



FROM THE  
EDITOR IN CHIEF

# start

## CHATTER

### Rescue Your Board

**CIO Helen Cousins** took exactly the right approach when she stood in front of Lincoln Trust's board of directors not long ago. Her mission was to educate the board about predictive analytics—a topic that can get gruesomely geeky in about the time it takes to cross your eyes.

Knowing that these days board members are especially concerned with the "lifetime value" of the financial firm's customers, this veteran CIO wisely focused her discussion on something they actually cared about. She explained how predictive analytics could identify (and better serve) their most valuable customers.

"If they don't know about technology," Cousins points out in our cover story ("Clueless in the Boardroom," Page 22), "they can't imagine what I'm imagining."

Notoriously clueless about IT, the average board of directors is dangerously undereducated about technology. In our exclusive survey of 250 IT leaders, we confirmed what everyone already suspected about the board's allergic reactions to strategic IT discussions. With its risk-averse nature and stockholder focus, this venerable assemblage of business experts is more likely to stymie IT innovation than encourage it.

That obviously needs to change, and there's reason to believe it could. A recent survey by PricewaterhouseCoopers found 60 percent of directors wanting to devote more time to IT issues in the coming year—up from only 36 percent last year. That is a huge opportunity for CIOs, who need to be giving their boards "a framework to discuss IT," says Don Keller, a partner at PricewaterhouseCoopers' Center for Board Governance.

Evelyn Folliot, a former CIO who's served on the boards of six companies, recommends a divide-and-conquer strategy. Create a short briefing paper on an emerging IT trend, for example, and then hold private meetings with the more amenable members. Some directors may be hesitant to ask questions (and betray their weak spots) in front of the full board, she notes.

Our story delivers reality-tested, actionable advice on how CIOs can rescue their boards from a lack of IT understanding. Among our experienced sources are the CIOs of American Airlines, Darden Restaurants, Dun and Bradstreet, and Talisman Energy. Ultimately, this rescue mission is well worth your time, as a tech-savvy board can be a uniquely useful resource. "They keep you real," says CIO Jim Noble of Talisman Energy. "They keep you connected with the marketplace."

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### Defining Data Scientists

IT leaders are having a hard time defining the **job description for data scientists** and finding people who combine business expertise with the ability to **analyze massive amounts of data**, according to Contributing Writer Allen Bernard. One analyst says the ideal data scientist would have all the skills of a **data hacker**, analyst, communicator and trusted adviser. [www.cio.com/article/718874](http://www.cio.com/article/718874)

### University Video Upgrade

Drexel University is replacing its outdated classroom video projectors with a high-tech integrated system, reports Contributing Writer John Moore. The university upgraded to a **cloud-based service** that can deliver video to rooms, videoconferencing centers, video phones, PCs or mobile devices. The system will be used for creating videos for the university's **leadership development program** and for reaching students in **distance learning** programs. Drexel's IT group is working with Advanced AV, an audiovisual systems integrator, on the project. [www.cio.com/article/718747](http://www.cio.com/article/718747)

### CSI on Mobile Devices

Security groups need to make sure they're ready for the possibility of a **forensic investigation of mobile devices** in case of litigation or a data breach, says Senior Online Writer Thor Olavsrud. This is especially true for organizations that need to **comply with regulations such as HIPAA**. Experts say organizations should include the **right to examine an employee's device** in their mobile policies and stay up-to-date on what new security features are becoming available for smartphones. [www.cio.com/article/718859](http://www.cio.com/article/718859)

Compiled by Staff Writer Lauren Brousell. Have a comment about a story in this issue? Go to [www.cio.com/issue/20121115](http://www.cio.com/issue/20121115) or write to [letters@cio.com](mailto:letters@cio.com).

PHOTO BY ANDREA WINCHENBAUGH

# CLUELESS in the

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**Our exclusive research shows that boards of directors still don't understand IT.**

BY KIM S. NASH

**E**ven as companies are relying more on technology to come up with innovative business models and fresh ideas for finding new revenue, many boards of directors don't understand enough about IT to keep up. Few CIOs sit on boards and, according to PricewaterhouseCoopers, just 1 percent of directors have any technology background at all. Discussion of IT issues in meetings around the mahogany table can be measured in minutes.

There's a dangerous lack of confidence in the board's digital literacy, revealed in our exclusive survey of 250 IT leaders. Sixty-four percent say the board "doesn't do its homework" about technology matters and 57 percent say directors rely heavily on what they read in the press to evaluate IT strategy. Some 40 percent say board members "don't really care about IT."

The Board Institute, which educates and evaluates directors about corporate governance, finds that just 6 percent of companies have a board-level technology committee, where directors are assigned to focus on the strategic use of IT. Vastly more common are boards that confine IT to the audit committee, where the outlook is not proactive or innovative, but risk-averse: Protect against security threats, comply with regulations and manage the risks of big projects and technology spending.

When it comes to strategic IT, says Susan Shultz, CEO of The Board Institute, "Directors are not informed."

CIOs can change that. In fact, as senior officers with fiduciary duties and as strategists responsible for corporate growth, CIOs *must* change that. A board that holds a narrow, defensive view of IT leaves the company vulnerable to competition, says Evelyn Follit, a former CIO of Radio Shack who has served on the boards of six companies.

PHOTO BY ISTOCKPHOTO

# BOARDROOM

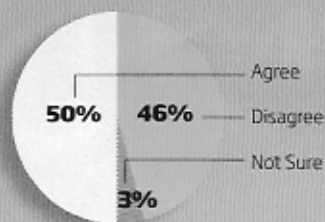


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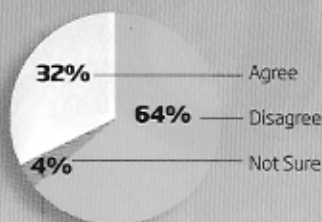
# Directors SLACK OFF on IT Homework

About 75 percent of the 250 IT leaders we surveyed say their board of directors is more interested in IT issues than they were three years ago. But directors still don't "get" IT, our survey finds.

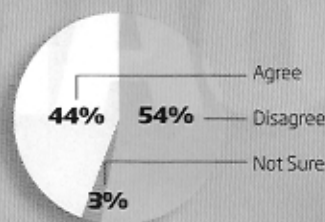
Board members ask sharp, probing questions about IT



Board members do their homework on IT matters



Board members are clueless about IT



Percentages may not add to 100 due to rounding.

SOURCE: CIO MAGAZINE RESEARCH

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An undereducated board can also stymie innovation, says Helen Cousins, CIO of Lincoln Trust. "If they don't know about technology," she says, "they can't imagine what I'm imagining."

But you have to be smart about making change. Boards are long-established institutions with norms and conventions that date back to the days of the 13 colonies. Each has its own quirks and politics. Understand that the prime duty of a board is to oversee what the executives are doing on behalf of the stockholders. Directors don't want to compare Amazon's cloud to Google's. They want to know whether—and maybe a little bit of how—to use cloud computing to create a more valuable company. CIOs should avoid technical terms but be able to explain technology. Anticipate the directors' questions and artfully lead them to the ones they should be asking.

And listen so you can learn, says Walt Hauck, former CIO of Dun and Bradstreet. Attend dinners and outings when invited, but know that it's not a schmooze-fest. Directors are "very serious and very focused on my business and they expect me to be the same," Hauck says. "This is not casual. It's not coffee."

## Don't Get Preempted

Boards are beginning to realize they need to pay more attention to IT. Sixty percent of directors surveyed by PricewaterhouseCoopers say they want to devote more time to IT issues next year. Just 36 percent said so last year. They have general notions about topics they should take on, such as cloud computing, social media and mobility. But they don't know what they don't

know, says Don Keller, a partner at PricewaterhouseCoopers' Center for Board Governance. CIOs "should give them a framework to discuss IT," he says.

Boards aren't used to spending much time on technology issues. Traditionally, they've been more concerned with executive compensation, legal exposure, CEO succession planning and financial issues. When a CIO is invited to present to the board, it's usually for 30 minutes each fiscal quarter, according to our survey.

Use your brief time in the board's presence, plus some background research, to assess the weak spots in the board's IT knowledge, Follit advises. Prepare a short briefing paper on a single emerging technology and convene small private gatherings to talk about it, away from the formal board meeting. Some directors can be reluctant to reveal to peers that they don't understand a topic, she says.

At Lincoln Trust, Cousins recently spent time discussing predictive analytics with board members, explaining how it's possible to identify the financial firm's most valuable customers and realign account managers to better serve them. The board is now interested in the lifetime value of a customer, seeing that information as a way to position Lincoln Trust for the future, she says.

If CIOs don't use their precious half-hour effectively, they may get preempted. When directors don't trust themselves or the CIO to evaluate the company's IT situation, they call in an expert. Last year, 26 percent of boards hired outside consultants to help them evaluate major projects or the overall performance of the IT function, according to PricewaterhouseCoopers. That's

up from 15 percent the year before.

Responsible directors know that to carry out their duties to the company, they must seek outside help when necessary, says Joseph Grundfest, a professor of law and business at Stanford University and a former commissioner at the Securities and Exchange Commission. "It's common for boards to bring in lawyers or investment bankers for expertise. There's no reason they can't bring in outside [IT] consultants."

But for the CIO at that company, Follit contends, it's a bad sign. A board that brings in a consultant is dissatisfied with the CIO's ability to explain how IT decisions affect, and are affected by, corporate strategy, she says. In the intimate and intense setting of a board meeting, a keep-the-lights-on kind of CIO can't disguise that limitation with a veneer of business lingo. Follit runs an executive coaching business and sits on the board of TECO Energy. "Some CIOs can't maneuver in this new world, where they have to know an awful lot about business."

### Beware the Politics

Boards can be slow to change. For example, although boards may see that business strategy intertwines with IT, there's been no widespread shift in the traits companies want in directors. Just 30 percent of directors surveyed by PricewaterhouseCoopers find IT expertise a "very important" attribute in new directors, and 31 percent are not seeking technology experience at all. They rank five other kinds of knowledge as more important, including industry and financial experience, and international business backgrounds.

Directors can arrive with unhelpful biases, says Jim Noble, senior vice president of IT at Talisman Energy, an \$8.3 billion oil company. Perhaps they once suffered through a bad experience with SAP or Oracle enterprise software and automatically criticize a similar project. "They'll say, 'We did it at my company and it was a disaster,'" he says. "The number of times I've heard that!"

Truly stifling, however, was

## Boards Want to LEARN About Emerging IT Issues

**Directors admit they aren't adequately engaged in topics such as social media and IT-enabled business innovation**

**Get ready to answer** more questions from your board of directors about social media, new business models and competitive intelligence. Board members expect to spend more time on IT this year and recognize that they haven't paid much attention to some key areas, according to a survey of 850 corporate directors by PricewaterhouseCoopers.

A startling 51 percent of directors say they aren't adequately engaged in overseeing and understanding new business models enabled by IT.

Boards hunger for information about the potential business rewards of these IT concepts, says Don Keller, a partner at PwC's Center for Board Governance. There is no established process on most boards for evaluating emerging IT issues, Keller says. As a result, "there is a general discomfort with IT."

In the PwC survey, directors admit they are "not sufficiently" or "not at all" engaged in other critical IT matters, including:

- Developing a crisis-management plan for social-media disasters **(57 percent)**
- How the company supports employees who use personal devices for work **(62 percent)**
- Employee training in social media **(64 percent)**
- Understanding how competitors use social media and other emerging technologies **(66 percent)**

—K.S.N.

Noble's experience with the board of a large global consumer products company. As CIO, he would attend board meetings and events and afterward receive an email or a phone call from a certain director offering suggestions or asking questions. The director's comments were astute; he was a successful entrepreneur in the telecommunications industry.

When the CEO found out, he sent an email to Noble and the rest of the 10-member senior team saying that communications with board members must go through him, Noble recalls. "He felt he was being end-run," he says. "The structure of the company was very hierarchical. To reach down a couple of levels was seen as rather odd."

But Noble experienced the opposite when he was CIO of what was then AOL Time Warner. The co-CEOs at the time, Steve Case and Gerald Levin, encouraged senior leaders to interact with the board—and then some. Netscape's founder, wunderkind Marc Andreessen, was brought in as CTO and the company created a technology advisory group that included media and IT vendor hotshots. "The board and executives knew that old business models weren't sustainable and were open to a lot of ideas," he says. "That's the best board atmosphere I've seen."

### What You'll Face

Some boards want to hear more about technology, but some don't. Fourteen percent of directors in PricewaterhouseCoopers' study never meet formally with the CIO. What a board wants from a CIO depends on what's going on at the company. Patti Reilly-White, CIO of Darden Restaurants, usually presents to her board about once a year and attends dinners and retreats. But she anticipates seeing the board more often for the next couple of years as Darden invests \$200 million to build and implement a new technology platform. The \$8 billion company, which owns Olive Garden, Red Lobster and six other chains, plans to unify IT across its brands and install mobile ordering

and other services at its restaurants.

Given the size of the investment, Darden's chairman and CEO, Clarence Otis, "provides input and guidance" about this critical project, which is intended to leapfrog competitors, Reilly-White says. Otis, who sits on Verizon's board, "has the vision and is driving what we should be going after," she says.

Expect to meet with the board more often when there's a crisis or corporate transformation going on. American Airlines is trying to right itself after filing for Chapter 11 bankruptcy protection last year. Maya Leibman has attended the board's monthly meetings since being appointed CIO of the \$24 billion airline in January. Leibman has presented to the directors three times, twice on information security and once on the replacement of a key system.

American Airlines director Stephen Bennett, former CEO of Intuit, asks salient questions, she says, such as about the kind of testing her IT group conducted on the new software. "Many on the board are tech-savvy," she says, "but he has insights that others don't."

Having a technology expert on the board sharpens a CIO's business wits and usually makes for an intellectually strenuous meeting, says Hauck, formerly at Dun and Bradstreet. The \$1.8 billion company's board includes Austin Adams, former CIO of JPMorgan Chase, Bank One and First Union, plus an executive each from Oracle and Hewlett-Packard. Naomi Seligman, founder of The Research Board, an influential CIO think tank, retired from the board last year.

Dun and Bradstreet is one of relatively few companies with a board-level technology committee. There are only 12 in the Fortune 100. Establishing a technology committee signals that the board is ambitious about IT, says Estelle Métayer, founder and president of Competia, a competitive intelligence consultancy.

Financial services firms, where IT and business are nearly indistinguishable, are more likely to have such committees than companies in other industries. Other forward-thinkers with board-level tech committees include FedEx, Pfizer, Procter & Gamble and Wal-Mart. Métayer predicts that more companies will join in because IT is pervasive but also because directors are taking a larger role in assessing corporate health as well as in shaping strategy. These duties require directors to be conversant in IT issues, she says. "If your board is stacked with retired CEOs, lawyers and auditors, they're probably not questioning technology strategy well," she says. "When technology is [covered by] the audit committee, it's being overseen, but no one's gaining foresight."

Among other tasks that Dun and Bradstreet's technology committee performs is keeping tabs on MaxCV, a \$160 million transformation project started in 2010 to create a real-time "data supply chain" with Web applications and interfaces.

But the committee and the full board wanted to know much more about Hauck's work than project-management reports can reveal. They delved into his approach to staffing and his views

An effective board  
will challenge the CIO.  
"They keep you real."  
They keep you connected  
with the marketplace."

—Jim Noble, SVP of IT, Talisman Energy

on business. Directors also looked for evidence that he collaborated well with peers, especially the heads of sales and of product development. Hauck says that when he attributed some of his own success to those colleagues, for example, and when employees of one group take jobs in either of the two others, he was able to show the board that he could cultivate healthy relationships.

Adams, in particular, drilled Hauck on talent, not wanting IT to be caught short of staff during a future merger, for example. "He says, 'I need you to have five guys as good as you. If you don't, then you're not doing your job as a leader for this company.'"

A board firing on all cylinders will challenge you—not necessarily because directors doubt your knowledge (though they may), but because they want to test your thinking, Noble says. But a CIO shouldn't feel threatened by a grilling from directors, he says. "They keep you real. They keep you connected with the marketplace."

Besides, a CIO should be used to that dynamic by now. The position reports to a CEO, COO or CFO and usually has various steering committees guiding decisions and plans, he says. "The IT function isn't autonomous by any means."

### The Internal Consultant

To be in its best fighting form, a corporate board may well need a technology committee and deep engagement with the CIO, says Métayer, the competitive intelligence consultant. Some companies, such as Dun and Bradstreet, are already there. Others remain calcified in old ways. Most are somewhere in the middle.

One \$5.5 billion healthcare company has no technology committee on its board, but the board calls on the CIO often to make presentations or answer ad hoc requests, says the CIO, who asked not to be quoted. The board has asked for her views on topics such as new industry partnerships and startups, the company's competition and what it needs to stay strong into the future.

That the board consults the CIO about such core issues shows that both it and the IT leader are enlightened, Métayer says. "I don't know any company not struggling with some technology issue. Diversity of thought at the board level is an important way to approach those struggles." **CIO**

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