



OEM: Weekly SITREP

October 26, 2021

USA & WORLD

- US system for [death investigations](#) is a detriment to public health.
- Eye-scanning [Cryptocurrency](#) launches with \$1 Billion valuation.
- NY district attorney's "[No Fly List](#)," a secret roster of LE officers.
- [House](#) passes [bills](#) on both supply chain, telecom security.
- 36 years of [weather data](#) assesses US solar and wind power needs.
- FTC [study](#) shows how ISP's fail to protect sensitive information.
- Utah protesters claim hospitals are [killing](#) people who have COVID.
- [Coding bootcamps](#) as an alternative to college.
- How school systems are/aren't [adapting to COVID](#).
- [Study](#): evidence for inheritance of trained immunity in mammals.
- Why are U.K. Covid cases [so high](#) compared to the rest of Europe?
- Why weren't COVID boosters [tweaked](#) to better match variants?
- States with colder weather [see an increase](#) in Covid cases.
- China [denies](#) testing nuclear-capable hypersonic missile.
- U.S. policy needs to [adjust](#) to deal with assertive China over Taiwan.
- Digital [spies](#) with a nexus to Chinese interests have successfully compromised parts of the global telecommunications network.
- Facebook plans to hire 10,000 in Europe to build '[metaverse](#).'
- Reporter [exposes flaws](#) on state website that made teachers PII "vulnerable to public exposure" - Gov. vows to [prosecute](#) newspaper.

Student [survey](#): Depression, stress and anxiety leading barriers to learning as access to trusted adults drops.

Key Findings

FINDING ONE page 5

Sixty-one percent of students said they learn a lot every day – up from 39 percent in the spring and on par with pre-pandemic levels – but experiences differ across student groups.

FINDING TWO page 9

Feeling depressed, stressed, or anxious has risen to the number one obstacle to learning. Hispanic or Latinx, multiracial, and Black or African American students faced more obstacles on average than did white or Asian students.

FINDING THREE page 13

Sense of belonging recovered from spring 2020, and students experienced increased academic support from their teachers.

FINDING FOUR page 16

Males continued to rate their health and well-being more positively than did females and students who identify in another way. Overall, students reported less availability from adults in school to support their mental and emotional health, but more programs and services.

FINDING FIVE page 19

One in four high school seniors' postsecondary plans have changed since the start of the pandemic.

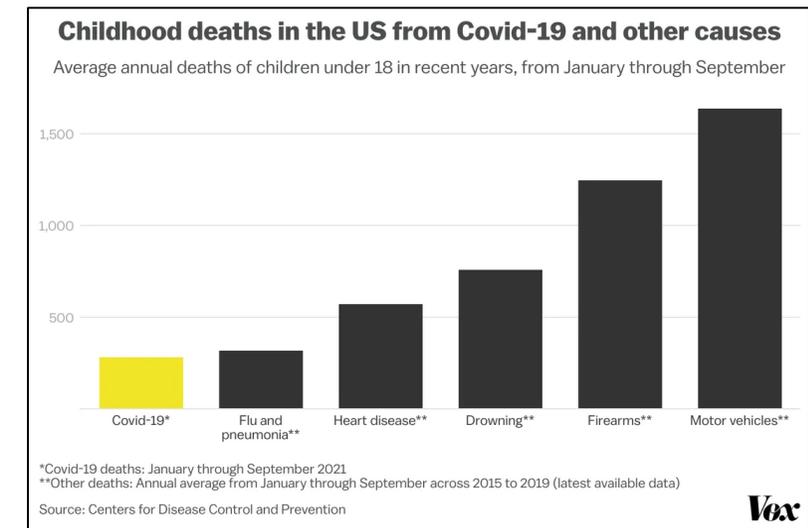
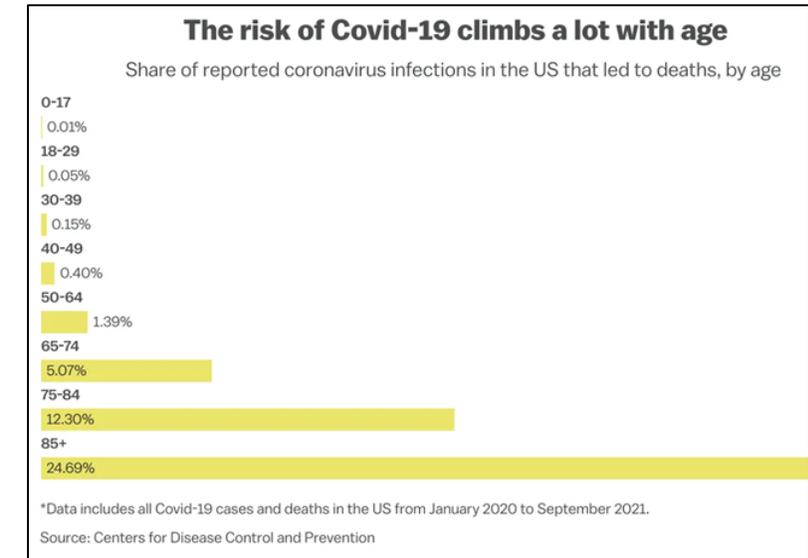
DEPRESSION, STRESS, AND ANXIETY HAS INCREASED AS AVAILABILITY OF ADULTS TO TALK TO WHEN FEELING STRESSED HAS DECREASED



CALIFORNIA

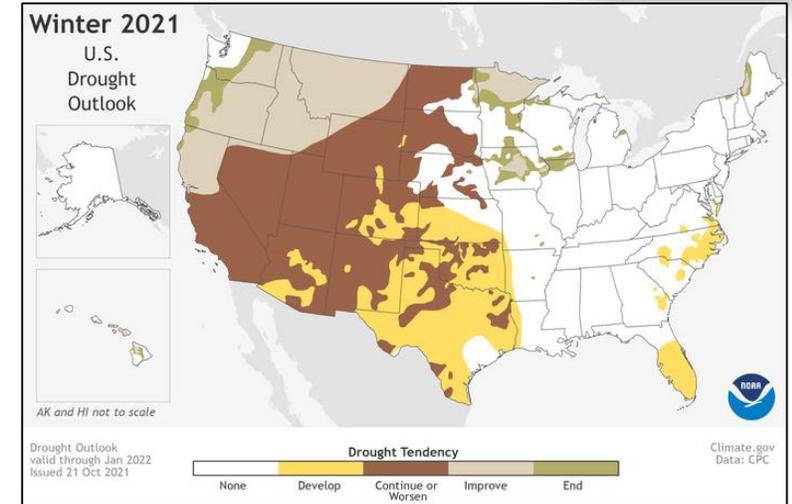
- What to expect as “[bomb cyclone](#)” continues through California.
- [Cal-Secure](#): A look at the states’ new cybersecurity roadmap.
- Proposed public health [protections](#) governing oil and gas drilling.
- USGS [report](#): how a major earthquake could disrupt services.
- PG&E’s controversial [wildfire mitigation plan](#).
- How a [1963 Supreme Court case](#) can be used in police reform.
- UC creates [recommendations](#) for responsible use of A.I.
- [Atmospheric river storms](#), the largest in 9 months, soak NorCal.
- Newsom signs [Executive Order](#) to tackle supply chain issues.
- President of San Jose State [resigns](#) in fallout over sexual abuse.
- School outbreaks [atypical](#) – why the [vaccination requirements?](#)
- Searchable [database](#) of the highest paid CA employees.
- 13 new California [laws](#) that could change your life.
- Legislature repeals [non-disclosures clauses](#).
- State leaders increase support for [dual enrollment](#).
- CDC: CA only state to [improve](#) level of COVID transmission.
- Contrasting [economic policy](#) in California and Texas.
- Institutions should address [affordable housing](#) needs.
- Post-pandemic California: [Comeback or decline?](#)
- Housing [supply levels off](#) as market heads into off season.

“The death rate for Americans under 18 who are infected [with COVID] is about 0.01%. People 50 and up make up 94% of COVID-19 deaths.”



REGION

- West Coast storm hits [SoCal](#). Here's when to expect rain.
- State declares [drought emergency](#) for SoCal.
- California Air Resources Board (CARB) opens [HQ](#) near UCR.
- Riverside Unified teacher placed on leave for ['offensive'](#) lesson.
- COVID cases among students, faculty force [closure](#) of LA school.
- Employee [COVID-19 testing center](#) opens on campus.
- VP of [Sustainability](#) pushes UC to provide resources for Latinos.
- UCR part of [\\$12M grant](#) for atmospheric measurement network.
- Training: [Introduction to ArcGIS Online](#) (9 November from 2– 3 PM).
- UCSB Cyber Security Awareness Month: [Social Engineering](#).
- UCR Center for Invasive Species Research spotlights ['stink bugs.'](#)
- Lawsuit [alleges](#) abuse by UCSD coach led to student's suicide.
- UCSD's COVID-19 Protocols: Thorough planning, [poor execution](#).
- [Protest](#) against COVID vaccine mandate led in IE.
- San Diego area students skip school to [protest](#) vaccine mandate.
- Vaccine alters [SoCal's](#) Covid path: rural areas suffer.
- 2028 Olympics: Los Angeles cleared for [major airport expansion](#).



The U.S. Drought Monitor (USDM) is updated each Thursday to show the location and intensity of drought across the country using a five-category system, from Abnormally Dry (D0) conditions to Exceptional Drought (D4). The USDM is a joint effort of the National Drought Mitigation Center, USDA, and NOAA. [Learn more.](#)



[RivCo EOC](#) is currently activated to Level 3 (virtual) in support of the ongoing COVID-19 response.

COMMUNICATIONS

- **25 October:**
 - **Provost's Office Hours - Fall Series**
- **22 October:**
 - **Passing of Robert Anderson**
- **21 October:**
 - **UCOP COVID-19 Digest**
- **20 October:**
 - **Update on Winter quarter instruction at UCR**
- **19 October:**
 - **REMINDER: 5th Year Senior Leadership Review for Vice Chancellor and Dean Deborah Deas**
- **18 October:**
 - **UCR 2021-2022 Winter Holiday Closure**

Please Reference Notes Section For More Information

NOTABLE

- [CISA, FBI, and NSA Release BlackMatter Ransomware Advisory to Help Reduce Risk of Attack](#)
- [The new math of cybersecurity value](#)
- [Twitter Suspends Accounts Used to Snare Security Researchers](#)
- [Cyber Criminals Using Spoofed Unemployment Benefit Websites to Defraud US Public](#)
- ['A lot' of firms are developing offensive cyber techniques, hoping for investment](#)
- [A History of the Data-Tracked User](#)
- [Is Cybersecurity Insurance Out of Reach for Government?](#)
- [Netherlands can use intelligence or armed forces to respond to ransomware attacks](#)
- [Enterprise cybersecurity: Aligning third parties and supply chains](#)
- [Cyber resilience: Protecting America's digital infrastructure](#)
- [Ransomware attacks against hospitals are having some very grim consequences](#)
- [Ransomware is leading hospital boards to pour more money into cybersecurity](#)
- [The Downside to State and Local Privacy Regulations](#)
- [Privacy Tips for Your Syllabus](#)
- [California Hospital Sued Over Data Breach](#)

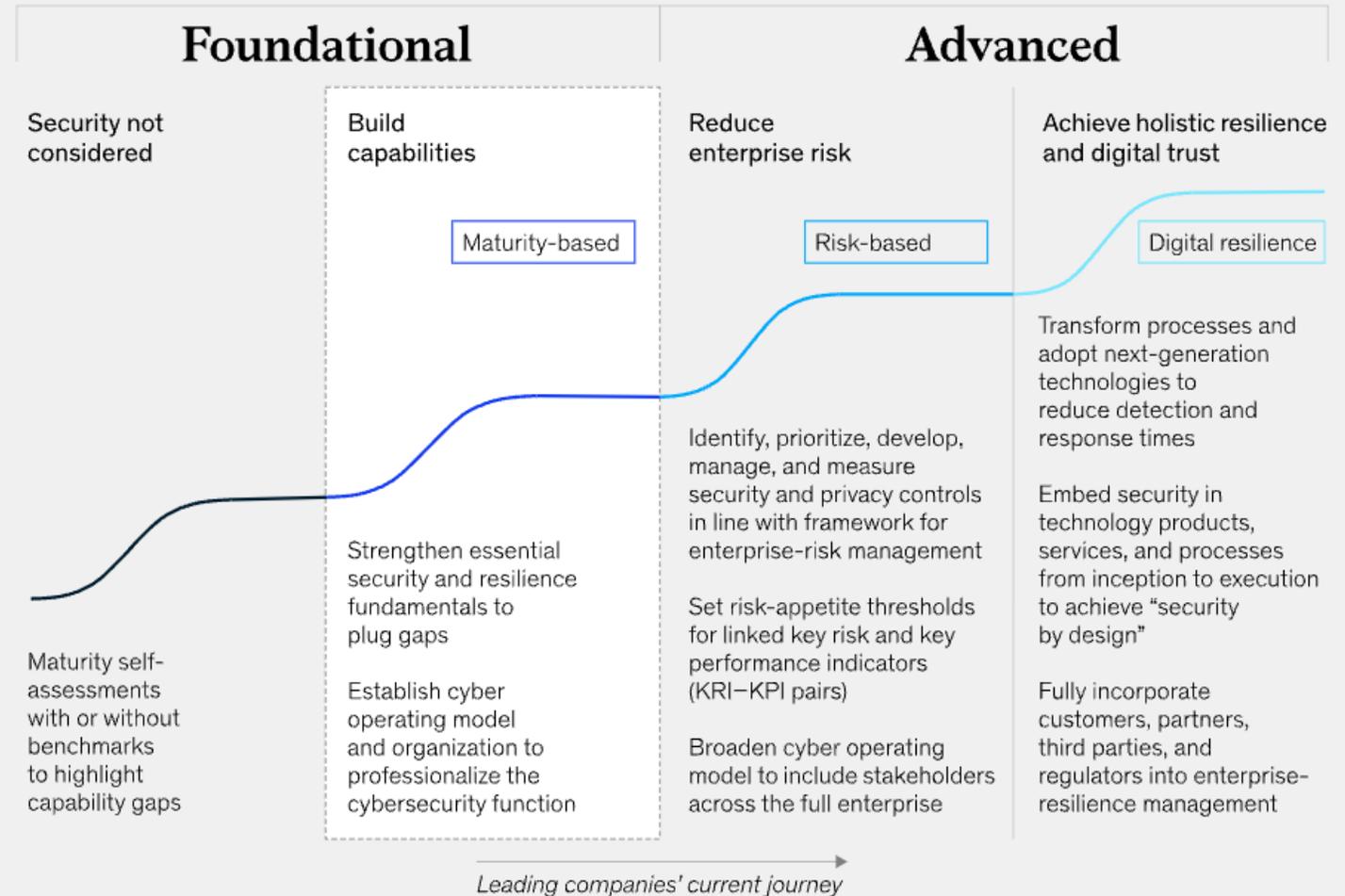
Risk-based cybersecurity

- Companies are moving to a risk-based cybersecurity stance.
- The approach recognizes that not all assets are created equal, nor can they be equally protected in today's all-encompassing digital environment.
- Some assets are extraordinary—of critical importance to a company and its business.
- If a company's customer interface is not secure, the risk can become existential.
- Safeguarding such assets is the heart of an effective strategy to protect against cyberthreats.

Companies are moving to a cybersecurity stance based on risk reduction and resilience but still need underlying capabilities.

Journey toward cyberresilience

☐ Most companies' current state



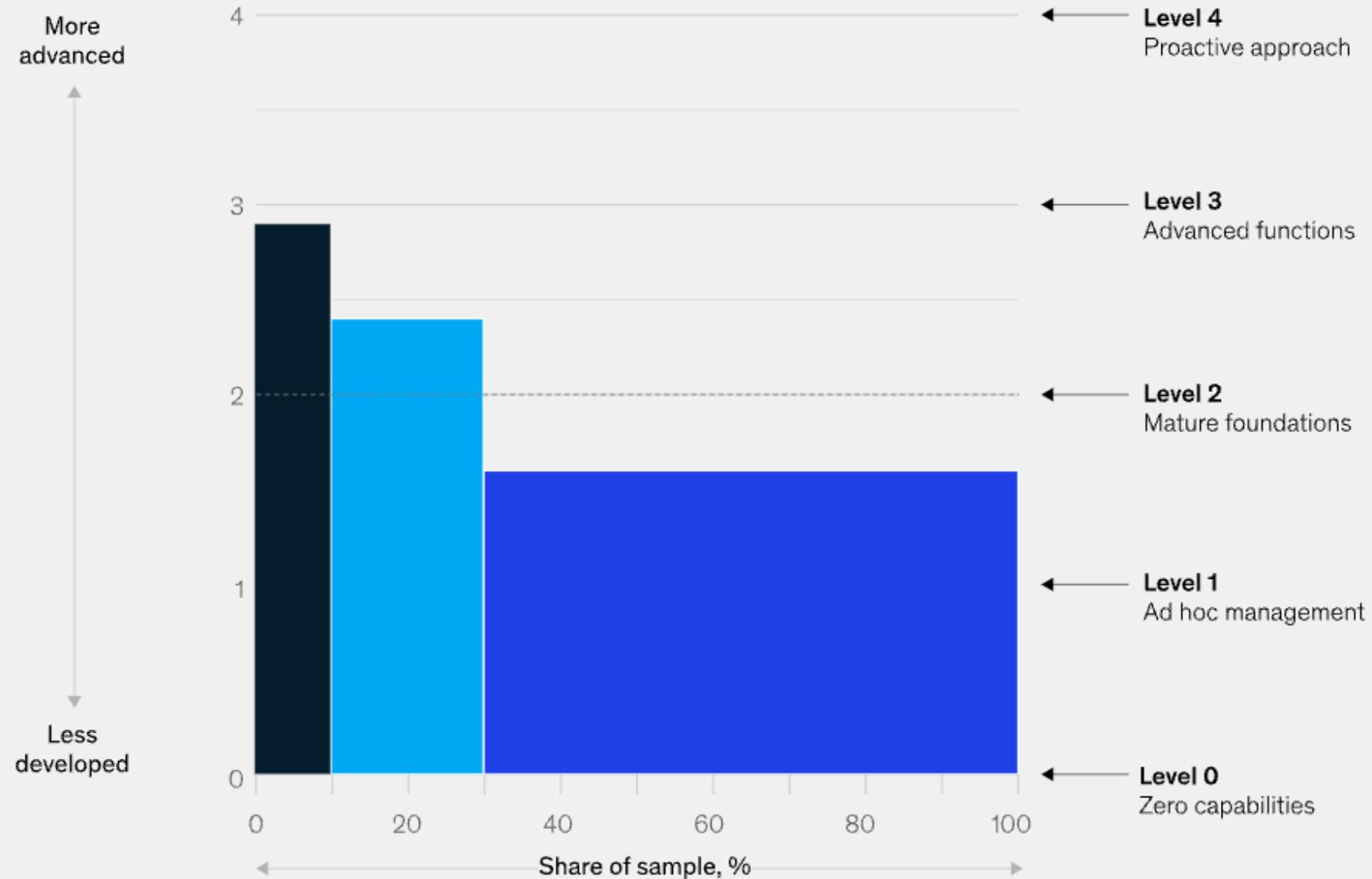
Risk-based cybersecurity

- Companies can only move to this advanced position if they already have in place the underlying capabilities needed to ensure digital stability and customer trust.
- Furthermore, as they develop and improve these capabilities, their guiding objective becomes the demonstrable and quantifiable reduction of enterprise risk.
- These capabilities can be grouped into seven action areas. 
- The [UC IS-12: IT Recovery policy](#) identifies risks and resources that should be recovered in the event of an unavoidable or unforeseen disaster, whether natural or human-made.

<p>1 Prioritize information assets and related risks</p> <ul style="list-style-type: none"> • Asset and risk prioritization • Risk appetite and thresholds • Strategy and road map 	<p>2 Enlist frontline personnel</p> <ul style="list-style-type: none"> • Awareness, training, and risk culture • Employee and contractor security • Talent recruitment and development 	<p>3 Integrate cyberresilience into enterprise-wide processes</p> <ul style="list-style-type: none"> • Product security • Vendor and other third-party management • Risk reporting and metrics • Organization structure/roles
<p>4 Develop integrated incident response</p> <ul style="list-style-type: none"> • Security-incident response, including simulations and realistic testing • Business-continuity planning and disaster-recovery IT resilience 	<p>5 Integrate security into technology environments</p> <ul style="list-style-type: none"> • Asset, configuration and patch management • Cloud security • Network security • Secure architecture • End point and mobile security • Messaging and email security • Physical security • Identity and access management • Infrastructure security 	<ul style="list-style-type: none"> • Secure application and systems development • Data security • IT-security management
<p>6 Provide layers of protection for most important assets</p> <ul style="list-style-type: none"> • Policies and standards • Assessment and diagnostics • Compliance and audit • Program and project management 		<p>7 Deploy active defenses</p> <ul style="list-style-type: none"> • Cyber intelligence and vulnerability awareness • Monitoring and analytics

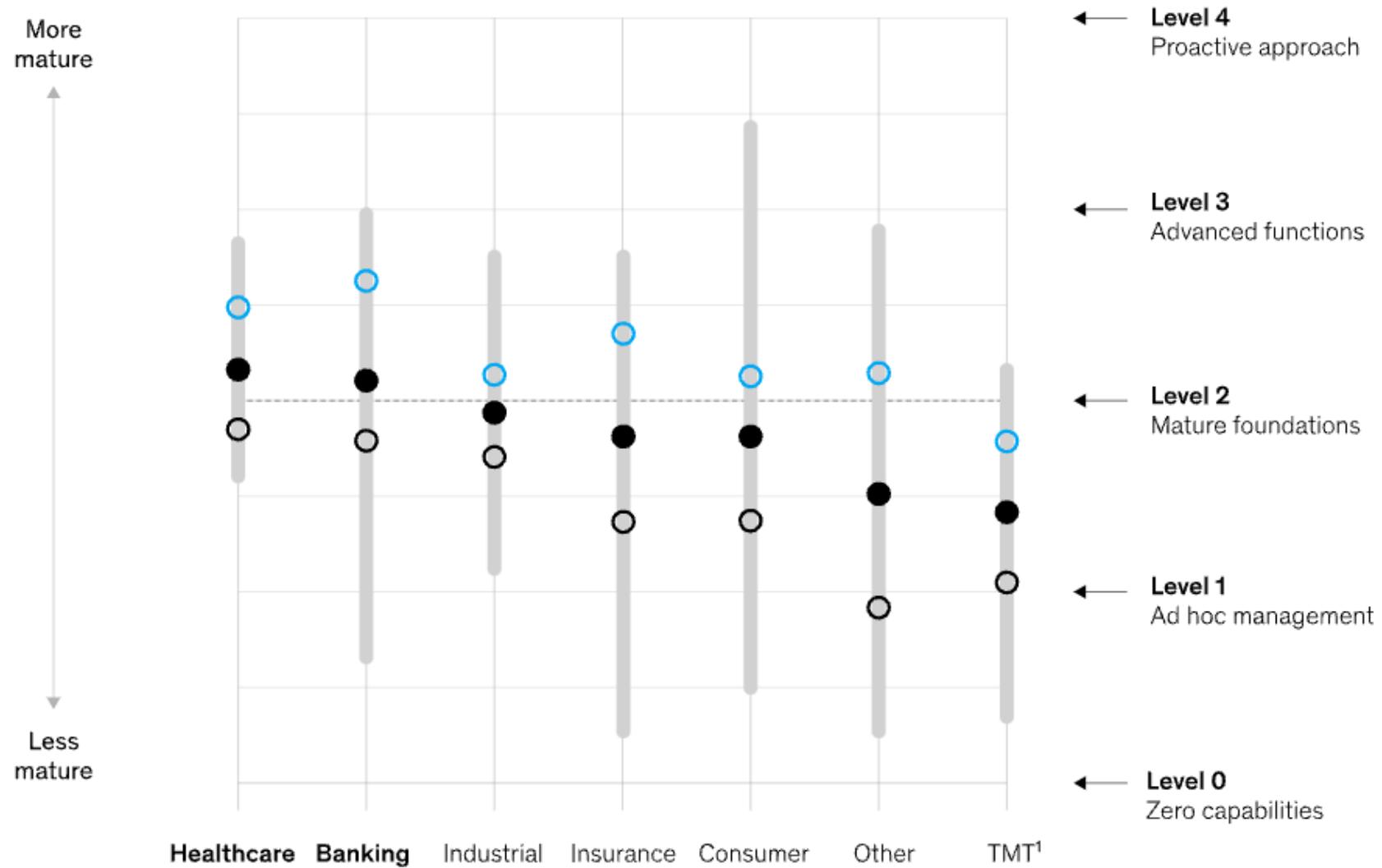
Most companies have yet to reach the advanced levels of cybersecurity management demanded by today's business environment.

Cybersecurity maturity level survey, score (0 = low, 4 = high) (n = 114)



Cybersecurity maturity varies within sectors more than it varies from sector to sector.

Cybersecurity maturity level, industry sector breakdown, score (0 = low, 4 = high) (n = 114)

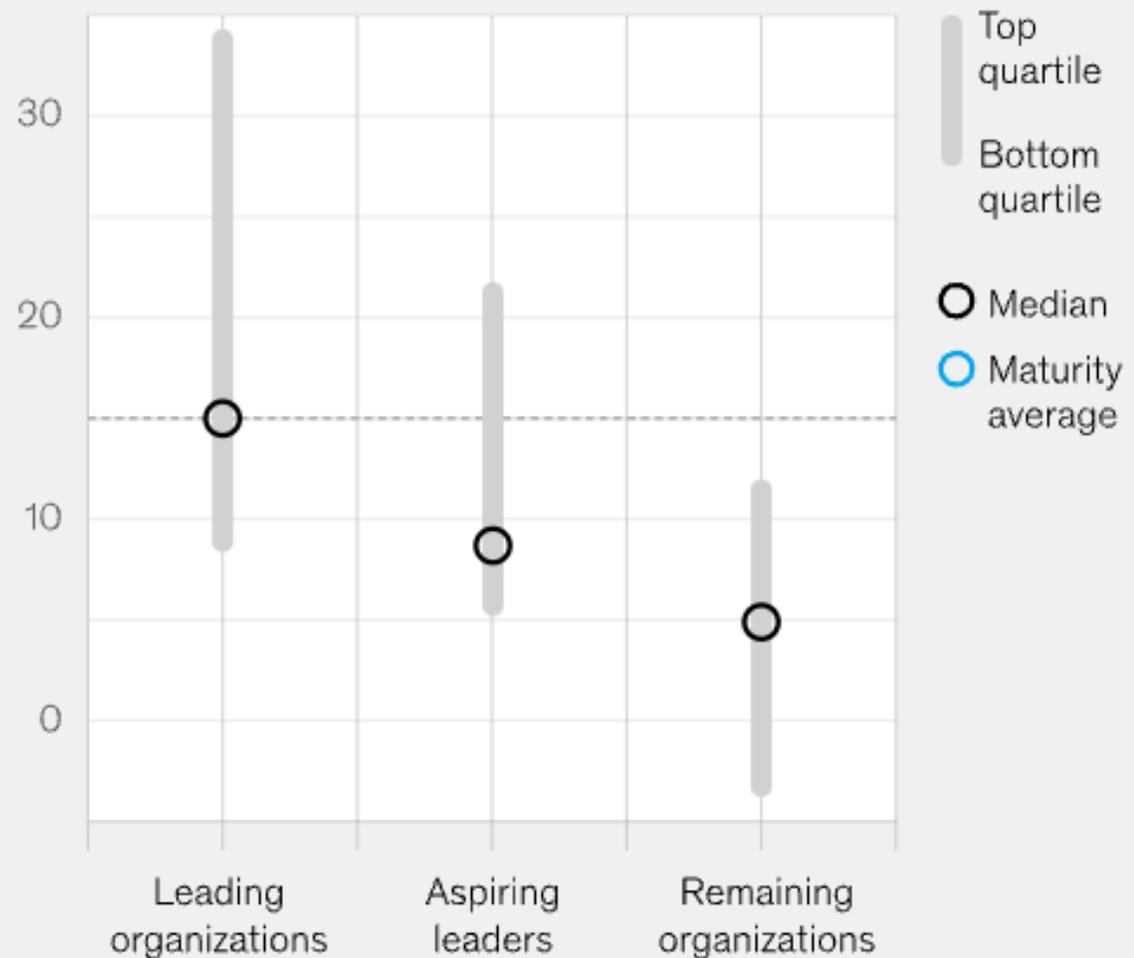


More profitable companies build stronger cybersecurity capabilities.

Level of cybersecurity maturity,
(0 = low, 4 = high) (n = 114)

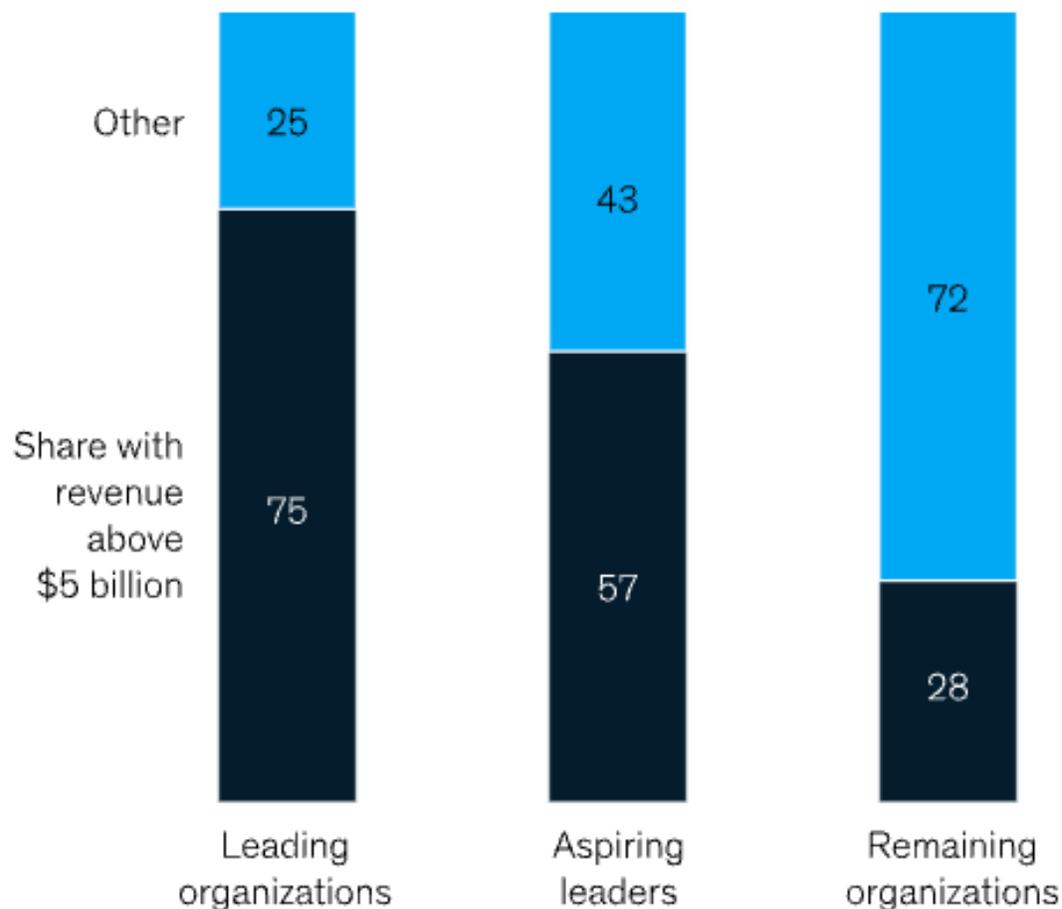


Profitability in last fiscal year,
% average net margin



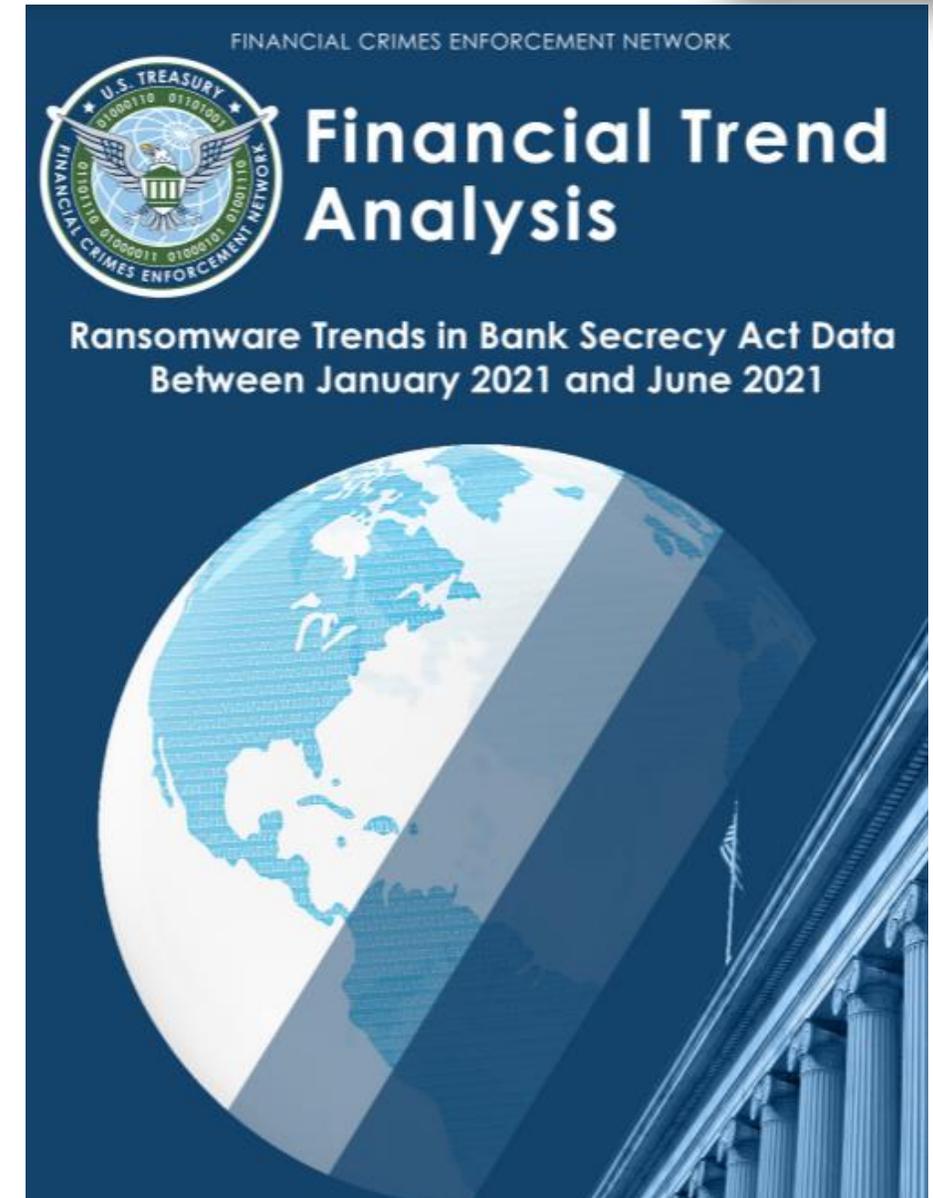
Leading organizations—those with the highest average level of cybersecurity maturity—are mostly larger companies.

Ownership structure among surveyed organizations, by cybersecurity groupings, %



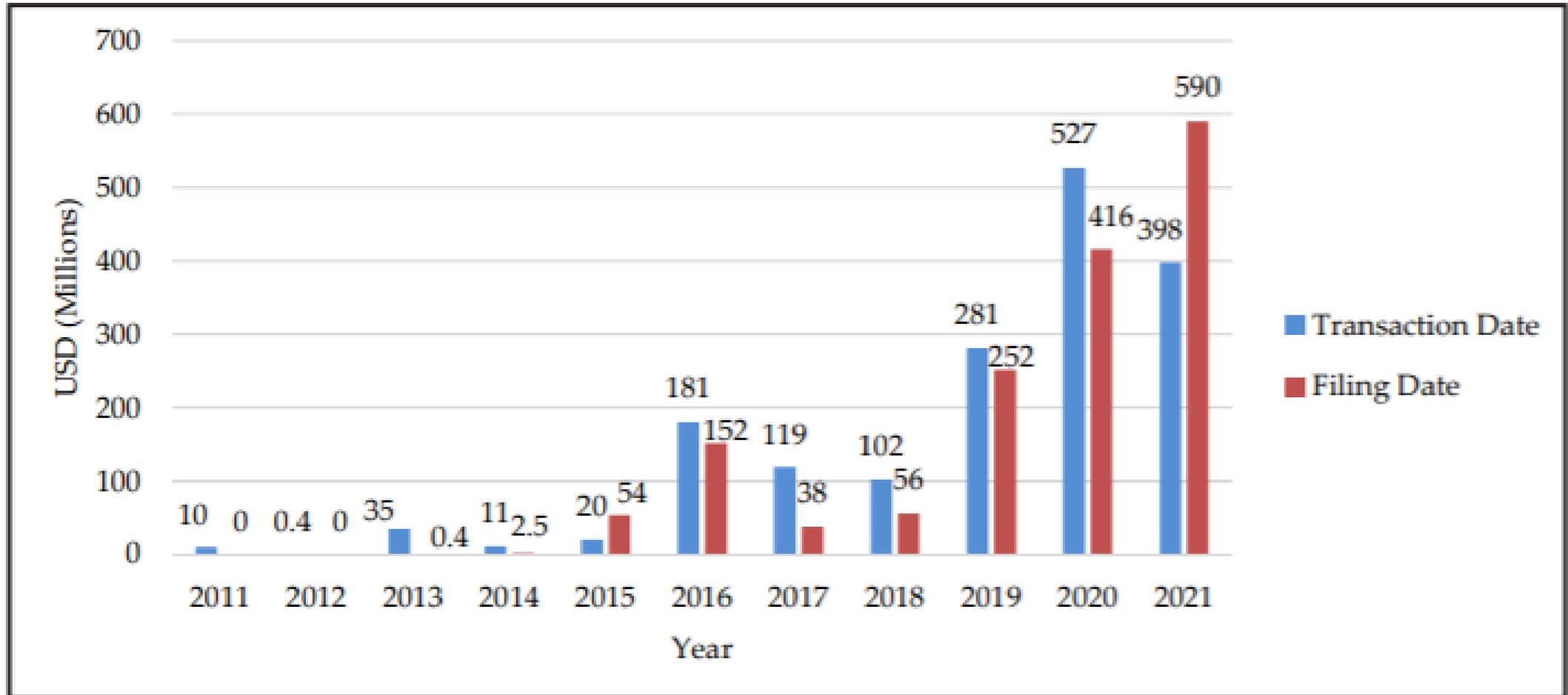
Treasury Department Report

- The Treasury Department's Financial Crimes Enforcement Network (FinCEN) has published the 'Financial Trend Analysis' in response to the increase in number and severity of ransomware attacks against U.S. critical infrastructure since late 2020.
- In May 2021, hackers used a ransomware attack to extort a multi-million dollar ransom, which also disrupted the Colonial Pipeline and caused gasoline shortages.
- Other recent attacks have targeted various sectors, including manufacturing, legal, insurance, health care, energy, education, and the food supply chain in the United States and across the globe.
- "Ransomware and cyber-attacks are victimizing businesses large and small across America and are a direct threat to our economy." Treasury Secretary Janet L. Yellen



Treasury Department Report

- **Total Suspicious Amount from Ransomware-Related Suspicious Activity Reports (SARs) and Transactions, 2011 to June 2021**



Treasury Department Report

- The median average payment amount for ransomware-related transactions was \$102,273.

Figure 5. Ransomware-Related Payments by Value, January 2021 to June 2021

