

SAN DIEGO REGIONAL CYBER LAB



ISACA San Diego Chapter Meeting

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Presenters

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SAN DIEGO
REGIONAL
CYBER LAB



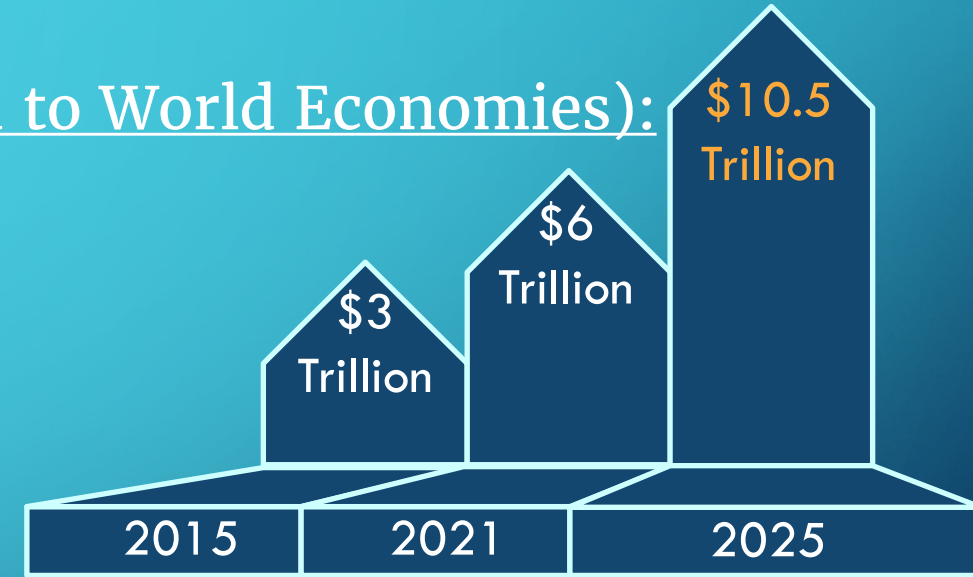
AGENDA

- Regional Needs / Survey Results
- Cyber Lab Mission & Vision
- Resources and Tools
- Local Collaborations
- New Opportunities
- Q & A

Cybersecurity in 2023

Global Cost of Cyber Crime (Compared to World Economies):

1. United States
2. China
3. **Cybercrime**
4. Japan
5. Germany



- The average cost of a data breach in 2020 was \$3.86 million. (*IBM security*)
- The average time to identify a breach in 2020 was 207 days. (*IBM security*)
- About 77% of organizations do not have an incident response plan. (*Cybint*)
- Remote workers have caused a security breach in 20% of organizations. (*Malwarebytes*)

Examples of Local Cyber Threats

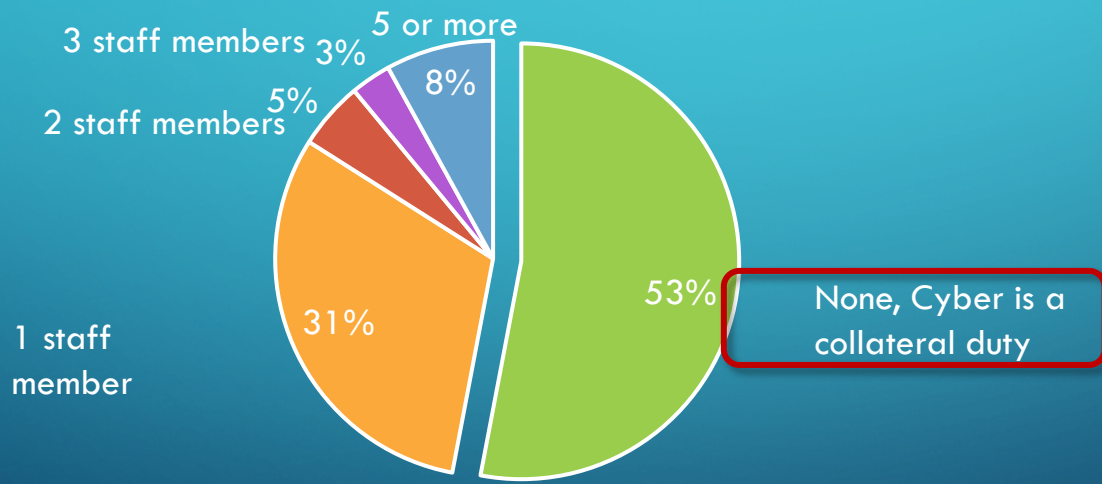
- San Diego Unified School District
- Scripps Health
- UC San Diego Health
- Port of San Diego
- Other: What events didn't make the news?



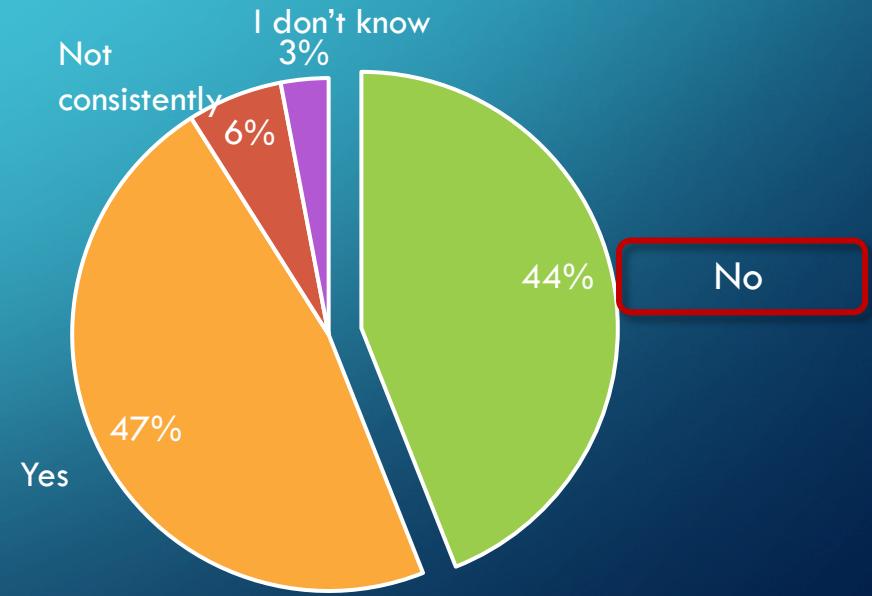
2020 Survey Results



How many employees are dedicated to cyber security?



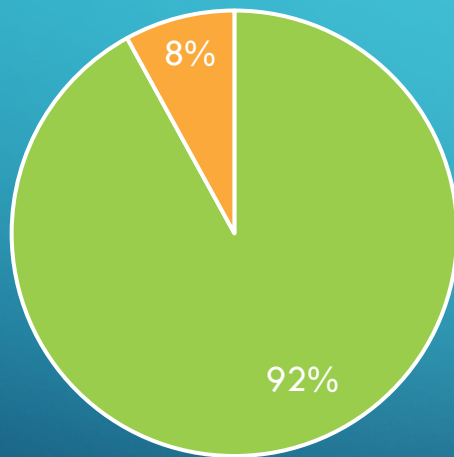
Does your agency conduct consistent cyber security training or exercises?



2020 Survey Results

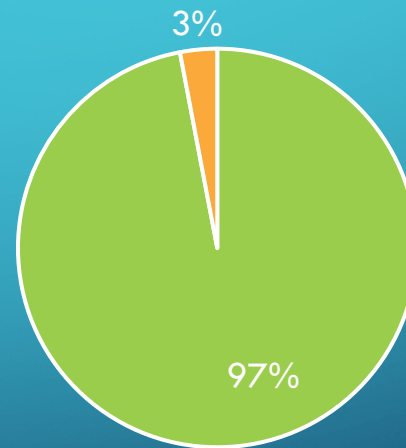


If the region had a cyber center with a free cyber range or tools, would you use it?



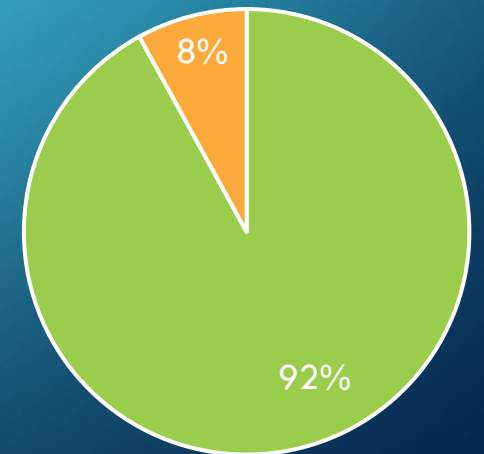
■ Yes ■ No

If free or low-cost technical cyber response training was available, would you/your staff attend?



■ Yes ■ Yes, not sure about other staff

Would you be interested in a secure library system for templates, best practices, after action reports, etc.?



■ Yes ■ No

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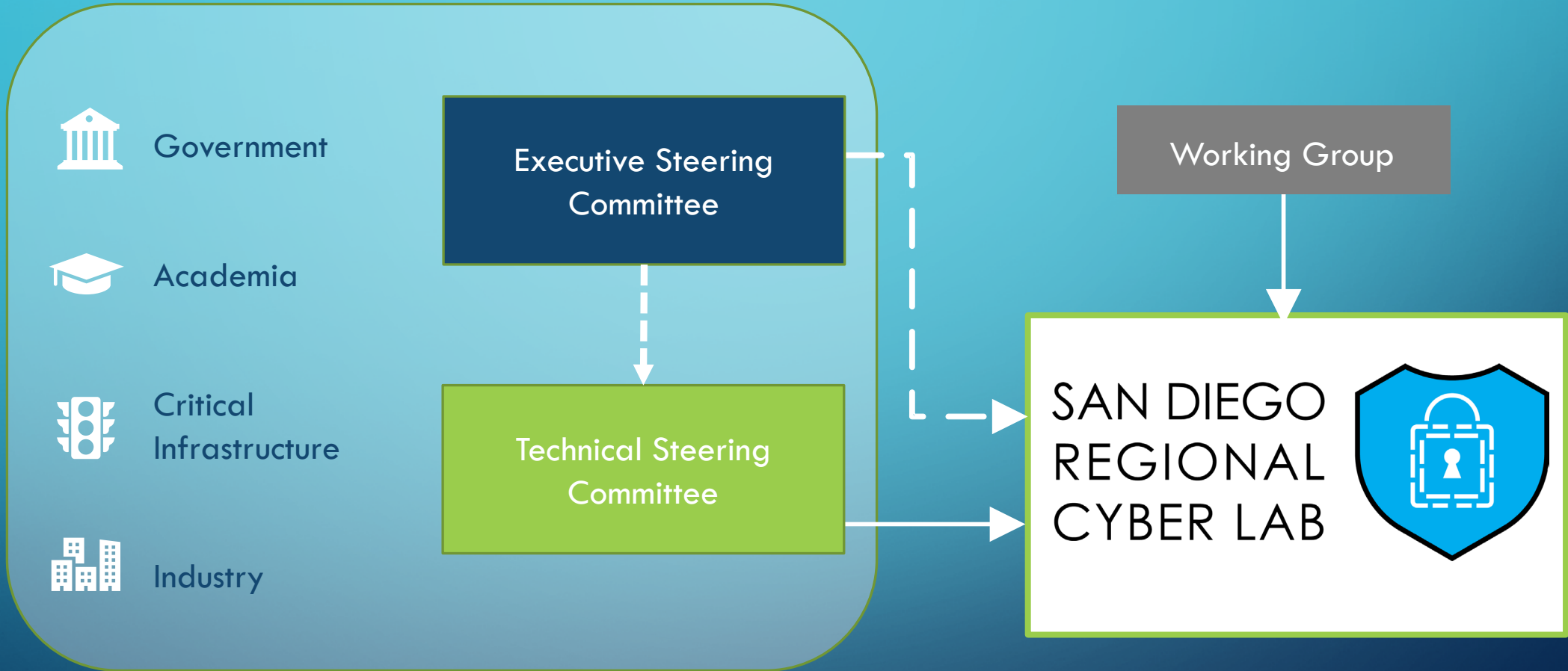
MISSION

To provide the greater San Diego region with coordinated cybersecurity awareness through collaborative access to tools, intelligence, and a trained and capable workforce.

VISION

To enhance cyber security resilience within the San Diego region through timely sharing of unclassified information, analytic products, and products for cyber security professionals.

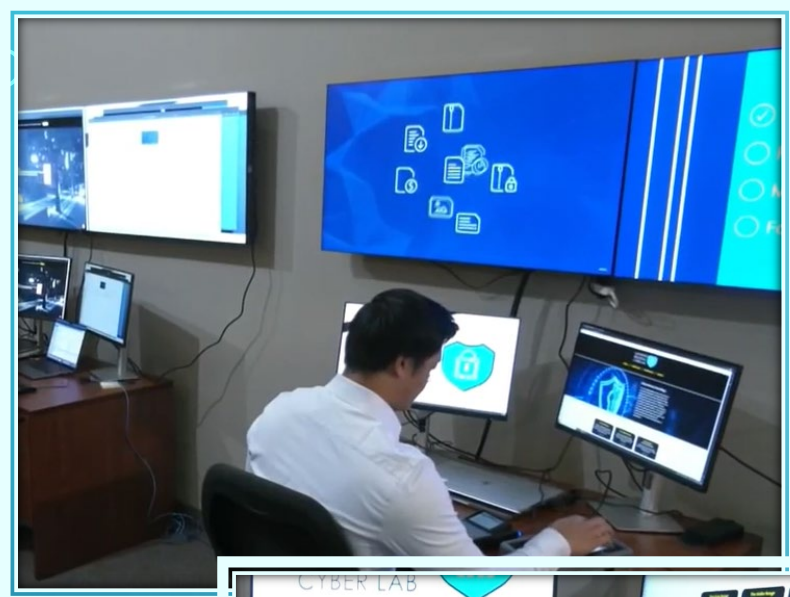
STAKEHOLDERS



REGIONAL SUPPORT



RESOURCES



Workspace:

- 5 PCs and 5 Macs and dual monitors

Infrastructure:

- Dedicated secure network w/ high bandwidth
- Server rack w/ 3x DL380s, firewall, and network switch

Forensics Hardware:

- Tableau TD2U/TX1 units
- Writeblockers
- Cellebrite UFED Touch2 Ultimate
- Smart phones (iOS and Android)

Forensics Software:

- OpenText EnCase Forensic & SMS
- Oxygen Forensic Detective

Other Software:

- Recorded Future
- CyberCatch
- World of Haiku & Haiku Pro
- AWS Virtual (Free) Range

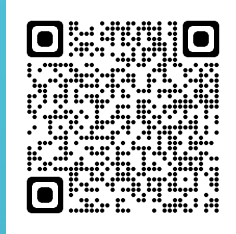
CYBER RANGES



- Two safe sandbox environments to simulate cyber attacks AND defenses
 - On-site & AWS ranges
- Video-game style range for beginners with Haiku
- Allows organizations to test their personnel's cyber security skills
- Simulate critical infrastructure targeting



WEBSITE



SAN DIEGO
REGIONAL
CYBER LAB



HOME • **CYBER HUB** • **RESOURCES** • **EVENTS**

Stay Secure, San Diego

The San Diego Regional Cyber Lab's mission is to provide the greater San Diego region with coordinated cybersecurity awareness through collaborative access to tools, intelligence, and a

<https://www.sandiego.gov/cyber-lab>

COLLABORATIVE ENVIRONMENT

- Web-based library
- Secure forum-like features
- General cyber information and specific resources by organization type
- Local cyber calendar
- Regional collaborative platform workshop session with Cal Poly

ACADEMIA

- Hands-on experience with real cyber forensics tools
- Cybersecurity training opportunities
- Collaboration opportunities with local academic institutions
- Develop local industry connections & hiring opportunities
- Easily accessible no-cost physical space for class activities

PRIVATE SECTOR

- Templates for cybersecurity policy development
 - Emergency Operations Plan, Incident Response Plan, etc.
- Cyber training opportunities for underdeveloped IT staff
- Networking with other local public/private agencies
- Testing current offensive/defensive capabilities in a safe sandbox environment

PUBLIC SECTOR

- Cybersecurity governance, technical expertise, and guidance
- Assessment of vulnerabilities and systems resilience
- Information about latest regional cyber attacks
- Testing current offensive/defensive capabilities in a safe sandbox environment
- Cyber training for staff lacking in cybersecurity expertise



**Thank
you**

Q & A

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