

Managing port and maritime cyber risk



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CIP | Inter-American
Committee on Ports

 **HudsonAnalytix**

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Global presence





HudsonCyber

Managing Cyber Risk



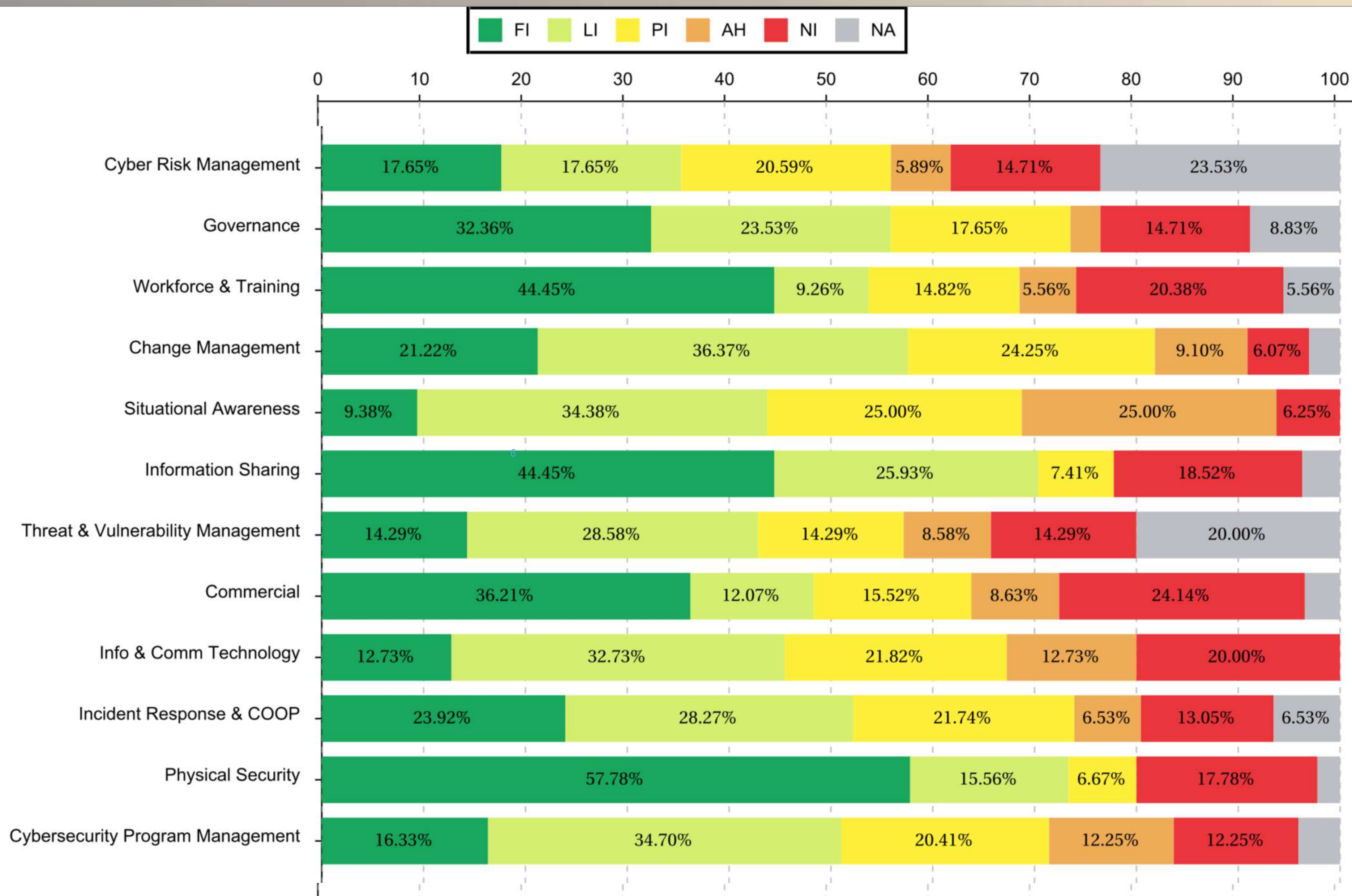
Assessments



Training



Threat Intelligence



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1. Common

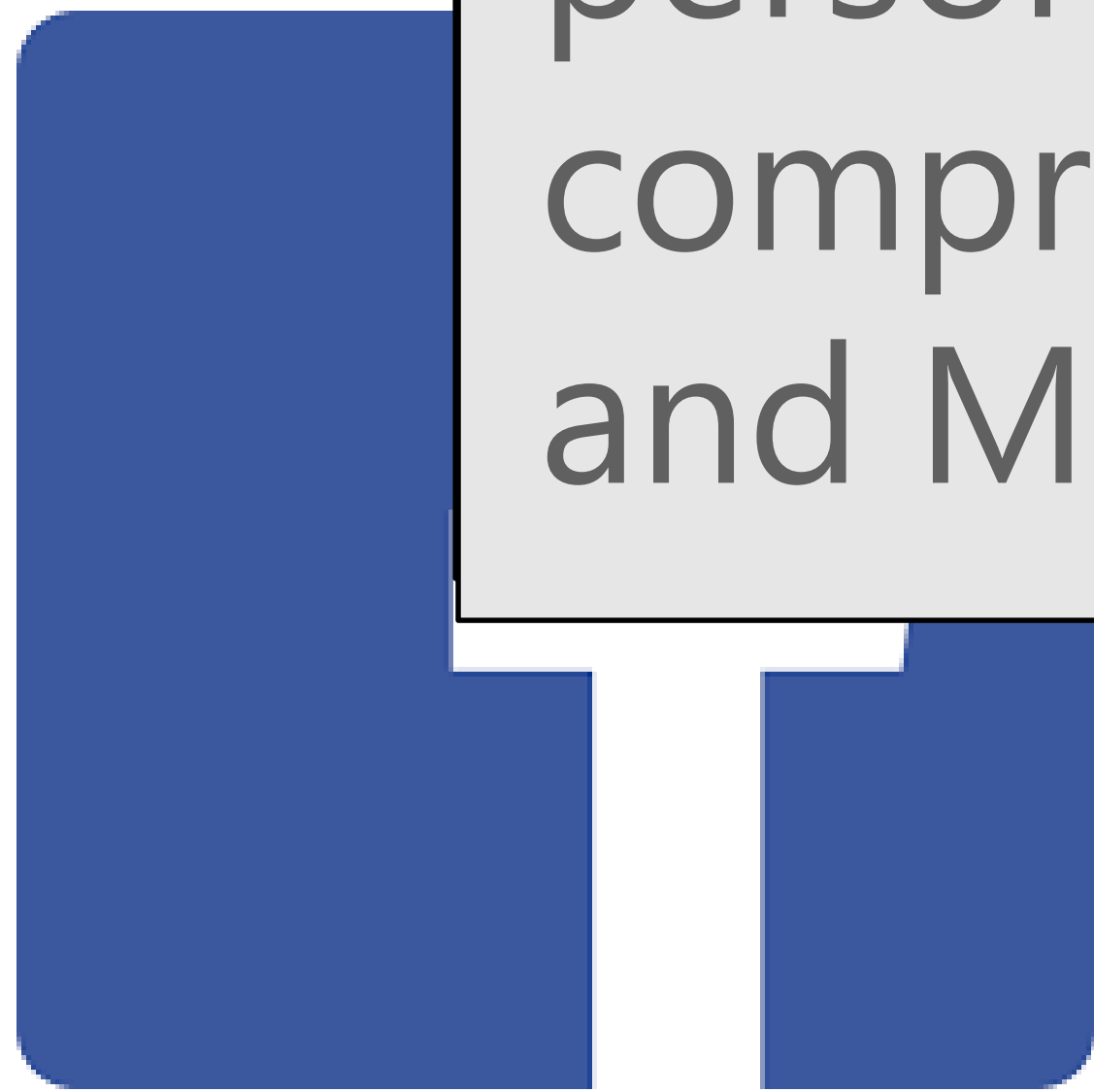
2. Costly⁸

3. Complex



1,946,181,599

The total number of records containing personal and other sensitive data compromised between January 2017 and March 2018



Cyber loss spectrum

IBM Security

MEDIUM

First-party

Third-party

Financial

Revenue loss and costs related to incident response, including public relations, data recovery, and legal costs

Third parties can try to recover:

- Civil penalties
- Revenue loss
- Recovery costs

Tangible

Physical damage:
• Property damage
• Bodily injury

Physical damage can affect third parties

- Property damage
- Bodily injury

HIGH

1. Use multiple tactics concurrently

2. Attack supply chain partners to get to intended target

3. Increased focus on advanced persistent threats



- 126 executives from maritime organizations
- 69% expressed confidence in the industry's overall cybersecurity readiness
- 64% indicated their own organizations are unprepared
- 100% of large organizations said that they're prepared
- 19% of medium organizations said that they're prepared
- 6% of small organizations said that they're prepared

Port of Los Angeles

- Ransomware attack
- Couldn't access various administrative systems
- Didn't suffer any operational effects

- Victim of the NotPetya attack
- APM terminal couldn't operate for several days
- Had to carry out activities manually
- APM suffered roughly \$300 million in losses

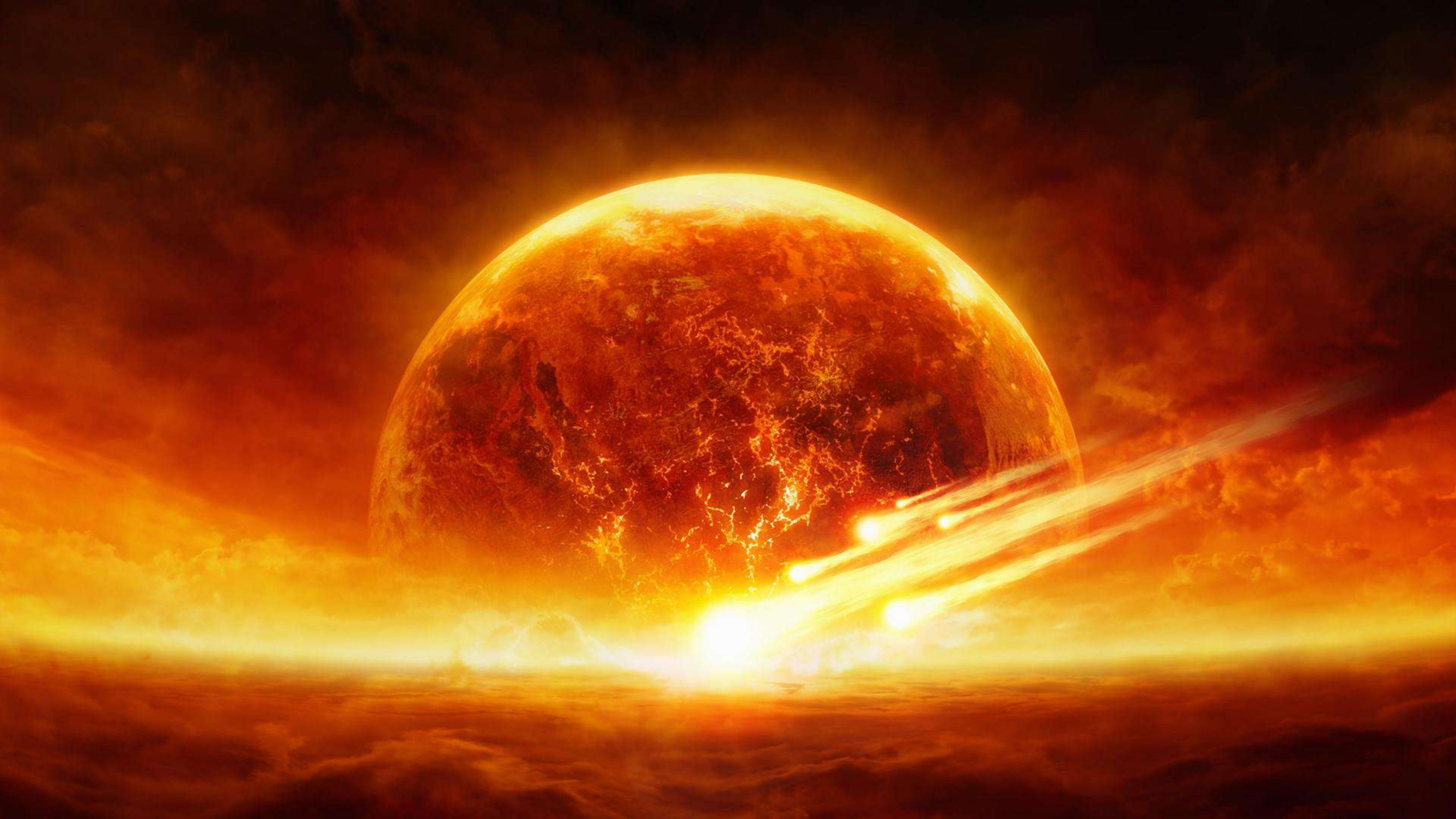
Port of San Diego



Rule 1: Don't own a computer

Rule 2: If you own a computer, don't turn it on

Rule 3: If you turn on a computer, don't use it



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Three types of scenes...

1. Negotiation

2. Seduction

3. Fight

...also are how we can manage
cyber risk

NEGOTIATION: INCLUDING CYBERSECURITY IN YOUR AGREEMENTS

1. Identify third parties
2. Prioritize third parties based on potential risk
3. Research new third parties
4. Review contracts often
5. Ensure that attorneys review contracts
6. Have contingency plans
7. Continuously review

SEDU

AFF TO

Resources

\$



5



A man with a beard and short dark hair is shouting with his mouth wide open. He is wearing black boxing gloves and is in a gym setting. The background is slightly blurred, showing other people and gym equipment. A large blue semi-transparent box is overlaid on the image, containing white text.

FIGHT: HAVE A CYBER INCIDENT RESPONSE PLAN

1. Documented and integrated
2. Responsibilities
3. External resources
4. Exercises


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- 
- A cartoon character with orange skin and black hair is peeking over a large blue rectangular box. The character's eyes and nose are visible above the top edge of the box. The background is a light blue gradient with a white, cloud-like border on the right side.
1. The letter C
 2. Port victims
 3. Cost-effective steps
 4. Negotiation
 5. Seduction
 6. Fight

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