Invicti

Threats are inevitable. Tradeoffs shouldn’t be.

Welcome to modern web application security.

Security professionals work hard every day to protect their companies, their customers, and society.

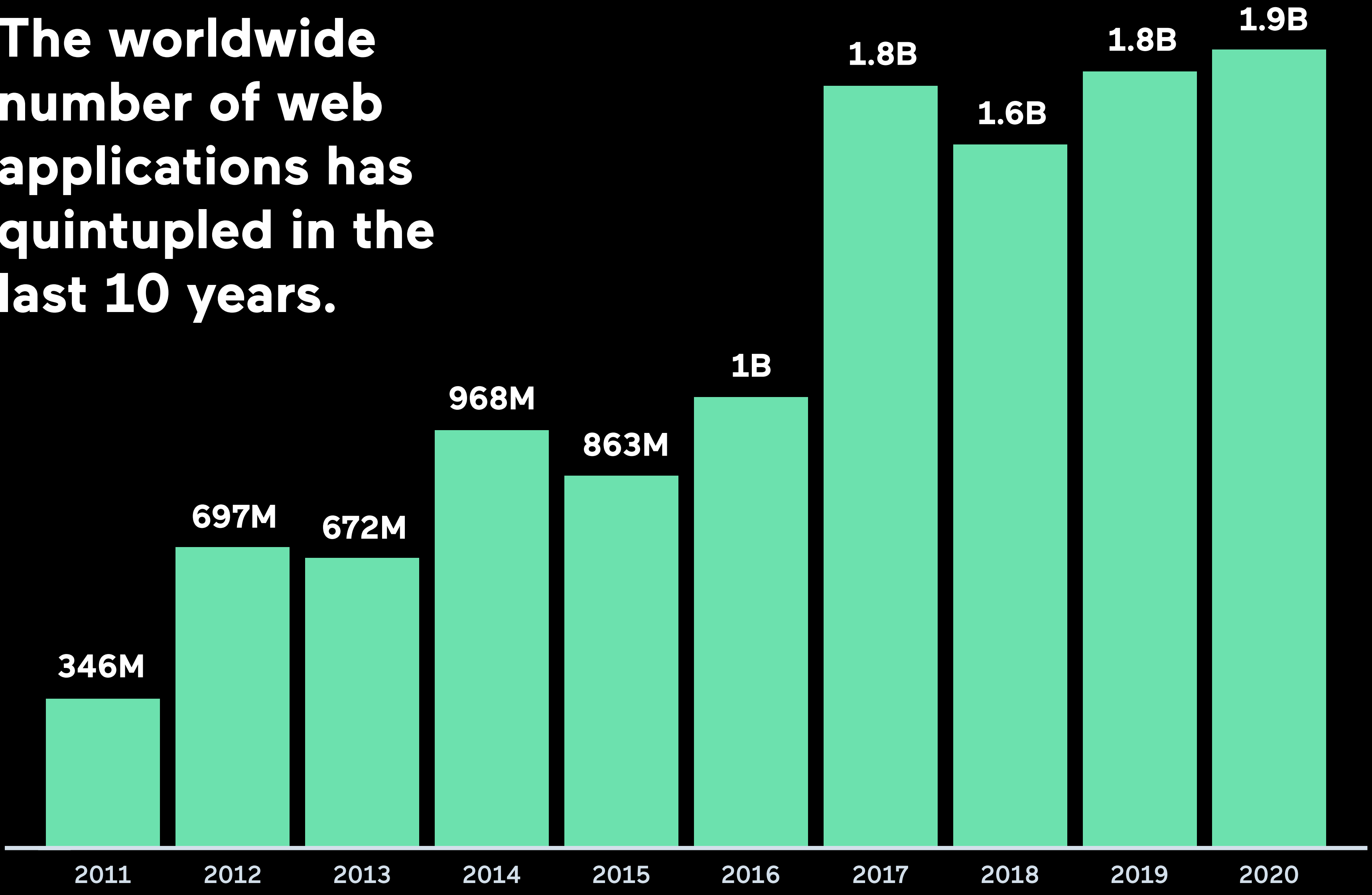
But the challenges they face are getting tougher and more numerous. And the stakes are higher than ever.

Web applications touch nearly every aspect of daily life.

From shopping to working remotely, to analyzing data, to powering critical infrastructure, web apps are everywhere.

And many of the 1.9B web applications in use today have serious vulnerabilities that put businesses, government agencies, and consumers at risk.

The worldwide number of web applications has quintupled in the last 10 years.



Source: https://www.internetlivestats.com/total-number-of-websites/

As web applications have grown, so have breaches – taking a technological, financial, and societal toll.

2020 marked a record year for data breaches, with the cost of an average enterprise breach clocking in at $4.24 million – an all-time high.[1] One in five breaches costs $20M.[2]

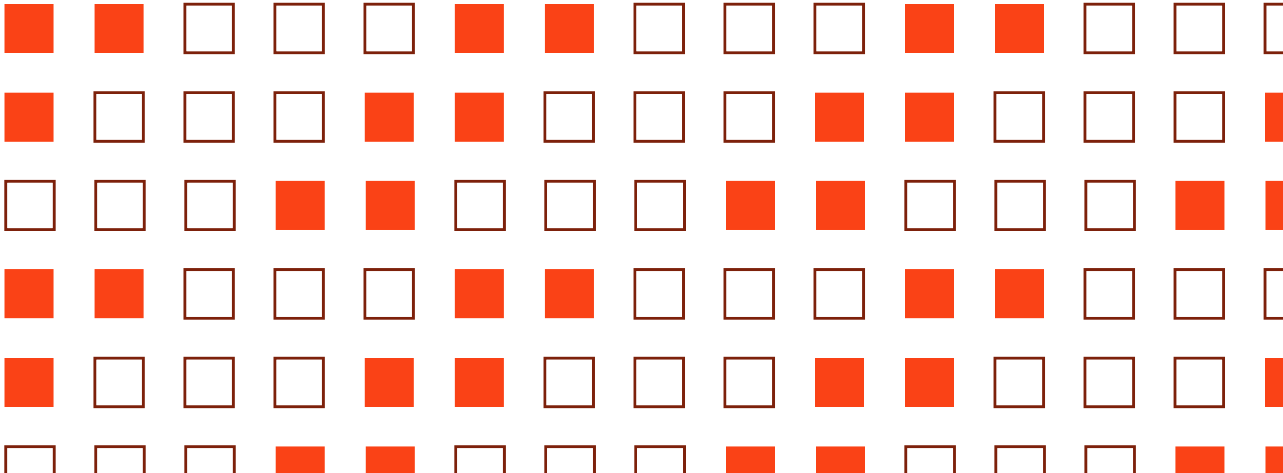
Recent breaches like SolarWinds, Microsoft Exchange, and Colonial Pipeline have commanded news attention because of their far-reaching impacts on both business and society. But there's much more to the story: cybersecurity is a problem everywhere, every day. The massive adoption of web applications in the past 10 years has increased risk for everyone.

Significant breaches have occurred on every type of website: social media sites, shopping and entertainment, government, healthcare, developer code repositories, and even cryptocurrency-related sites.

[1] IBM Cost of a Data Breach
[2] https://www.cyentia.com/iris/

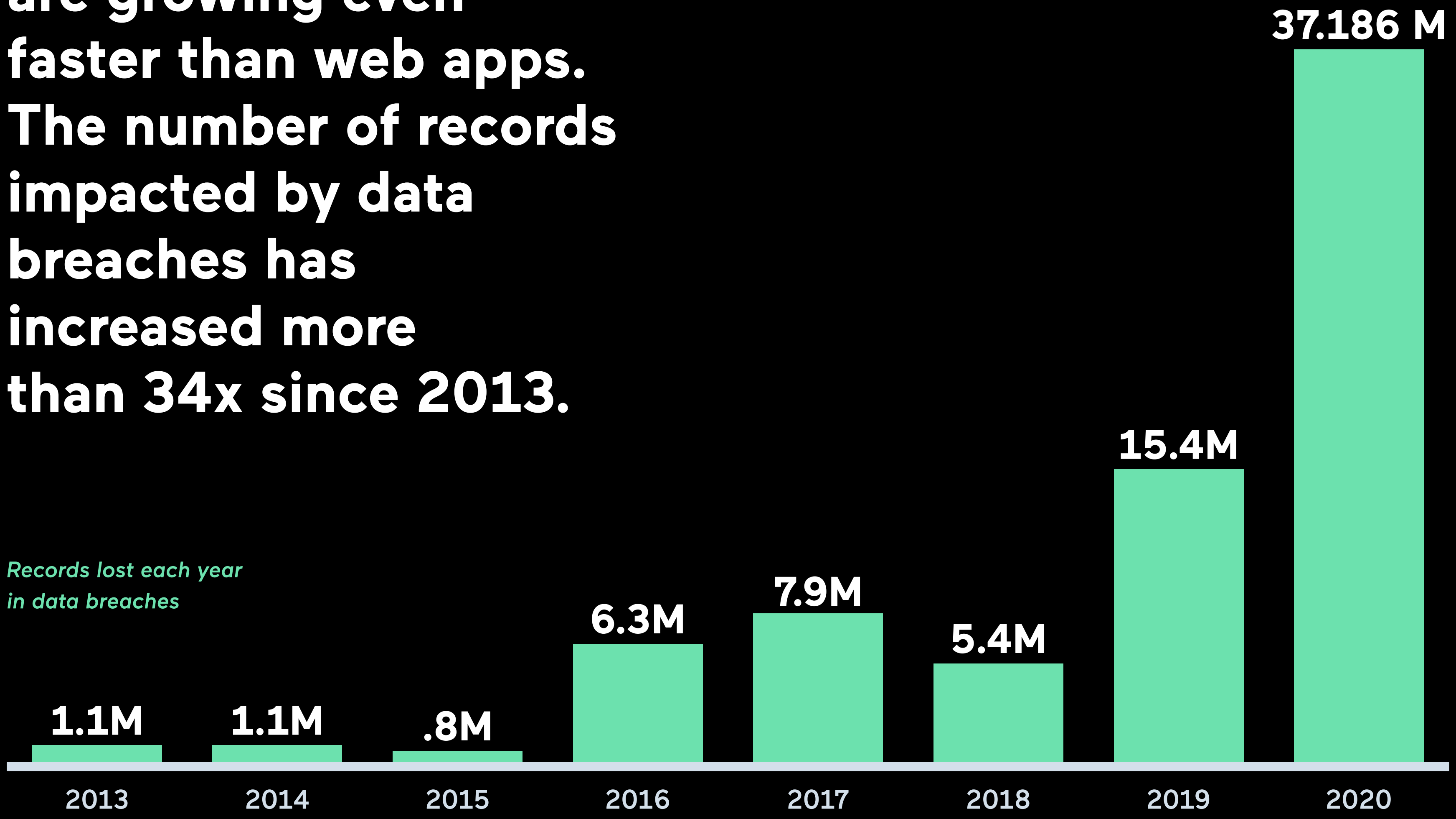
2 out of every 5

breaches originate in a web application.[3]



[3] Verizon DBIR

Data breaches are growing even faster than web apps. The number of records impacted by data breaches has increased more than 34x since 2013.



Source: Risk-based security

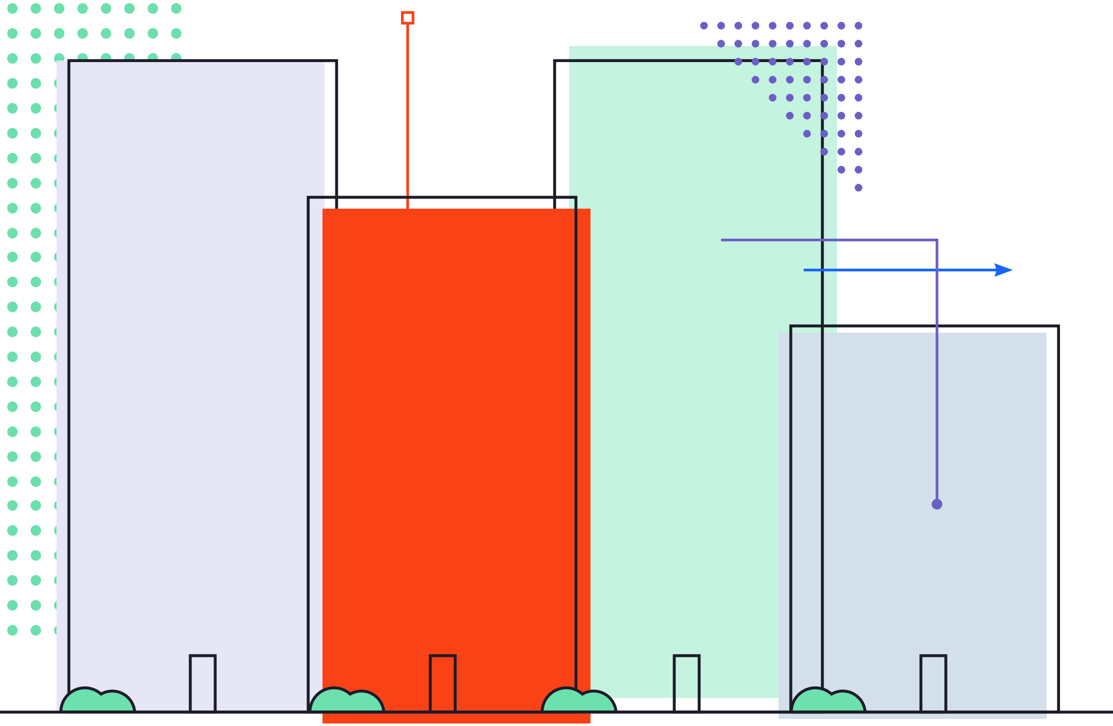
Every company is now a software company.

The average large enterprise is managing 946 custom apps and developing 193 more. Even small organizations can have dozens of custom web applications.

These applications are built using more advanced and complex technologies than ever before. In some organizations, the development is partially or entirely outsourced. And many of them process sensitive data and share resources with other systems and applications.

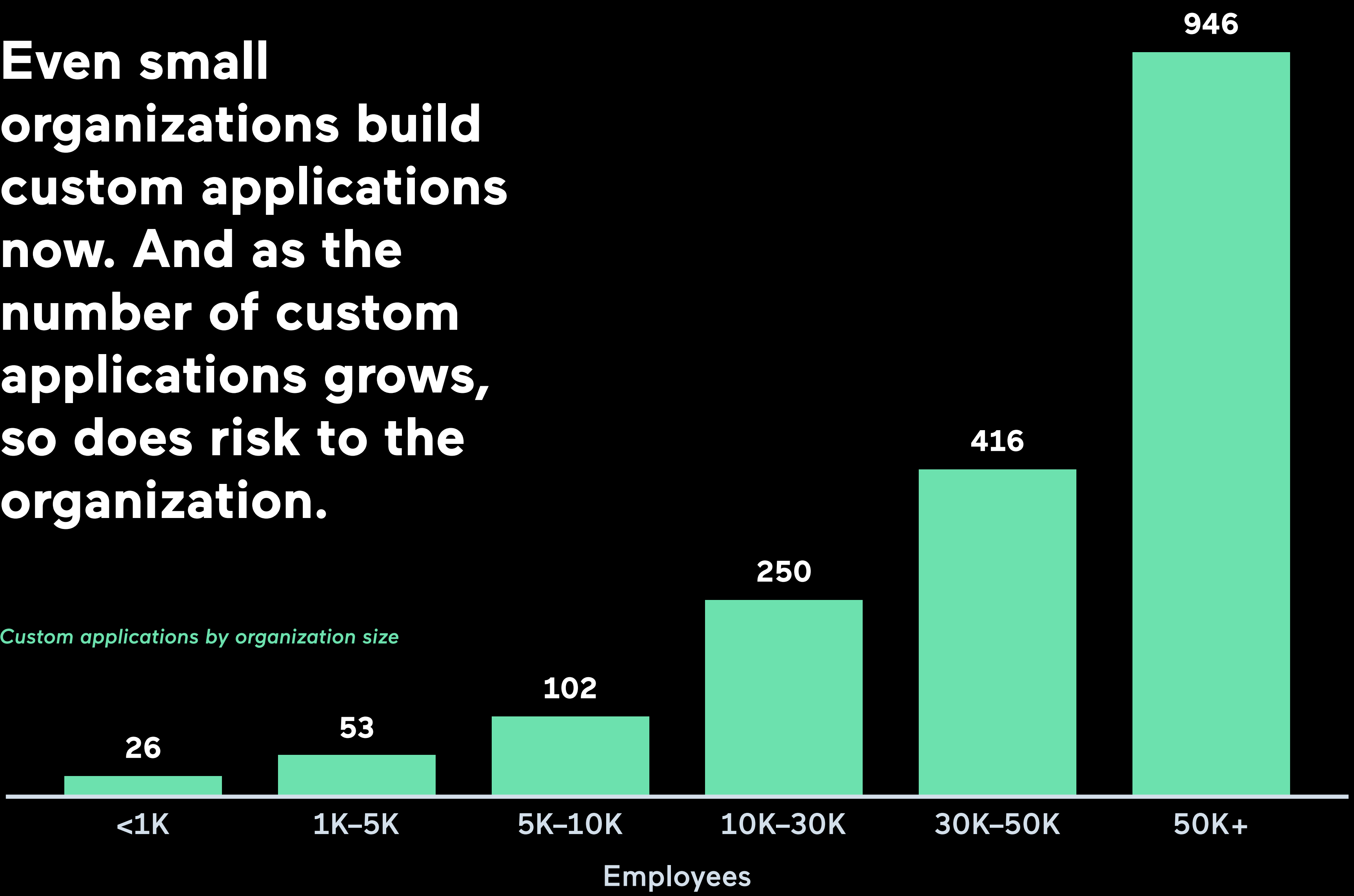
Every organization is at risk – and so are their customers.

1 in 4 Fortune 1000 companies will experience **a breach this year**



Even small organizations build custom applications now. And as the number of custom applications grows, so does risk to the organization.

Custom applications by organization size



Source: https://downloads.cloudsecurityalliance.org/assets/survey/custom-applications-and-iaas-trends-2017.pdf

Things aren’t getting better.

Of course, companies and organizations know that web app security is important. They are ***spending more than ever*** to ensure they protect themselves and their customers.

But it’s not always enough.

Simply put, AppSec isn’t improving.

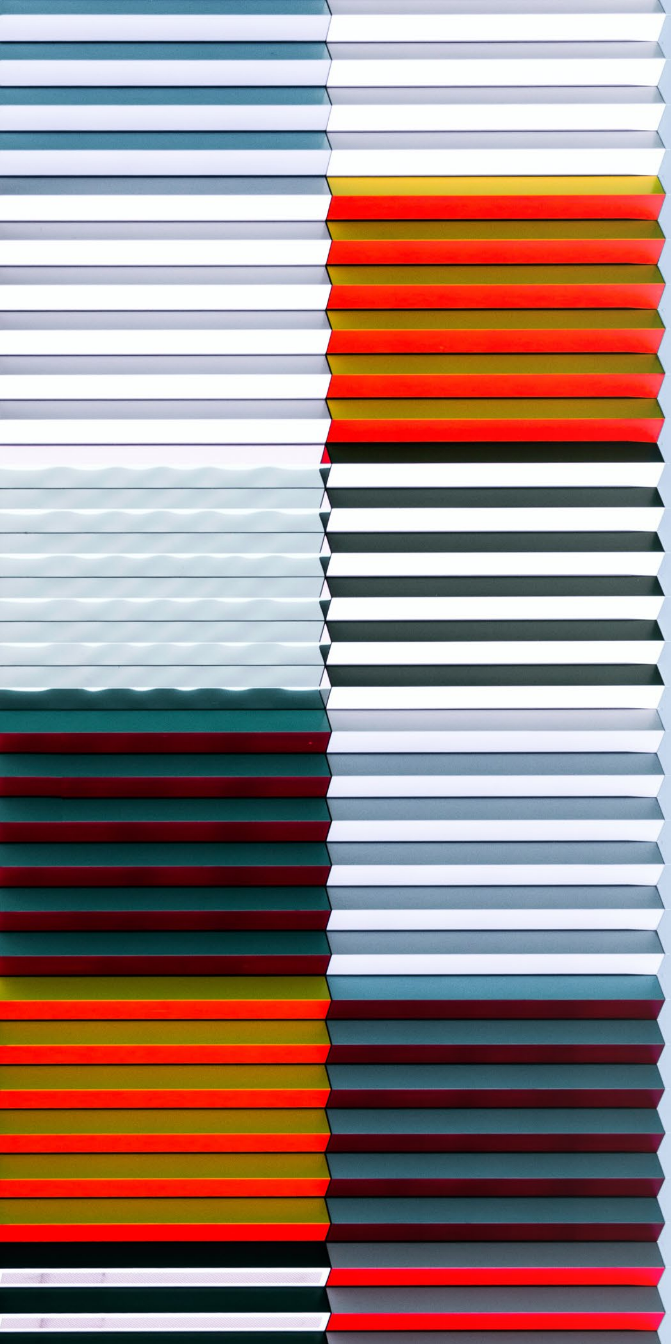
Data breaches are increasing faster than organizations can scale security, and the costs are real.

Enterprises will spend

$3.7B

on application security this year alone.[4]

[4] https://www.securityweek.com/gartner-global-security-spending-will-reach-150-billion-2021



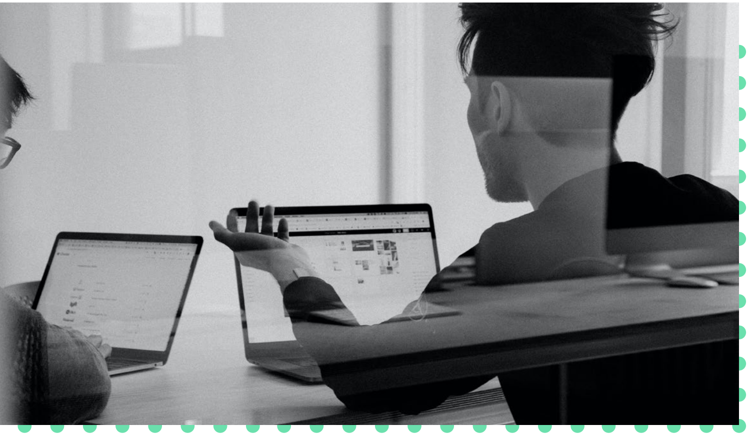
So what's going wrong?

Developers ship insecure code because of innovation pressures. Security teams are constrained – and the talent gap is growing, not getting smaller. Organizations are forced to prioritize security efforts. This leads to risky tradeoffs, like only focusing on part of the attack surface. And a lot of organizations have adopted security models such as shifting left, at the risk of having an incomplete strategy.

Efforts to staff up, prioritize resources, and situate security in the SDLC are all needed – but insufficient.

Security teams can't meet the demands of their charter.

Even when security teams have adequate resourcing for personnel, hiring is really tough. The security skills gap and talent crunch are massive.



57%

of IT and security leaders say that they are impacted by the cybersecurity skills shortage and more than three quarters

76%

say it is extremely or somewhat difficult to recruit and hire security professionals.[5]

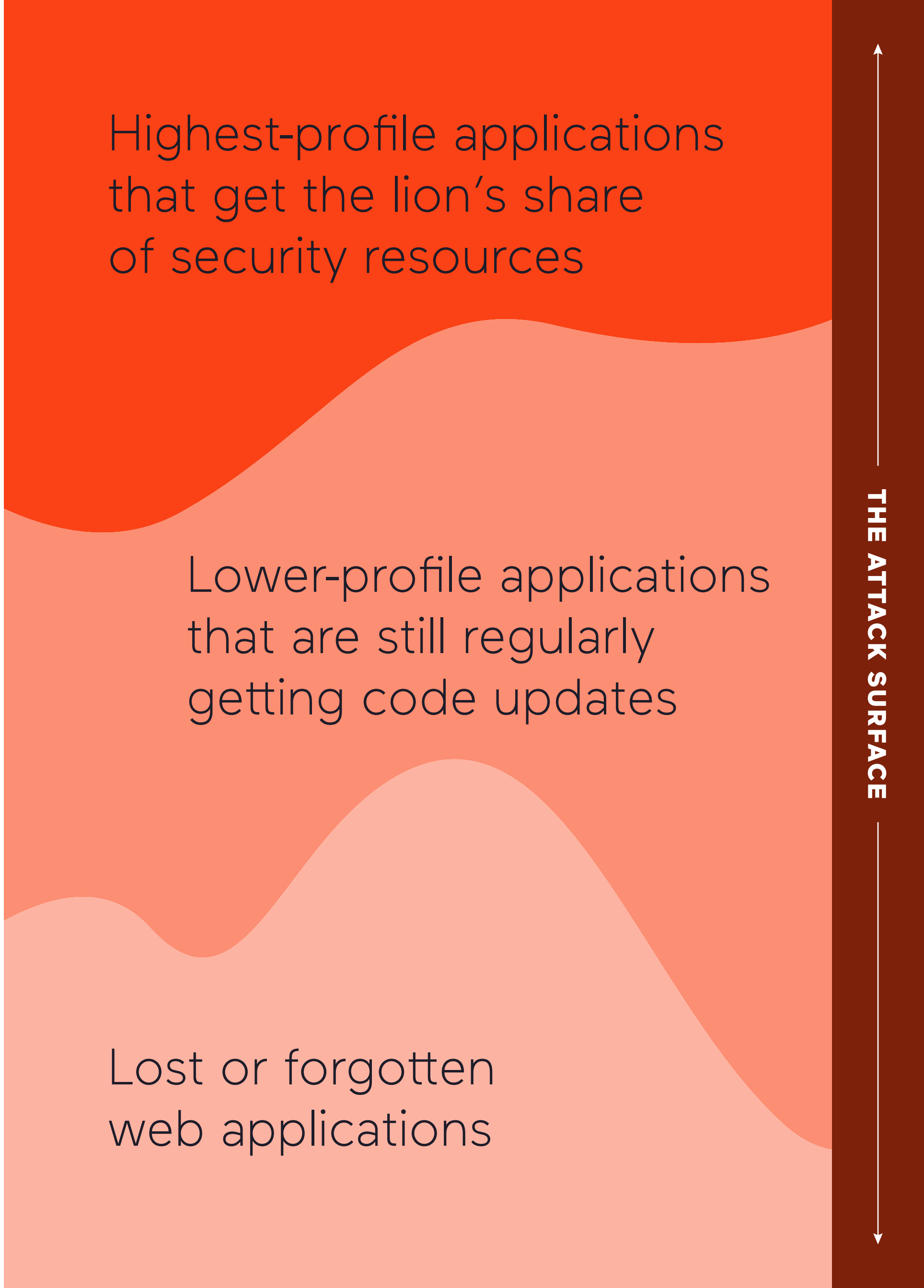
[5] ESG: The Life and Times of Cybersecurity Professionals 2021

Securing only flagship apps leaves the rest exposed.

Security teams are strapped, so they just focus on what they think are the most critical applications, ignoring the vast majority of the web application attack surface.

Even worse, in most organizations, there are a lot of web assets that have been lost or forgotten but are still potential attack vectors.

Blind spots in the attack surface increase an organization’s risk every day.



Highest-profile applications that get the lion’s share of security resources

Lower-profile applications that are still regularly getting code updates

Lost or forgotten web applications

THE ATTACK SURFACE

Shifting left is popular, but it falls short.

In an effort to reduce the amount of vulnerable code being shipped to production, 71% of organizations are bringing security tooling and processes earlier in the SDLC,[6] testing the code during QA, and encouraging developers to incorporate security practices.

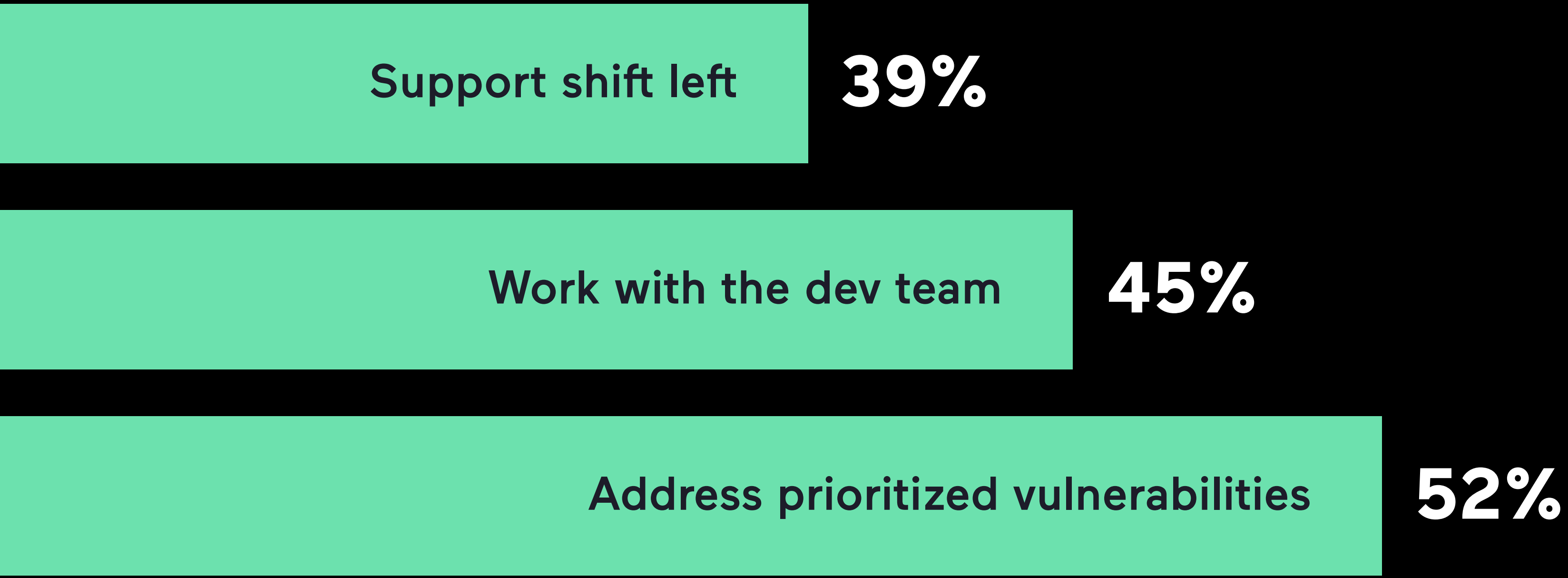
That's a good thing. But it's not enough.

Production applications are the bulk of the attack surface in any organization and they take on new risks with every update. Even worse, most organizations aren't aware of every live asset they still have.

[6] Cowen Equity Research

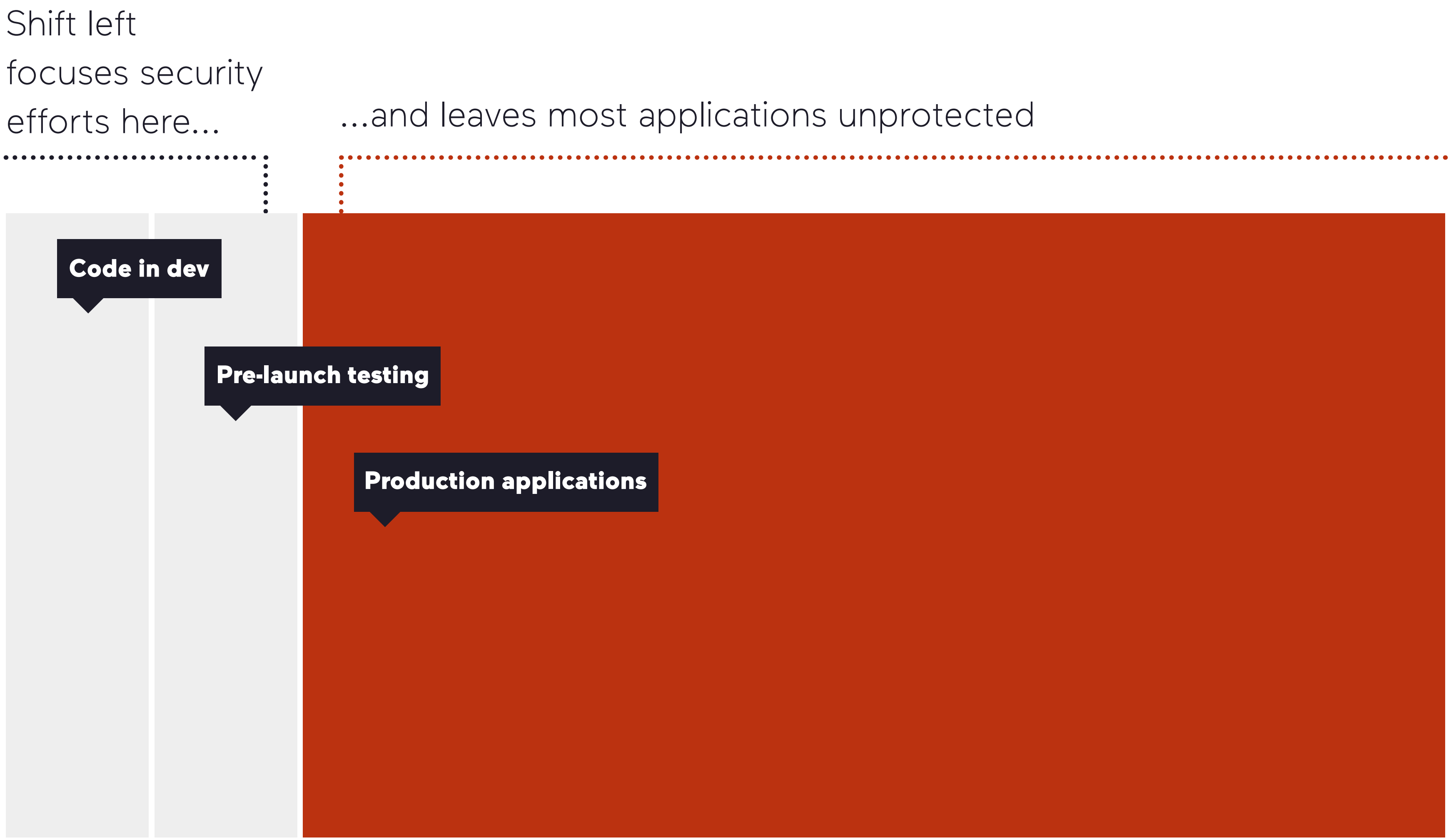
Resource constraints make it challenging for organizations to shift left.

Percentage of respondents who do not have sufficient resources for key strategies



Source: Osterman Research, 2021

And shifting left is only one part of risk reduction.



Shift left focuses security efforts here...

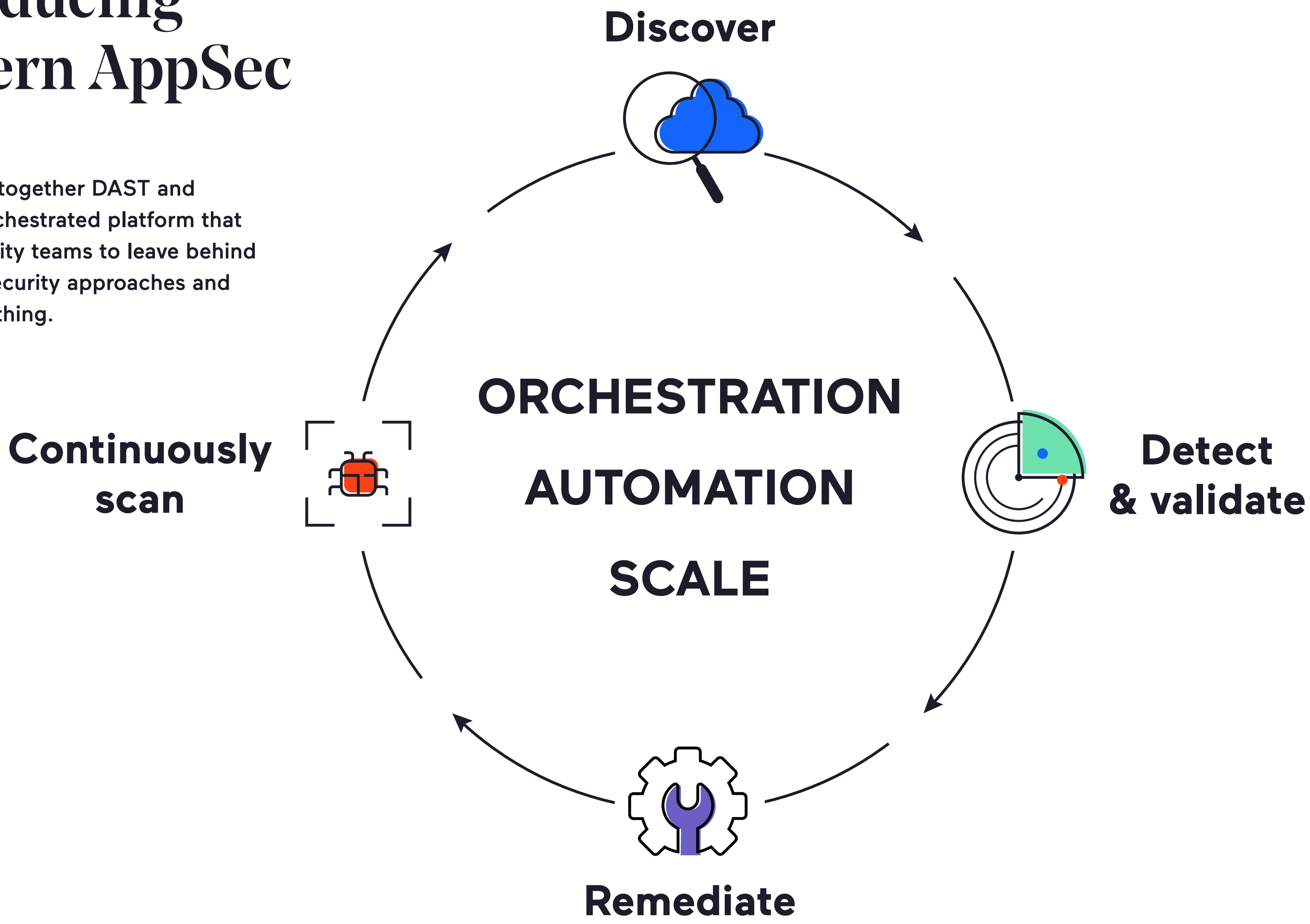
...and leaves most applications unprotected

But all is not lost.

Modern AppSec can help.

Introducing modern AppSec

Invicti brings together DAST and IAST in an orchestrated platform that enables security teams to leave behind incomplete security approaches and protect everything.



Discover

Detect & validate

Remediate

Continuously scan

ORCHESTRATION

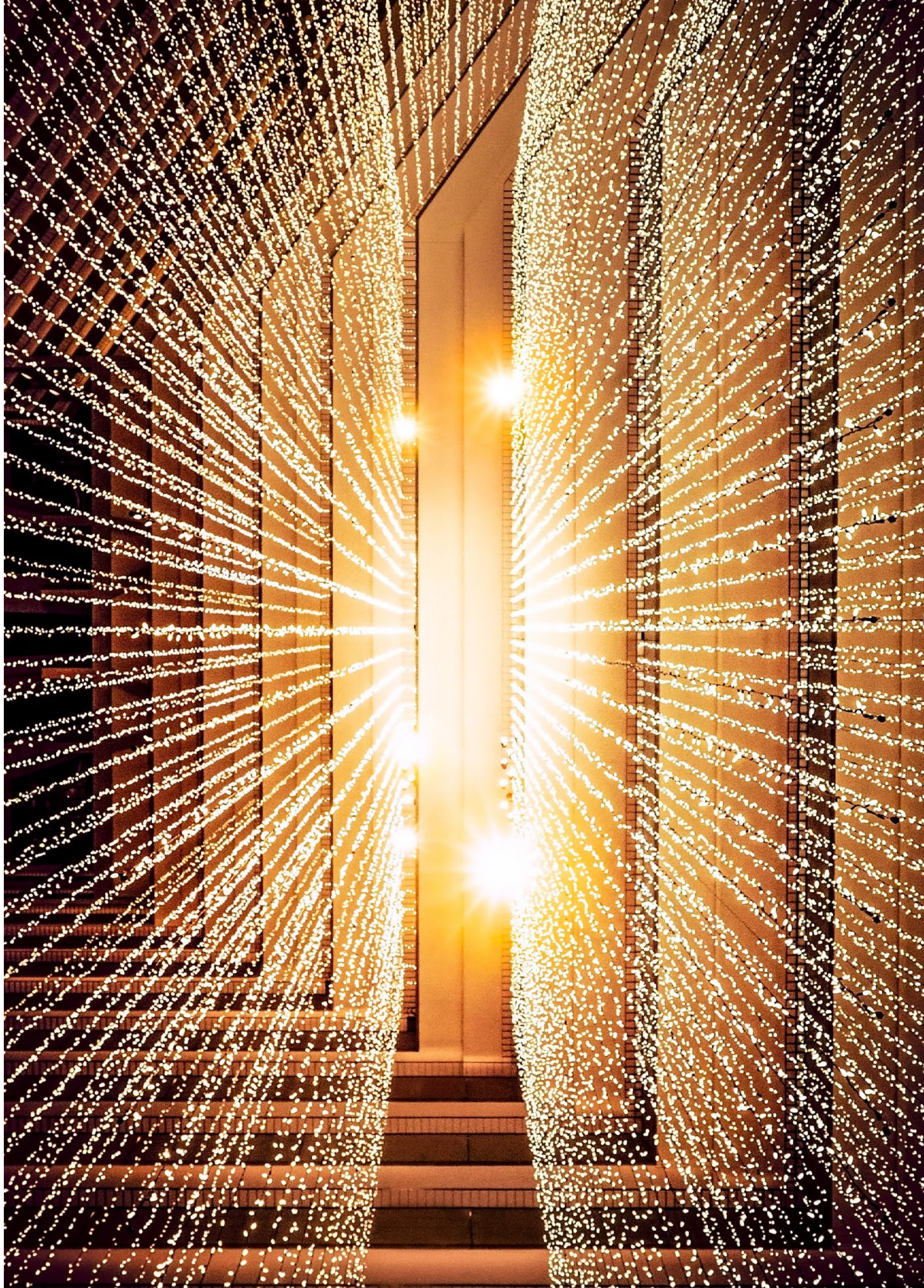
AUTOMATION

SCALE

Modern AppSec means zero compromises.

Scan everything, not just the flagship assets

With Invicti's zero-compromise approach, even small security teams can inventory every web application in their portfolio. Their entire attack surface is always mapped, even as new apps are released and code is updated.



And yes, shift security left... but keep scanning on the right.

Innovation demands are outweighing security practices. Developers are under a ton of pressure to release code as quickly and frequently as possible, and sometimes cut corners. Organizations can't count on code to be free of vulnerabilities even on the day it's released.

The best approach is to scan in development and extend to production, and to keep up with code releases in real time. Integrating security into CI/CD workflows makes it possible.

81%

of developers knowingly release insecure code at least some of the time.[7]

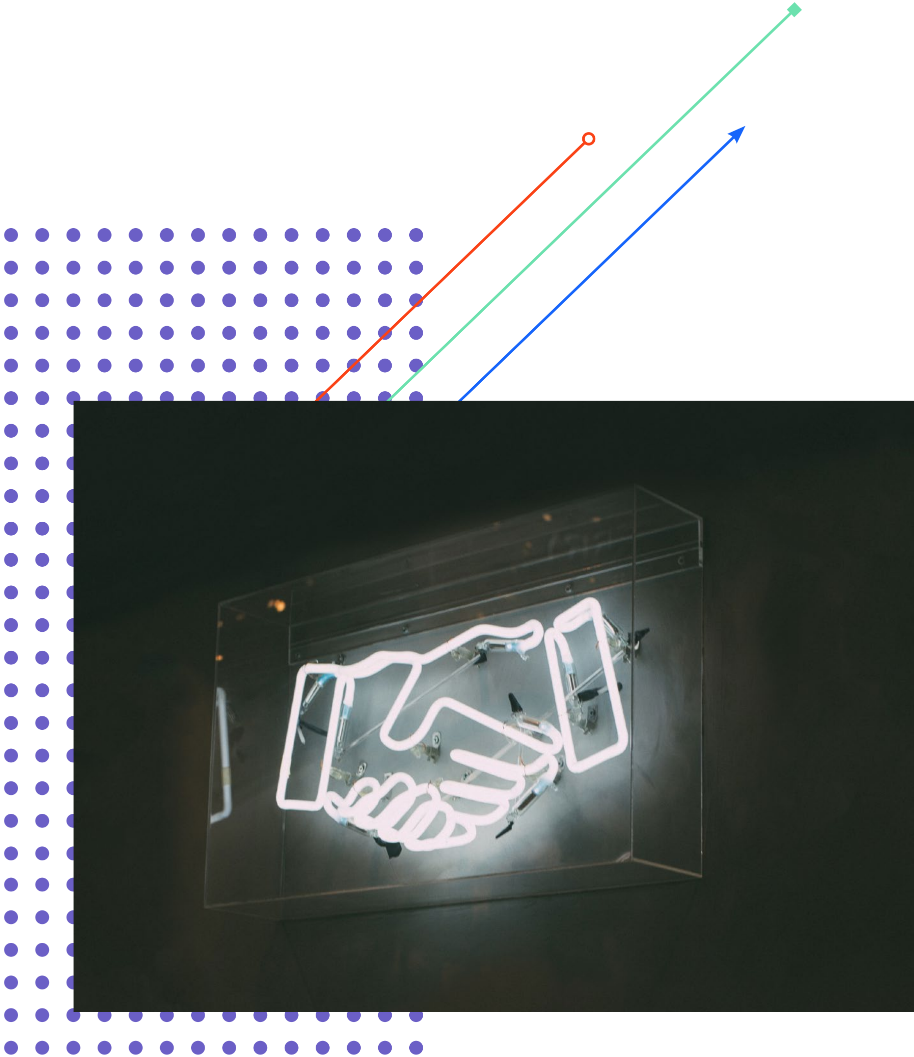
[7] Osterman, 2021

Invicti makes true collaboration among Dev, Sec, and Ops a reality.

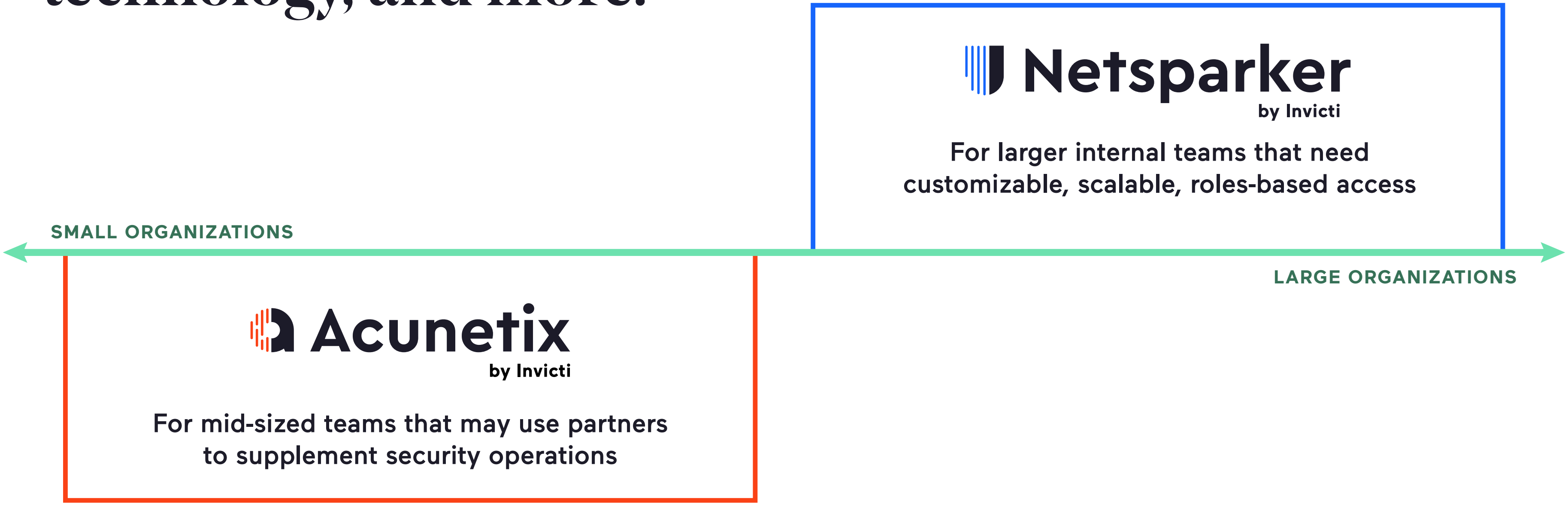
Invicti's zero-compromise platform maximizes your coverage to reduce the risk of breaches. Because it includes both DAST and IAST, you get an outside-in and inside-out view of the entire application – including line-of-code level details to help pinpoint the problem. And this isn't the typical DAST/IAST tool you might have heard of in the past – with automations and our prioritization engine, you can truly cover everything.

Our proof-based approach doesn't just flag vulnerabilities – it demonstrates with 99.98% accuracy which ones are exploitable.

And remediation is easier and less disruptive with developer workflow integrations and automatic rescans to confirm that fixes are effective.



Invicti's solutions support organizations across government, financial services, healthcare, manufacturing, technology, and more.



Netsparker by Invicti

For larger internal teams that need customizable, scalable, roles-based access

SMALL ORGANIZATIONS

LARGE ORGANIZATIONS

Acunetix by Invicti

For mid-sized teams that may use partners to supplement security operations

Don't just take it from us: Security pros love Netsparker and Acunetix.

Compared to the solution we had before, we **lowered our false positives** by a high margin and improved the detection of security issues.

– Julien L.

Netsparker **helped us understand the risks**, how to mitigate them before they are deployed and provides ongoing incremental scans to ensure compliance.

– Tim W.

Netsparker integrates with so many technologies in such an efficient manner it makes **complete CI/CD coverage possible** from a DAST perspective.

– Damien S.

Detailed reports can be presented to software architects and developers on the team and summary reports can be presented to management.

– Chris A.

You can run the test and you will have a report within a few hours, so you can **iterate quickly and recheck security again** after developers fix the issues.

– Lubos B.

Stop compromising.

Get your security team the modern tools that will enable them to keep up with today’s security landscape.

Invicti: Zero-compromise web application security

Find out more: **Book a demo today.**

Invicti Security is changing the way web applications are secured by organizations across the world. Invicti's two products, Netsparker and Acunetix, prevent costly data breaches and other security incidents by identifying web vulnerabilities from the early stages of application development through production. Netsparker is the leading enterprise DAST + IAST solution and the first to deliver automatic verification of vulnerabilities with its proprietary Proof-Based Scanning technology, enabling unparalleled scalability for even the largest organizations. Known for its ease of use, speed, and accuracy, Acunetix enables even small businesses to leverage best-in-class web application security tools and was the first-ever automated web application security scanner to feature both DAST and IAST. Invicti is headquartered in Austin, Texas, and serves organizations all around the world.

Invicti

www.invicti.com