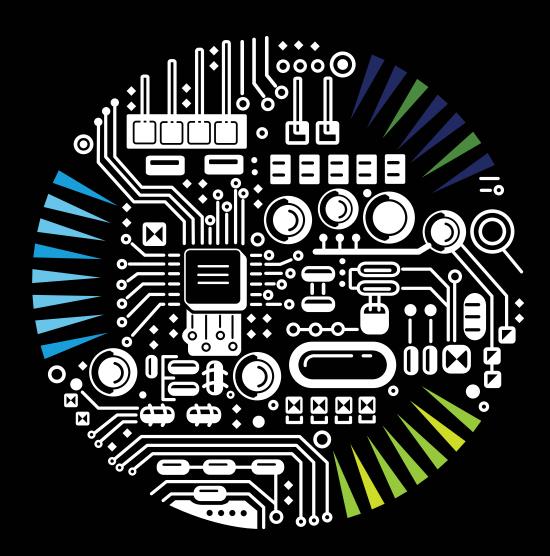
Deloitte.



Appendix—Full survey results

Technology in the mid-market—Taking ownership

A Deloitte Growth Enterprise Services report August 2016

Technology in the mid-marketTaking ownership

From June 17 to July 5, 2016, a Deloitte survey of mid-market companies was conducted by OnResearch, a market research firm. The survey examined technology trends taking place in this market segment to determine the role that technology plays and how it influences business decisions.

The 500 survey respondents represented mid-market companies with annual revenues ranging from \$100 million to more than \$1 billion. Nearly six out of every 10 respondents were C-suite executives, while the remaining executives held other management roles. Eighty percent of the respondents represented companies that are privately held, while the remainder represented publicly-traded firms. Just over one third of the respondents were from technology, media and telecommunications companies; one quarter hailed from consumer and industrial products companies; the remainder were divided among energy and resources, financial services, life sciences and health care, and other industries.

The full survey results are included in this appendix; some percentages in the charts throughout this appendix may not add to 100 percent due to rounding, or for questions where survey participants had the option to choose multiple responses.

The report based on these survey findings, **Technology in the mid-market—Taking ownership,** can be found on our website at www.deloitte.com/us/mid-market-technology.

Business environment

Over the past 12 months, my company's revenue growth has been:

31% or higher



21% - 30%



16% - 20%



11% - 15%



5% - 10%



1% - 4%



0%



Negative 1% - 4%



Negative 5% - 9%

0.8% 0.8% 1.0%

Negative 10% or lower

0.6% 0.6% 0.8%

20162015

■ 2014

How has your company's headcount changed over the last 12 months?

Increased 10% or more



Increased between 6% and 9%



Increased up to 5%



No change/stayed the same



Decreased by 5% or less



Decreased between 6% and 9%



Decreased 10% or more

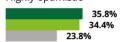


■ 2016

20152014

My company's business outlook over the next 12 months appears to be:

Highly optimistic



Cautiously optimistic



Neutral



Pessimistic



Highly pessimistic

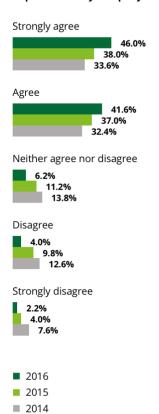
1.0% 0.6% 0.2%

20162015

■ 2014

Business environment (cont.)

Please indicate your level of agreement with the following statement: "Operating globally is important to my company's overall strategy."



Technology trends

What is your company's current "spend" on technology?

We do not currently have a separate, identifiable spend



Our spend is negligible (< 1% of revenue)



We spend between 1-5% of revenue on technology



Our spend is above 5% of revenue



Don't know



2016

2015

2014

Compared to last year, my company's current level of technology spend is:

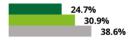
Significantly higher



Higher



About the same



Lower



Significantly lower

0.2% 0.5% 0.0%

2016

20152014

Who leads the adoption of new and emerging technologies within your company?

Business leaders (CEO, CFO, COO, business unit I



IT leaders (CTO, CIO, IT department leaders)



24.2%

Other 0.2%

What areas were the focus of your company's information technology budget spend in the past 12 months? Select all that apply.

Implementation of new information security processes

53.5%



Threat prevention (monitoring/ detection)

53.5%

Educating employees about risks and adhering to security protocols

Investing in software to mitigate security risks

51.4%

Investing in hardware to mitigate security risks

46.2%

Hiring or contracting with cybersecurity specialists to address security risk

12.6%

How does your organization handle adoption of new technology trends?

Driven by IT leadership



We have processes in place for exploring emerging technologies



Driven largely by business leadership direction



Specialized business units are focused on innovation



Reactionary (driven by customer/supplier need or demand)*



Other



- **2016**
- 2015
- 2014

How would you describe the role of executive leadership in your organization with regard to emerging and next-generation technologies (including cloud, mobile, and social)?

They are leading the charge



They are actively engaged



They are passive, but willing to be engaged



They have bigger fish to fry



They are actively obstructing change



Not applicable/don't know



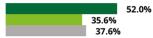
- **2016**
- 2015
- 2014

Technology is often perceived differently in organizations. How does your company's leadership value the role that technology plays? Select only one.

Critical (differentiator and key to growth)



Strategic (not an expense, but more of an investment)



Necessary (sometimes an investment, but often seen as an expense)



Not critical (necessary but certainly not an investment, only an expense)

- 1.2% 1.2%
- 1.8%
- 2016
- 2015
- 2014

How would you describe your organization's spend on the maintenance of existing systems as compared to investment in the implementation of the latest technology (e.g., an 80-20 mix will include 80% of budget spend on maintenance, with 20% invested in the implementation of new technology)?















2016 2015

Which of the following statements is true about your IT department's involvement with the end customer of your organization? Select all that apply.

Our IT department is focused on delivering seamless/integrated customer experiences



We are actively building technology platforms to better engage with customers



Our IT department is involved in designing of products and customer solutions



Our corporate strategy emphasizes customer acquisition, retention and loyalty



Gathering and analyzing customer data is a priority for the IT organization



Technology and Marketing departments have established joint processes and governance



Our IT department has no involvement with the end customer*



None of the above



2016

2015

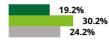
*Response not offered in prior years

What is the biggest IT challenge faced by your organization? Select only one.

Information security*



Keeping up with new technology



Budget to implement new technology



Tactical hurdles



Leadership support



Understanding ROI



Not having the right talent/skill set



Other



2016

2015

■ 2014

^{*}Response not offered in prior years

Please indicate how technology has generated changes within your business. Select all that apply.

Increased overall productivity to free up talent to assume new or additional responsibilities



Enhanced business planning and execution of strategies



Streamlined business processes to reduce cost



Increased customer conversion or retention by detecting patterns of behaviors



Simplified maintenance of business assets, equipment



Detection of anomalies, disruptions, threats to the business



Other



Don't know/Not sure



Not applicable



2016

2015

How would you describe the current state of IT governance within your organization?

Mature with established processes



Building and developing IT governance and processes and structures



Investigating IT process and improvement, but no formal governance in place



Little to no formal IT processes, structures, or awareness



Don't know/Not sure



20162015

■ 2014

What will be your organization's top three technology priorities for the next 12 months? Select up to three.

Managing cybersecurity and information risk



Improving existing business processes



Reducing IT costs and driving efficiency



Maintaining availability and performance of IT systems



Simplifying IT infrastructure and applications



Assisting in business innovation - developing new products and services



Adjusting/redesigning current IT operating model



Driving large complex technology implementation projects



Developing/improving the organization's digital capability



Providing timely and relevant information to business stakeholders



Other

0.0% 0.6%

Don't know/Not sure



What are the biggest drivers of technology investment at your organization? Select and rank the top three.



What is the preferred technology approach model for your business?

On-premises: systems, hardware and support staff at your physical location



Hosted solutions: pre-built system run, located and operated at a fixed monthly fee



Hybrid: A mix of on-premises, off-premises solutions based on your application and business needs



Off-premises: systems applications run and managed in the cloud using Software as a Service (SaaS) approach



Other

0.0%

0.0%

Don't know

0.4% 3.0% 6.2%

2016

2015

■ 2014

For hosted solutions, what is your preference?

On-premises as a fixed price traditional variable licensing model



A fixed monthly cost for your hosted preconfigured solution



Off-premises leading practice design solution with little ability to customize and pay-as-you-go pricing



Don't know

1.0% 2.3% 0.8%

■ 2016

2015

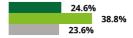
■ 2014

If your preference is off-premises, what are your goals?

Increase flexibility to scale, acquire, divest



Reduce IT CapEx/OpEx costs



Quickly obtain SOX compliance



Readiness for IFRS



Don't know



2016

2015

■ 2014

If you prefer a hybrid approach, what is most important to your company?

Ability to quickly adjust to a business need/change



Ability to customize



Ability to have IT own your system



Greater control over disaster recovery



Other



Don't know



2016

2015

■ 2014

Which of the following technology-related trends had the most significant impact on your business in the <u>past</u> 12 months? (Top ranked responses shown.)

Information security (cyber intelligence)

17.2%

Cloud infrastructure
13.0%

Analytics 11.6%

Cloud ERP or hybrid cloud applications

Big Data

8.2%

Mobility 6.4%

Social business/social media

6.2%

Legacy (core) system modernization

6.2%

Internet of Things (IoT)

6.0%

Artificial intelligence

4.6%

Virtual/augmented reality

4.0%

Wearable technologies

3.0%

3D printing (additive manufacturing)

2.2%

None of the above

2.8%

Which of the following technology-related trends will have the most significant impact on your business in the <u>next</u> 12 months? (Top ranked responses shown.)

Information security (cyber intelligence)

16.2%

Cloud infrastructure

10.8%

Analytics

9.8%

Big Data 9.6%

Mobility

7.4%

Cloud ERP or hybrid cloud applications

6.6%

Social business/social media

6.4%

Internet of Things (IoT)

5.8%

Legacy (core) system modernization

5.4%

3D printing (additive manufacturing)

5.0%

Artificial intelligence

4.8%

Wearable technologies

4.8%

Virtual/augmented reality

3.8%

None of the above

3.6%

Which of the following technology-related trends currently have the most significant impact on your workforce? (Top ranked responses shown.)

Information security (cyber intelligence)

14.2%

Cloud infrastructure

11.4%

Analytics

10.0%

Mobility

9.2%

Social business/social media

8.4%

Big Data

8.0%

Legacy (core) system modernization

7.4%

Internet of Things (IoT)

6.69

Cloud ERP or hybrid cloud applications

5.8%

Artificial intelligence

4.8%

Virtual/augmented reality

3.6%

3D printing (additive manufacturing)

3.6%

Wearable technologies

3.4%

None of the above

3.6%

Which of the following technology-related trends currently have the most significant impact on your customers? (Top ranked responses shown.)

Information security (cyber intelligence)

12.4%

10.8%

Social business/social media

Cloud ERP or hybrid cloud applications

3D printing (additive manufacturing)

Legacy (core) system modernization

Mobility

Analytics

9.0%

8.8%

8.4%

7.8%

7.6%

6.2%

Big Data
6.0%

4.6%

4.6%

4.4%

4.6%

Wearable technologies

Virtual/augmented reality

None of the above

Cloud infrastructure

Internet of Things (IoT)

Artificial intelligence

Cloud infrastructure 39.8% Analytics 38.0% Big Data Internet of Things (IoT) 35.0% Mobility 34.6% Information security (cyber intelligence) 32.0% Cloud ERP or hybrid cloud applications 28.4% Social business/social media 26.4% Legacy (core) system modernization 20.6% Artificial intelligence 18.8% Wearable technologies 16.6% Virtual/augmented reality 16.2% 3D printing (additive manufacturing) 15.4% None of the above 1.2%

Which of the following technology-related

trends have the potential to produce the

greatest productivity gains for your

organization? Select all that apply.

Cyber and information security

Of your company's technology spend, what percentage is tied to information security? Select only one.

Our spend is negligible (< 1% of overall technology spend)



We spend between 1-5% of overall technology spend on information security



Our spend on information security is above 5% of overall technology spend



Don't know/Not sure



- 2016
- 2015

What are the data privacy and security risk issues of concern to your company? Select all that apply.

Phishing and targeted attacks*



Employee-introduced risk compromising data or infrastructure**



Migration to cloud



Integration with external systems (business partners, customers)



Mobility



Internal access controls



- **2016**
- **2015**
- 2014

Cyber and information security (cont.)

How does your company mitigate information security risks? Select all that apply.



We have a plan in place to manage external information security threats



We have a plan in place to manage internal informational security threats



We offer education and training on information security matters



We have governance structures and procedures in place concerning information security threats



We do not currently have plans in place to mitigate information security risks

1.0% 0.0%

Other

0.2%

0.0%

Don't know/Not sure

0.0% 4.0%

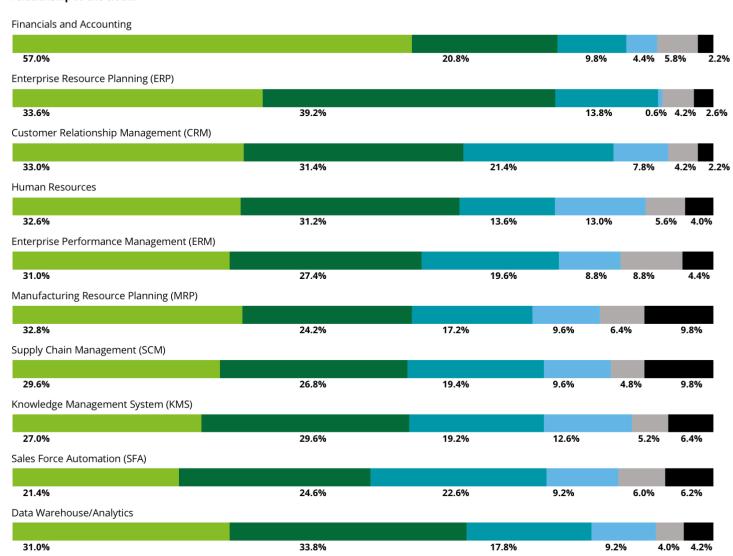
2016

2015

^{*}Response not offered in prior years

Cloud

For each of the following functions, please describe each function's relationship to the cloud.



- Mature: successful deployments
- Building: in the deployment phase of production
- Experimenting: pilot projects started or being planned
- Investigating: interested in the potential opportunities
- No action/Waiting
- No action/No need

Cloud (cont.)

What is the most significant factor influencing the pace of your organization's current adoption of cloud-based services? Select only one.

Integrating with existing applications and infrastructure



Issues concerning data privacy and security risks



Understanding business drivers and value proposition of cloud-based services



Need for greater "speed to value" in terms of traditional on-premises IT implementation*



Funding, staffing and talent



No need at this time



- **2016**
- 2015
- 2014

What do you consider to be your top three challenges in using cloud-based services? (Top ranked responses shown.)



1.4%

Cloud (cont.)

Please rank your top three reasons to select cloudbased applications. (Top ranked responses shown.)

Improve speed of implementation (time to value)

20.8%

Reduce concerns about data security

17.0%

Reduce capital expenditure

16.2%

Enable global expansion

15.6%

Reduce operational expenditure

15.2%

Address growth needs-scaling, M&A activity, etc.

13.6%

If you are using or considering more than one cloud-based application or package, what would you say is the greatest challenge?

Integration across all packages

40.0%

Management of differing cloud solution upgrade cycles

22.29

The ability to manage multiple cloud vendors

20.8%

Resource knowledge (internal or external)

15.6%

Other

0.2%

Don't know/Not sure

1.2%

Internet of Things

As growing numbers of devices are networked, internet-enabled and take action without human intervention, which term most closely describes your organization's current use of the "Internet of Things" (IoT)?

Mature — effective deployments



Building — in the deployment phase of production for Internet of Things



Experimenting — pilot projects started or being planned



Investigating — interested in the potential opportunities Internet of Things offers



Waiting — no action taken yet



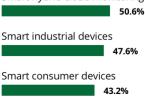
No action planned — not relevant to our business strategy



- **2016**
- 2015

If your company develops products linked to the "Internet of Things," how would you categorize these products?

Smart hybrid cloud monitoring



We do not develop products linked to IoT

10.0%

What are some common applications for the Internet of Things that your company is pursuing? Select all that apply.

47.0%

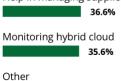




Tracking employee productivity



Help in managing supplier behavior



Lace

0.6%

We do not utilize products linked to the IoT

5.8%

Analytics

How is your company using data analytics? Select all that apply.

Increase accuracy in forecasting and reporting business results

61.2%

Predictive client, customer, or business behavior analysis

54.2%

Understanding internal operational patterns and behaviors

52.4%

Exposing the value of data to make sound business decisions

52.0%

Don't know/Not sure

We do not use data analytics

1.2%

1.4%

What would your organization see as the greatest value of data analytics?

Increased operational effectiveness



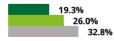
Greater competitive edge in understanding customer trends



Increased customer intimacy



Ability to predictively manage aspects of the business



Other

0.0% 0.2% 0.4%

Don't know/Not sure



20162015

■ 2014

Analytics (cont.)

Which business areas are using or leveraging data analytics within your company? Select all that apply.

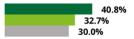
Sales/customer management



Marketing



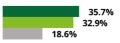
Manufacturing



Finance/tax



Human resources



Other



Don't know/not applicable



2016

2015

■ 2014

Which term most closely describes your organization's current use of predictive (cognitive) analytics?

Mature — successful deployments (e.g. ERP, DRM, HR)



Building — in the deployment phase of production for predictive (cognitive) analytics



Experimenting — pilot projects started or being planned



Investigating — interested in the potential opportunities predictive (cognitive) analytics offer



Waiting - no action taken yet



No action planned — not relevant to our business strategy



2016

2015

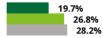
Analytics (cont.)

How would you describe the quality of data within your organization?

Fragmented and no clear structure or format across business areas



Need moderate data cleansing



Data cleansed but need to structure for efficient use and validation



Data ready for broad analytics use



Other

0.0% 0.2% 0.4%

Don't know/not sure

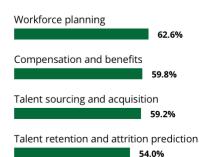


2016

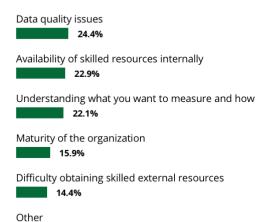
2015

■ 2014

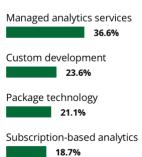
Within Human Resources, which are the areas where your company leverages data analytics? Select all that apply.



What is your biggest hurdle in adopting predictive analytics?



What is your company's preferred approach to implementing data analytics?



0.4%

Analytics (cont.)

In which areas do predictive (cognitive) analytics hold the most promise for your business? Select all that apply.

Managing large amounts of data (customers, patients, members)



Identifying business investment/expansion opportunities



Predicting disruptive business events



Talent recruitment and retention



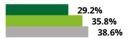
No action planned — not relevant to our business strategy



- 2016
- **2015**

Which of the following is most important to your company with regard to the use of social platforms for your customer interactions?

Real-time communication



Monitoring and understanding consumer sentiment



Greater integration/intimacy



Automation in customer response/relationship processes



Other



Don't know



- 2016
- **2015**
- 2014

Social and virtual/augmented reality

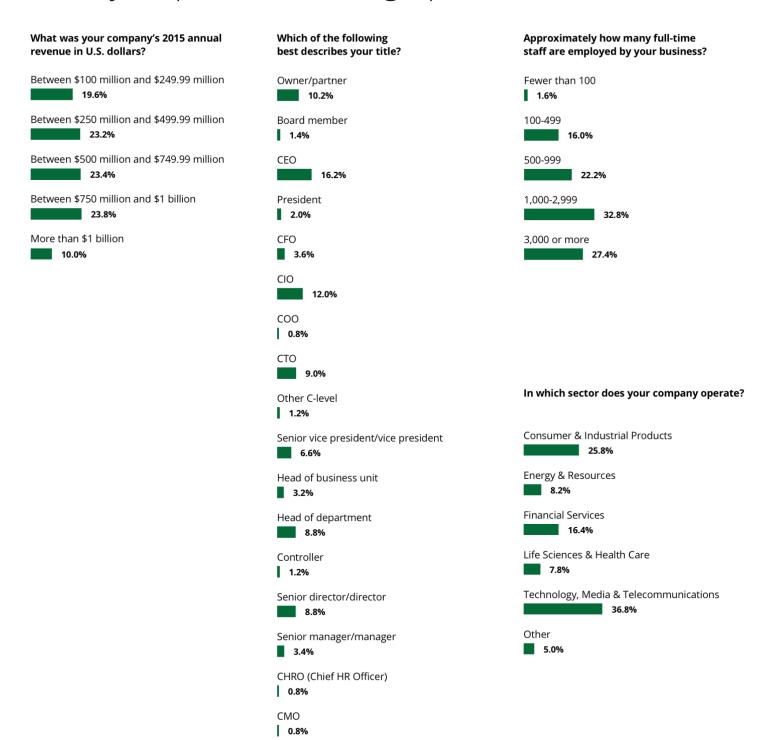
Which of the following is most important to your company with regard to the use of social platforms for your employee interactions?

Enhance collaboration, productivity and engagement
43.6%

Improve transparency within the organization
32.4%



Survey respondent demographics



Survey respondent demographics (cont.)

Which of the following describes your level of knowledge regarding your organization's information technology?



- I am very knowledgeable about our information technology: 90.4%
- I am somewhat knowledgeable: 9.6%

Is your company private or public?



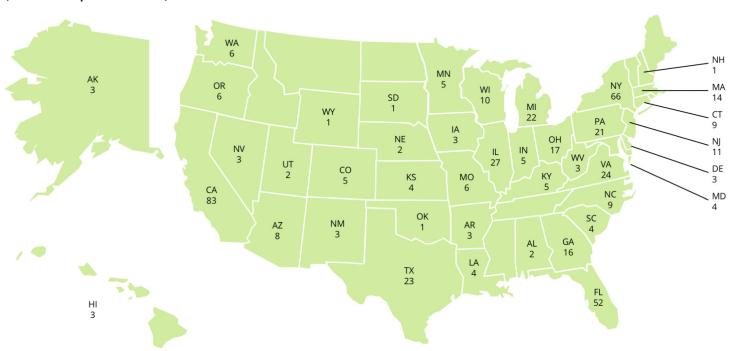
- Private: 80.0%
- Public: 20.0%

If private, which category best describes your company?



- Family-owned: 21.3%
- Closely held (excl. family-owned): 36.5%
- Private equity owned: 38.8%
- Venture capital backed: 3.5%

In which state is your company's headquarters located? (Number of respondents shown.)



Perspectives

This report is just one example of Deloitte research on topics of interest to privately held and mid-market companies. Presented by Deloitte Growth Enterprise Services, Perspectives is a multifaceted program that utilizes live events, signature reports, research publications, webcasts, newsletters, and other vehicles to deliver tailored and relevant insights in an integrated fashion.

Please visit our Perspectives library on the Deloitte Growth Enterprise Services website (http://www.deloitte.com/us/perspectives/dges) to view additional material on issues facing mid-market private companies.

Acknowledgment

We would like to thank all survey respondents and interviewees for their time and the insights they shared for this report , *Technology in the mid-market—Taking ownership*.

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