Pillars of Resilient Digital Transformation:
How CIOs Are Driving Organizational Agility
With a complete view of business operations, chief information officers (CIOs) are uniquely positioned to connect strategic, big-picture goals with the technology, processes, and integrations needed to achieve them. But today’s murkier business environment is obscuring that view, as economic concerns, supply challenges, elevated customer expectations, experimental hybrid work arrangements, tough competition for talent, and more threaten to disrupt the business landscape. CIOs preparing their companies to weather the uncertainty ahead are doubling down on a superpower that can help employees, the corporate culture, and operational processes adapt to whatever may be around the corner: resilience.

Resilience is the ability to withstand adversity and bounce back from difficult events. And this can make or break businesses’ digital transformation efforts. Resilient people are better able to adapt to change and uncertainty. They can think strategically, make quick decisions, and take calculated risks. Resilient processes can help teams withstand and recover from disruptions and failures. Resilient technologies are robust, scalable, and secure, enabling organizations to become more agile and flexible to respond to changing markets and customer expectations. The disruption of the pandemic required CIOs to strengthen resilience in all areas, and those who did this well will now need to lean into this capability more than ever as we transition to a post-pandemic era with new challenges.

Leading CIOs, like those interviewed in this report by Harvard Business Review Analytic Services, are capitalizing on this unique opportunity to redefine how businesses operate through technology-based empowerment and enterprise-wide collaboration. Doing so requires a deep understanding of the outcomes needed to push the business forward and technology’s core influence on them. This also requires a wide range of people skills, including those of an advocate, educator, motivator, entrepreneur, change agent, and relationship builder.

For CIOs interviewed for this report, digital transformation success goes beyond enabling the organization to do its work better. They are empowering everyone to challenge the status quo daily and providing the digital acumen and psychological safety required for teams to thrive in a culture of continuous improvement, experimentation, and rapid innovation. They are using application programming interfaces and leveraging their broader digital ecosystems to create new IT-driven revenue streams. And they are leading with empathy, creating open and inclusive workplaces that contribute to a more sustainable future.

This research includes candid insights and practical ideas from leaders who are helping their organizations adapt to a new paradigm. I encourage readers to use this report, sponsored by Red Hat as part of The Enterprisers Project, as a thought-provoking guide to creating a strong foundation for their digital transformation efforts that is more likely to be resilient and prosperous over the long term. We plan to explore further how increasing resilience and agility demands impacts the CIO role on The Enterprisers Project, Red Hat’s CIO community, and publication. We invite you to join us there to continue the conversation.
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The acceleration of digital transformation because of the pandemic recast the position of the chief information officer (CIO) to that of a big-picture strategist. From ensuring ongoing alignment of IT and business demands to leading the transition to full digital enablement, the CIO role requires expert proficiency in a broad range of both technology and management skills.

Now, as the pandemic era transitions into a new, more uncertain, and volatile business environment characterized by economic worries, ongoing supply challenges, increased security risks related to hybrid work, and a more values-focused workforce, CIOs must change again. With increasing headwinds, CIOs are challenged as never before to help their organizations build agility and resilience.

“If you want to go through a transformation, you almost have to relearn your role,” says Grant McDavid, head of the CIO office at Asahi Europe and International, a Woking, England-based unit of global beverage firm Asahi Group Holdings. “The change you need to effect on a business is so significant that you couldn’t possibly do it with the skills that you went into the transformation with.”

The CIO’s roles are multifaceted, expanding well beyond technical know-how to include a deep understanding of technology’s newly core influence on the business. The job requires advanced people skills, including the ability to evangelize and educate about tech; build relationships essential to driving new sources of revenue, such as digital services; motivate teams to rally around the company’s goals and achieve real client outcomes; and finally, nurture direct relationships with clients and prospects.

HIGHLIGHTS

With increasing headwinds, chief information officers (CIOs) are challenged as never before to help their organizations build agility and resilience.

Much of the work comes in helping employees, the corporate culture, and operational processes adapt to create a nimbler, more engaged, and more customer-centric organization.

Beyond a deep understanding of technology’s newly core role in the business, CIOs must now play a wide range of roles, including evangelist, educator, motivator, entrepreneur, change agent, and relationship builder.
Furthermore, as more workers favor employers that align with their values, the pressure is on CIOs to help solve the world’s biggest challenges, such as climate change, and inspire passion for the mission. The common thread across these diverse skills is the ability to build resilience, agility, and greater collaboration into the organization’s people, processes, and technology infrastructure.

It wasn’t long ago that the function CIOs commanded was considered a support department and a cost center. But that paradigm is all but extinct—especially in organizations that are leading in their industries. This report will explore how it has changed because of market forces that are driving greater reliance on technology to enable organizational resilience and agility. It will suggest what nonnegotiable skills and strategies IT chiefs must now cultivate to help their organizations achieve their missions as they navigate the rougher waters ahead while also contributing a greater purpose in line with the values of their workforce. Finally, it will identify the technologies CIOs are relying on most to achieve the expansive digital transformation it takes to become more resilient and agile.

“At the end of the day, digital transformation is less a technology challenge and more a leadership one,” says Joe Peppard, professor at Michael Smurfit Graduate Business School, University College Dublin, and a former principal research scientist at the Massachusetts Institute of Technology. “When I work with leadership teams, I always emphasize that they perhaps need to see investments in digital less about investments in technology and more about investments in change.”

Prioritizing Adaptability in Digital Transformation
Organizations today are under pressure to devise new ways of working that will prepare them to thrive amid economic turbulence, supply challenges, more flexible work styles, tougher competition for talent, elevated customer expectations, product/service commoditization, sustainability pressures, and more. “Technology executives will be in the middle of it all because technology is at the heart of business transformation,” says Forrester Research’s 2021 report, “In the 2020s, the One Constant Will Be Disruption.” The report adds, “the message is clear: Being able to adapt to disruption is what differentiates leaders from laggards,” according to Forrester Research’s 2021 report, “In the 2020s, the One Constant Will Be Disruption.”

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While being tech-savvy has become a requirement across the software development teams where they got their start. As Agile methodologies and mindsets to functions well beyond the software development teams where they got their start. But for all CIOs, it certainly means wielding a well-rounded management skill set to facilitate significant change.

CIOs are more than aware of the elevated expectations that now come with the job. Nearly nine in 10 (89%) feel that the role of CIOs in companies and organizations today is becoming significantly or somewhat more important compared to two years ago, according to a survey of 525 global CIOs conducted by communications agency Zeno Group for technology firm Lenovo in December 2021 and published in a report, “Lenovo's Global Study of CIOs,” in March 2022. Nearly as many (88%) agreed that “my role as CIO is the most critical component...
of my company or organization’s continued operation.” Reflecting the enormous role that technology now plays, 77% said CIOs have more impact than those in other C-suite positions on their company’s overall fortunes. FIGURE 1

While all the challenges that CIOs now must confront may seem daunting, they also represent a chance to redefine the role of technology in organizations once and for all, demonstrating how digital transformation can facilitate strategy. Monica Caldas, executive vice president and CIO at Boston-based insurer Liberty Mutual Insurance, notes that an increasing array of analyst studies fuels the argument that those organizations that excel at leveraging new digital ways of working will enjoy significant competitive advantage. “It’s a rewarding and an awesome opportunity,” she says. “If we get it right, we can make technology capabilities a superpower for our company and be able to really unlock new opportunities.”

CIOs’ Nonnegotiable Skills
Organizations are increasingly relying on the CIO to weigh in on capital investments and to connect strategy and business model reinvention with the technology, processes, and integrations needed to achieve them. Because of the increased reliance on technology, CIOs are now highly influential in driving organizations toward greater resilience.

“The IT leader is the glue across all functions. We’re solving not just for technology and system, but we’re solving for process, as well,” says Tricia Ferreira, senior vice president of technology product management at World Fuel Services, a global energy management company based in Miami. “Essentially, IT enables all ways of working in a company at this point.”

“You have to be a strategic adviser” with a deep understanding of each part of the business, adds Liberty Mutual’s Caldas. “It’s not just about solving the problem and saying, ‘Here are the tools and processes we need to enable change and transform,’” she says. “If you are willing and comfortable to wear many hats and do a lot of context switching, you can play a really important role.”

A CIO who can understand and put in place the right tools is one thing, but technology alone won’t make a company resilient. If those solutions are underused, the organization is just as susceptible to disruption as one without the right processes and tools. Effective change management is a critical part of the process, and CIOs are at the forefront of ensuring employees across the organization accept and embrace new ways of working. CIOs must not only help nontechnical executives and employees understand technology and what it can do but also articulate the value of technology services to ensure the strong buy-in for a successful transformation that will lead to better business outcomes.

Even the best-laid plans don’t always work out, however. In increasingly volatile market conditions, CIOs must also be prepared to guide employees through crises and unanticipated obstacles. The need to manage adversity is especially strong when new headwinds make things more difficult and workers are inclined to revert to old processes, says Asahi’s McDavid. For example, like other organizations, Asahi was hit with an unplanned rise in costs stemming from macroeconomic factors in 2022. “To offset that, we needed to expedite some
“I’m disrupting. I’m inspiring and enlightening. And that absolutely results in a more engaged and empowered organization when it comes to digital. So, it can become infectious for the organization to really challenge the status quo on a daily basis,” says Reto Sahli, who until recently served as group chief digital and information officer at Asahi.

Transformation activities such as automation into our service model in order to moderate the costs,” says McDavid. “In some cases, this involved changing the way we deliver services to our stakeholders, which required, and still does require, an ongoing change management action.”

“I’m pushing the envelope every single day,” adds Reto Sahli, who until recently served as group chief digital and information officer at Asahi and was McDavid’s colleague. “I’m disrupting. I’m inspiring and enlightening. And that absolutely results in a more engaged and empowered organization when it comes to digital. So, it can become infectious for the organization to really challenge the status quo on a daily basis and inspire people with the art of the possible with technology and data. What can be done right now to outperform the competition ultimately?”

Innovation sessions dubbed “art of the possible” are helping Asahi infuse digital thinking across the organization. The sessions showcase an emerging innovation, such as rocket technology, then invite participants to relate what they have experienced to their daily life or future opportunities. An innovation process encourages and assesses the resulting ideas by potential, impact, and readiness. “Those sessions are raising the digital quotient within the organization and whetting people’s appetite to explore and use technology,” says Sahli. “They are defining a pipeline of opportunities that raise the ceiling.”

How CIOs Are Changing Business Practices

With organizational agility now seen as a prerequisite, CIOs find themselves playing a key role in leading the adoption of more flexible, collaborative, and responsive ways of working. Needham, Mass.-based research firm International Data Corp. has predicted that 60% of CIOs will be primarily measured for their ability to cocreate new business models and outcomes through extensive enterprise- and ecosystem-wide collaboration this year, according to its October 2021 report, “Future IT.” Additionally, the report predicts, 65% of CIOs through 2026 will sustain a cycle of technology-based empowerment, agility, and resilience through collaborative governance, new service delivery models, and a business-outcomes orientation.

Drawing on their experiences with transformation in software development practices over the past 20 years, many CIOs are seeking to infuse the mindset and structure of Agile software development practices across the entirety of IT, and even across the enterprise itself. Concepts including squads, scrums, sprint reviews, daily stand-ups, user stories, and retrospectives are finding their way into multiple disciplines under CIO guidance.

Thales North America, a unit of the French technology and electronics provider Thales Group, began its adoption of Agile practices by forming an Agile leadership squad, a move that has boosted morale and brought greater integration and coordination involving senior managers across IT, says Kevin Neifert, the CIO at the Arlington, Va.-based firm. He’s now promoting adoption of Agile practices by leadership teams across the enterprise.

Others are promoting similar initiatives. Caldas says Liberty Mutual has successfully adopted Agile concepts such as its heavy emphasis on collaboration, flexibility, and a customer-focused approach.

Meanwhile, at World Fuel Services, Ferreira helped spread Agile processes from the technology product management team to adjacent teams in other areas of the business and then to the rest of the business. While some aspects of Agile are more suitable for product work, she says, many translate to other disciplines, such as having a common way of working, assigning clear roles and responsibilities, making efficient handoffs, and removing duplicate work and roles. “It’s been very positive,” she says. “That mindset of continuous improvement is more deeply ingrained across the organization. I do think it’s helped some people to understand that they’re part of an ecosystem.”

But for some CIOs, ensuring a successful digital transformation goes beyond enabling the organization to do its work better. Part of the job is to begin tapping well-developed, modernized platforms to create new IT-driven revenue streams. Increasingly, organizations will deliver value
by leveraging their wider digital ecosystems, using application programming interfaces (APIs) to unify and structure data from across multiple platforms, whether those are owned by the organization or its partners.

“Today, CIOs have to be really good at understanding business development and looking for ways to take the company’s assets, which more and more are software products, and allow software to be a product,” says John Marcante, CIO-in-residence at professional services firm Deloitte U.S. in New York City and former global chief information officer at Malvern, Pa.-based financial services firm The Vanguard Group. “We call it the API economy.”

World Fuel Services, for example, has created proprietary tankering software to permit its aviation customers to identify optimal fuel purchasing locations along a flight plan. Similarly, Vanguard’s modernization enabled the company to develop a platform to significantly scale up its ability to offer financial advice online and in person, democratizing access, Marcante says.

CIOs as Resilience Builders

As with agility, CIOs play a substantial role in building resilience within their organizations. Ferreira points to four technical steps CIOs can implement to bolster resilience: reduce technical debt to lower strain on resources, modularize applications to cut development time and resource requirements, adopt nimble microservices architecture to speed change, and increase redundancy across systems. To manage technical debt, for example, the IT team ensures that design and coding decisions prioritize long-term rather than short-term value, avoiding development rework and, in the long run, maximizing capacity spent on necessary new features and enhancements as the business evolves.

Royal Bank of Canada relies on chaos engineering to boost resilience, a concept adopted from Netflix, says Shah. “You intentionally break things within your technology ecosystem and learn how it’s going to react. And then you build a solution that’s automated, so when things happen, humans are no longer required to address [them],” he explains. “Without knowing what the future is going to bring, I firmly believe that the enterprise with the best organizational resilience—the ability to handle change with minimum noise—will win.”

For example, in the bank’s private cloud platform, the site reliability engineering team conducts “continuous chaos” tests by introducing random and unpredictable behavior that breaks, throttles, or constrains resources in a controlled environment. This identifies any weaknesses, single points of failure, or misunderstood dependencies in this ever-evolving system.

But resilience is about more than technology, notes Thales’ Neifert. “At the end of the day, it’s all about people. We’re cross-training. We care about people and give them a purpose so that they want to stay around. Then it means that the few holes we do get are manageable.”

Leveraging Effective Communication and Emotional Intelligence

The abilities to nurture relationships and communicate effectively are increasingly essential for CIOs both inside and outside the organization. Internally, relationships build consensus and support to drive digital transformation and collaborate on digital product development and IT-facilitated work—whether team members sit at the next desk or in a remote location. Externally, relationship building ensures the success of the IT vendor ecosystem, which accounts for an ever-greater part of an organization’s technical underpinnings. IDC also predicts that by 2025, 60% of CIOs will collaborate to harness industry ecosystem capabilities as a critical source of innovation, data sharing, differentiation, and cybersecurity risk management.

“It’s how closely you are building relationships and how strategic you are in terms of your negotiations and the long-term horizon of your contracts so that you can even out the ups and downs of the macroeconomic changes—inflationary pressure, chip shortages, and so on,” says Royal Bank of Canada’s Shah.

The ability to communicate effectively isn’t just about achieving favorable terms or drumming up support, however. When technology performance experiences hiccups or projects don’t get approved, an effective CIO manages the fallout.
“Expectations and predictability are at an all-time low,” says McDavid. “People need to be able to accept and manage disappointments. As a leadership team, we are managing expectations of our teams all the time to let them know that we are planning, but the plan is subject to change.”

CIOs are also called upon to be empathetic, inclusive, and open-hearted managers, qualities intended to create the sort of workplaces where employees feel inspired and heard—and do their best work. These characteristics, in turn, can support successful recruitment and retention at a time when workers are asking for more from their employers, including seeking a greater sense of purpose and value in the contributions they are making to the organization and society.

“We have to lead with empathy. It’s not just a word,” says Shah. “It’s meant to be in all actions and behaviors of not just myself but the entire management and leadership team. It’s true when you are trying to solve a customer problem. It’s true when you are interacting with business. And it’s equally true when you are leading a large team.”

Neifert sees himself as a servant leader, one who focuses primarily on the growth and well-being of people and the organizations to which they belong. “With Agile practices, where we’re more and more trying to empower squads of people to make good decisions, the job of a CIO becomes all about ‘How am I helping people be successful?’ In my organization, when we kicked off our Agile transformation, we talked about turning the pyramid upside down.”

Several of the CIOs interviewed also believe there is a need to foster a feeling of safety so employees feel they can experiment and learn from failure. The idea is to ensure a diversity of thought both by recruiting more holistically and by encouraging the contribution of ideas regardless of level or background. It’s also important to demonstrate an interest in employees’ personal growth, these CIOs assert.

Organizations benefit when the CIO can foster a more open and inclusive culture, says Caldas. “That is something that I think CIOs across the board need to lean more into—that lens of how do you make sure, at all levels of the organization, you are creating an environment to be equitable in and have diverse background, experiences, cultures, genders, etcetera, at the table?”

**Inspiring and Enriching the Employee Experience**

Recognizing that IT talent is often motivated by the opportunity to increase knowledge and do interesting work, CIOs are also investing in continuous development of their technical and business skills and creating compelling pathways for growth. Programs, events, and new cross-functional ways of working expose IT staff to other parts of the organization as well as to customers. Asahi, for example, maintains “communities of practice”—self-serve analytics functions, where analytics teams become exposed to the challenges other business units are experiencing—and provides IT staff with the chance to rotate into other parts of the business. IT also holds regular events in the businesses where their products are sold so technology workers can connect their work to the lives of the consumers they ultimately serve.

At the same time, CIOs must identify ways to attract and retain IT talent that increasingly seeks remote or hybrid work styles and greater flexibility and work-life balance.

“For earlier-career IT employees, they are more passionate about really understanding the business and getting time in front of customers, moving far away from being the historical back-office-type support function,” says Ferreira. “We provide opportunities for our IT team members to get in front of customers through on-site day-in-the-life sessions, enhancing their innovation and problem-solving contributions.”

Investments in digital transformation can help CIOs retain talent, who often want to work with the latest tools and environments. At Royal Bank of Canada, the technology and operations team has led the effort to foster an engineering culture and create a career progression and compensation plan similar to those of big technology companies in Silicon Valley. IT staff can choose a technology or management track and still rise in the ranks. “When they see we are a large global bank using the latest and greatest technology, they don’t look at it as a black-suit culture, where they would walk in and walk right out,” he says. This approach helped the bank minimize IT attrition despite the pandemic. Royal Bank of Canada is also investing in technical training for its non-IT workforce.

**Serving the Greater Good**

Beyond enjoying more interesting and career-building work, however, many workers today express a desire for a
greater purpose behind what they do. Many also want to feel the organization they’re working for is making a positive contribution beyond its stated mission by also addressing global societal issues.

Executives now have to deal with more philosophical issues, such as why the organization exists and how it’s responding to issues from sustainability to social justice to diversity, equity, and inclusion, says Marcante. The CIO must then align those with individual goals and incentives for the IT staff where possible. “Values for the organization have to be clear and visible, and they have to be out there so that an employee can understand what the company stands for,” he says. It’s also critical for the CIO to include ecosystem partners in the conversation and provide measurement and analytical resources to be transparent about progress, adds Sahli.

“It’s amazing. I’ve never [before] heard that level of questions and pushback” when it comes to the social issues employees have begun to raise over the past five years, says Shah. “From a leadership perspective,” he adds, “exactly how do you create that type of environment?”

Analytics and transparent reporting are ways IT can ensure workers maintain visibility into an organization’s full range of environmental, social, and governance activities. But sustainability is one global issue where CIOs say they can make the most direct impact. Consider the enterprise technology that CIOs are responsible for. According to a McKinsey & Co. article, “The Green IT Revolution: A Blueprint for CIOs to Combat Climate Change,” published on its website in September 2022, enterprise technology is responsible for emitting about 350 to 400 megatons of carbon dioxide equivalent gases, or the equivalent of the total carbon emitted by the United Kingdom.

“CIOs can use technology, analytics, and machine learning to cut emissions, improve operational efficiency, and shift emission generation activities to more clean [energy sources],” says University College Dublin’s Peppard. Reusing and repurposing outdated end-user devices is another avenue to more sustainable technology use, he adds. At Thales, Neifert’s request to staff to crown a single green IT champion morphed into a six-member self-directed team of enthusiastic IT employees allowed to carve out time weekly to innovate on energy savings.

Championing Transformational Tools
Establishing the technical underpinnings expected to facilitate new business models and new ways of working requires making shrewd investments in next-generation technologies. CIOs interviewed cite cloud, microservices, APIs, automation, and artificial intelligence and machine learning (AI and ML) as key technologies in their digital transformation initiatives.

Public cloud is a mainstay of digital transformation because it provides a more affordable, scalable, secure, well-maintained infrastructure than many organizations can manage internally, says Marcante, while microservices facilitate modernization of applications to be more nimble, more flexible, and more reusable so organizations can move quickly while ensuring security and resilience.

Automation has become essential for streamlining processes to free up talent for more high-level tasks, a role AI and ML are also playing in many organizations, in addition to facilitating new insights and revenue streams. Other key...
enablers include edge computing, blockchain, collaboration tools, hybrid cloud architecture, and quantum computing.

CIOs will need to tap many nonnegotiable skills to successfully infuse into the organization these tools and their related changes to workflows and processes. According to New York City-based professional services firm PwC’s January 2022 report “Executive Views on Business in 2022,” CIOs’ top strategies for moving forward include refining the IT strategy and operating model to be more agile (43%), leveraging infrastructure investments to move from traditional data centers to cloud-based ones (35%), and leveraging enterprise-wide data and analytics to drive strategic decision making (34%).

As the business-technology liaisons, CIOs must ensure the organization is balancing and fully leveraging these investments. “It’s about marrying the capabilities of technology with business opportunity,” says Peppard. “All these nice-sounding names—cloud, microservices, blockchain. They provide the capability, but the business, the organization, and its leadership team need to decide, ‘How are we going to harness this capability, both strategically and operationally?’”

Unlike in the past, however, CIOs are making an effort to involve the rest of the organization in technology-investment decision making, including its economic implications. Liberty Mutual, for example, has adopted an IT cost transparency platform that tracks technology costs as well as the financial implications of technical debt and modernization options. Sharing that platform is breaking down barriers between IT and the business. “For me, it’s been very important to increase the digital IQ of the entire company, not just the technology team,” says Caldas. The reason: Decisions are optimized for the enterprise, not just IT. “We’re on our journey of being able to make bigger decisions together.”

A New CIO for a New Era

For as long as the CIO role has existed, the people in it have served as technology ambassadors to the rest of the organization. But digital transformation, combined with a new business environment marked by greater uncertainty and volatility, means CIOs are now under pressure to help their organizations adapt to a new paradigm. Becoming agile and resilient requires CIOs to establish both a strong underpinning of modern IT architecture and new, more flexible, and collaborative ways of working. “In the next five years,” according to the IDC report, “CIOs will be instrumental in helping their enterprise navigate the winds of change by enabling ecosystems, cocreating new business models and outcomes, empowering employees, and building resiliency.”

These new expectations are expanding the qualities a CIO needs for success. Beyond a deep understanding of technology’s newly core role in the business, CIOs must now play a wide range of roles, including evangelist, educator, motivator, entrepreneur, change agent, and relationship builder. CIOs are also challenged to attract, retain, and inspire talent; tie IT roles to a greater sense of mission; and help ensure the organization’s broader societal outreach aligns with workers’ values.

The broadened requirements mean CIOs now come from more varied and blended backgrounds—Sahli, the former CIO of Asahi, for example, is an economist, while Deloitte’s Marcante has served in business leadership roles and run internal startups—and play a far more dynamic role as business leaders. Therefore, the CIO job may begin serving as a stepping-stone into the CEO role, a path taken by Vanguard CEO Tim Buckley, who also had stints as chief investment officer and leader of its retail business.

“There’s a thing that happens in your brain when you successfully make the switch from being a CIO who is a business leader to a business leader who happens to be the CIO,” says Neifert. “You start asking different questions.” The approach changes, too, to a business-in versus an IT-out perspective, such as how every technology decision furthers the organization’s overall mission. “The IT team starts to focus on things that really move the needle for the company,” he says. “Ultimately, we’re all here to make the company grow and profit.”
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