WEBINAR

The Fast & Frivolous: The Race for Vulnerability Remediation

Tuesday, September 13
at 12:00 p.m. ET

SecurityScorecard
The Power of Knowing

Cyentia Institute

PRESENTERS

Wade Baker, PhD
Co-founder of The Cyentia Institute
Cyentia Institute

Greg Petropoulos, PhD
Director of Data Science
SecurityScorecard

Moderator

Miryam Meir
Senior Director, Product Marketing
SecurityScorecard

Meet our Speakers

Wade Baker

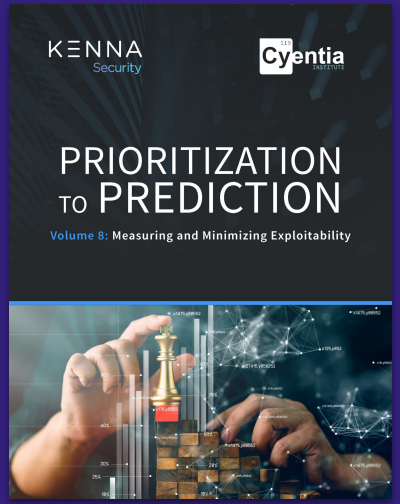
PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

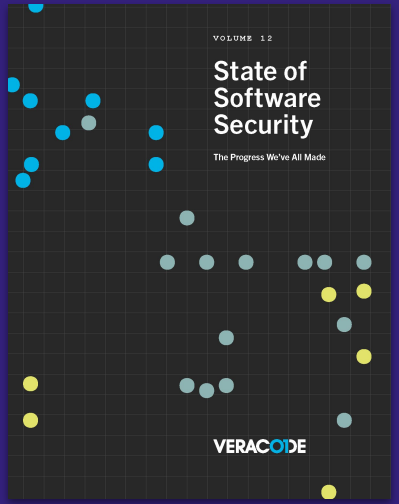
Gregory Petropoulos

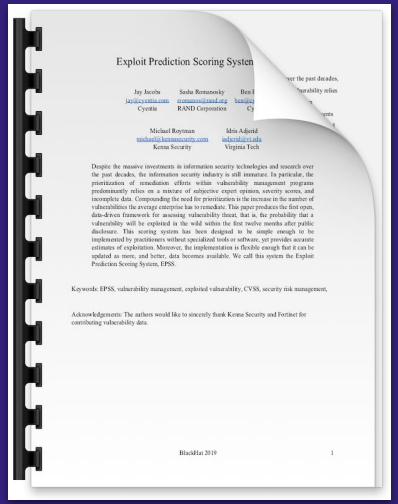
DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

Cyentia Institute
Data-Driven Cybersecurity Research





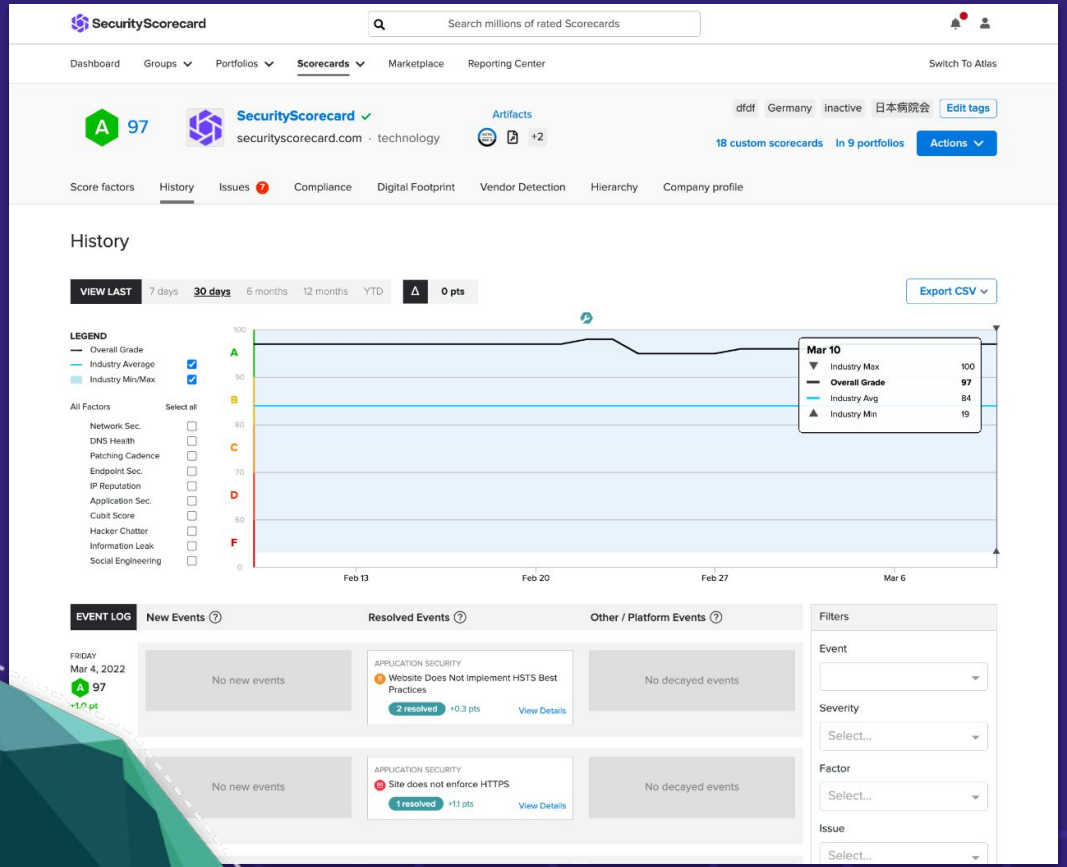


www.cyentia.com/research

SecurityScorecard

Transforming how your team Manages Risk

SecurityScorecard empowers teams with **quality data**, giving you the **confidence to make fast** and **informed decisions**



SecurityScorecard

Panel Discussion

Why is the *Fast and the Frivolous* report so significant?

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

- **1.6 M** organizations
- **Billions** of exposed assets
- **3 year** period
- Measure **prevalence** and **pace** of vulnerability remediation

SecurityScorecard

Panel Discussion

Where does the data from this report come from?

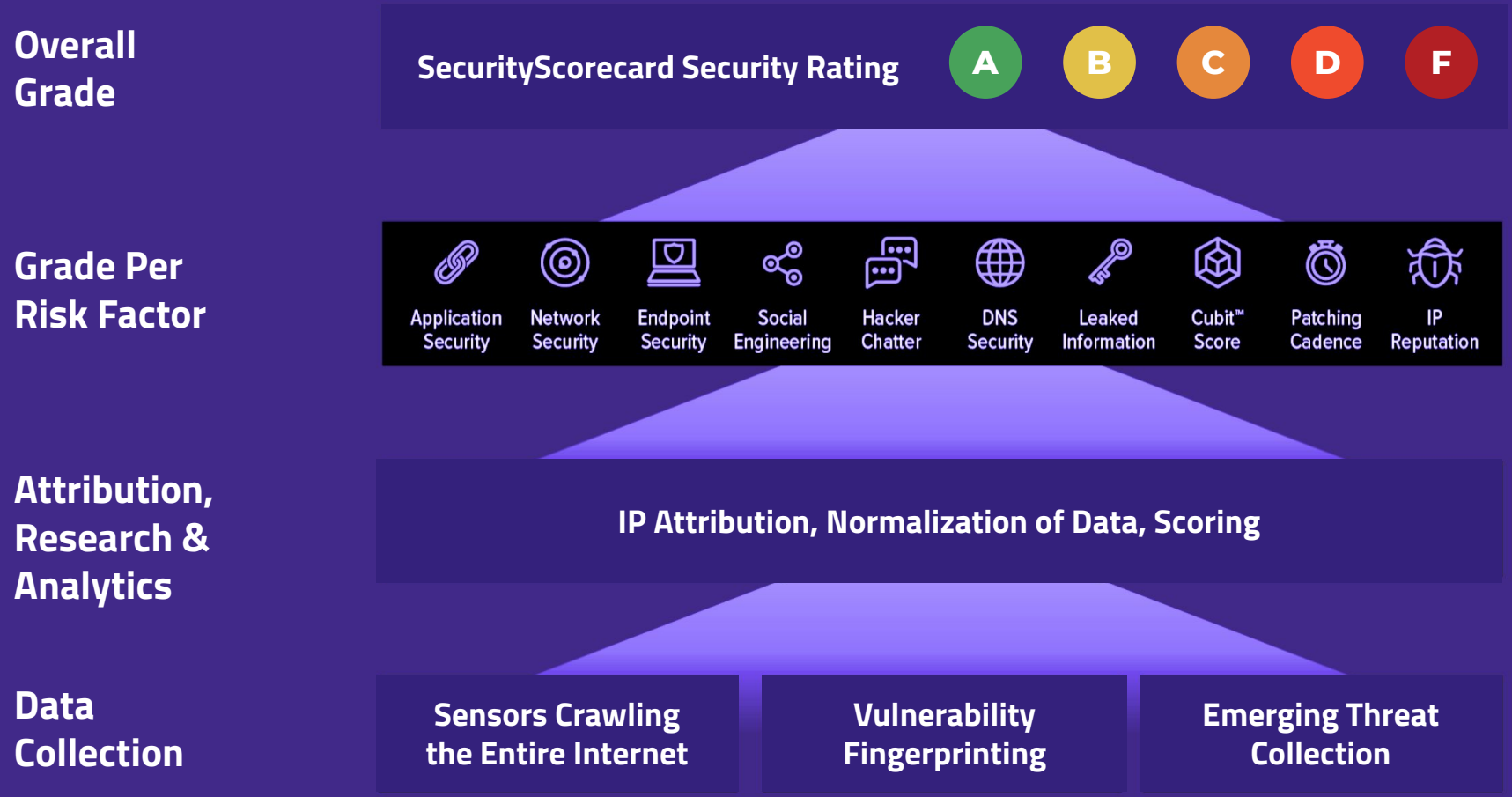
Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

SecurityScorecard


Overall Grade
SecurityScorecard Security Rating
A
B
C
D
F
Grade Per Risk Factor
Application Security
Network Security
Endpoint Security
Social Engineering
Hacker Chatter
DNS Security
Leaked Information
Cubit™ Score
Patching Cadence
IP Reputation
Attribution, Research & Analytics
IP Attribution, Normalization of Data, Scoring
Data Collection
Sensors Crawling the Entire Internet
Vulnerability Fingerprinting
Emerging Threat Collection

Score calculation starts with data collection

More than
10,000,000
infected IPs over 200 malware families identified daily

Upwards of
80,000,000,000
vulnerabilities and attributions published weekly

SecurityScorecard non-intrusively collects data from publicly available commercial and open source feeds across the internet for a non intrusive, outside-in, hacker perspective of a company's cybersecurity posture.

12,000,000+
Companies Scored

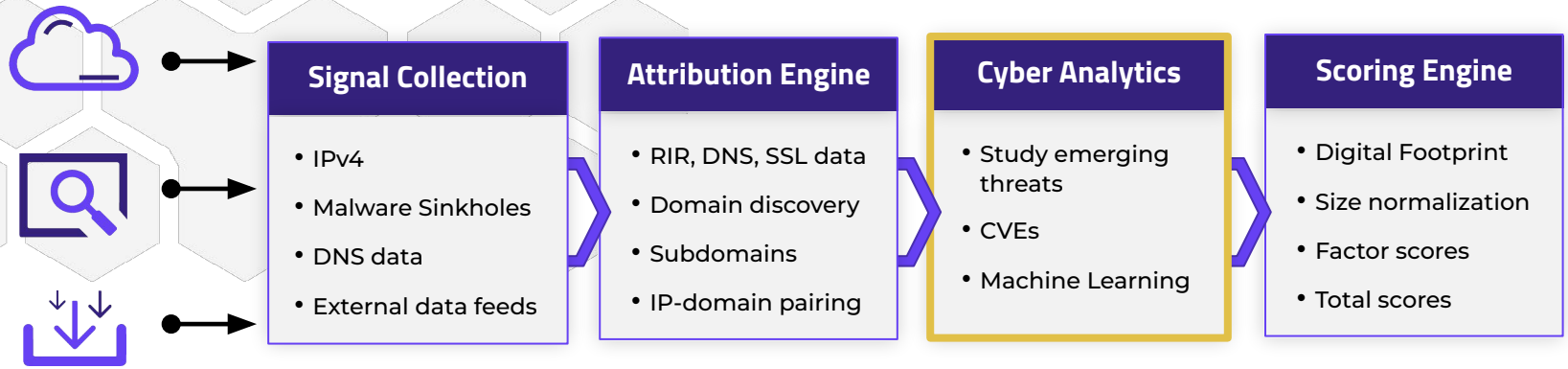
873,590
Unique Companies Followed

2,000+
Logged Into The Platform Daily

With over 12 million companies scored, the depth and scope of our collected data is unmatched, and our ability to validate our data increases with every new customer and follower.

SecurityScorecard

How our data is calculated into security scores



Once collected, we analyze the data to discover 79 cybersecurity issue types that are topically organized into 10 Factors. The security issues are measured by the **assigned factor, severity-based weight, update cadence, and age out window** to determine the calculation of a score.

SecurityScorecard

Panel Discussion

What are our key findings from the report?

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

53% of orgs have an Internet-exposed vulnerability

...and some have a lot of them

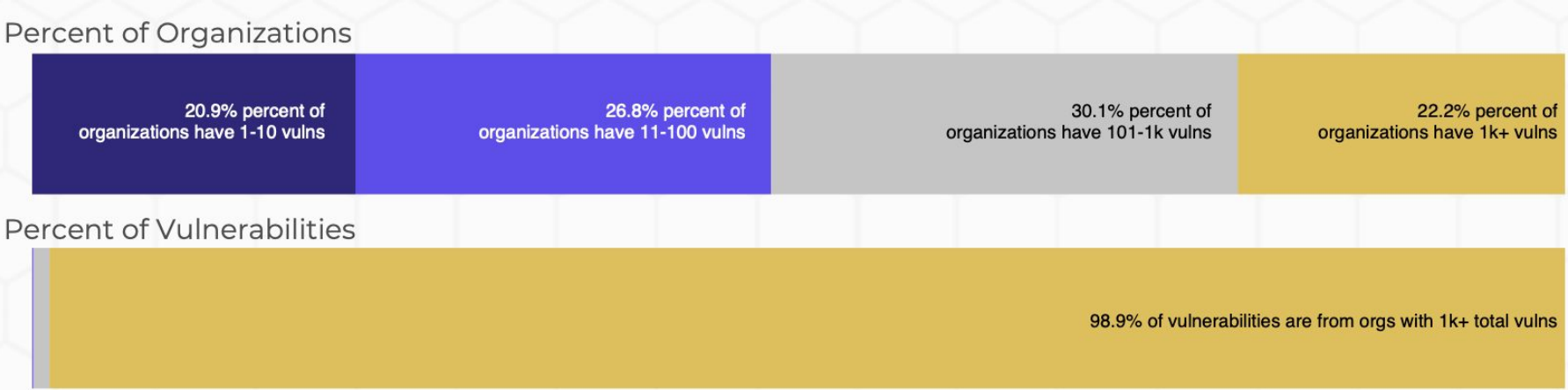
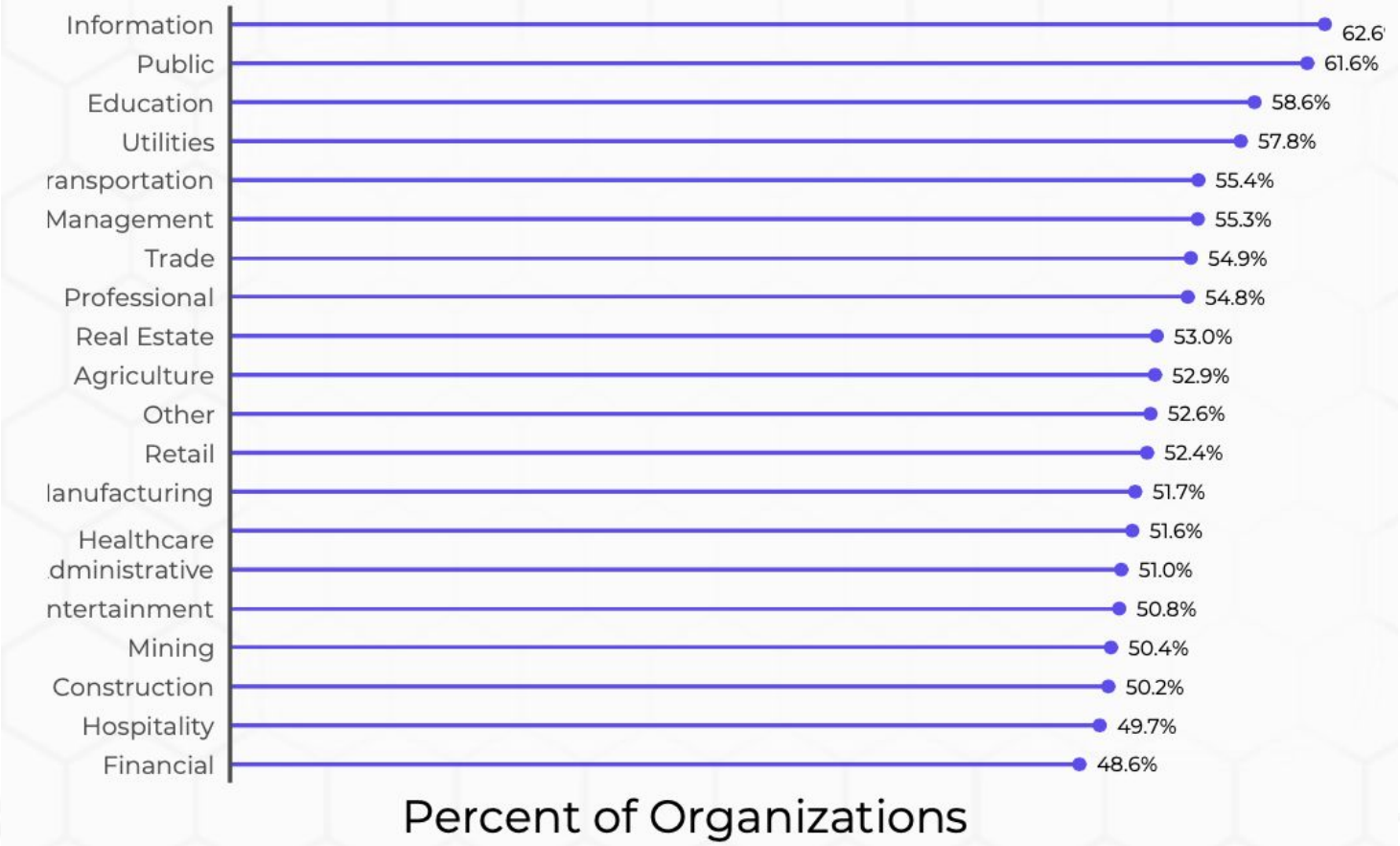


Figure 2: Distribution of open vulnerabilities at organizations

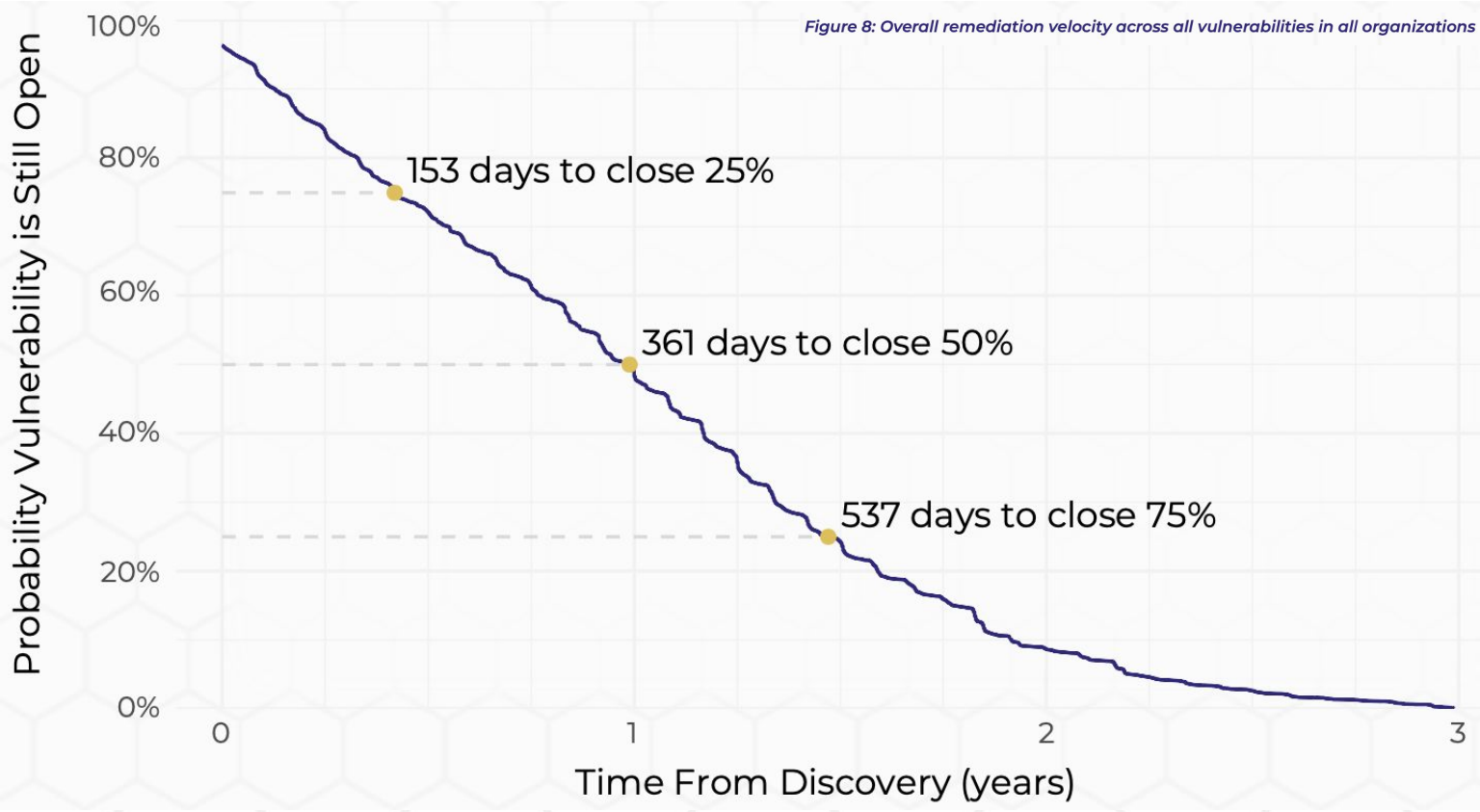
SecurityScorecard

Vulnerability prevalence by Sector



SecurityScorecard

It takes a year to fix half of vulnerabilities



SecurityScorecard

Poll

Does the amount of time that it takes to remediate vulnerabilities seem:

- ❑ Too long
- ❑ Too short
- ❑ About right

It takes a year to fix half of vulnerabilities

Figure 9: Simplified view of overall remediation velocity across all vulnerabilities

Panel Discussion

Why do the rates of vulnerability management differ among organizations? What does this say about those organizations?

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

More hands make light work

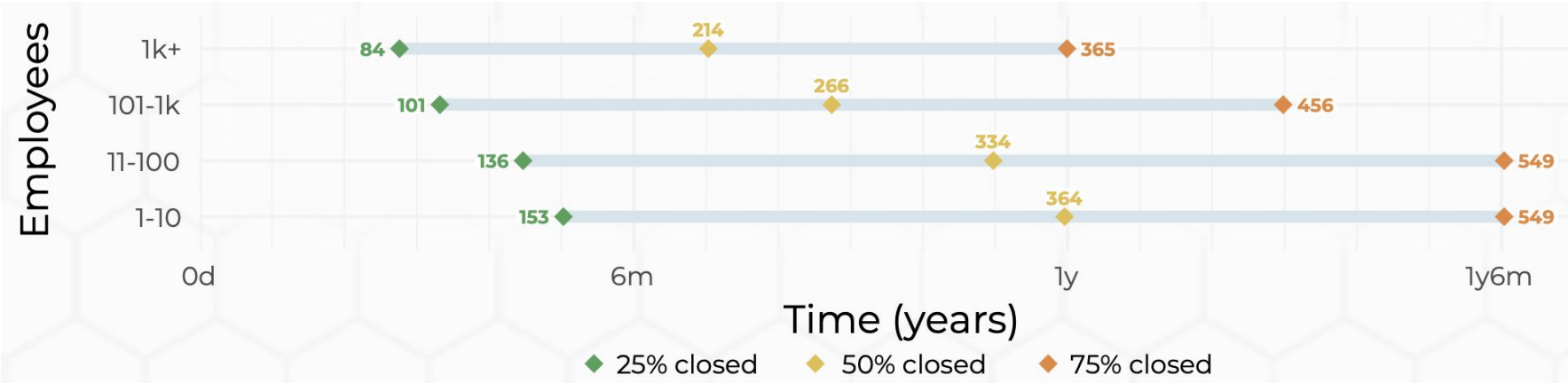


Figure 11: Comparison of remediation velocity by organization size

More vulnerabilities slow down the work

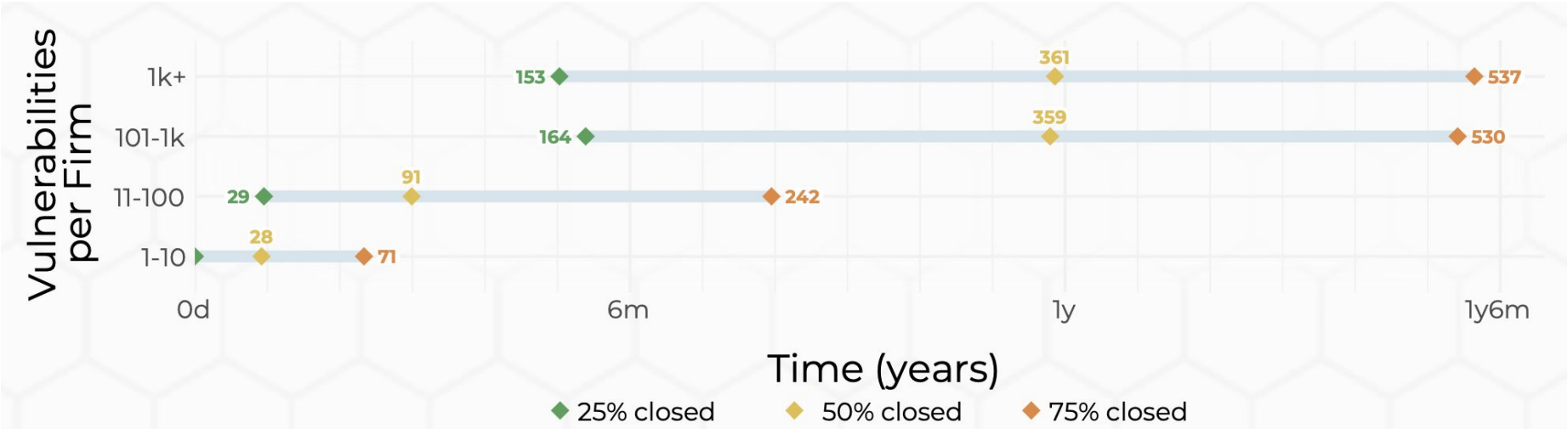


Figure 12: Comparison of remediation velocity by number of open vulnerabilities per firm

SecurityScorecard

Panel Discussion

What are some surprising differences you found among industries?

Wade Baker

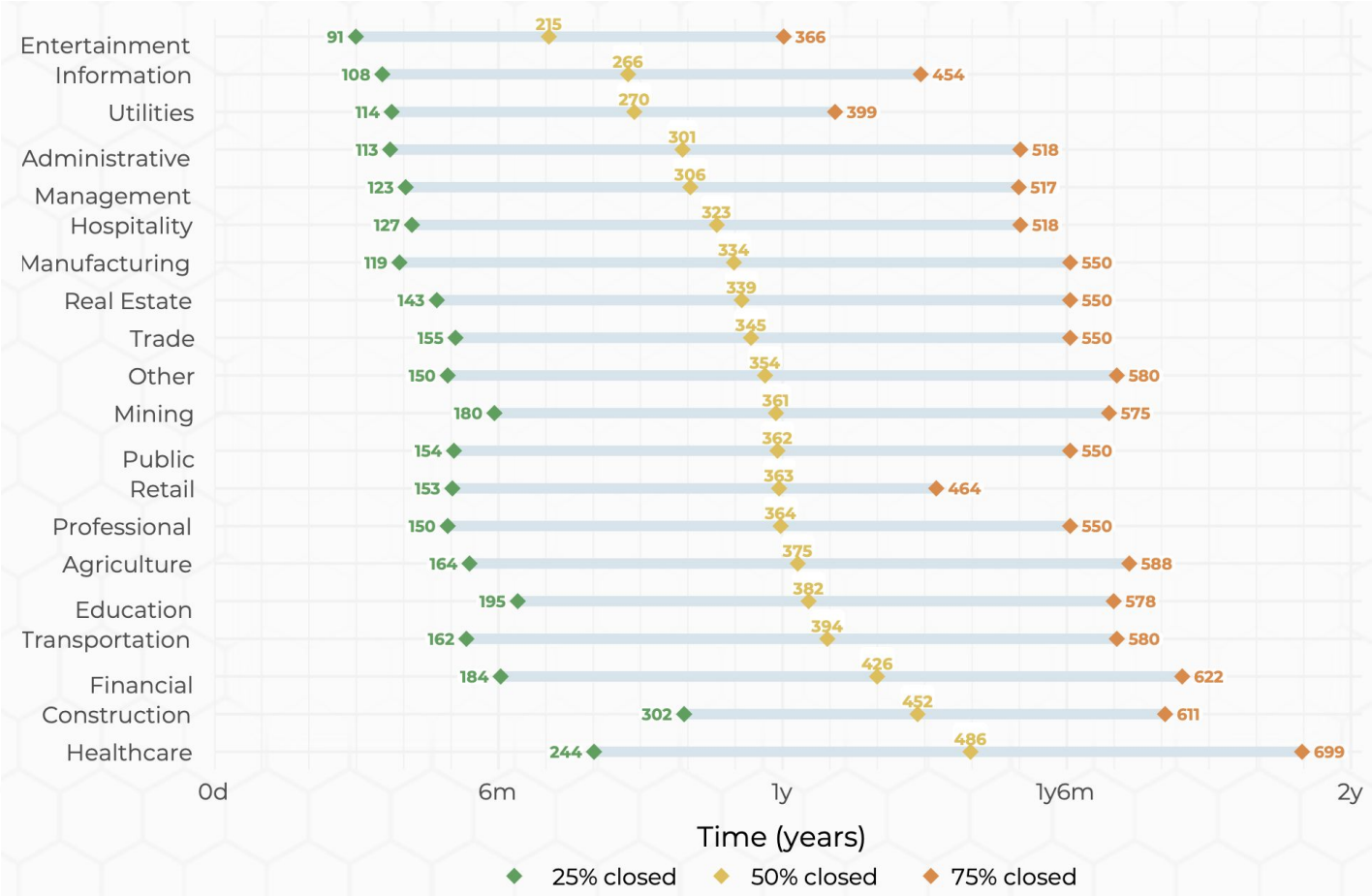
PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

Utilities faster than Finance?!



SecurityScorecard

Pacing Finance subsectors

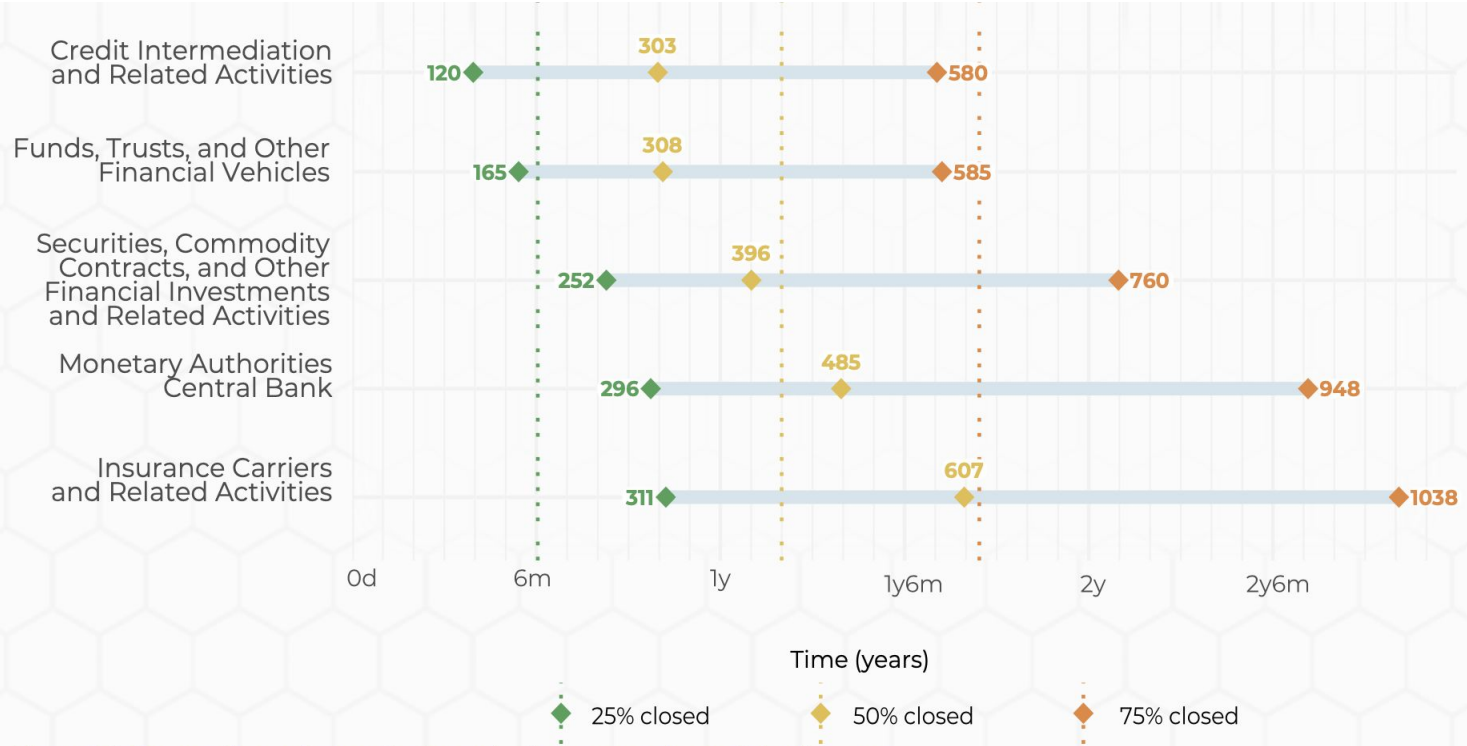


Figure 14: Comparison of remediation velocity among Financial subsectors

SecurityScorecard

Pacing Utility subsectors

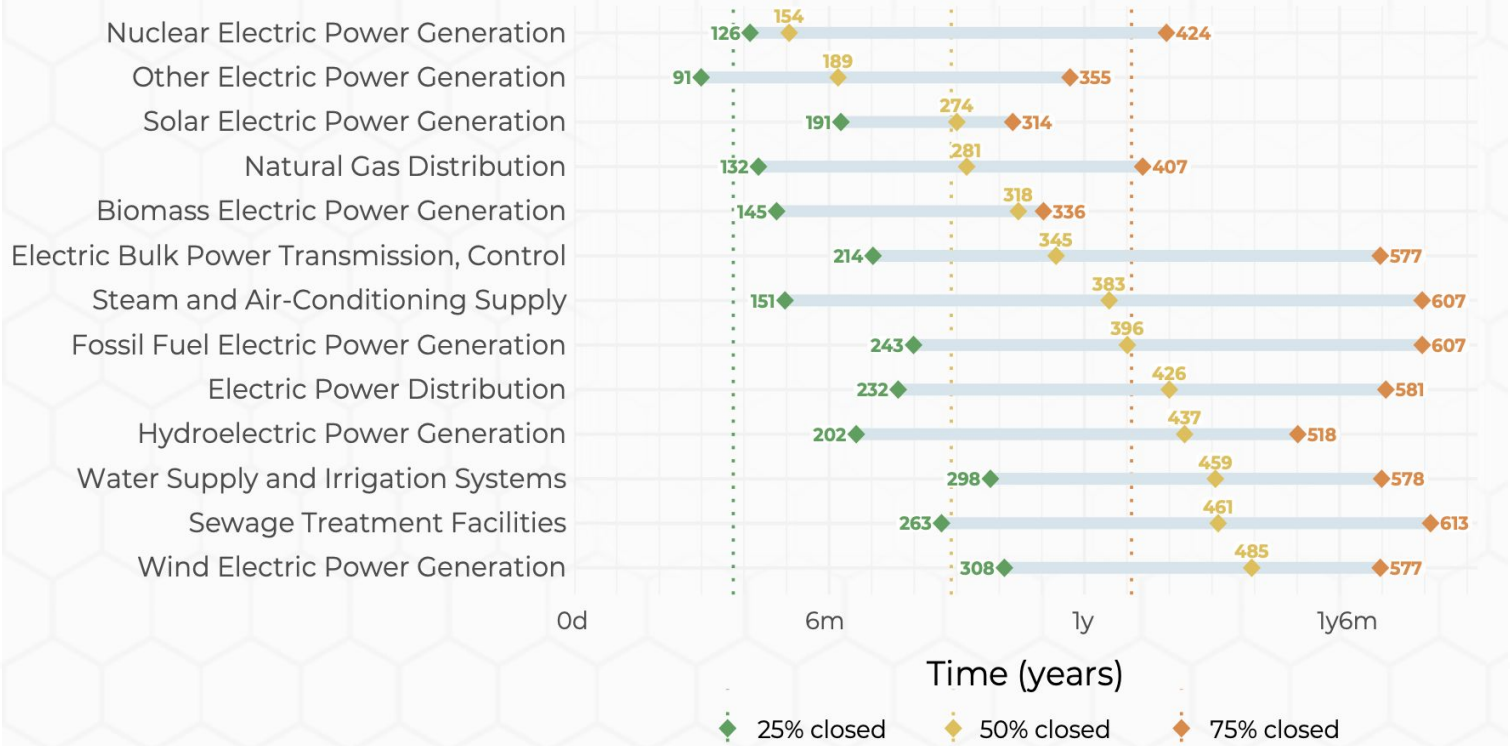


Figure 15: Comparison of remediation velocity among Utilities subsectors

SecurityScorecard

Poll

Do you measure the percentage of vulnerabilities that your organization fixes in a given time period?

- ❑ Yes
- ❑ No
- ❑ No but I plan to

Panel Discussion

What is an organization's capacity to remediate vulnerabilities?

Wade Baker

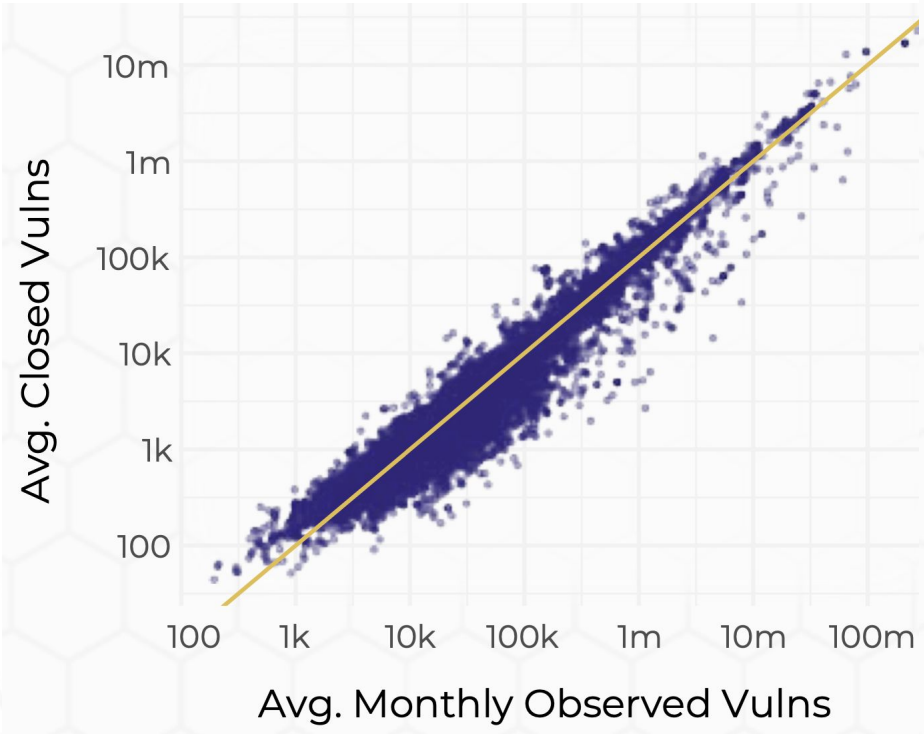
PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

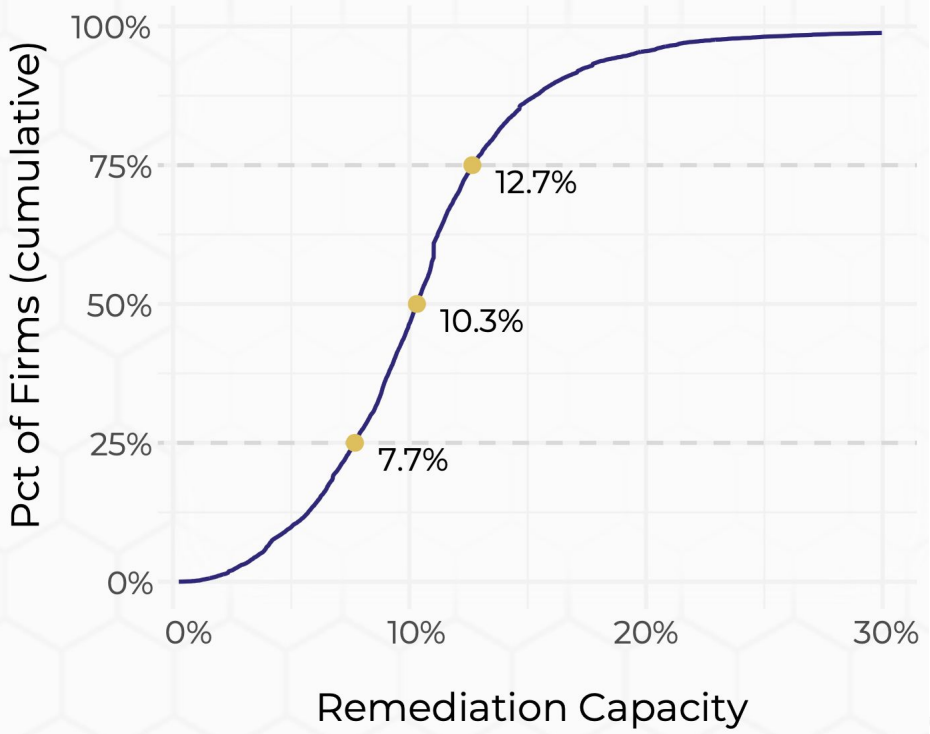
Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

Orgs fix an avg 10% of vulnerabilities per month





SecurityScorecard

Poll

Does your organization prioritize known exploited vulnerabilities?

- ❑ Yes
- ❑ No
- ❑ No but I plan to

Most don’t have their priorities straight

Figure 20: Comparison of remediation velocity for vulnerabilities with/without exploit code

SecurityScorecard

60% of orgs driving down vulns over time

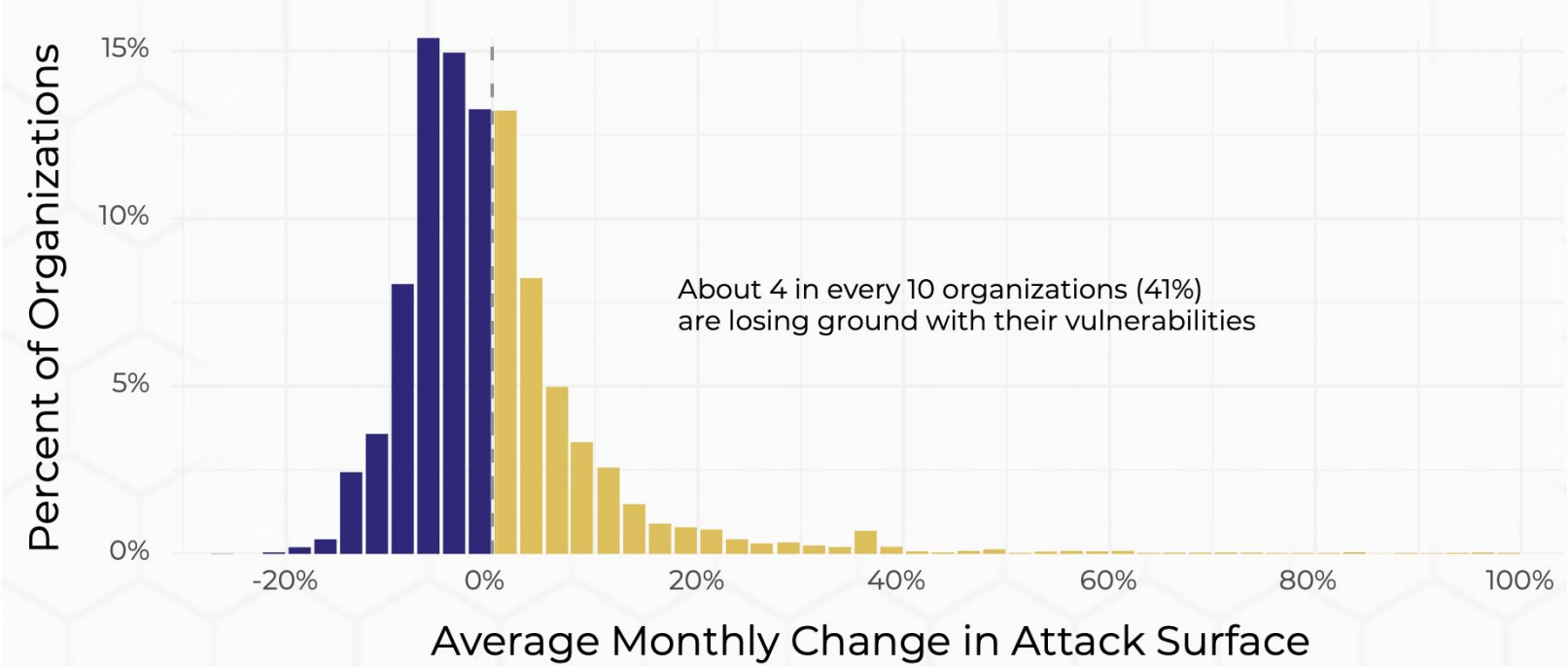


Figure 22: Organizations gaining vs. losing ground in vulnerability remediation

SecurityScorecard

Panel Discussion

How do vulnerabilities give you insight into third-party risk?

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

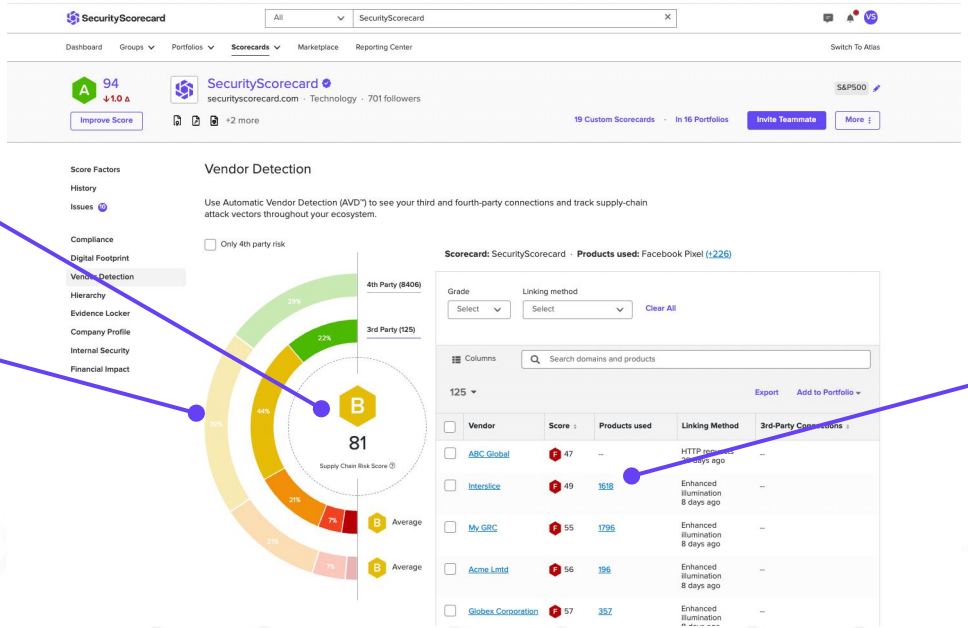
SecurityScorecard

You
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties
Fourth Parties

Identify: Take Control of Your Digital Supply Chain

Mitigate risk and understand potential threats from outside of your organization

- Calculate a Supply Chain Risk Score
- Auto-detect your 3rd, 4th, “nth” party ecosystem
- Get unparalleled visibility into 4th party and concentration risk

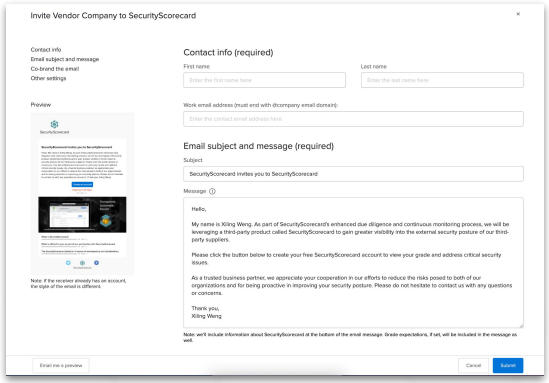


- Reduce 0-day response scope
- Identify specific products-in-use by vendors

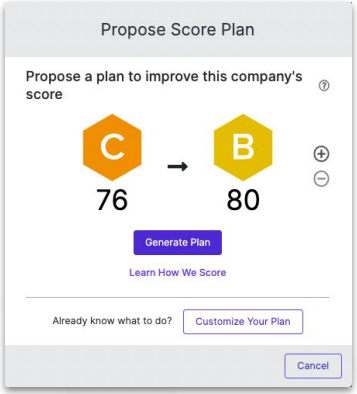
SecurityScorecard

Collaborate: Communicate Securely with Vendors

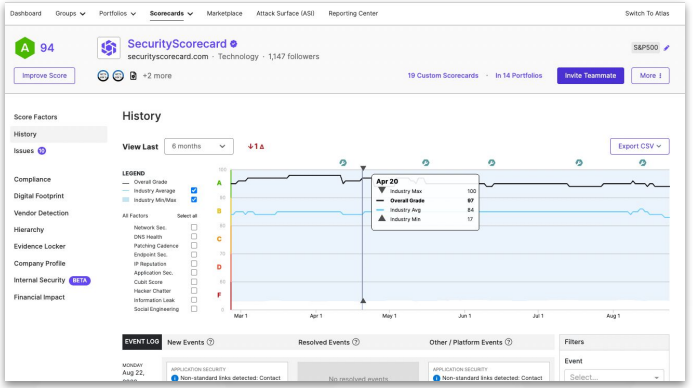
Invite Vendors to Access their Free Score



Create a Path to Remediation



Reduce Risk Together



SecurityScorecard

Audience tip!

Wade Baker

PARTNER & CO-FOUNDER
CYENTIA INSTITUTE

Gregory Petropoulos

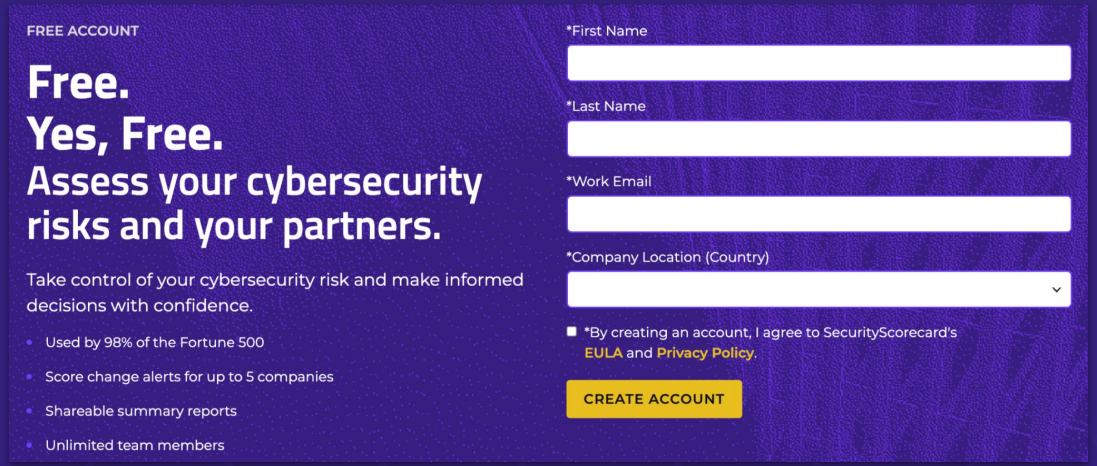
DIRECTOR OF DATA SCIENCE
SECURITYSCORECARD

SecurityScorecard

Audience Q&A

Claim your Scorecard to prioritize vulnerability remediation.

www.securityscorecard.com/free-account



SecurityScorecard

Thank you!

SecurityScorecard