



# Unlocking the Future

AI is the Key to CISOs Top  
Challenges



# Some AI Fundamentals First

## AI Strengths:

- ✓ Reasoning and logic
- ✓ Communication skills
- ✓ Synthesizing information
- ✓ Pattern identification
- ✓ Creative problem-solving
- ✓ Translation
- ✓ Unstructured Data

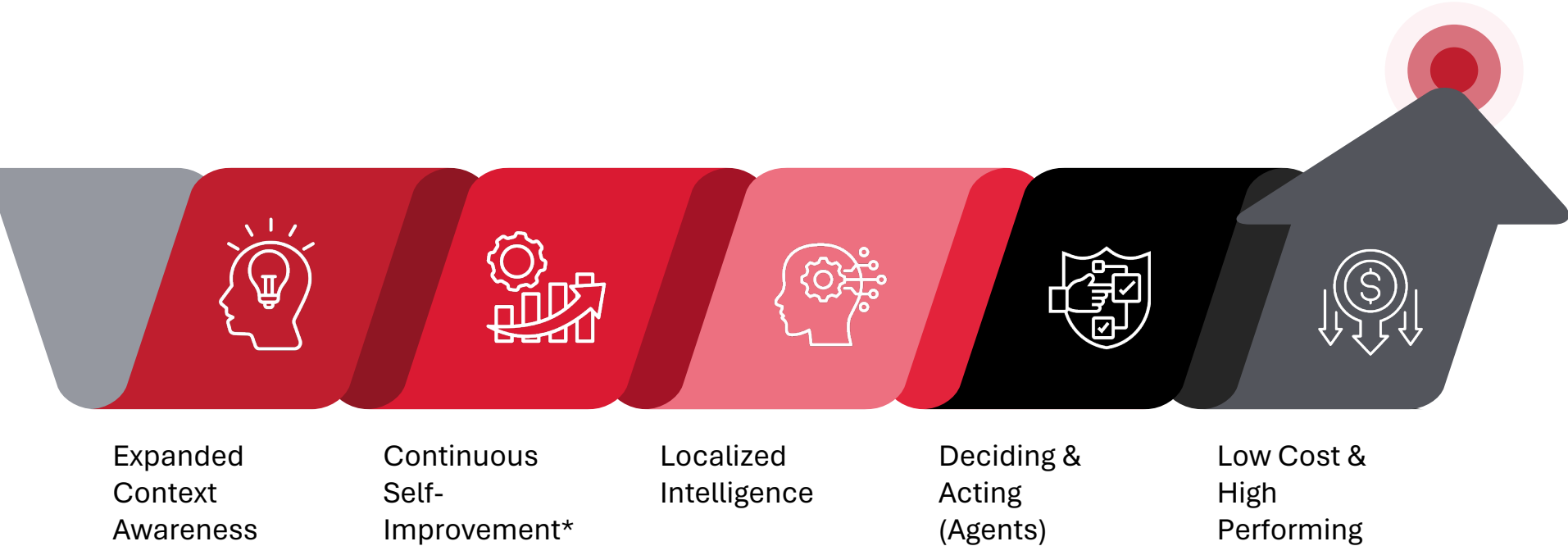
## AI Limitations:

- ✗ Non-deterministic behavior
- ✗ Accuracy
- ✗ Repeatability challenges
- ✗ Limited memory retention
- ✗ Speed & cost efficiency

“

Genius 13-year-old.  
Overconfident with short attention span and no street smarts”

# What is Here Today but Coming Tomorrow



# AI's Impact on the Enterprise

## Organization



All meetings and **communication** will be analyzed and searchable



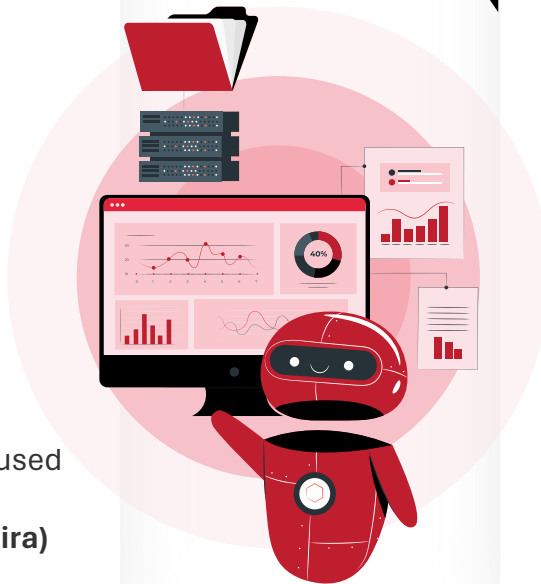
**Self updating** documentation & wikis



**Automated** management status reports



Local agents (oracles) focused on each area of expertise (**identity, cloud, emails, Jira**)



## Engineering



Code and Cloud will become **self documenting**



Requirements-driven code generation (**requirements as code**)



**Integrations** will be automatic



Localized models will monitor systems & help remediate (**self healing**)



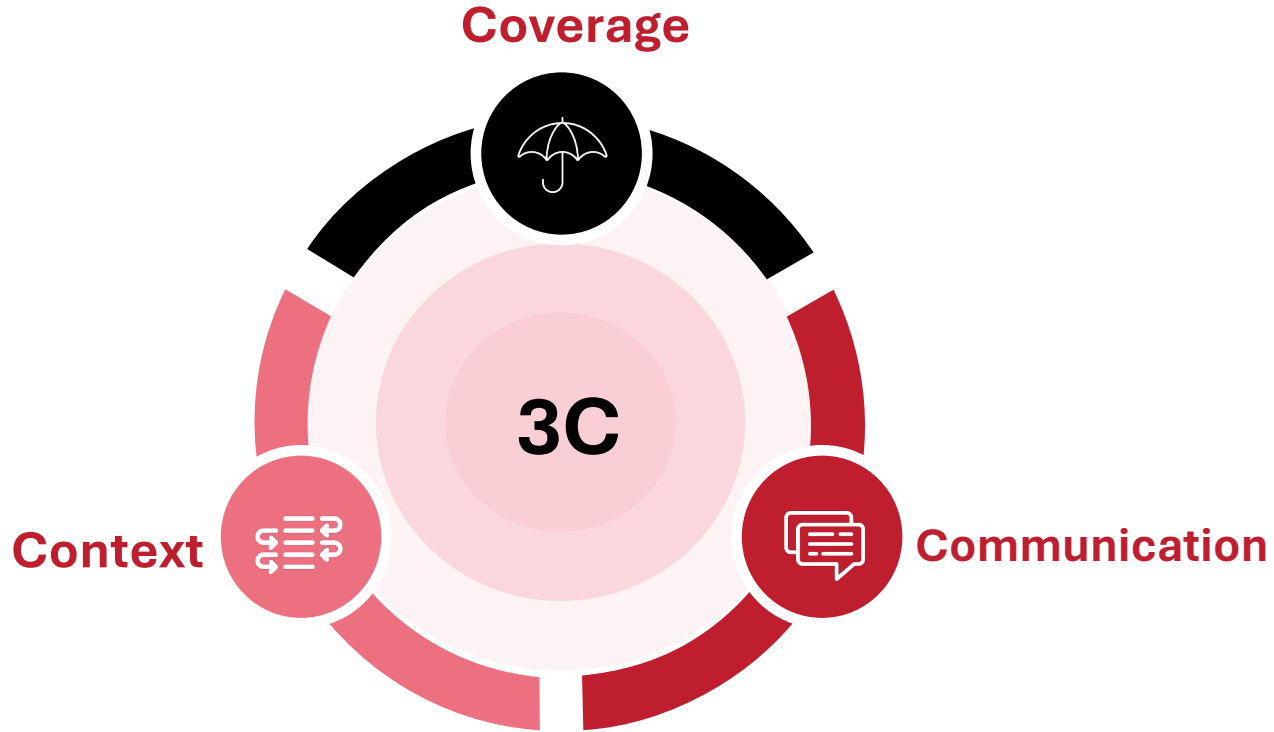
# CISOs Top Challenges



# CISOs top SECURITY challenges



# Fundamental Underlying Issues: The three C's



# Context - Who? What? Where? Why? How?



## Vulnerability Management

- Is it exploitable? If so by whom?
- Is there compensating controls?
- How hard/easy is it to remediate?
- Is it a critical system or area?
- Who owns the remediation?



# Coverage – Width & Depth



Account  
Takeover (ATO)



Missing logs,  
fields/  
Stopped logs



Thousands of  
vulnerabilities  
& alerts that  
need triaged



Configuration  
changes



Architecture  
Reviews

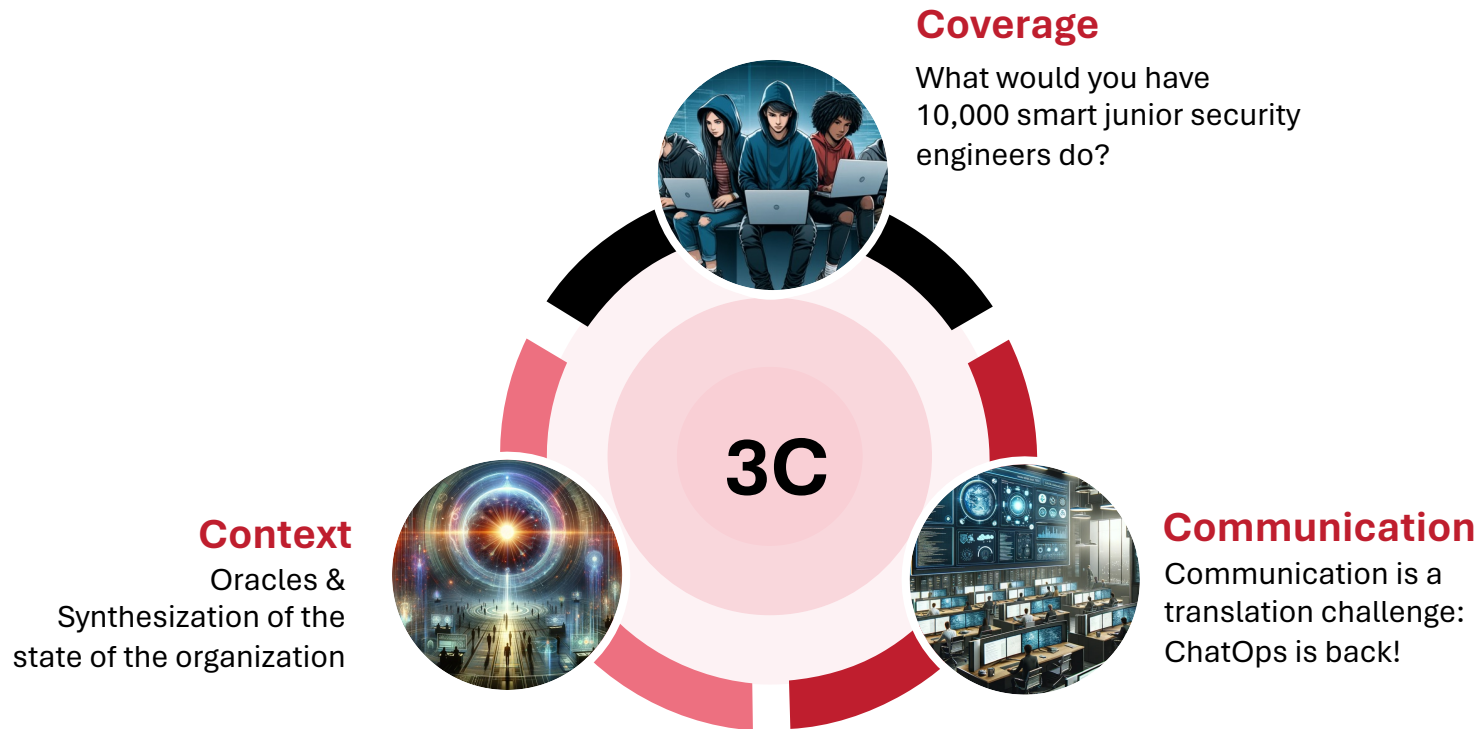


User/ System  
permissions

# Communication – Most Important & Waste of Time



# AI excels in the three C's.



Imagine a World

# Today vs Tomorrow

# Detection & Least Privilege

Info: A new outbound call to stripe.com was identified and is being allowed.

This is expected behavior and is considered low risk for the following reasons:

## stripe

Stripe is a trusted provider & only outbound calls are allowed

Engineering documentation and discussions have identified Stripe being the new accepted payment provider

The Stripe libraries were introduced to code repo “payment-lib” on 3.3.2024

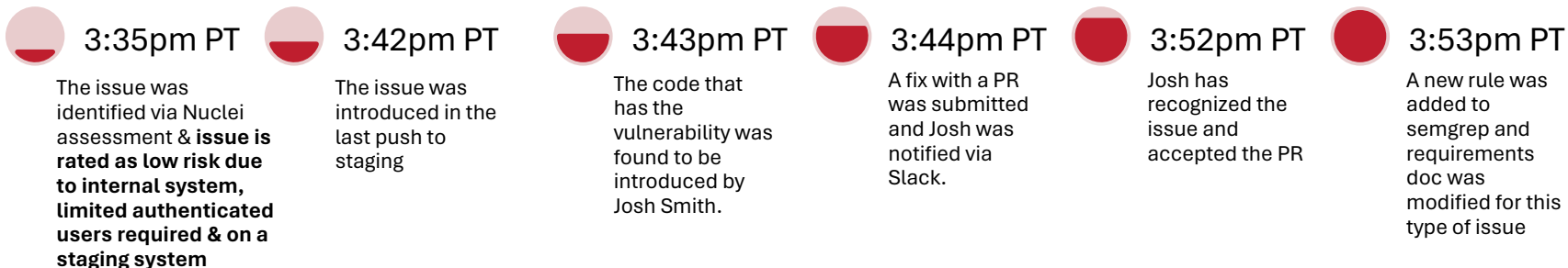
A **discussion with Cosmo who is the active contributor** to “payment-lib” occurred at 1:22pm PT 3.3.2024 via Slack to confirm the domain stripe.com is allowed outbound

# Vulnerability Management & Coverage

An XSS issue was identified in the internal CIS system via the case commenting function.

Located at **xxx/comment/\$id**  
Total Exposure Time: **22 minutes**

## Activity Report



# Crown Jewel Alert

Your requested approval settings are High for any Crown Jewel Trust Zones.  
A request for delete access for role 'sp-report-gen' on s3 bucket 'bi-data-setec/tmp'.  
Do you approve?

Recommendation is to grant access for the following reasons:

Request was made by Martin Brice who is Principal engineer of the 'data-infra' team who has ownership of this asset

Meetings with Martin & the business media team discussed cleaning up the discarded reports on a regular basis.  
3.15.2024 (deeper summary here)

Jira ticket 2928 was filed with request for expanded permissions for regular clean-up activities.

Requirements document for sp-report added delete capability

We reached out to Werner Brandes head of security-engineering via Slack at 3.15.2024 who gives approval.

# Thank You

Find me on LinkedIn  
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