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About Bank Director

Bank Director reaches the leaders of the institutions that comprise America's banking industry. Since 1991, Bank Director has provided board-level research, peer insights and in-depth executive and board services. Built for banks, Bank Director extends into and beyond the boardroom by providing timely and relevant information through Bank Director magazine, board training services and the financial industry's premier event, Acquire or Be Acquired. For more information, please visit www.bankdirector.com.

Bank Director.

About CDW

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EXECUTIVE SUMMARY

In mid-July, at the peak of second quarter earnings, large regional banks showed off an array of technology initiatives. Providence, Rhode Island-based Citizens Financial Group, with \$227 billion in assets, highlighted a new mobile app for its direct-to-consumer digital bank. And \$591 billion U.S. Bancorp in Minneapolis realized the benefits of its ongoing investments in digital payments capabilities over the years, reporting \$996 million in payments services revenue, or a year-overyear increase of nearly 10%.

Community banks, with far fewer dollars to spend, have to budget wisely and invest where it makes the most sense. For many, that means prioritizing new technology features and updates in areas like security, or where customers frequently interact with the bank, like payments or digital loan applications.

Bank Director's 2022 Technology Survey, sponsored by CDW, delves into some of these strategies, asking bank senior executives and board members about the concerns and challenges that their institutions face, and where they've been investing their resources in technology.

Eighty-one percent of respondents say their bank increased its 2022 technology budget over last year, reporting a median 11% increase. Asked where their bank built more efficient processes by deploying new technology or upgrading capabilities in the past 18 months, 89% named cybersecurity as a key area for investment, followed by security and fraud (62%). During the same time period, 63% implemented or upgraded payments capabilities to improve the customer experience; 54% focused on enhancing digital retail account opening.

Leveraging technology to create a more competitive and efficient organization requires internal knowhow, and directors and executives find this to be a key area for concern: 48% worry about an inadequate understanding within the bank of emerging technologies. Forty-five percent say they're worried about their organization's reliance on outdated technology.

While directors aren't involved in day-to-day decisions about the bank's technology, the board needs to align technology with strategy and ensure that the bank has the resources it needs to achieve its goals. Forty-two percent of respondents say their board has at least one member they would consider to be an expert in technology, including digital transformation, user experience or data analytics.

Following on the heels of Bank Director's 2022 Compensation Survey, which found technology talent in demand, the 2022 Technology Survey indicates that most banks employ high-level executives focused on technology, particularly in the form of a chief information security officer (44%), chief technology officer (43%) and/or chief information officer (42%). However, few have a chief data officer or data scientists on staff — despite almost half expressing concerns that the bank doesn't effectively use or aggregate the bank's data.



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The Competitive Landscape

Fifty-six percent of all respondents view local banks and credit unions as their top competitive threat, followed by big and superregional banks, at 46%. One-third worry about competition from big tech companies such as Apple, while an equal number are concerned about competition from digital, nonbank business lenders.

Hit-or-Miss On Digital Applications

Nearly half of respondents say their bank has a fully digital process for opening retail deposit accounts, with larger shares representing banks over \$1 billion reporting as much. Far fewer respondents report a fully digital process for retail loans, small business deposits or loans, or commercial loans.

Generational Divides

Just 25% of the directors and executives surveyed say their bank has the tools it needs to effectively serve Generation Z, and half believe their institution can effectively serve millennials. Eighty-five percent say as much about Generation X, and 93% say this of baby boomers.

All-In On The Cloud

Eighty-eight percent say their bank uses cloud technology to generate efficiencies internally; 66% use application programming interfaces (APIs), which allow different applications or systems to exchange data. Robotic process automation (32%) and artificial intelligence or machine learning (19%) are far less commonly used.

New Frontiers

Three-quarters say their board or leadership team has discussed risks or opportunities related to cryptocurrency or digital assets in the past 18 months. Sixty-four percent say the same of banking as a service (BaaS), and 69% say that of environmental, social and governance issues. Cannabis, on the minds of 58%, has been more commonly discussed at banks under \$5 billion of assets.

Views On Collaboration

More than half of respondents view technology companies as vendors only, as opposed to collaborating with or investing in these firms. Thirty-nine percent, primarily representing banks over \$1 billion in assets, say their institution has collaborated with technology providers on specific solutions. Twenty percent have participated in a venture fund that invests in technology companies, and 11% have directly invested in one or more of these companies.

STRATEGY

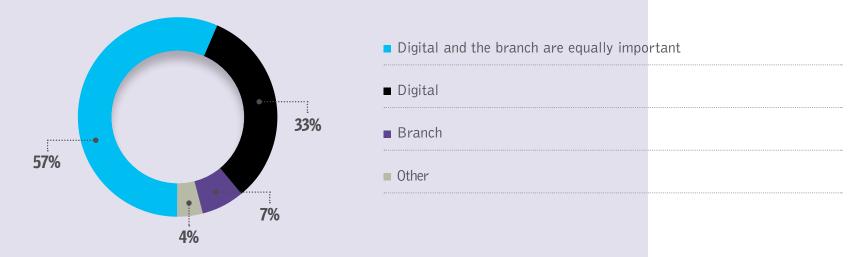
1. Of the following, which three do you consider to be the greatest competitive threat to your bank?

Respondents were asked to select no more than three options.

Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Local banks and/or credit unions	40%	50%	50%	67%	60%	56%
Big/superregional banks	60%	33%	60%	36%	36%	46%
Big tech companies such as Apple and Google (Alphabet)	40%	33%	41%	18%	36%	33%
Digital, nonbank business lenders	10%	17%	29%	42%	44%	33%
Digital payments providers such as Square and Paypal	20%	33%	29%	27%	32%	29%
Neo/challenger banks that attract consumer deposits, such as Chime	30%	50%	21%	24%	20%	25%
Digital, nonbank mortgage lenders	20%	8%	29%	18%	28%	23%
Retailers such as Amazon.com and Walmart	20%	17%	12%	18%	20%	16%
Digital, nonbank consumer lenders	-	-	5%	9%	8%	6%
Other	-	8%	2%	9%	-	4%
Digital wealth management providers	-	-	2%	3%	-	2%

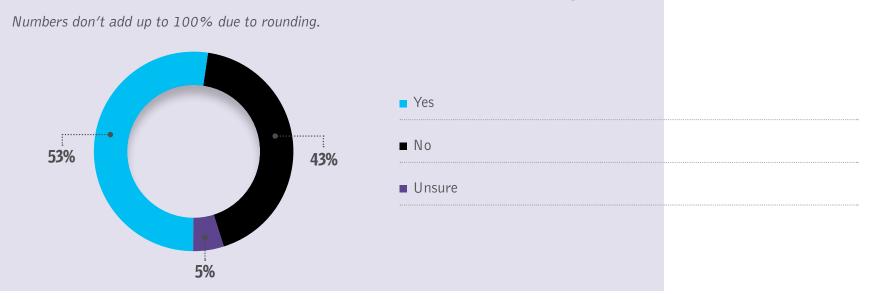
2. Which delivery channel is more critical to your bank's growth strategy?

Numbers don't add up to 100% due to rounding.



Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Digital and the branch are equally important	40%	58%	50%	70%	56%	57%
Digital	40%	25%	41%	24%	32%	33%
Branch	10%	8%	5%	3%	12%	7%
Other	10%	8%	5%	3%	-	4%

3. Over the past 18 months, has your bank changed the staffing within its branches and how services are delivered through its branches?



Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	50%	58%	60%	46%	48%	53%
No	50%	33%	36%	52%	44%	43%
Unsure	-	8%	5%	3%	8%	5%

SERVING CUSTOMERS

4. Can your bank's retail and business customers currently apply for deposit accounts and/or loans digitally?

Retail deposit accounts						
Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes, fully digital	70%	58%	56%	49%	20%	48%
Yes, partially digital	10%	33%	27%	24%	44%	29%
No	10%	-	15%	24%	36%	20%
N/A	10%	8%	2%	3%	-	3%

Retail loans (mortgages, consumer loans, etc.)						
Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes, fully digital	10%	50%	39%	33%	16%	31%
Yes, partially digital	70%	42%	42%	49%	36%	45%
No	20%	-	12%	15%	48%	20%
N/A	-	8%	7%	3%	-	4%

Small business deposit accounts						
Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes, fully digital	50%	25%	30%	28%	8%	26%
Yes, partially digital	20%	42%	28%	16%	44%	29%
No	30%	25%	40%	56%	48%	44%
N/A	-	8%	3%	-	-	2%

Small business loans (SBA, working lines of capital, etc.)							
Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total	
Yes, fully digital	10%	9%	23%	12%	4%	14%	
Yes, partially digital	50%	64%	35%	21%	25%	33%	
No	30%	18%	40%	67%	71%	51%	
N/A	10%	9%	3%	-	-	3%	

Commercial loans						
Bank Asset Size	>\$10B	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes, fully digital	-	17%	10%	13%	4%	9%
Yes, partially digital	40%	8%	28%	19%	28%	25%
No	60%	75%	62%	69%	68%	66%

5. Over the past 18 months, has your bank upgraded or implemented any of the following to enhance customer experience?

Respondents were asked to select all that apply. *Indicates a count of less than 10 within a category.







Payments capabilities

Digital retail account opening

Digital consumer or mortgage lending

Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Payments capabilities	50%	55%	74%	60%	56%	63%
Digital retail account opening	67%	73%	60%	40%	44%	54%
Digital consumer or mortgage lending	50%	36%	54%	40%	13%	41%
Digital business account opening	33%	27%	40%	28%	13%	30%
Chatbots or similar automated communications	50%	27%	29%	24%	25%	28%
Fraud resolution	17%	9%	31%	24%	31%	26%
Direct digital communications with bankers	33%	9%	37%	20%	6%	24%
Personal financial management/digital budgeting capabilities	33%	9%	37%	16%	13%	24%
Digital business lending	50%	9%	37%	8%	-	20%
Other digital banking services	17%	9%	11%	20%	13%	14%
Digital wealth management capabilities	-	18%	11%	8%	13%	11%

6. Do you believe that your bank has the tools in place to effectively serve the following generations of customers?

Gen Z (16-25 years old)						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	11%	27%	26%	31%	18%	25%
No	67%	27%	58%	58%	64%	57%
Unsure	22%	46%	16%	12%	18%	19%

Millennials (26-40)						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	56%	46%	46%	56%	50%	50%
No	44%	18%	35%	41%	18%	32%
Unsure	-	36%	19%	4%	32%	18%

^{*}Indicates a count of less than 10 within a category.

Generation X (41-56)						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	89%	82%	84%	82%	91%	85%
No	-	9%	14%	7%	-	8%
Unsure	11%	9%	3%	11%	10%	8%

Baby Boomers (57-75)						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	100%	82%	95%	96%	86%	93%
No	-	9%	5%	4%	5%	5%
Unsure	-	9%	-	-	9%	3%

7. Do you believe that your bank has the tools in place to effectively serve its small business and commercial customers?

^{*}Indicates a count of less than 10 within a category.

Small businesses								
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total		
Yes	67%	55%	66%	69%	86%	70%		
No	22%	27%	29%	23%	5%	22%		
Unsure	11%	9%	5%	8%	9%	8%		
Not applicable	-	9%	-	-	-	1%		

Mid-sized businesses						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	78%	64%	76%	74%	64%	72%
No	11%	27%	18%	17%	14%	18%
Unsure	11%	9%	3%	9%	23%	10%
Not applicable	-	-	3%	-	-	1%

Large, commercial enterprises								
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total		
Yes	78%	55%	38%	31%	23%	38%		
No	-	27%	38%	35%	36%	32%		
Unsure	22%	9%	22%	27%	27%	23%		
Not applicable	-	9%	3%	8%	14%	7%		

8. Over the past 18 months, has your bank's leadership team and/or board discussed opportunities and risks related to any of the following emerging areas?

^{*}Indicates a count of less than 10 within a category.

Cryptocurrency/digital assets								
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total		
Yes	67%	100%	84%	59%	68%	75%		
No	22%	-	13%	41%	32%	24%		
Unsure	11%	-	3%	-	-	2%		

Blockchain						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	67%	64%	50%	33%	27%	44%
No	22%	36%	36%	63%	68%	49%
Unsure	11%	-	14%	4%	5%	8%

Banking as a service						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	56%	73%	72%	56%	59%	64%
No	22%	27%	22%	44%	41%	32%
Unsure	22%	-	6%	-	-	4%

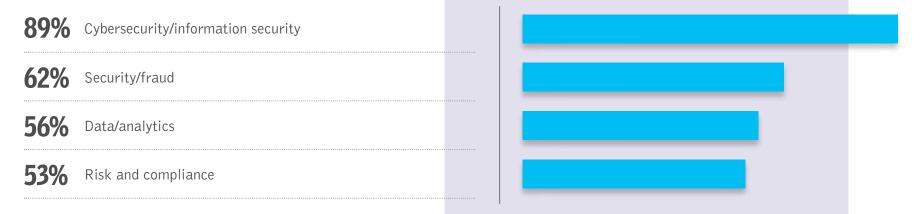
Cannabis						
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	25%	18%	70%	63%	64%	58%
No	50%	73%	30%	37%	32%	38%
Unsure	25%	9%	-	-	5%	4%

Environmental, social and governance (ESG)								
Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total		
Yes	100%	82%	78%	62%	41%	69%		
No	-	18%	19%	31%	55%	28%		
Unsure	-	-	3%	8%	5%	4%		

INVESTMENT

9. Over the past 18 months, in which areas has the bank deployed new technology or upgraded its capabilities to build more efficient processes?

Respondents were asked to select all that apply. *Indicates a count of less than 10 within a category.



Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Cybersecurity/information security	89%	100%	97%	77%	86%	89%
Security/fraud	56%	64%	69%	54%	62%	62%
Data/analytics	100%	64%	63%	39%	43%	56%
Risk and compliance	44%	36%	63%	42%	62%	53%
Audit/accounting	78%	91%	60%	27%	38%	52%
Loan underwriting/credit risk	78%	55%	60%	35%	33%	49%
Marketing	22%	36%	71%	42%	29%	47%
Human resources	67%	55%	49%	35%	29%	43%

10. Does your bank currently use any of the following technologies to generate efficiencies within the organization?

Respondents were asked to select all that apply. *Indicates a count of less than 10 within a category.



Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Cloud	78%	80%	91%	95%	81%	88%
Application programming interfaces (APIs)	100%	100%	75%	48%	31%	66%
Robotic process automation (RPA)	56%	60%	41%	14%	6%	32%
Artificial intelligence (AI)/machine learning	11%	40%	25%	19%	-	19%

11. How much has your bank budgeted for technology in fiscal year 2022?

Median values reported. *Indicates a count of less than 10 within a category.

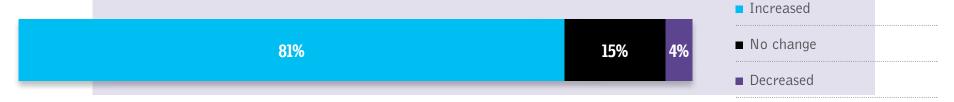


Median amount budgeted for technology

Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B*	<\$500M	Total
Median technology budget	\$25,000,000	\$10,000,000	\$3,700,000	\$375,000	\$250,000	\$1,000,000

12. Did your bank increase or decrease its budget for technology in FY 2022 compared to its technology budget for FY 2021?

*Indicates a count of less than 10 within a category.



Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Increased	100%	90%	82%	67%	85%	81%
No change	-	10%	9%	29%	15%	15%
Decreased	-	-	9%	4%	-	4%

13. By what percentage did your technology budget increase for FY 2022, compared to your bank's technology budget in FY 2021?

Median values reported. *Indicates a count of less than 10 within a category.



Median increase in technology budget

Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B*	<\$500M	Total
Median technology budget increase	15%	15%	10.5%	10%	15%	11%

14. Do you believe that your bank is spending enough on technology, relative to its strategy?

*Indicates a count of less than 10 within a category.



Bank Asset Size	>\$10B*	\$5B-\$10B	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes, I believe we spend enough on technology	67%	60%	69%	67%	60%	65%
No, I believe we spend too little on technology	33%	40%	28%	33%	40%	34%
No, I believe we're spending too much on technology	-	-	3%	-	-	1%

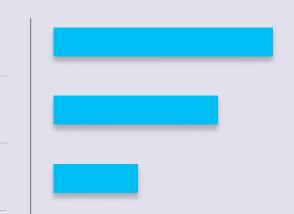
15. Over the past five years, has your bank partnered with financial technology companies in any of the following ways?

Respondents were asked to select all that apply. *Indicates a count of less than 10 within a category.



We have collaborated with one or more technology partners to develop specific solutions

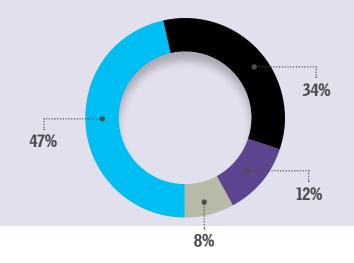
We have participated in a venture fund that invests in technology companies



Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
None of the above: We use technology companies as vendors only	22%	22%	38%	63%	90%	52%
We have collaborated with one or more technology partners to develop specific solutions	67%	44%	63%	21%	10%	39%
We have participated in a venture fund that invests in technology companies	33%	44%	28%	8%	5%	20%
We have directly invested in one or more technology companies	33%	11%	13%	8%	-	11%
Our bank has acquired one or more technology companies	-	11%	3%	8%	-	4%
Other	-	11%	-	-	-	1%

16. When evaluating the performance of technology solutions used by the bank, are providers generally expected to meet clear goals that align with the bank's strategy and objectives?

*Indicates a count of less than 10 within a category.



- We have high expectations for our providers but are also flexible on achieving these goals
- Yes, all solutions must meet the goals set by our team
- We don't set clear targets for our providers
- We don't consistently ensure that providers meet the goals set by our bank

Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
We have high expectations for our providers but are also flexible on achieving these goals	75%	22%	65%	29%	40%	47%
Yes, all solutions must meet the goals set by our team	13%	44%	23%	50%	35%	34%
We don't set clear targets for our providers	-	11%	-	21%	25%	12%
We don't consistently ensure that providers meet the goals set by our bank	13%	22%	13%	-	-	8%

LEVERAGING EXPERTISE

17. Does the chief information and/or chief technology officer report to the CEO?

*Indicates a count of less than 10 within a category.



Bank Asset Size	> \$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	38%	63%	58%	59%	60%	57%
No	63%	38%	42%	41%	30%	41%
Unsure	-	-	-	-	10%	2%

18. Which of the following positions do you currently have on staff at your bank?

Respondents were asked to select all that apply, and to choose the options that best align with their technology team's roles and responsibilities. *Indicates a count of less than 10 within a category.

Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Chief information security officer or equivalent executive position	86%	63%	46%	41%	25%	44%
Chief technology officer	86%	50%	42%	50%	20%	43%
Chief information officer	86%	75%	58%	23%	10%	42%
Developers/programmers	43%	50%	21%	9%	-	18%
Chief customer experience officer or equivalent executive position	29%	38%	21%	9%	5%	17%
None of the above	-	-	9%	14%	40%	16%
Data scientists	43%	25%	18%	5%	5%	14%
Chief digital officer or equivalent executive position	43%	50%	9%	9%	-	13%
Chief data officer or equivalent executive position	57%	25%	6%	5%	5%	11%
Chief innovation officer or equivalent executive position	14%	25%	18%	-	5%	11%
Chief strategy officer or equivalent executive position	14%	25%	12%	9%	-	10%

19. What are your greatest concerns about your bank's internal technology expertise?

Respondents were asked to select all that apply. *Indicates a count of less than 10 within a category.

48%



48%



45%



Not effectively using/aggregating our bank's data

Inadequate understanding of how emerging technologies could impact our bank

Reliance on outdated technology

Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Not effectively using/aggregating our bank's data	50%	57%	52%	44%	44%	48%
Inadequate understanding of how emerging technologies could impact our bank	38%	43%	41%	61%	50%	48%
Reliance on outdated technology	63%	57%	48%	44%	28%	45%
Inability to identify specific technologies to help our bank achieve its strategic goals	13%	14%	38%	44%	39%	35%
Product constraints and shortages	25%	-	35%	35%	22%	28%
Inability to identify specific companies/ resources to help our bank achieve its goals	13%	43%	28%	26%	17%	25%
Other	25%	14%	24%	4%	6%	14%
Ineffective vendor due diligence	25%	-	14%	9%	6%	11%

20. Overall, do you believe your bank allocates sufficient resources to technology and innovation?



Bank Asset Size	> \$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
Yes	50%	75%	64%	52%	35%	54%
No	38%	13%	33%	30%	45%	34%
Unsure	13%	13%	3%	17%	20%	12%

21. How frequently does your board discuss technology?

*Indicates a count of less than 10 within a category.



Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
At every board meeting	50%	50%	52%	26%	65%	48%
Once a quarter	37%	50%	42%	52%	20%	40%
Only during the annual strategic planning session	-	-	-	9%	10%	4%
Other	13%	-	6%	4%	-	4%
Our board never discusses technology	-	-	-	9%	5%	3%

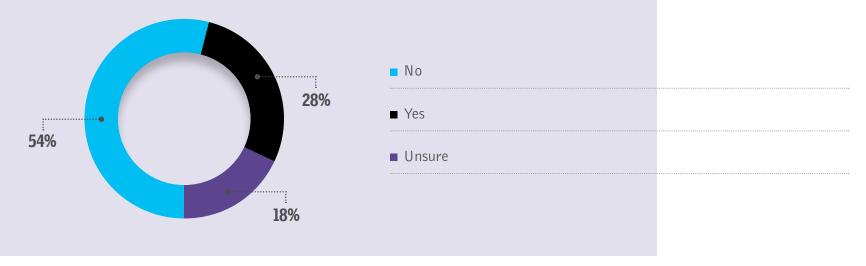
22. Does your board have at least one member who you would consider to be an expert in some area of technology, including digital transformation, user experience and/or data analytics?



Bank Asset Size	>\$10B*	\$5B-\$10B*	\$1B-\$5B	\$500M-\$1B	<\$500M	Total
No	50%	38%	42%	61%	70%	53%
Yes	50%	50%	55%	35%	25%	42%
Unsure	-	13%	3%	4%	5%	4%

23. Are you actively seeking to add a director with technology expertise to your board?

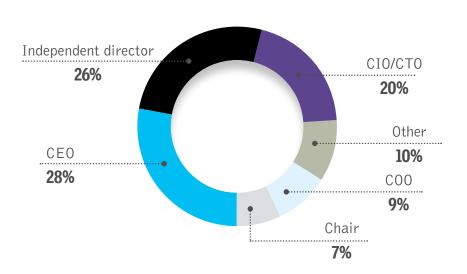
Respondents indicating that they were unsure about technology expertise in their boardroom were not asked this question.

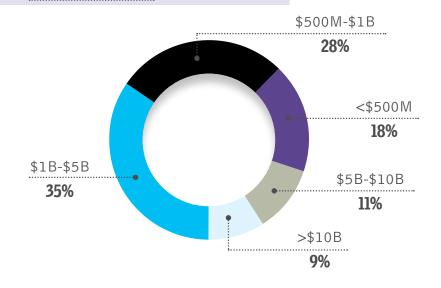


ABOUT THE SURVEY

Bank Director's 2022 Technology Survey, sponsored by CDW, surveyed 138 independent directors, chief executive officers, chief operating officers and senior technology executives of U.S. banks below \$100 billion in assets to understand how these institutions leverage technology in response to the competitive landscape. The survey was conducted in June and July 2022. Almost half of the respondents represent financial institutions below \$1 billion in assets, while 35% are from banks with \$1 billion to \$5 billion in assets and 20% represent banks over \$5 billion in assets.



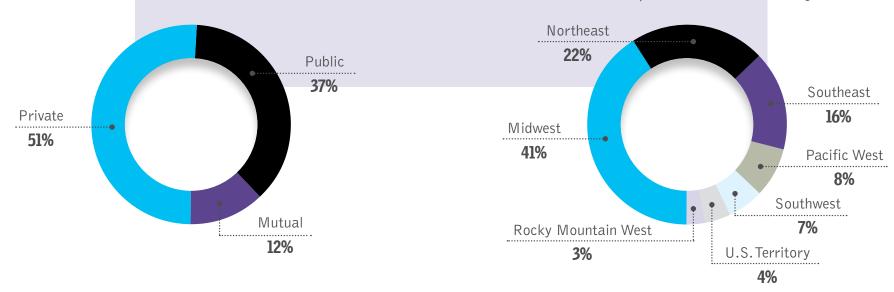




OWNERSHIP STRUCTURE

REGION*

Numbers don't add up to 100% due to rounding.



^{*}Regions defined as follows: Midwest (IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, WI); Northeast (CT, ME, MA, NH, NJ, NY, PA, RI, VT); Pacific West (AK, CA, HI, OR, WA); Rocky Mountain West (CO, ID, MT, NV, UT, WY); Southeast (AL, AR, DE, DC, FL, GA, KY, LA, MD, MS, NC, SC, TN, VA, WV); Southwest (AZ, NM, OK, TX)