



The Industrial CISO:

Bringing Balance



Ready for anything

Table of Contents

Executive Summary	3
Today's Progressive CISO.....	4
A New Self-image	5
Growing in Confidence	6
Clashing Perspectives	8
Zero Trust Approach	10
A Paradoxical Presentation	11
Conclusion	12
About Netskope	13



+ Executive Summary

Organizations manage a series of balancing acts every day—between innovation and reliability, for instance, investment or profit, speed or security. Each leader contributes to how decisions are weighed and made, and traditionally Chief Information Security Officers (CISOs) have been expected to operate at one end of that scale, being the chief protector of the business.

But in research of 1,031 CISOs worldwide, Netskope has found this is no longer an accurate depiction of the role in the industrial sector. While 65% of CISOs across all sectors reported the role was changing rapidly, slightly fewer industrial sector CISOs were experiencing these changes (60%).

Within the industrial sector, just over half (52%) of CISOs now consider themselves to be business enablers (lower than the average of 59%), and just under two-thirds (63%) want to play a more active role as a business enabler going forward (compared to an average of 67%). 50% say their appetite for risk has grown in recent years (the average is 57%).

Despite being more conservative than other sector averages, over the past decade CISOs in the industrial sector have transformed themselves, and their confidence in their ability to transform their organization is marked.

However, the majority of research participants report a lag in the understanding of their potential among their C-suite peers. Six in ten CISOs (61%) believe other members of the C-suite fail to see that the CISO role makes innovation possible, and 91% of industrial CISOs said conflicting risk appetites is an issue in their C-suite.

Netskope's researchers set out to gather CISO perspectives on both strategic and tactical considerations. Looking tactically, CISOs believe the emerging trend toward zero trust principles will help them to bring balance to their organization—if they can get it right. Half of industrial CISOs

(51%) believe a zero trust approach will enable them to balance conflicting priorities better, and that it will enable their organization to achieve key goals like moving faster (54%) and encouraging innovation (55%).

These are optimistic viewpoints, but only 39% of CISOs from industrial organizations report that they operate with zero trust principles today (lower than the 44% cross-sector averages), and 42% admit they do not know where to start on their zero trust journey.

The paradox at the heart of the zero trust model might be one reason why understanding and adoption of it remain relatively low. Because they introduce more controls, it can seem counterintuitive that zero trust principles increase an organization's flexibility and speed.

55% of industrial sector CISOs report that their executive teams and boards are asking about zero trust, but understanding does not match interest levels. To harness the benefits of zero trust and elevate their standing among their C-suite peers, CISOs will need to ensure they are not tempted into conversations about technology. Communication must avoid discussion of tools, instead focusing on business enablement and business risk.



50% of industrial CISOs say their appetite for risk has increased in recent years



63% classify themselves as business enablers



91% are experiencing difficulty with conflicting risk appetites in the C-suite



+ Today's Progressive CISO

With a remit for keeping their organizations safe, CISOs have typically been perceived as cautious and defensively minded. Such was their aversion to risk that sometimes in the past they have even been caricatured by colleagues as “the Department of No.”. But new research from Netskope has found this image is outdated. In a survey of 1,031 CISOs across five countries, covering sectors from industrial (including manufacturing, automotive, logistics, and critical national infrastructure) to retail, finance, and healthcare, we found a very different story—one that should help prompt reassessment from CISOs’ boardroom colleagues.

Put simply, the CISO role is changing rapidly. That was the verdict of close to two-thirds of CISOs (65%) in a Netskope survey, confirmed by their responses to questions on topics from their risk appetite to their relationships with colleagues. In the industrial sector, this number was very similar, at 61%.

More specifically, CISOs have moved beyond the old-fashioned clichés that used to surround their jobs. They no longer view their main responsibility as trying to minimize risk by blocking innovation or turning their organizations into impenetrable fortresses. Indeed, within the industrial sector, over half of CISOs (57%) say they no longer want to be pigeonholed as the “bringer of bad news” in their companies.

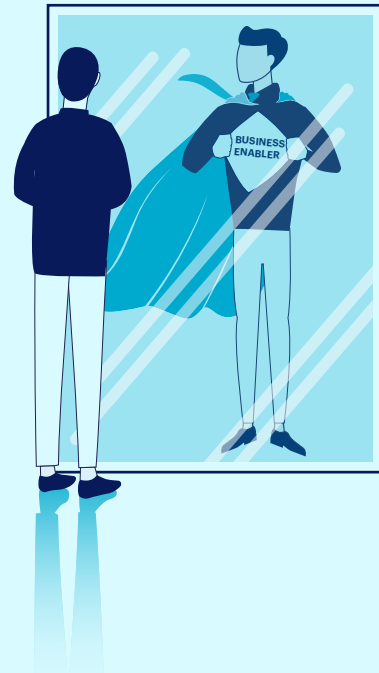
Instead, CISOs increasingly relish the central role that digital technologies give them in modern enterprises. They embrace the new possibilities these create for driving innovation and generating business impact. In short, there’s a new kind of progressive CISO at work today, forging new paths ahead, and working to ensure balance for their organizations.

75% of industrial CISOs say they no longer want to be pigeonholed as the “bringer of bad news” in their companies

Country Spotlight



+ CISOs in Germany are feeling this shift the least, with 52% agreeing their role is changing rapidly. In contrast, it is being felt most acutely in Japan, where 89% of CISOs say their role is changing rapidly.



+ A New Self-image

These changes are evident in the shifting ways that industrial CISOs think about their professional persona. While 29% currently see themselves as playing a “protector” role, defending the business, this proportion is evolving. Indeed, a quarter of industrial CISOs (25%) felt the most important role they could play was one of “catalyst,” enabler of business decisions.

This highlights an intention to shift from a more defensive to a more proactive enablement role.

In some ways, this evolution in how the sector views itself shouldn't come as a surprise. For a while now, we've seen industry bodies and consultancies adopt new language that reflects reframed perceptions of the role infosec professionals play. Few events and conferences these days, for example, are complete without a session on “resilience” rather than “cybersecurity” per se. Likewise, risk is increasingly framed as a business-wide, rather than purely technical, issue. In our survey, 60% of industrial sector CISOs agreed that they increasingly see their role as improving business resilience, not just managing cyber risk.

So what marks out today's progressively minded CISO in practice? Most of all, they want to play a more proactive role in their organization. In fact, 61% of industrial sector CISOs wish they could say “yes” to the business more often (compared to 66% average across all sectors).

This is what CISOs mean when they say they want to become “business enablers.” A majority of CISOs (59%) already see themselves this way—but this number drops slightly in the industrial sector to just over half (52%). Perhaps this is why 63% of industrial CISOs want to play an even more active role as a business enabler moving forward (slightly below the cross-sector average of 67%). In this sector, a third (31%) say they do not see themselves as business enablers yet, but would like to be.

60% of industrial CISOs increasingly see their role as improving business resilience, not just managing cyber risk

Country Spotlight



+ 43% of CISOs in the U.K. do not consider themselves business enablers yet but would like to be (vs. a global average of 26%)—reflecting the fact that the U.K. had the lowest number of CISOs who think they already are enablers in their organization.

63% of industrial CISOs want to play an even more active role as a business enabler moving forward



+ Growing in Confidence

As they develop in self-belief, CISOs also expect to mature in their decision-making in the coming years. That can be observed in their answers to a series of questions the researchers posed around typical professional dilemmas.

In four core areas where business decisions frequently focus—productivity, innovation, process, and agility—CISOs were asked whether they are guided by the creation of a more open and flexible organization or a more closed and secure one. This scale was specifically chosen to ensure that neither extreme was obviously and universally preferable.

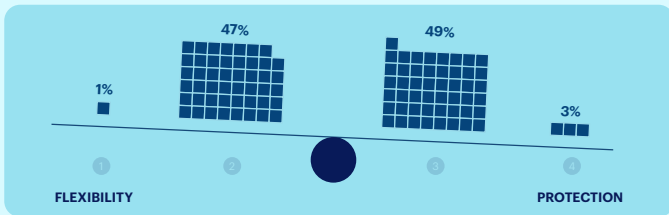


On a scale between 1 and 4, where do you fall when making decisions for the business as CISO?

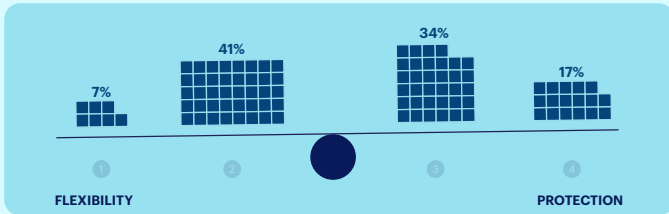
Workforce Productivity:

The requirement to enable your people to work securely yet effectively from wherever they are

CISOs Now



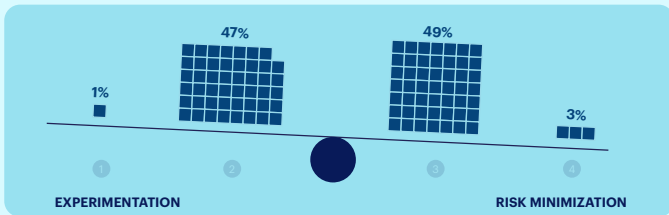
CISOs in 2 Years



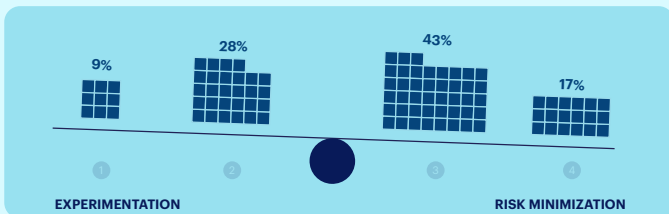
Business Innovation:

The requirement for a business to continuously evolve and grow

CISOs Now



CISOs in 2 Years



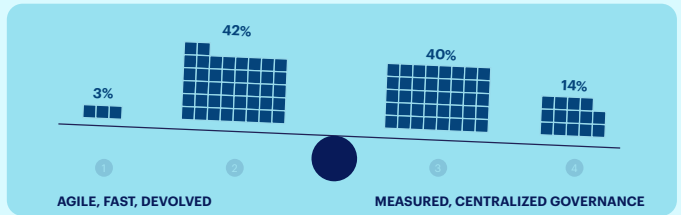
The data shows CISOs currently tend to sit in the middle of that scale, but they became more definitive in their choices when they looked two years ahead. That pattern was consistent across all four decision-making realms.

percentage of respondents

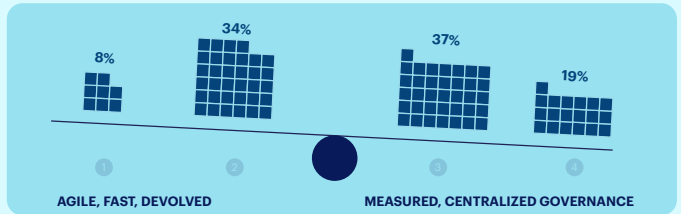
Business Agility:

The responsiveness of the business. Its ability to make key decisions and remain competitive

CISOs Now



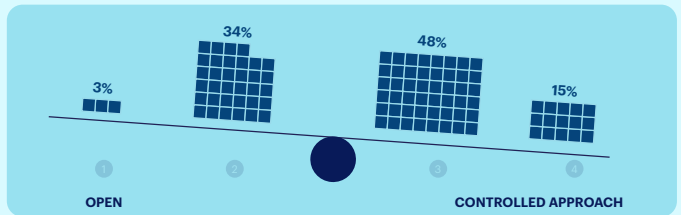
CISOs in 2 Years



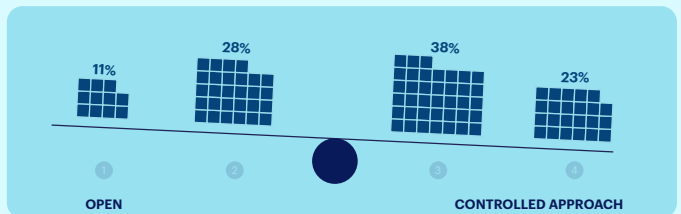
Business Process & Efficiency:

Providing the right people with access to the information, data, and tools they need

CISOs Now



CISOs in 2 Years

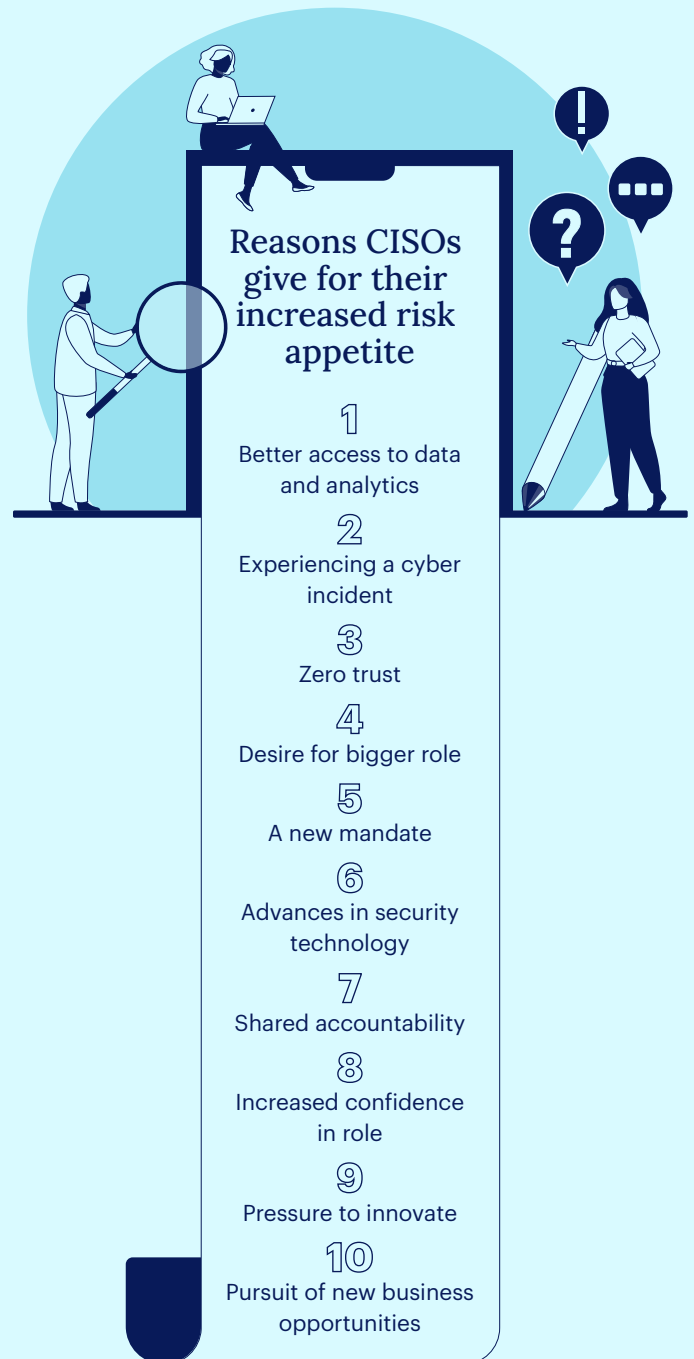




- Industrial CISOs anticipate strongly prioritizing protection for the workforce over flexibility of the workforce when making productivity decisions
- Risk minimization is expected to become prioritized over experimentation at speed
- Industrial CISOs tended slightly more toward measured, centralized decisions with high levels of governance over agile, fast decision-making with devolved responsibilities
- When it comes to business process and efficiency, industrial CISOs intend to take a more controlled approach to restricting access to the right people for the information, data, and tools they need

Strikingly—given the acknowledgement of the growing cyber threats faced by organizations—CISOs’ appetite for risk, far from being a professional constant, has actually increased over the past five years. A majority of all CISOs (57%) said so—with over half of CISOs in the industrial sector agreeing (50%)— and 14% of industrial CISOs said it has significantly increased.

Advances in security technology and solutions are believed by 68% of respondents to be an important driver of this increased risk appetite within the industrial sector. But the primary reasons for the change among this sector’s cohort were linked to personal attitude: increased confidence from specific experience (71%) and better access to data and analytics (71%) were tied as the most-cited reasons for the increased risk appetite.



Within the industrial sector, there was a clear trend toward the creation of more closed and secure organizations in two years



+ Clashing Perspectives

The data is clear that CISOs in the industrial sectors are ready and willing to play a more active role in their organizations, with a more assured attitude to risk at its root. However, there is a catch. While these changes in mindset and ambition sound positive, and reflect a more confident community of practitioners, there is a perception among CISOs that they aren't yet fully accepted by their colleagues.

While 68% of industrial CISOs who reported an increase in their risk appetite recognized a new mandate from business leadership as an important factor in the change, some CISOs report their leadership peers still harbor old-fashioned views of what they do, and their potential contribution. The issue is still pronounced in the industrial sector, where while 59% of industrial CISOs feel they are perceived as business enablers by other business leaders, 37% believe they are still not.

A quarter (25%) of industrial CISOs strongly agree that other members of the C-suite currently fail to see the ways the CISO role makes innovation possible. Averaged across all sectors, CISOs report their interaction with the business today is still more often about risk management (58%) than opportunity (42%), despite their appetite to be more of a business enabler. In some sectors this reverses, but not in the industrial sector, where 61% report their job is mostly about risk management, and 39% are focused on business opportunities.

It is clear that CISOs feel strongly about the impact they can have within their organization. 60% of CISOs in the industrial sector believe they can enable more business innovation than other members of the C-suite—reflecting the central role that digital technologies play in modern enterprises, powering the rise of AI, unlocking efficiencies, and securely enabling new partnership and supply chain models.



Do you feel that the CISO role is perceived as a business enabler by other business leaders?

	All	UK	NA	FR	DE	JP
Yes, I do	66%	50%	58%	79%	56%	91%
No, I do not	30%	48%	35%	19%	39%	8%
I do not know	4%	2%	7%	2%	6%	1%



60% of CISOs in the industrial sector believe they can enable more business innovation than other members of the C-suite



37% think their peers don't see them as an enabler



61% think their peers don't think they make innovation possible



There are other clashes and contradictions too. Only 20% of industrial sector CISOs classify their risk appetite as low, yet when asked about their perspective of their colleagues' risk appetite, a third (34%) would describe their CEO's risk appetite as low. **When juxtaposed, these two figures suggest CISOs believe they have a higher risk appetite than their CEO—a reversal of a common assumption.** Research participants report that these differing views can manifest as real problems in the boardroom.

An overwhelming majority (91%) of industrial CISOs confirmed that conflicting risk appetites are an issue in their C-suite, with 37% of them saying these differing perceptions cause conflict often (higher than industry averages of 32%).

Given these reported clashing perspectives and approaches, today's industrial sector CISOs are working hard to strike the right balance in their organization. They need to find a happy medium between enabling their business and defending it, simultaneously embracing the new possibilities of their role to help achieve business goals, while still delivering their core remit and ensuring security priorities are met.

Not surprisingly, then, a large majority of industrial CISOs (70%) see their role as "a balancing act." Two-thirds (62%) say they are "walking a tightrope" between what the business wants and what makes sense from a security perspective. Little wonder that 60% of industrial CISOs see influencing and educating other members of the C-suite as an increasingly important aspect of their role.

Country Spotlight



+ This was felt particularly strongly in France and Japan, where 74% and 88% of respondents respectively said they felt other members of the C-suite currently fail to see that the CISO role makes innovation possible.





+ Zero Trust Approach

So where are CISOs looking, in their search for solutions and strategies that will help them in this balancing act?

The “zero trust” security model seems to be riding high in the hype cycle, with CISOs reporting a long list of expected benefits from the approach.

Originally coined in the 1990s, but only popularized from the late 2010s, the zero trust security approach has been widely embraced by the industry, as cloud-based services and remote working have challenged traditional ways of granting access to resources no matter where users are.

The appeal of a zero trust approach is that while it sounds rigid in theory, paradoxically in practice, when done right (building upon extensive contextual signals), it actually helps organizations enhance their agility—a key priority for business leaders in today’s fast-moving world.

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That helps explain why attitudes among industrial CISOs toward zero trust principles are already very supportive. More than half of industrial CISOs agree that zero trust enables organizations to move faster (54%), encourages innovation (54%), increases flexibility (55%), and improves decision-making (50%). Similarly, 50% of industrial CISOs believe a zero trust approach enables them to balance conflicting priorities better.

No security model is a silver bullet on its own, but it’s clear that CISO expectations of zero trust are consistently positive—and they have high hopes for its continuing impact.

There are some signs that the zero trust model has already helped organizations and information security functions gain confidence. 68% of industrial CISOs say the adoption of a zero trust approach in the business helped increase their risk appetite in recent years (30% go further, saying it has played a very important part in these risk appetite changes).



If your organization were to shift from a more closed/protected environment to a more open/flexible one over the next two years, which of the following, if any, would you expect to be the most significant factors in driving that?





+ A Paradoxical Presentation

While the CISOs researchers spoke to tended to focus on the anticipation and promise of zero trust, the research turned up some warning signs too. For instance, it seems that excitement for the zero trust model can sometimes get ahead of what most security professionals, and their organizations, are doing in practice. 39% of industrial CISOs say their organization operates with zero trust principles today, with a further 40% planning to adopt zero trust soon.

Also noteworthy is the fact that the zero trust philosophy does not appear to be well understood by the wider business leadership—despite their familiarity with the term. While 54% of industrial CISOs report their executive team is asking them to pursue a zero trust approach, almost as many (47%) state that their executive team or board doesn't actually understand what that means.

It's intriguing to see the extent to which security leaders are being asked about zero trust by their C-suite peers, but if CISOs are to realize their objective of being recognized as business enablers and strategic partners, they will need to avoid getting down into the weeds of tools and technologies when communicating with their C-suite peers. Concepts of zero trust (and zero friction) are both important only in terms of what that enables—risk mitigation and business enablement.

The paradox at the heart of the zero trust model might be one reason why understanding and adoption of it remain relatively low.

The paradox of zero trust is that the ultimate closed environment creates the most open, agile, and innovative business

Ultimately, zero trust is about making sure the right people have the right access to the right things within an organization's network. That's about enablement as much as it is about controls.

Zero trust principles introduce more controls and reduce access to the corporate network and applications, which all sounds like it should add friction and slow down the enterprise. Yet, counterintuitively, it actually increases the flexibility and speed of the organization—because these granular controls enhance confidence in decision-making.

In other words, **the paradox of zero trust is that the ultimate closed environment creates the most open, agile, and innovative business.**

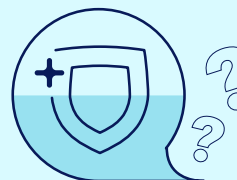


To what extent do you agree or disagree with the following statements?



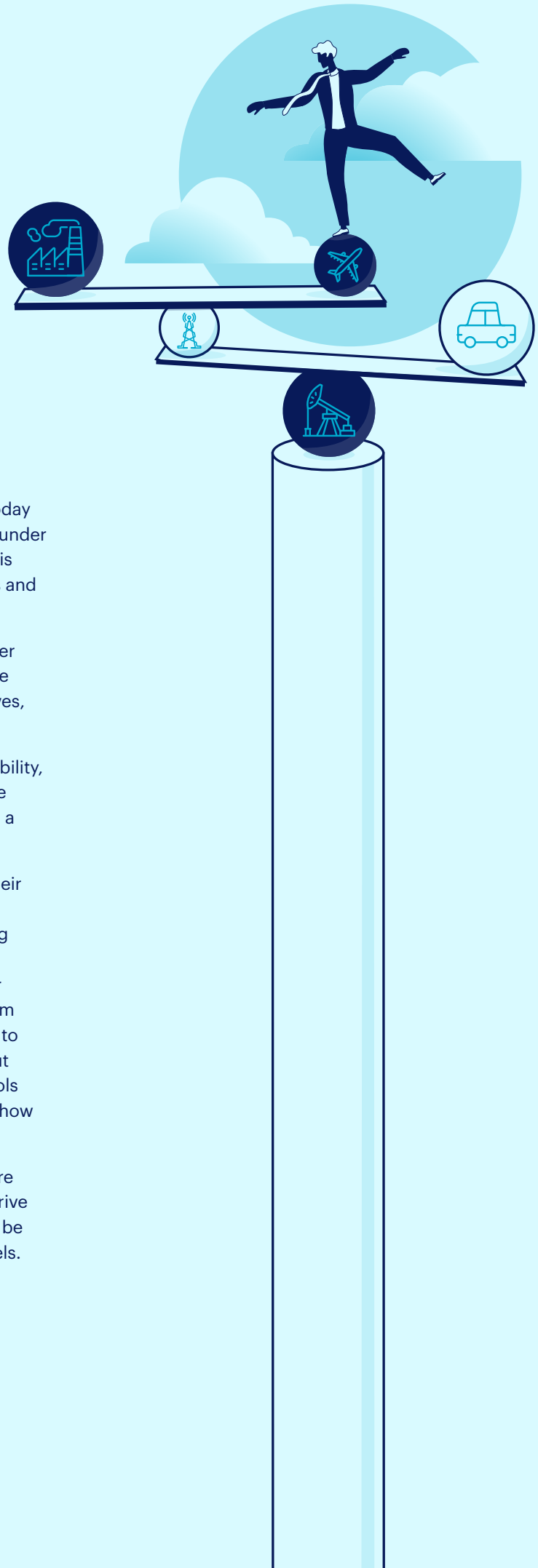
54%

My executive team or board is asking me about zero trust



47%

My executive team or board doesn't really understand what zero trust is



+ Conclusion

A decade ago CISOs began to change, and the data today shows the modern CISO has found their way out from under the wing of other members of the executive team and is ready to take their place in broad business discussions and decision-making.

The trend is truly global, with confident CISOs no longer being limited to back-office support functions. They are clear—they want to contribute to the business objectives, enabling growth and innovation.

But while the CISOs themselves understand their capability, there is still some significant work to be done to ensure the role they perform is not seen simply as a backstop, a technical insurance, or the designated naysayer.

Technology evolution has helped the CISO to adjust their own views both of risk and their role, but technology alone cannot navigate the perception challenge among peers. Zero trust is the latest buzz phrase—and it's one that has gathered traction among non-technical senior stakeholders—but CISOs would do well to treat the term with caution. It is doubtless the right approach to take to build a security posture for frictionless enablement, but discussions with C-suite peers should focus less on tools and technology and more on answering questions of "how do we enable this business case?"

CISOs who are able to define the ways in which they are helping their C-suite peers to acquire new revenues, drive efficiencies, and navigate regulatory requirements will be recognized as valuable contributors at the highest levels.

About Netskope

Netskope, a global SASE leader, helps organizations apply zero trust principles and AI/ML innovations to protect data and defend against cyber threats. Fast and easy to use, the Netskope One platform and its patented Zero Trust Engine provide optimized access and real-time security for people, devices, and data anywhere they go. Thousands of customers trust Netskope and its powerful NewEdge network to reduce risk and gain unrivaled visibility into any cloud, web, and private application activity—providing security and accelerating performance without compromise.

Learn more at netskope.com.

