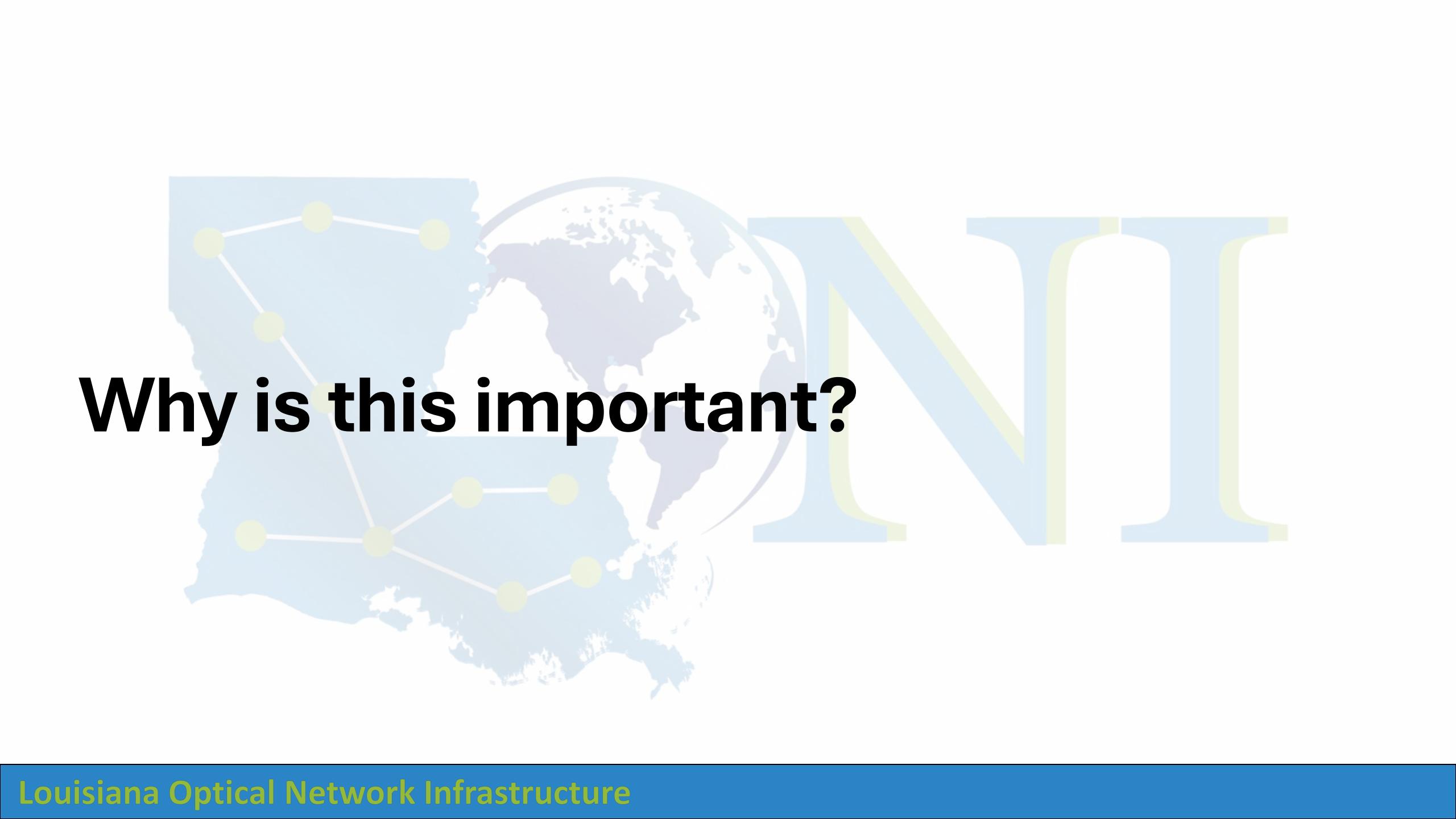




**Lance Neal, Executive Director, LONI  
Craig Woolley, CIO, LSU**



# Why is this important?

# Cyber Security Attack Headlines

## Louisiana colleges restoring systems after state police find 'indicators of compromise'

By Jonathan Greig | The Record from Recorded Future News  
March 27th, 2023

Apparent cyberattacks hit 7 Louisiana colleges in 4 months: 'I'm hoping it's a wake up call.'

University of New Orleans among schools most recently reporting computer system disruptions

By MARIE FAZIO | Staff writer and LARA NICHOLSON | Staff writer Mar 27, 2023

## Michigan community colleges recovering from cyber attacks

By  Capital News Service | March 21, 2025

## An Apparent Mass Hack at Penn Exposes Higher Ed's Security Weaknesses

By Ellie Davis | November 4, 2025

Cyber attack causes college to cancel classes

January 21, 2024 / Gabriel Lucich / 2 Comments

## 180 ransomware attacks plague education sector worldwide in 2025 through Q3

Published Oct. 30, 2025

August 12, 2025

## Hack at Columbia Hits 870K People

### Ransomware attacks in education jump 23% year over year

The first six months in 2025 saw 130 confirmed and unconfirmed ransomware attacks against colleges and schools, according to a report from Comparitech.

Published July 25, 2025

## *Anthropic Says Chinese Hackers Used Its A.I. in Online Attack*

The company claimed that A.I. did most of the hacking with limited human input and said it was a rapid escalation of the technology's use in cybercrime.

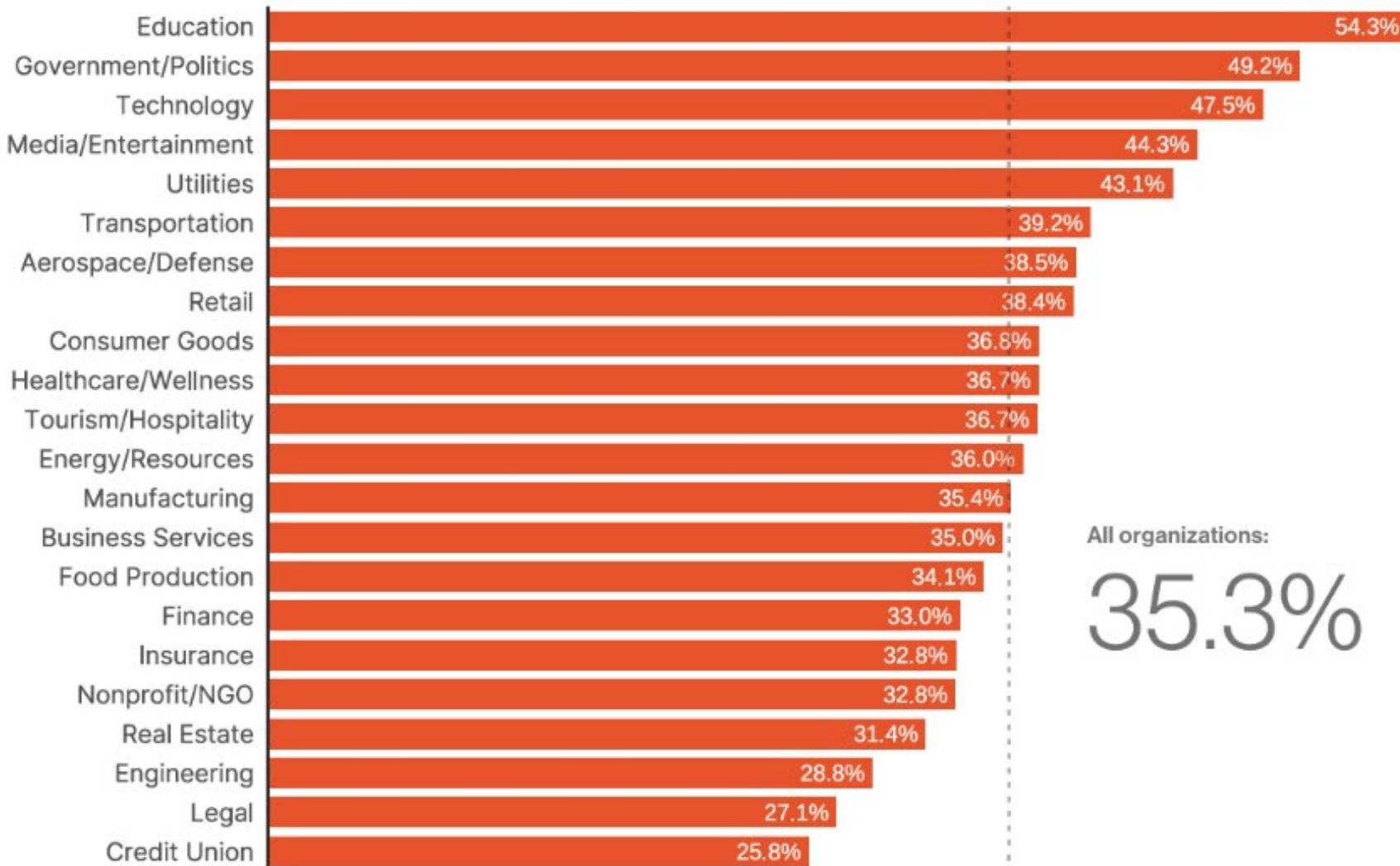


By Meaghan Tobin and Cade Metz

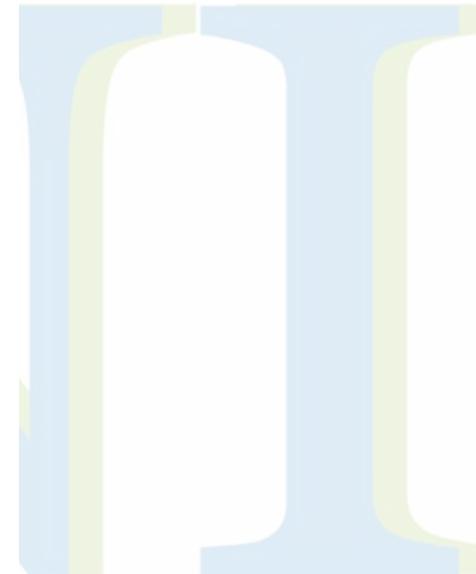
Meaghan Tobin reported from Taipei, Taiwan, and Cade Metz from San Francisco.

Nov. 14, 2025

# Observed Incidents of Known Exploited Vulnerabilities (KEVs)



All organizations:  
35.3%



Source: [bitsight.com](http://bitsight.com), research from 2003-2023

# For Educational Institutions...

## Top 10 cyber threats:

1. Ransomware
2. Phishing and Social Engineering
3. QR Code Exploits
4. Advanced Malware
5. Distributed Denial of Service (DDoS) Attacks
6. Insider Threats
7. Third-Party and Supply Chain Vulnerabilities
8. **Cyber Espionage Targeting Research**
9. Nation-State/APT Activity
10. **Unpatched Software** and Misconfigured Systems



## Strategic recommendations:

- Enhance cybersecurity infrastructure: Upgrade legacy systems and deploy modern security platforms that block malicious emails, files, and links.
- Phishing awareness and training: Educate staff and students on recognizing phishing and QR code scams. Enforce multi-factor authentication (MFA) across accounts.
- Regular system updates: Patch all systems, especially those involving communication and collaboration tools.
- Monitor and respond: **Establish proactive threat monitoring** to detect and respond to anomalies. Monitor domains for typosquatting or impersonation.
- **Collaboration and information sharing**: Partner with other institutions and threat intelligence providers to share best practices and threat data.

Source: [bitsight.com](http://bitsight.com)

# WHAT IS A SIEM? (SECURITY INFORMATION AND EVENT MANAGEMENT)

- A SIEM is software that watches over all the activity happening across an organization's computers, networks, and systems
- It gathers information from computers, networks, and applications
- It spots unusual or risky behavior.
  - The SIEM uses rules and smart analysis to look for patterns that could mean trouble
- It keeps records for investigation
  - If something does go wrong, the SIEM has a history of events—like a digital “black box”—to help figure out what happened and how to fix it.
- It helps respond quickly
  - When the SIEM finds something suspicious, it can send alerts to the right people so they can take action before problems get worse.

# WHAT IS A SOC? (SECURITY OPERATIONS CENTER)

- A SOC is staffed 24x7 and uses the SIEM and other tools to help detect cyber threats
- When something suspicious is found, the SOC team immediately investigates further and takes action as needed

# What a SOC CAN do!

- Provide 24x7 visibility into activity on your network/endpoints
  - Fill in gaps where campus resources may be lacking
- Share threat intelligence that it sees and receives
- Assist with implementing automation
- Provide information for you to make informed decisions

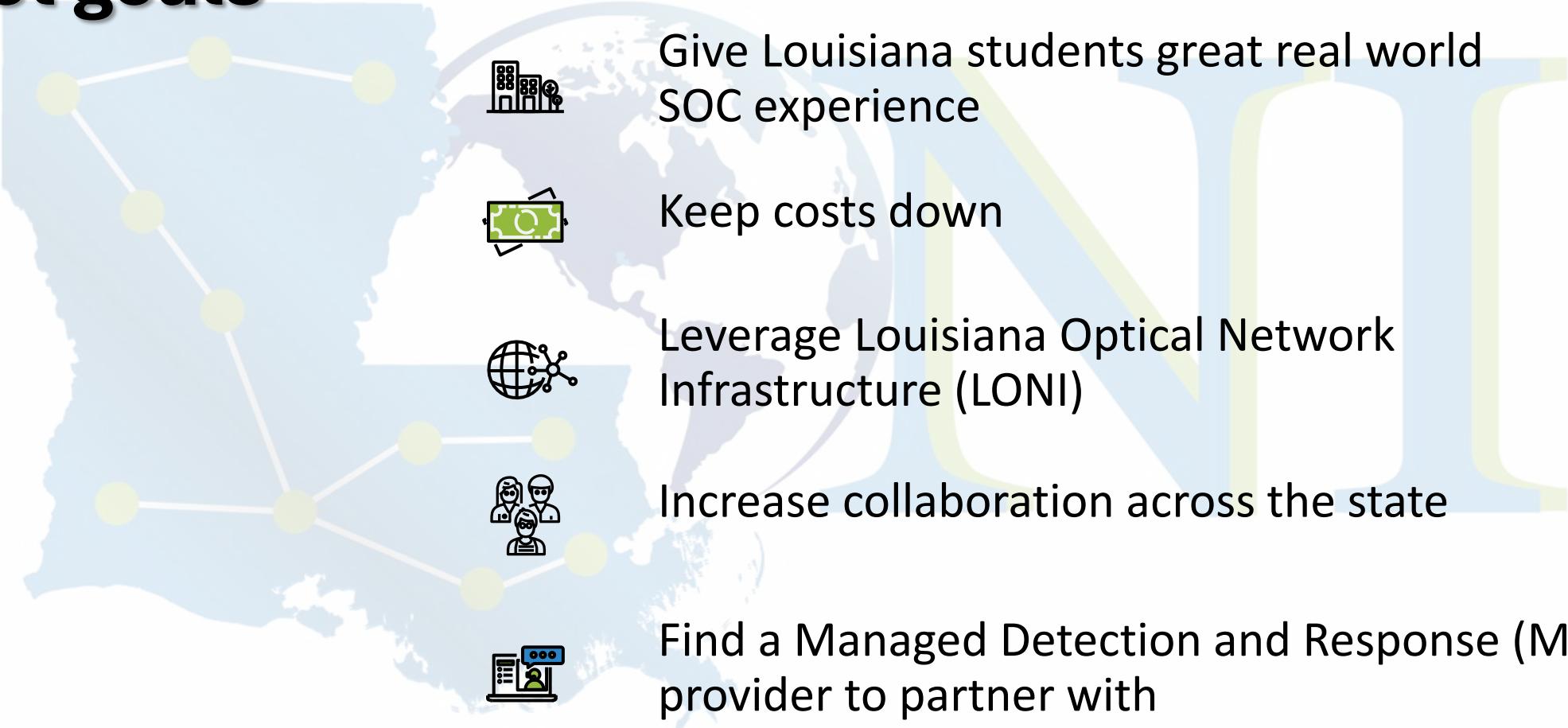
# What a SOC CAN'T do!

- Guarantee protection
- Fix/patch/update/replace outdated infrastructure on campuses
- Force data to be shared from your campuses
- Force information sharing when something happens

# About the SOC...



# SOC project goals



# LONI SOC



# TEKSTREAM

24x7  
**MDR**  
MANAGED DETECTION  
AND RESPONSE



**SOAR**

SECURITY ORCHESTRATION  
AUTOMATION AND RESPONSE

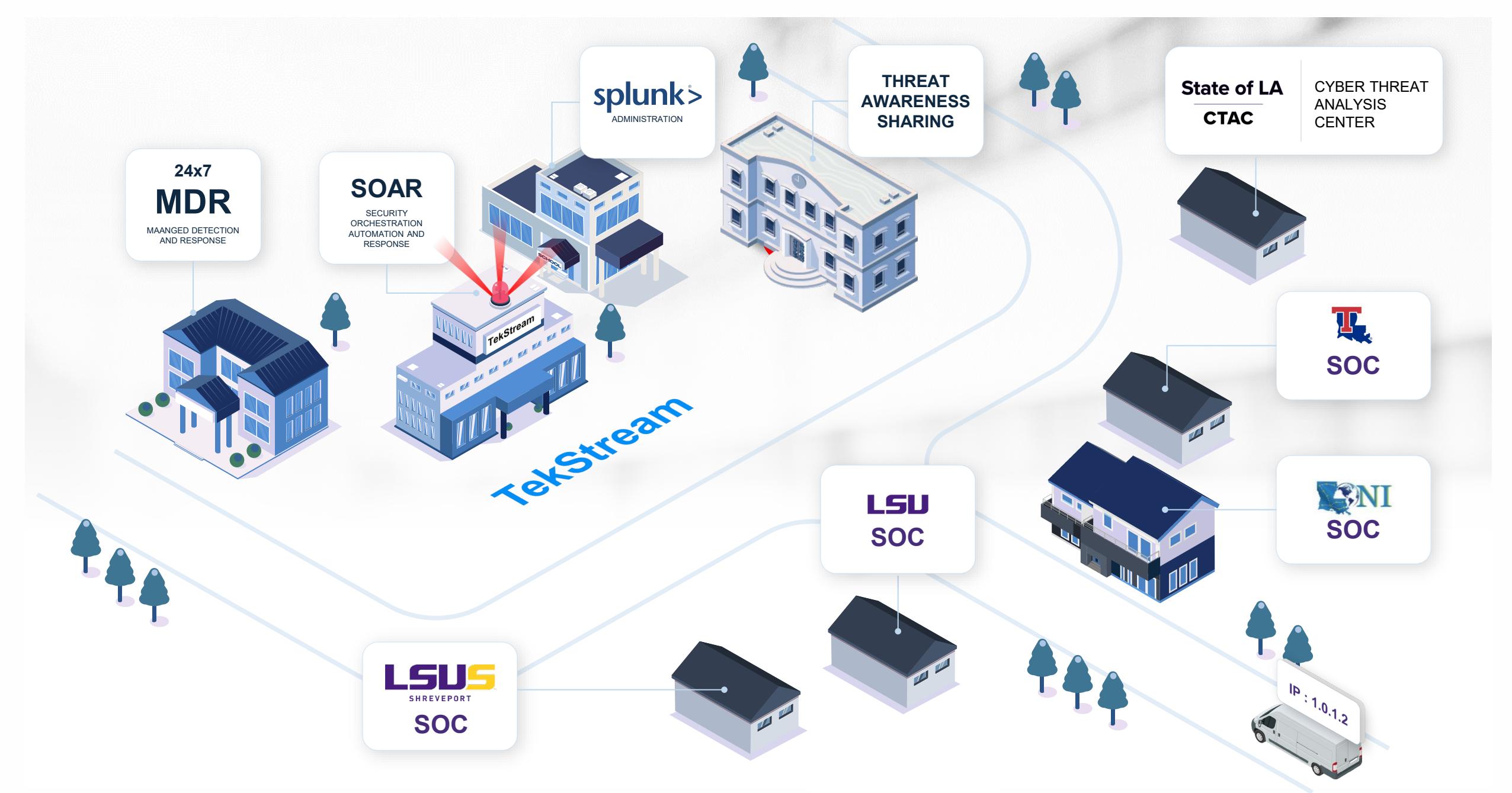
**splunk>**  
ADMINISTRATION



School 1  
School 2  
School 3



32 ENTITIES



# Training Process

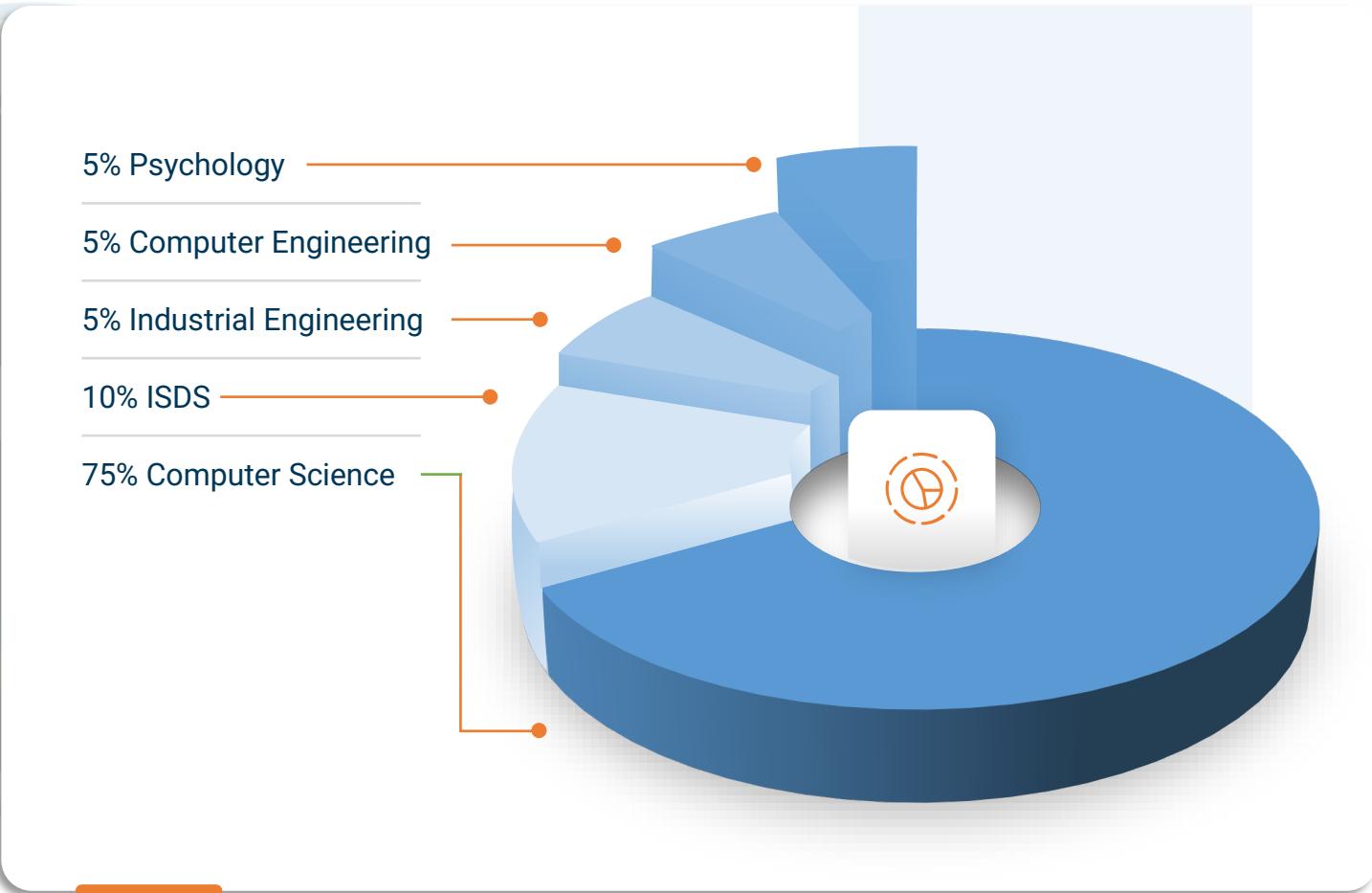
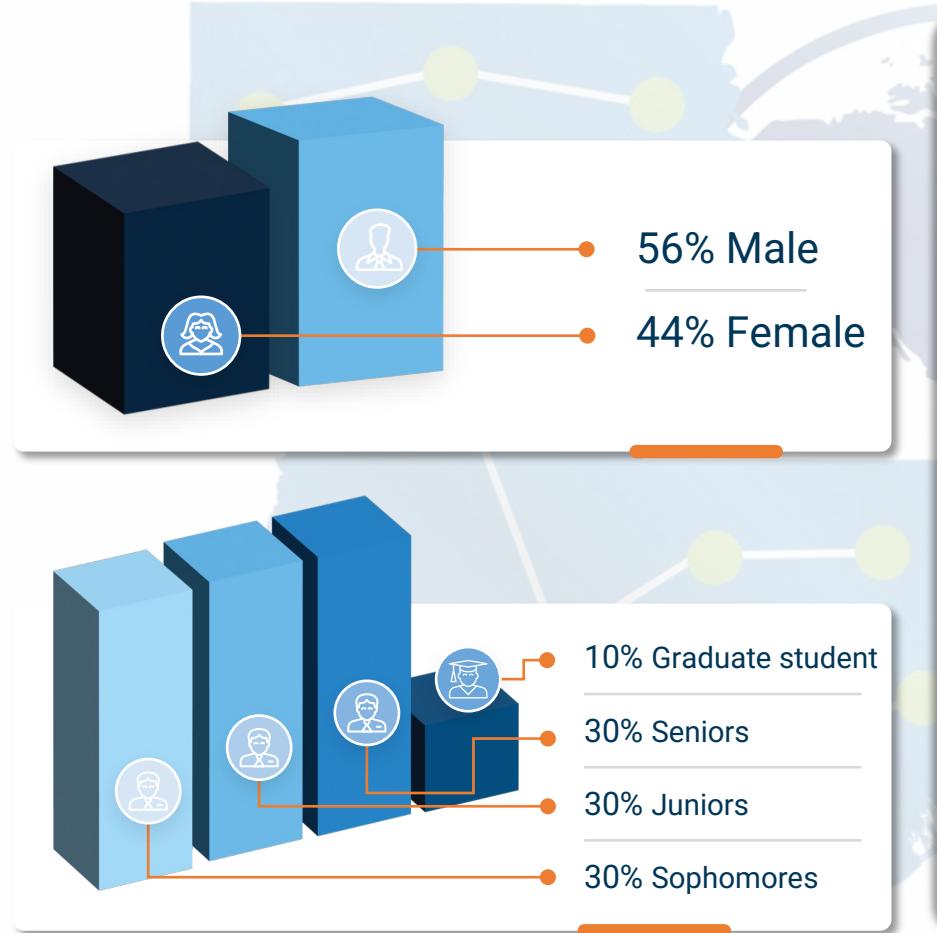


# Student Security Analyst

## Training/Onboarding Process



# STUDENT DEMOGRAPHICS



*All SOCs combined, as of end of Spring 2025*

# Associate Security Analyst Certification

- Tailored curriculum with defined competencies per level
- Analysts follow a curated and customizable progression system
- Timeline for advancement tailored to institution and candidate pool reality
- Advancement goal to Level 3 within 2 years of entering the program
- Assessments and practicum gate advancement between levels
- Higher-level students provide tiered SOC oversight for lower-level students



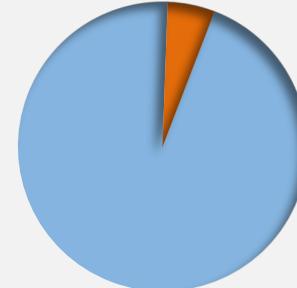


# Student Security Analyst Productivity Metrics

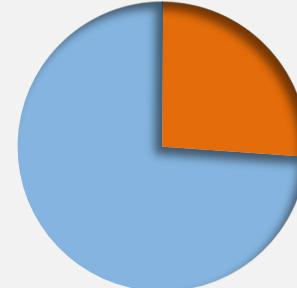
TekStream Analysts

Student Analysts

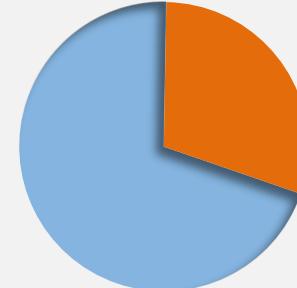
Q1 - 2024



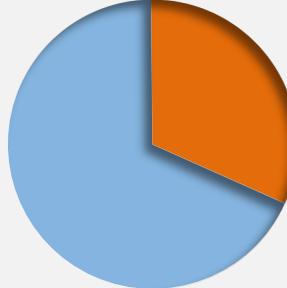
Q2 - 2024



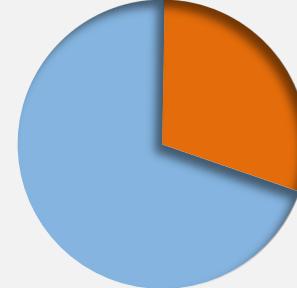
Q3- 2024



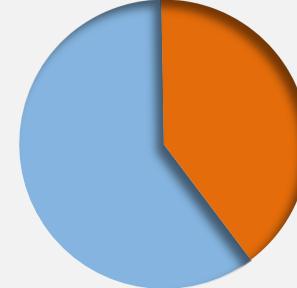
Q4- 2024



Q1- 2025



Q2- 2025





# Student Security Analyst Use Case Complexity Metrics

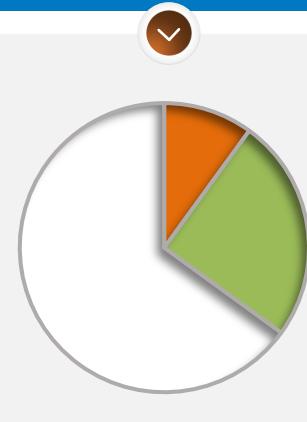
Level 1 Complexity

Level 2 Complexity

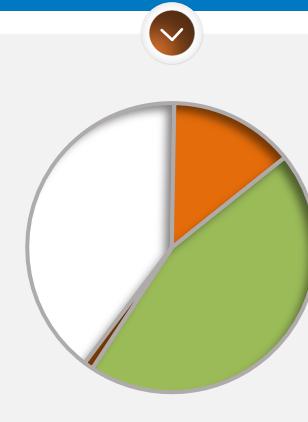
Level 3 Complexity



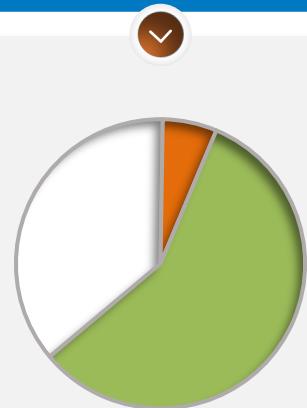
Q2 - 2024



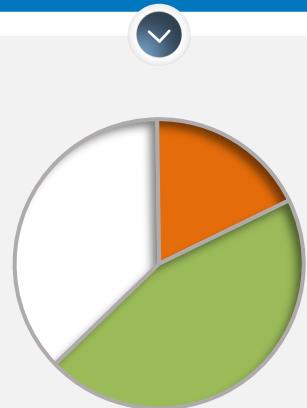
Q3- 2024



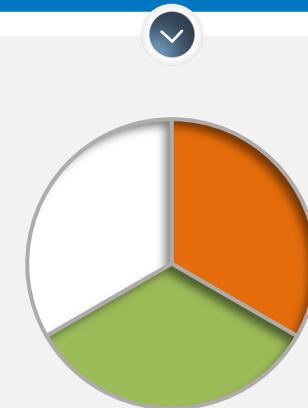
Q4- 2024



Q1- 2025

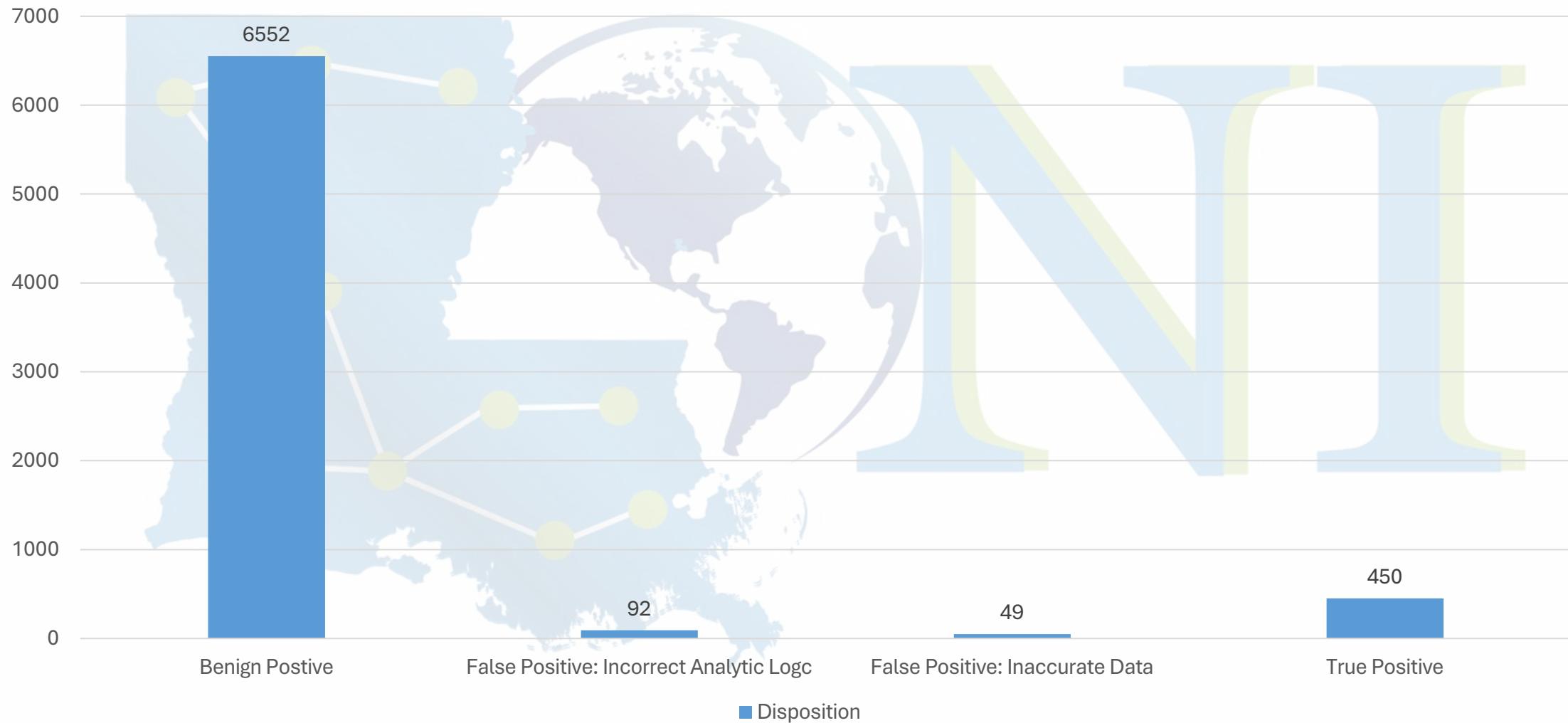


Q2- 2025

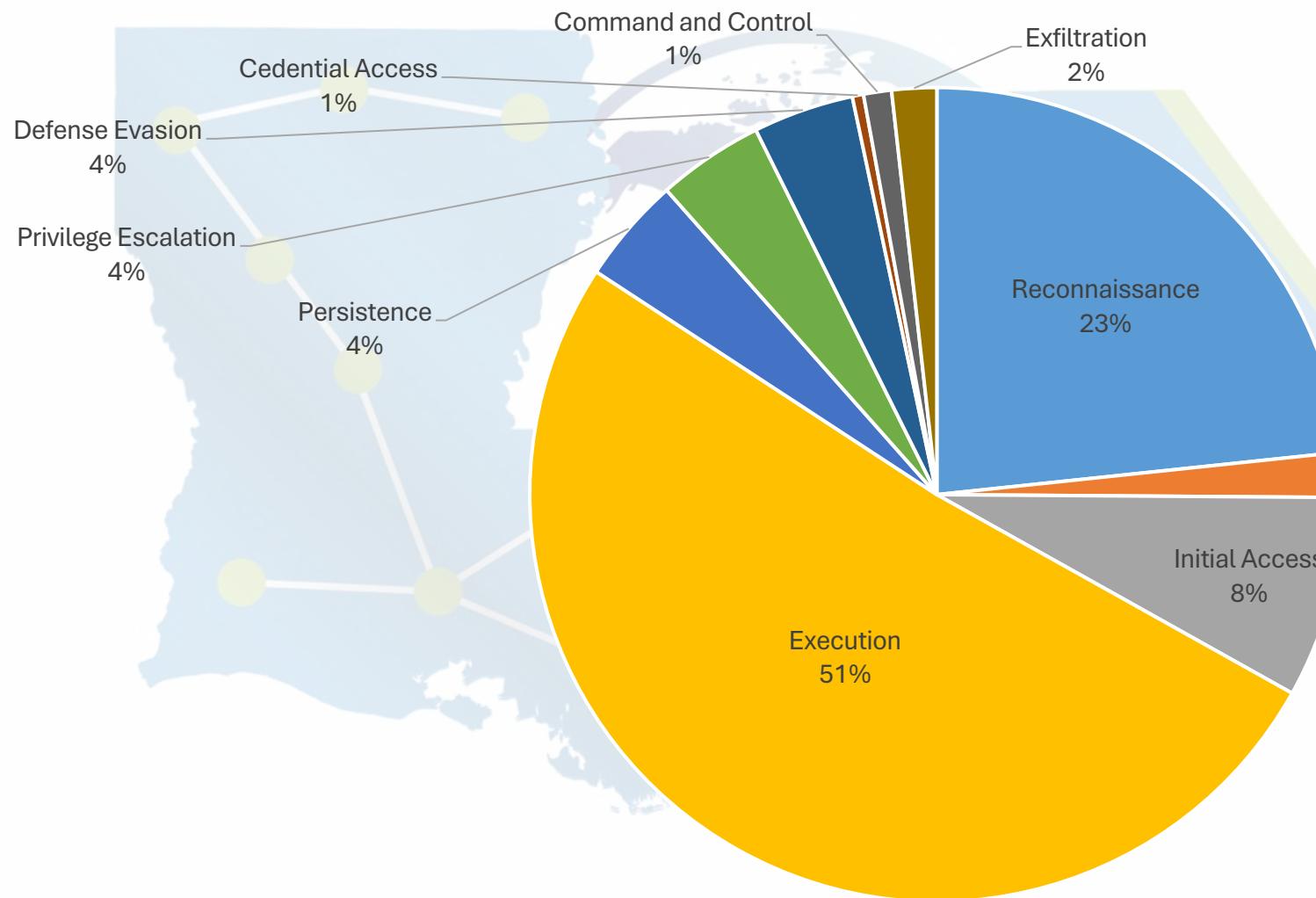


# LONI SOC Q3 Stats

Incidents Worked by SOC – 2025 Q3



# LONI SOC Q3 Stats



## MITRE ATT&CK Technique Breakdown of True Positives

# Outcomes



# Student Transcript

Includes:

- Activity metrics
- Use case summary
- Complexity
- MTTR
- Scoring



# Cybersecurity Career Consulting

## Mentoring, Guidance, Placement

- Specialized counseling and guidance from dedicated HR & recruiting professionals
- Completion path matched to student career progression goals
- Active placement in corporate, state and federal ecosystem
- Leverages student transcript and SOC experience
- High student placement rate with more in process
- Empower student analysts to both utilize and defend against AI use cases



LSU Student SOC Analyst

Read more: Cybersecurity Career Counseling



# Student Career Pathways & Placements

## Graduate Placements

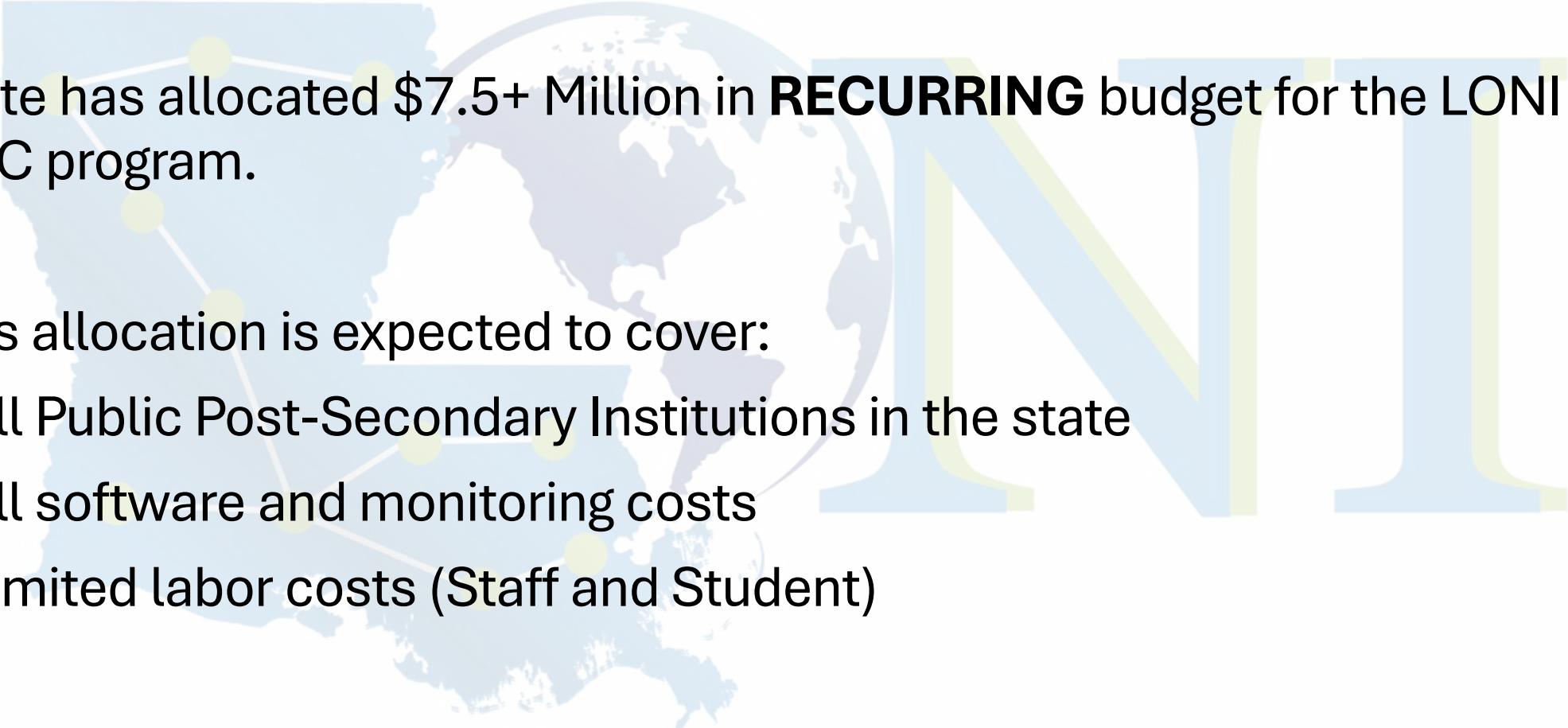
- Governor's Office of Homeland Security & Emergency Preparedness
- LSU Health Sciences Center
- Epic Systems
- TekStream
- Chevron
- Proprietary Development Firms



# Value-Added Benefit



# Budget Allocation



State has allocated \$7.5+ Million in **RECURRING** budget for the LONI SOC program.

This allocation is expected to cover:

- All Public Post-Secondary Institutions in the state
- All software and monitoring costs
- Limited labor costs (Staff and Student)

# Rural Health Care Program

- LONI has partnered with the University of Arkansas Medical System (UAMS) to encourage LONI member institutions to join the UAMS e-Link consortium.
- UAMS e-Link assists its qualified consortium members in applying to receive RHC funding for eligible services from LONI.
- If awarded, the member institution could receive a rebate up to 65% of their total eligible LONI costs.

# RHC Service Funding Example

## Comparing Total Benefit with & w/o SOC

| LONI Membership Fee                 | Small            | Medium           | Large            |
|-------------------------------------|------------------|------------------|------------------|
| Total LONI Services                 | \$60,000         | \$80,000         | \$100,000        |
| RHC/UAMS w/o SOC<br>(Reimbursement) | <b>\$39,000</b>  | <b>\$52,000</b>  | <b>\$65,000</b>  |
|                                     |                  |                  |                  |
| LONI SOC Fee (BOR Funding)*         | \$193,000        | \$232,000        | \$451,000        |
| Total LONI Services                 | \$253,000        | \$312,000        | \$551,000        |
| RHC/UAMS w/<br>SOC (Reimbursement)  | <b>\$164,450</b> | <b>\$202,800</b> | <b>\$358,150</b> |

\*BOR will transfer funds to each institution per their LONI invoice for their allocated costs. Member institution will pay LONI thereby enabling Rural Health Care eligibility.

# Contact Us

