forms gaining strong traction among users.
- While predictive analytics moved up two spaces from 2011 to take the lead, customer analytics adoption has more than doubled in the past two years.

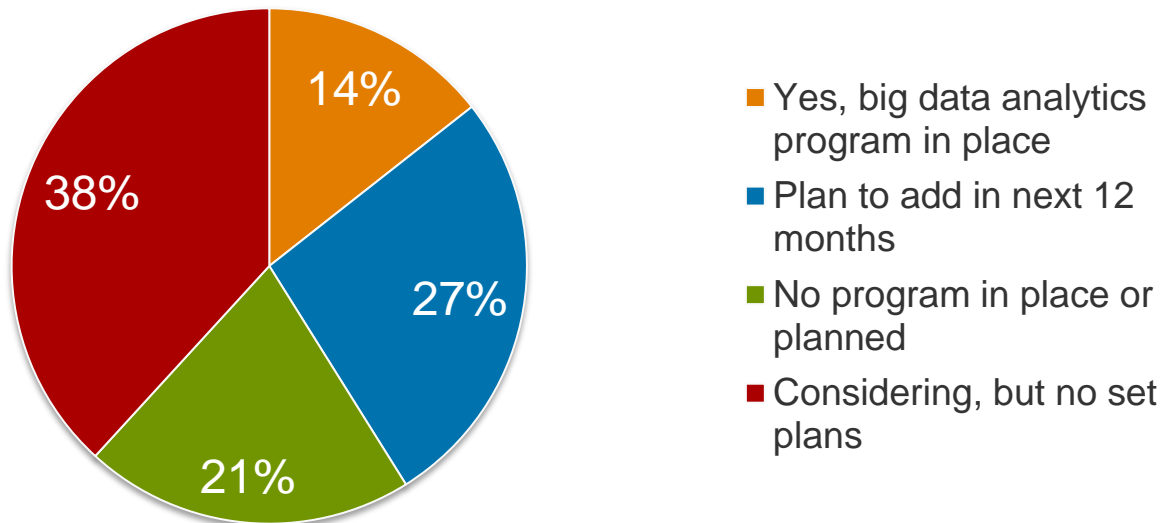
What kinds of advanced analytics is your organization doing now or planning to do within the next year?



Big data management and analytics planned programs

- More than 3/4 of respondents do not currently have an established big data management and analytics program in place.
- The fact that so many are still in the consideration phase suggests that there is still a lot of confusion around how best to embark on such an initiative.

Do you have a big data management and analytics program under way in your organization or plan to implement one within the next year?



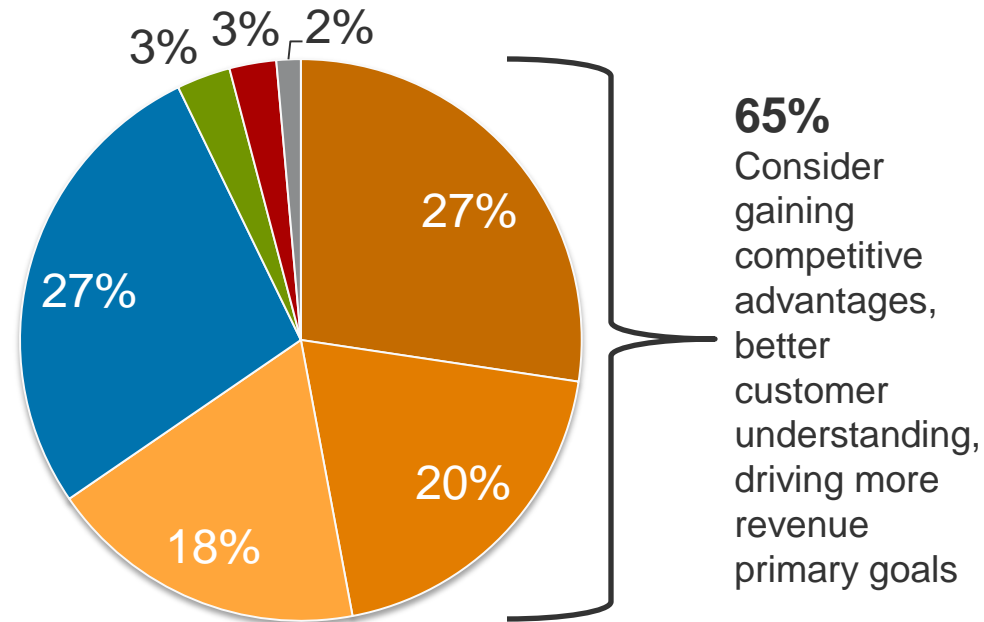
N = 540

Big data analytics business drivers

- Improved efficiency and competitive insight top the list of big data analytics business drivers, which (despite a weakened climate) would explain the stronger than average growth levels.
- Nearly 2 out of 3 respondents (65%) referred to a revenue-generating type of driver, which when coupled together, make it a higher priority than improving efficiency alone.

What is the primary goal of your organization's big data analytics program?

- Using big data to gain competitive advantages over business rivals
- Better understanding customer needs, preferences and buying decisions
- Driving increased revenue/finding new revenue opportunities
- Improving organizational efficiency and profitability
- Using system/network log data to help improve IT operations
- Other
- Tracking sentiment toward our company and products on social networks

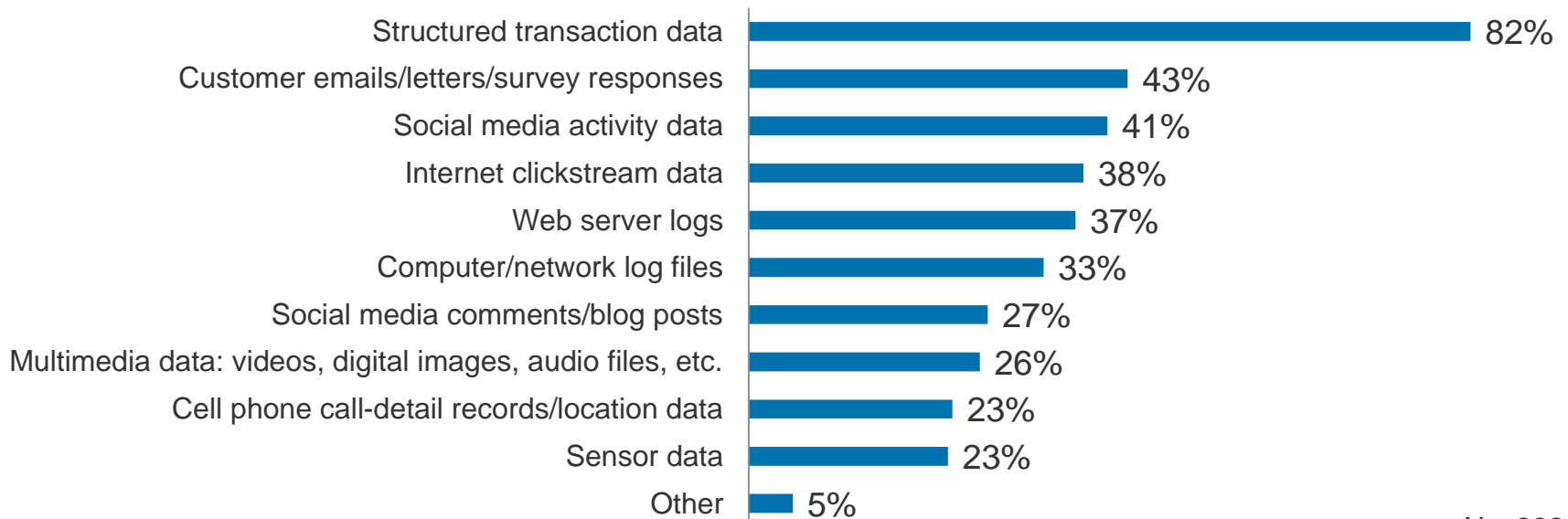


N = 223

Types of data incorporated in big data programs

- Transactional data still ranks as the #1 type of data collected.
- Not surprisingly, customer and social media data are gaining strong traction.

What types of data does your organization collect or plan to collect as part of its big data program?

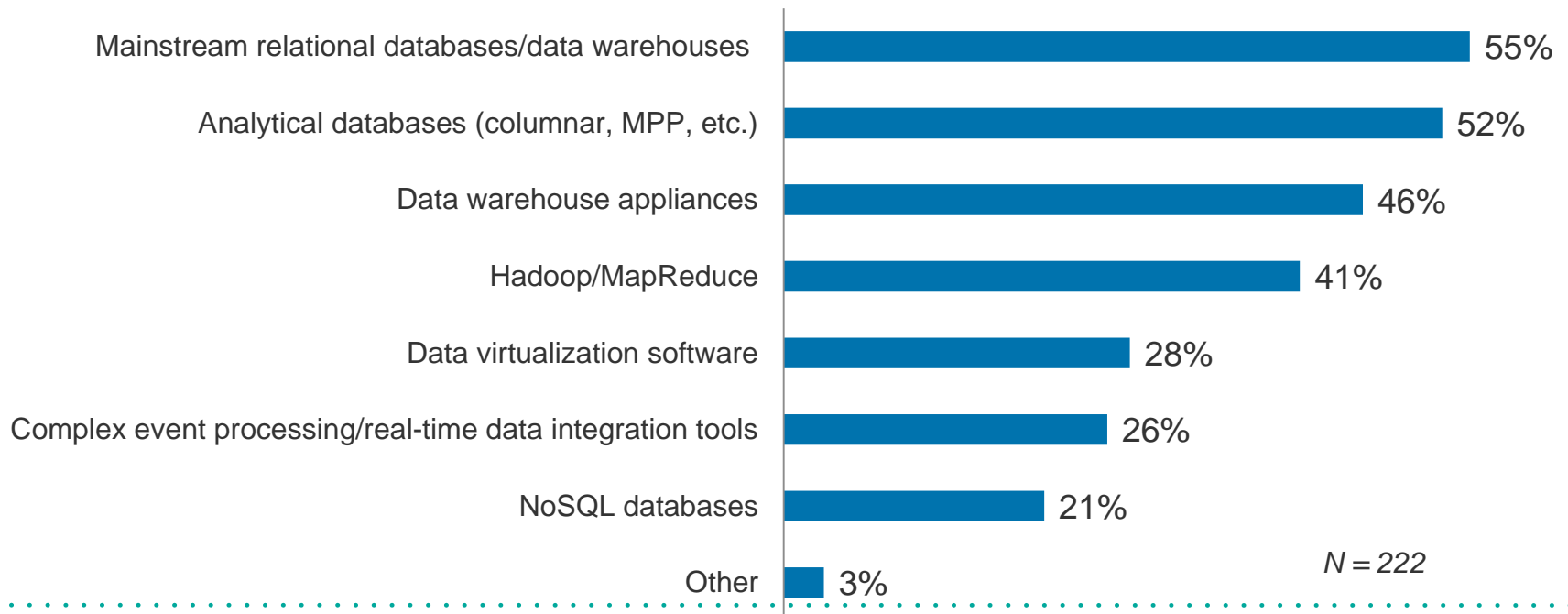


N = 222

Big data supporting architecture

- Mainstream RBDMS/data warehouses are still the #1 choice to support big data environments.
- However, respondents also realize the need to expand beyond current systems to further capitalize on big data's potential impact.

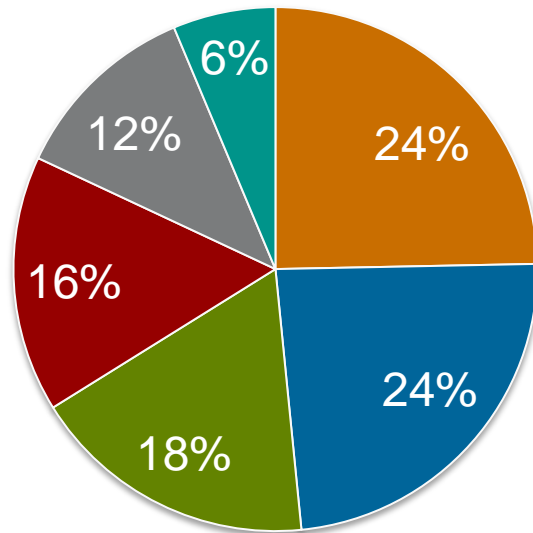
What technologies does your organization use or plan to use to support its big data environment?



Big data analytics adoption hurdles

- Lack of budget, proven ROI, top the list of obstacles preventing companies from gaining stronger support for big data analytics projects.

What is the biggest reason why your organization isn't moving forward on a big data analytics program at this point?



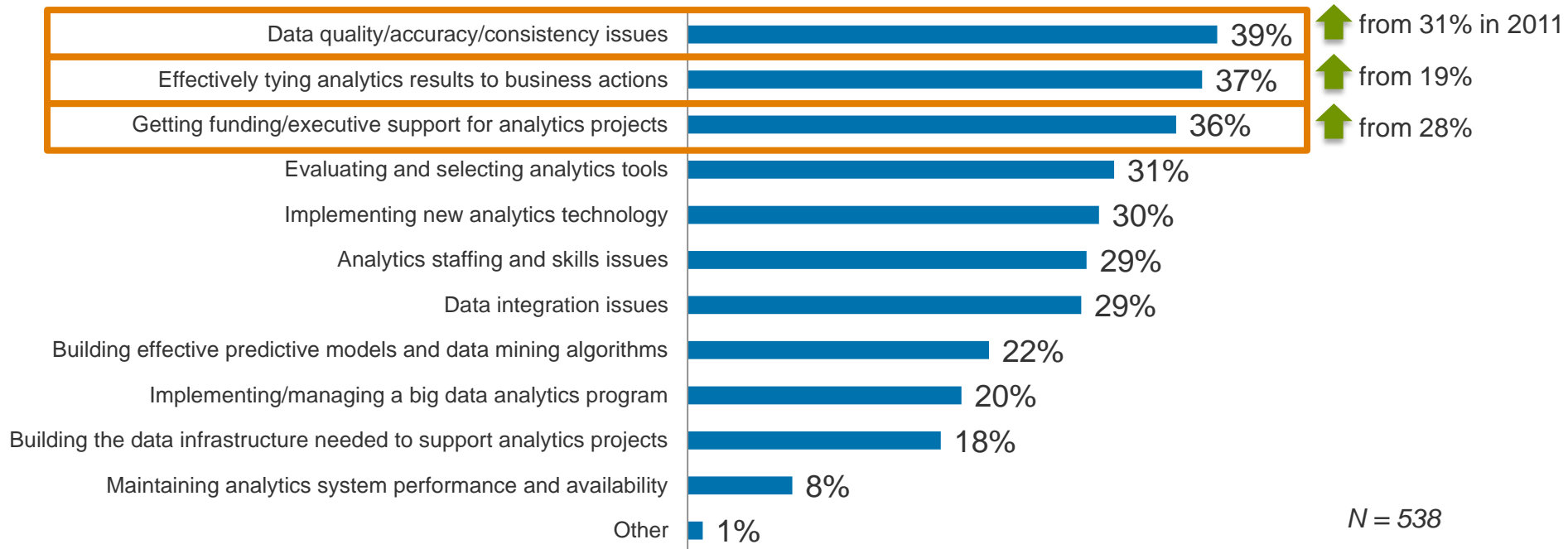
- No money available in budget
- Lack of business case/potential ROI
- No need – we don't create or collect big data
- Lack of internal big data management/analytics skills
- Concerns about maturity/reliability of big data technologies
- Other

N = 316

Top analytics-related challenges

- As expected, data quality concerns top the list of challenges.
- Also on the rise: Gaining executive support/funding for analytics projects - which could be a result of heightened scrutiny w/r/t budget spending.
- Difficulty implementing new analytics technologies is also on the rise.

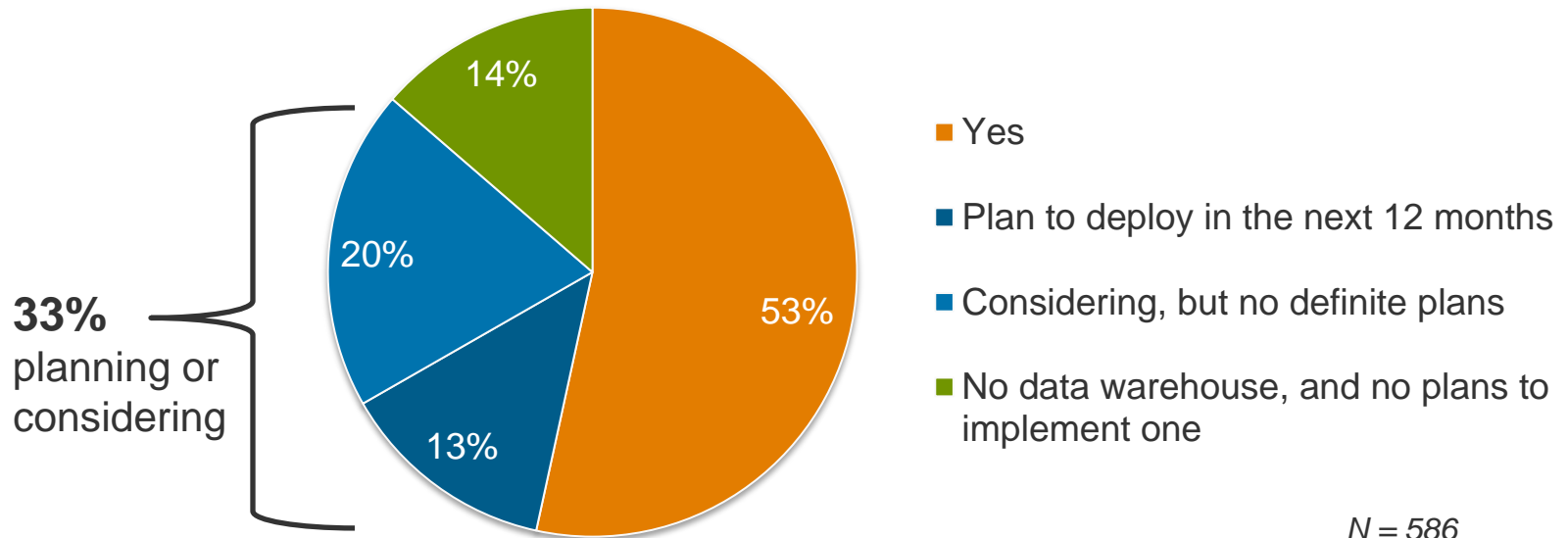
What do you expect to be your biggest analytics-related challenges over the next 12 months?



Data warehousing adoption trends

- Surprising to note that only a little over half of respondents report that they currently have at least one data warehouse installed.
- With a further 33% planning or considering a data warehousing implementation, this market is clearly still in growth mode.

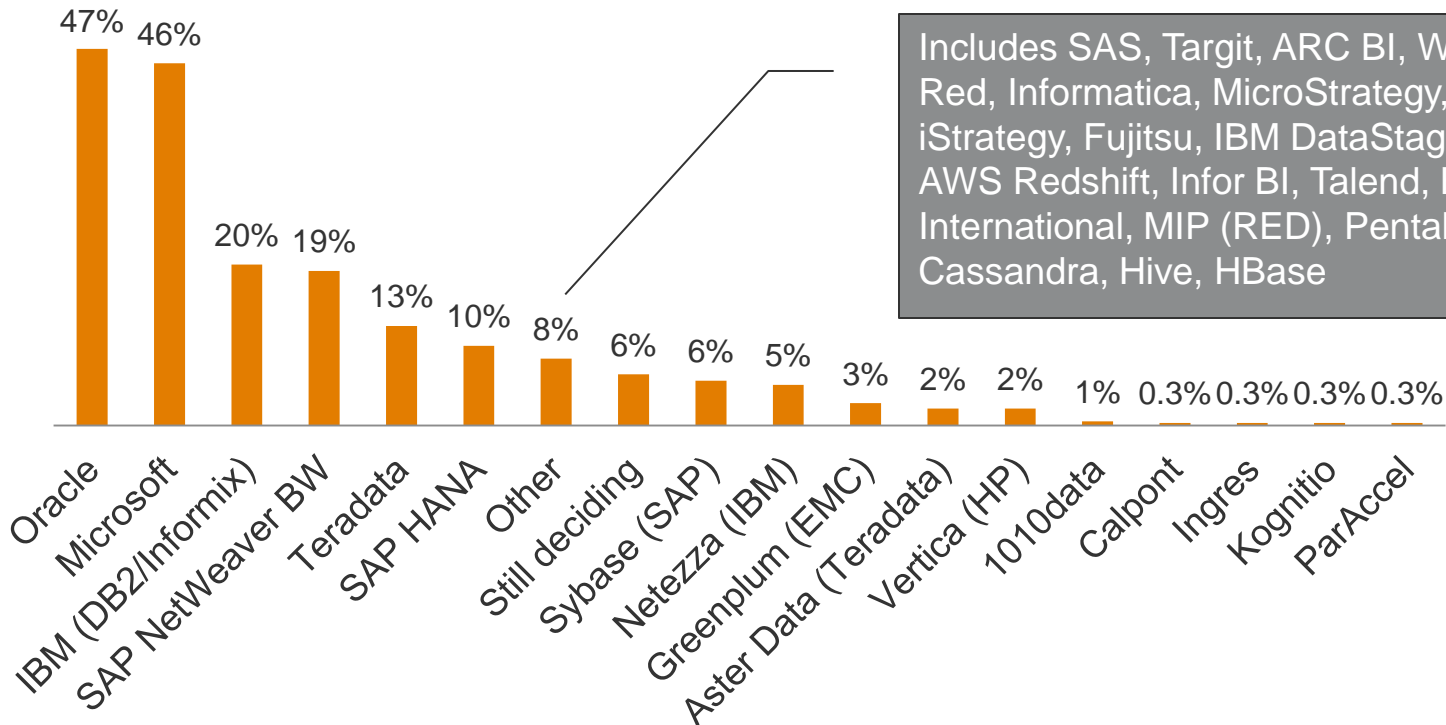
Does your organization have a data warehouse or multiple data warehouses installed, or does it plan a deployment within the next year?



Top data warehousing vendors

- Oracle and MSFT continue to dominate in the data warehousing space, however, SAP HANA is quickly gaining traction.

Which vendors do you currently use, or plan to use, for data warehousing?

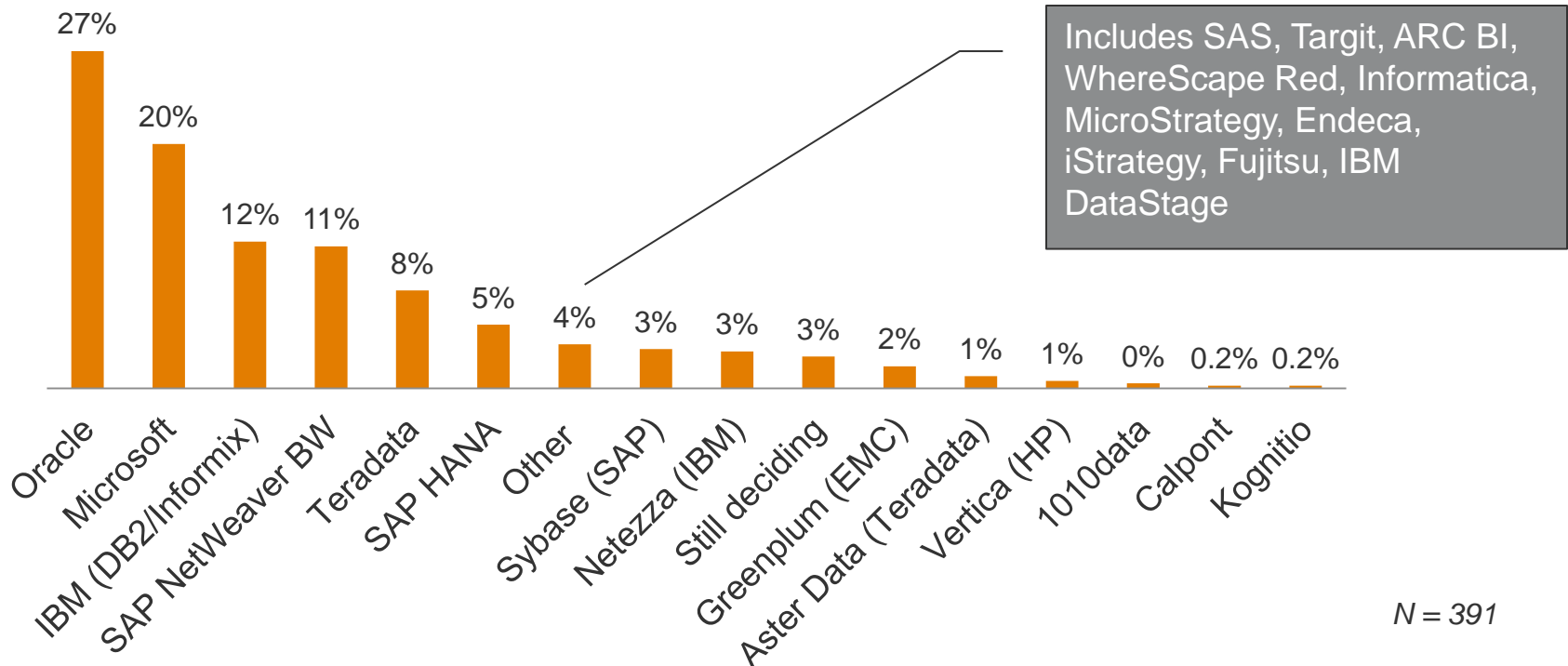


N = 391

Top data warehousing vendors (1k+ employees)

- Oracle takes a lead against MSFT in the data warehousing space for 1,000+ company size organizations.

Which vendors do you currently use, or plan to use, for data warehousing?

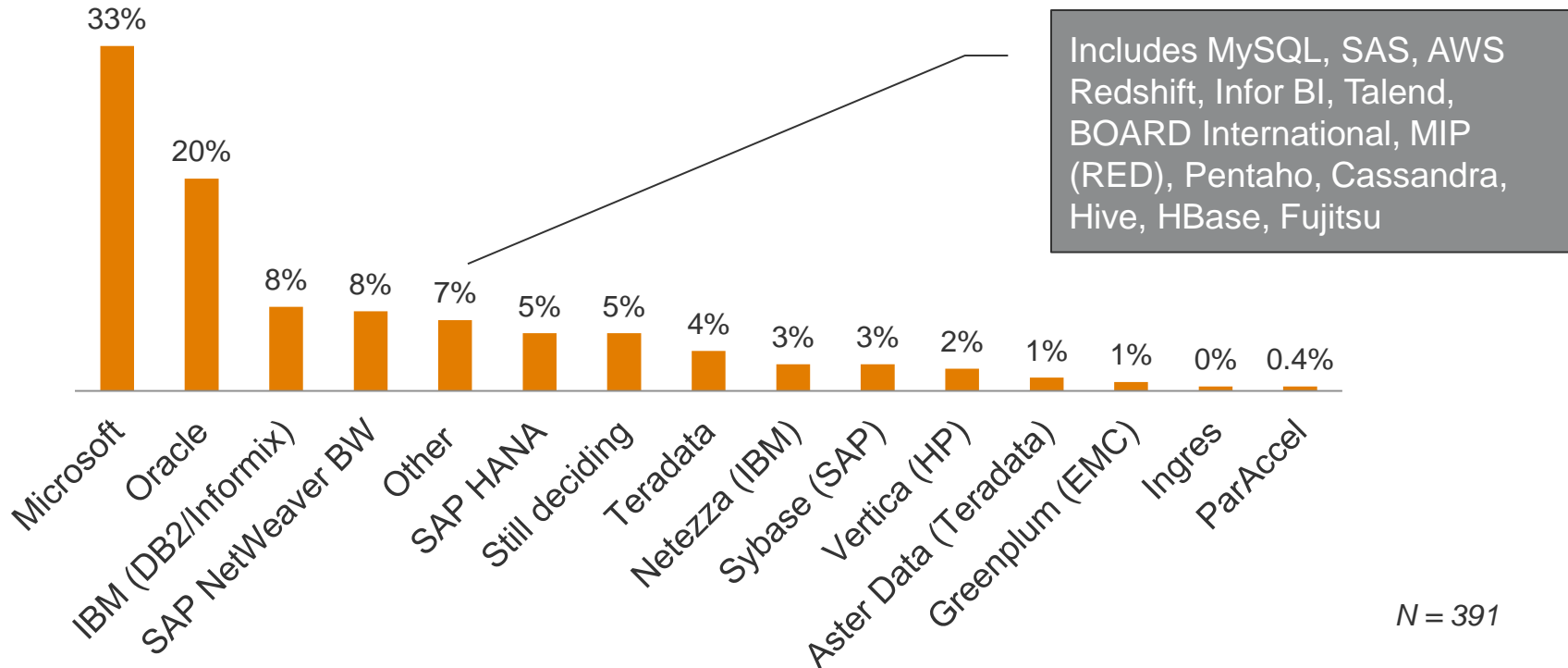


N = 391

Top data warehousing vendors (100-1k emp.)

- MSFT takes a lead against Oracle in the data warehousing space for 100 – 1k company size organizations.

Which vendors do you currently use, or plan to use, for data warehousing?

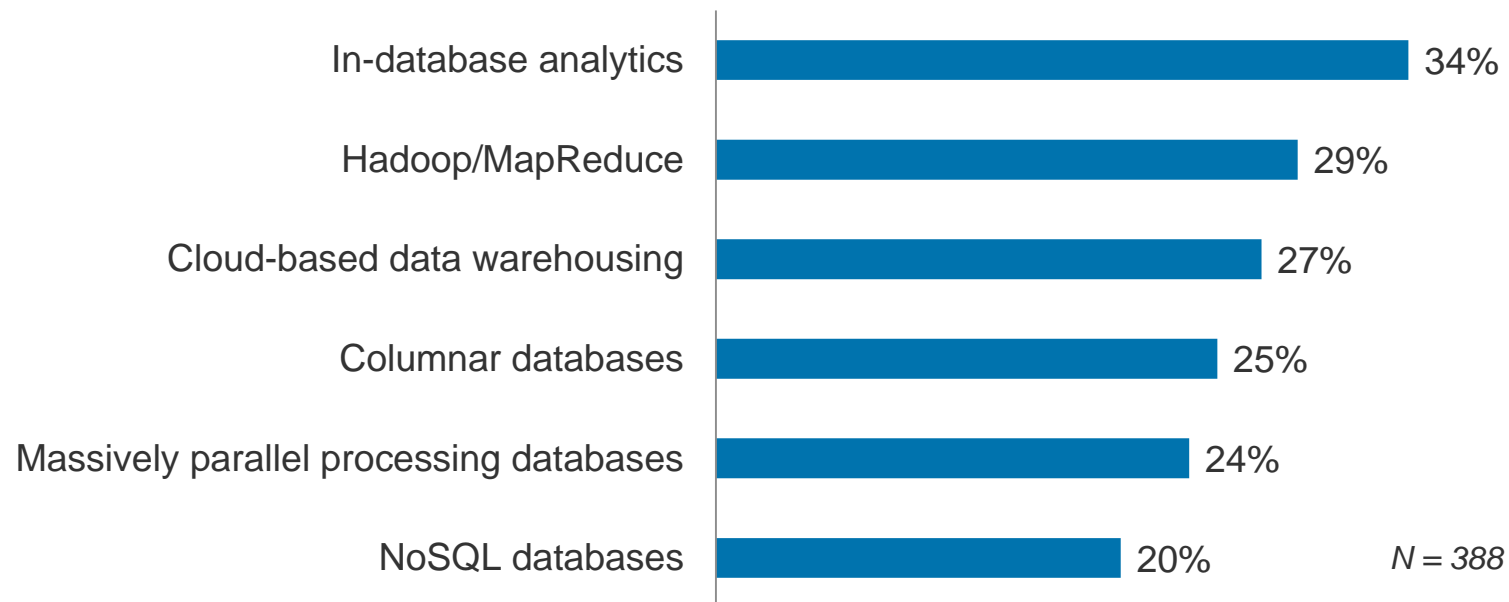


N = 391

In-database analytics is #1 data warehouse technology respondents plan to add

- Significant investments planned for both in-database analytics and Hadoop.
- This data shows further evidence that SAP HANA is fast-growing in popularity.

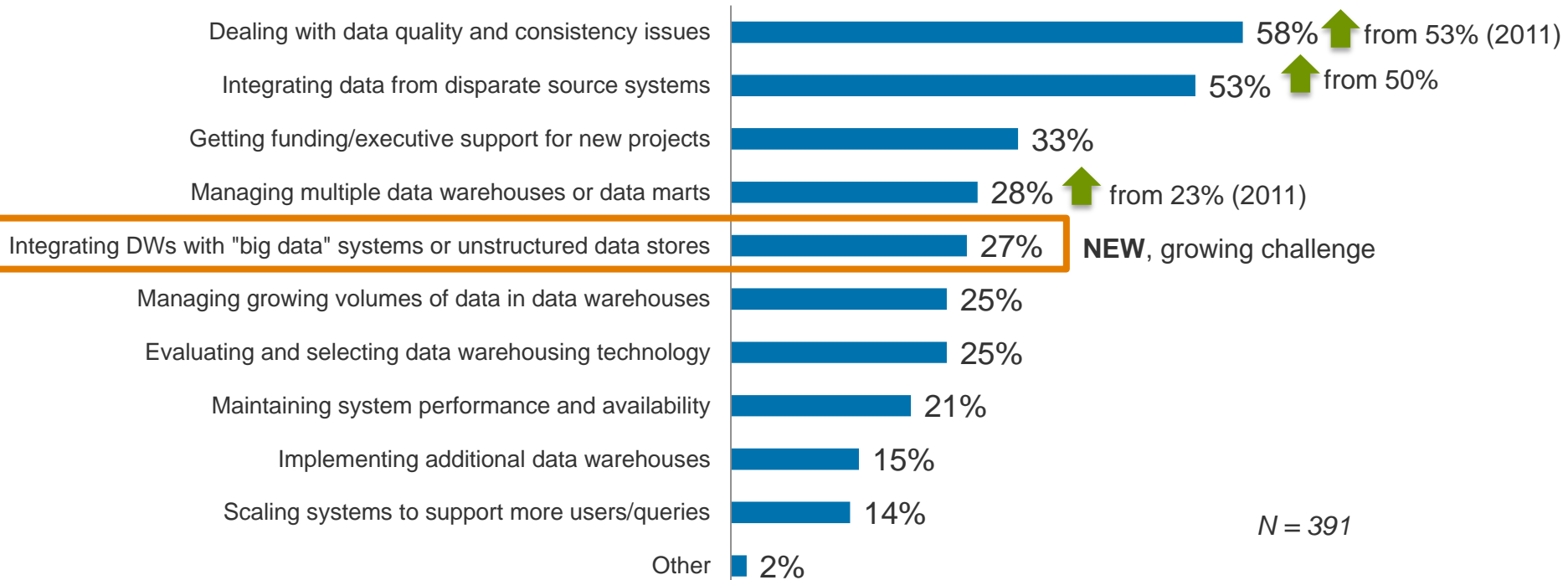
Which of these new or emerging technologies related to data warehousing does your organization plan to deploy in the next 12 months?



Biggest data warehousing challenges

- Data quality issues still rank as the biggest DW challenge users anticipate in the coming year.
- The onslaught of data from new and varied sources is clearly a contributing factor.

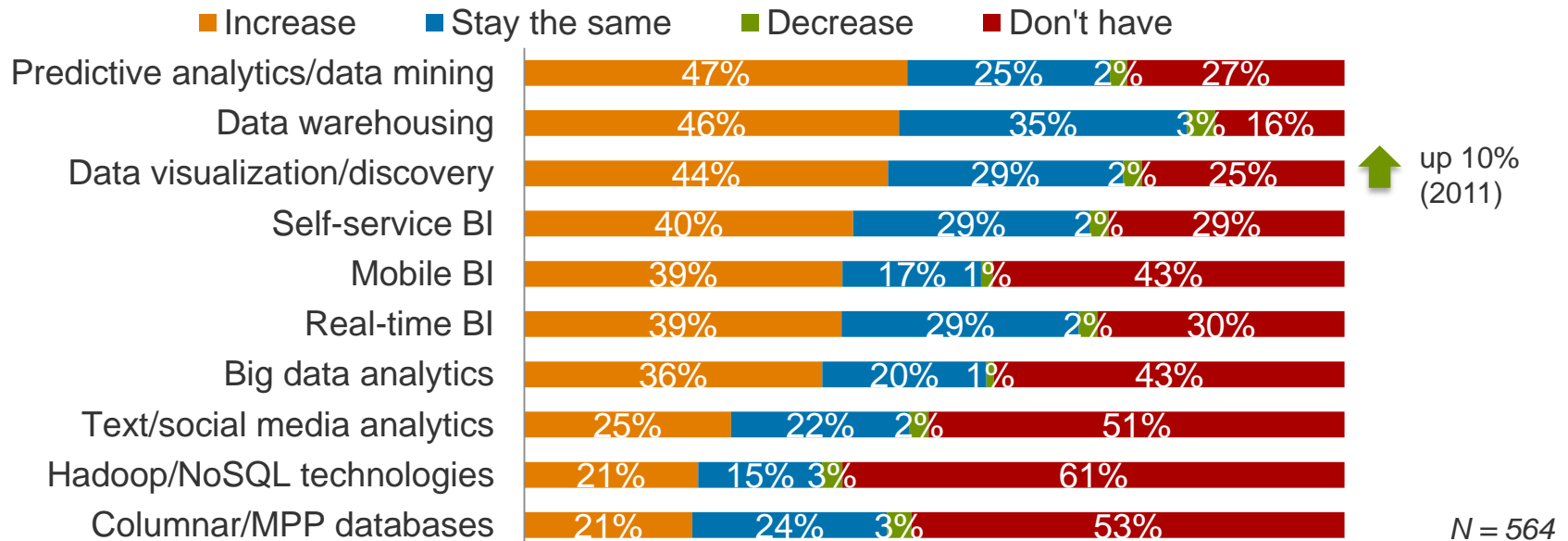
What do you expect to be your biggest data warehousing challenges over the next 12 mos?



Upcoming spending intentions

- Spending increases planned in many areas.
- Most notable increase is planned investment in data visualization/discovery technologies which jumped 10% from 2011.
- Companies also planning to add self-service, mobile and real-time functionality.

Over the next 12 months, how do you expect your organization's spending to change in the following technology areas?

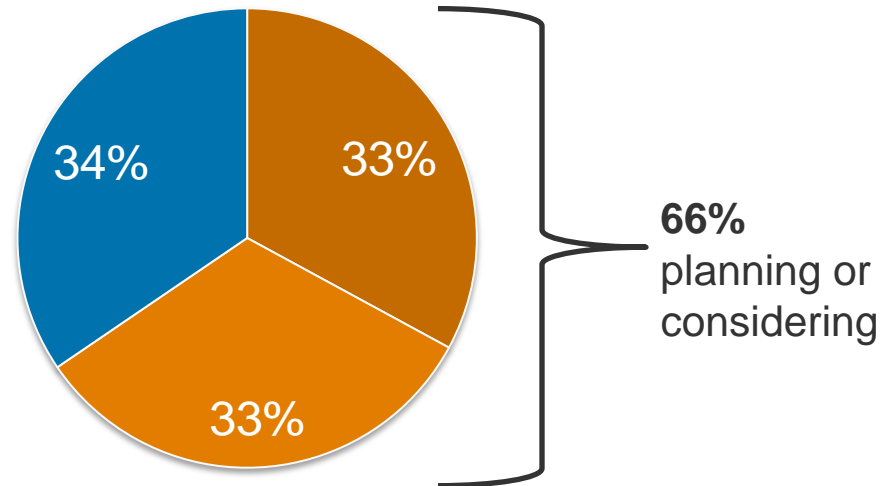


Hardware investment plans

- A robust infrastructure is an essential factor in optimizing BI/analytics performance.
- As is evidenced by the fact that 2/3 of our readers plan to add to/upgrade their existing server hardware in the coming 12 months or are considering new purchases.

Does your organization plan to buy new server hardware in the next 12 months or upgrade existing servers to support your BI, analytics and data warehousing systems?

- Yes, new purchases or upgrades planned
- Considering purchases/upgrades, but no set plans
- No



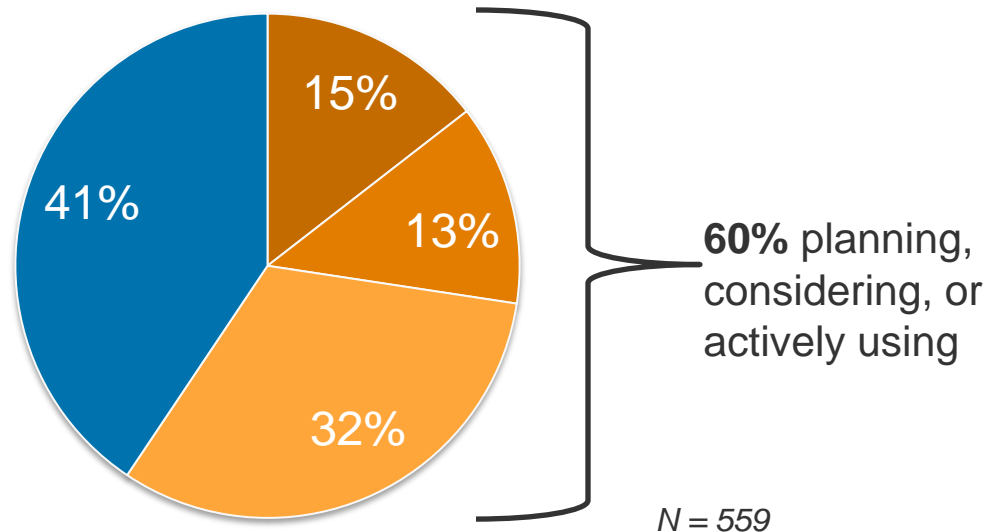
N = 565

Current/future cloud adoption trends

- The cloud continues to play a critical role in supporting BI, analytics, and DW initiatives with 3 out of 5 respondents reporting that they are planning, considering or actively using the cloud.
- Also interesting to note that a majority of users (32%) are still in the consideration phase which could be indicative of lingering skepticism toward cloud security.

Does your organization run or plan to run any part of its BI, analytics and data warehousing systems in the cloud?

- Yes, active cloud user
- Plan to start using the cloud in the next 12 months
- Considering, but no set plans
- No



Key takeaways/trends to watch

- Integration continues to be a major factor influencing BI purchasing decisions.
- As BI becomes more pervasive throughout the enterprise, BI teams are becoming more centralized, cross-functional.
- 47% of readers plan to add mobile BI in the coming year.
- Significant investments planned for data visualization/discovery technologies as well as in-database analytics and Hadoop.
- More than $\frac{3}{4}$ of respondents do not currently have an established big data management and analytics program in place.
- Lack of budget, proven ROI, top the list of obstacles preventing companies from gaining stronger support for big data analytics projects.
- $\frac{2}{3}$ of our readers plan to add to/upgrade their existing server hardware, or are considering new purchases, to support BI/analytics in the coming 12 months.
- The cloud is gaining traction but some skepticism still remains.