Building resilient Application security programs

APPLICATION SECURITY VULNERABILITIES - MEASUREMENTS, MATURITY MAGIC - VULNERABILITY FRAMEWORK PROJECT



Aggregate
Contextualize
ACT

Francesco Cipollone, Founder fcaphoenix.security

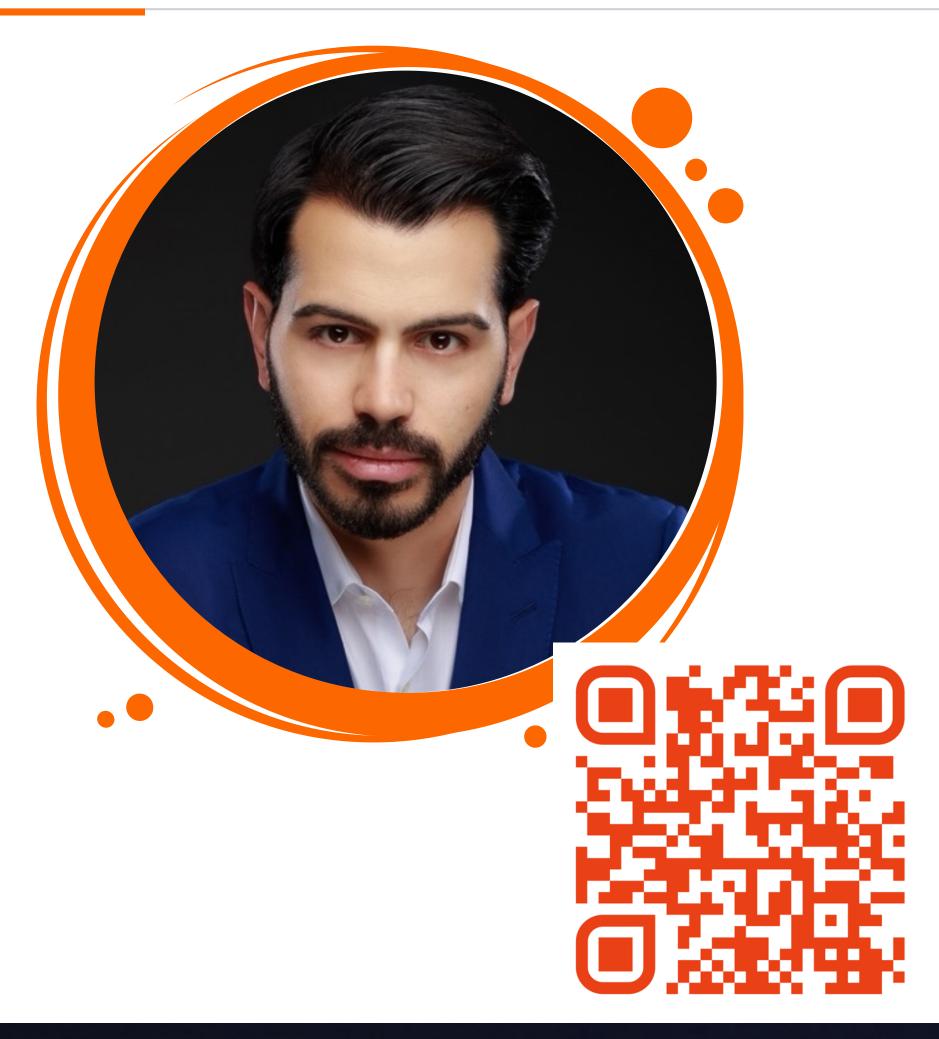


https://www.phoenix.security



@FrankSEC42

About Francesco



Francesco Cipollone

Founder Phoenix Security, Chair CSA UK





I'm a cloud expert and have been a CISO Advisor, Cybersecurity Cloud Expert. Speaker, Researcher and Chair of Cloud security Alliance UK, Researcher and associate to ISC2.

Currently we are working on interesting problem on how to link Application, Security and















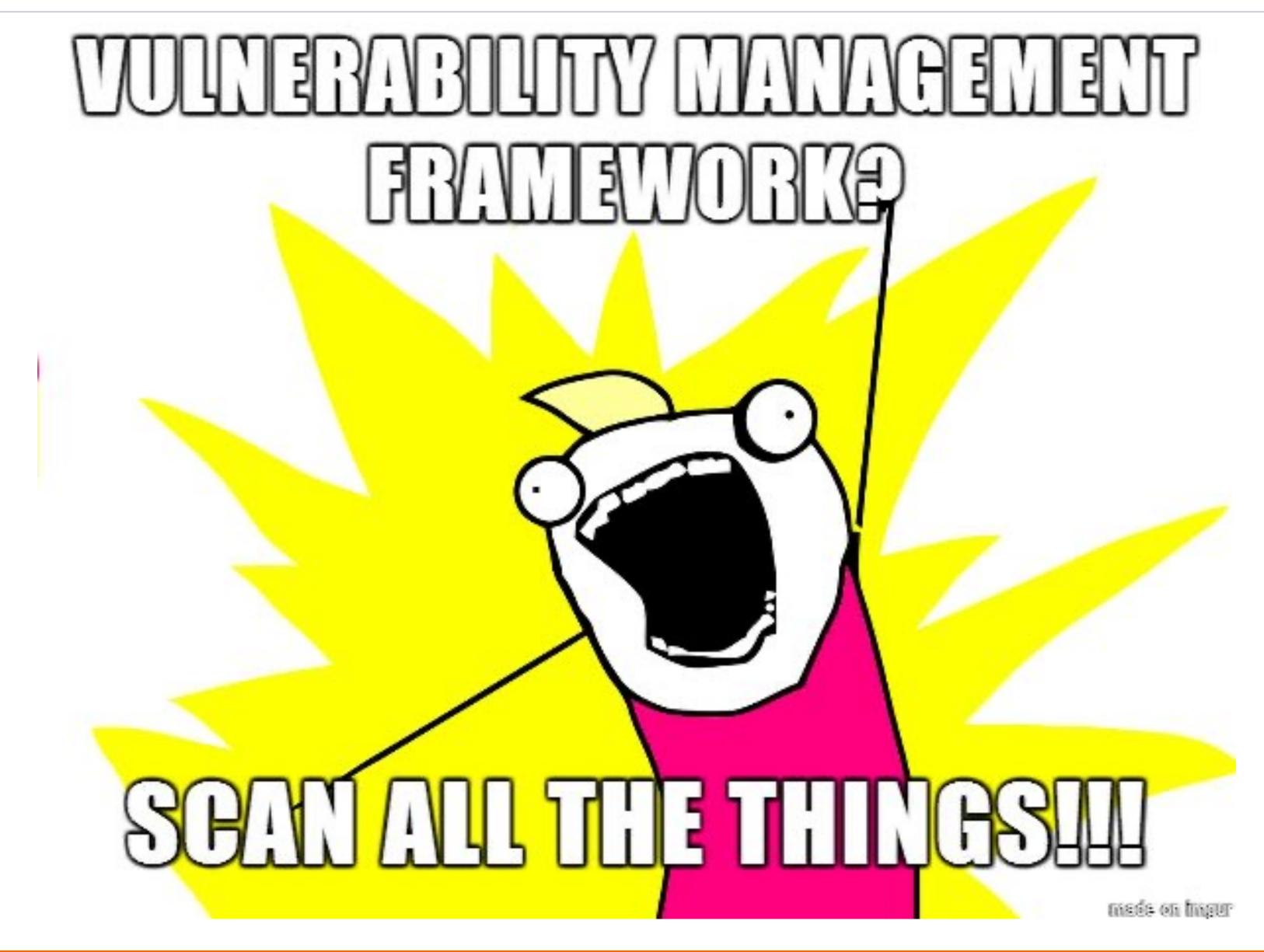






Prevent Burnout is key to happy living Can we scale security to make it more enjoyable?

Been Warned





Agenda

Intro & Context

Problem of vulnerabilities

Security-developers WHO needs to triage?

Human cost of fixing manually

Appsec Security Framework

Modern SSDLC

Triaging and Reporting

Vulnerability Framework

Recommendation/ Conclusion

Q&A



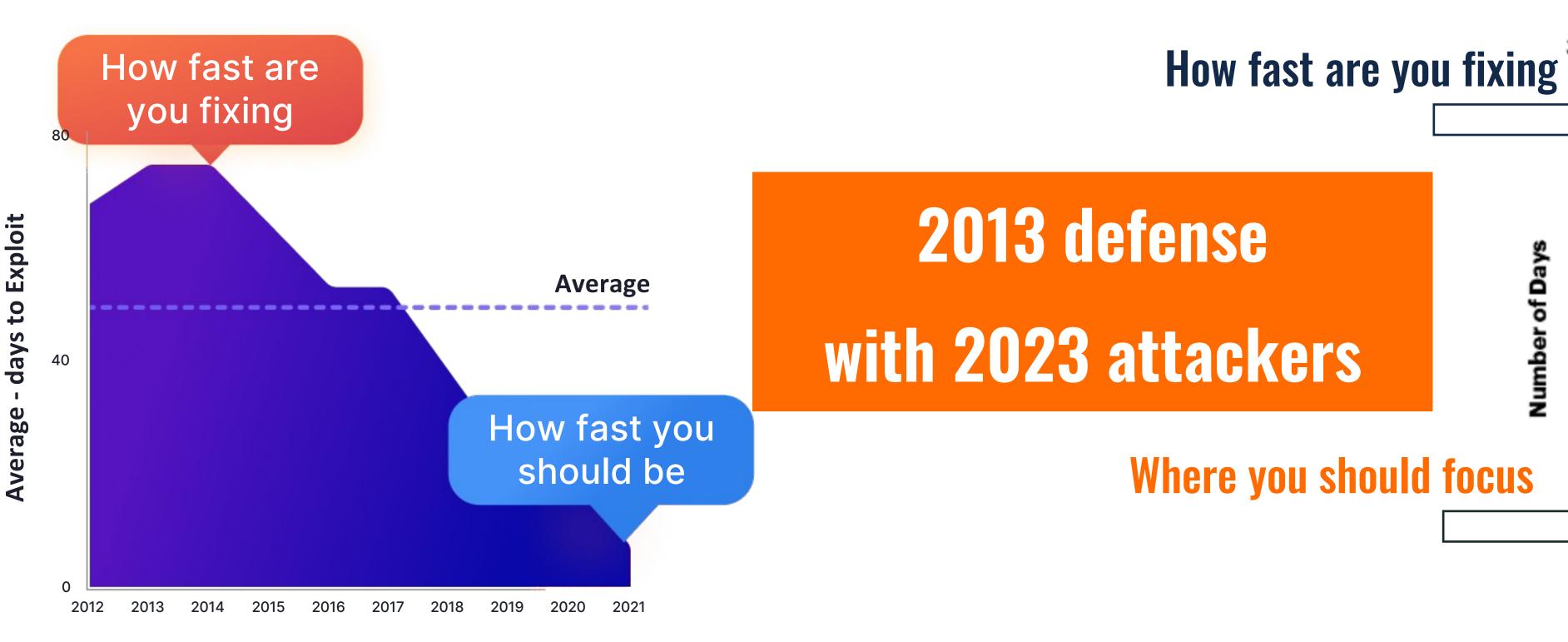


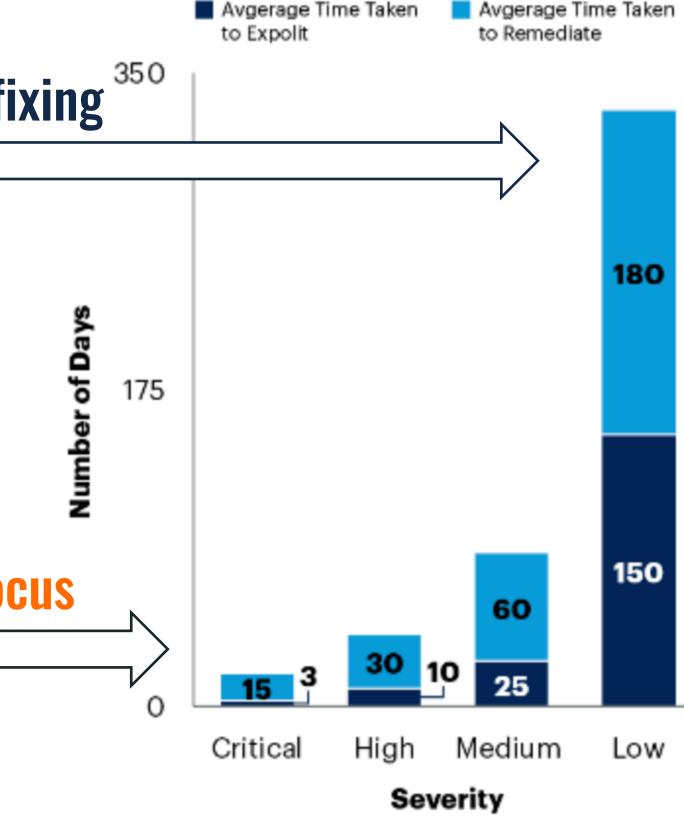
The first challenge ... and it's getting worse



WHY IS IT IMPORTANT? - MORE ASSETS LESS TIME

1:4 BREACH DUE TO VULNERABILITY





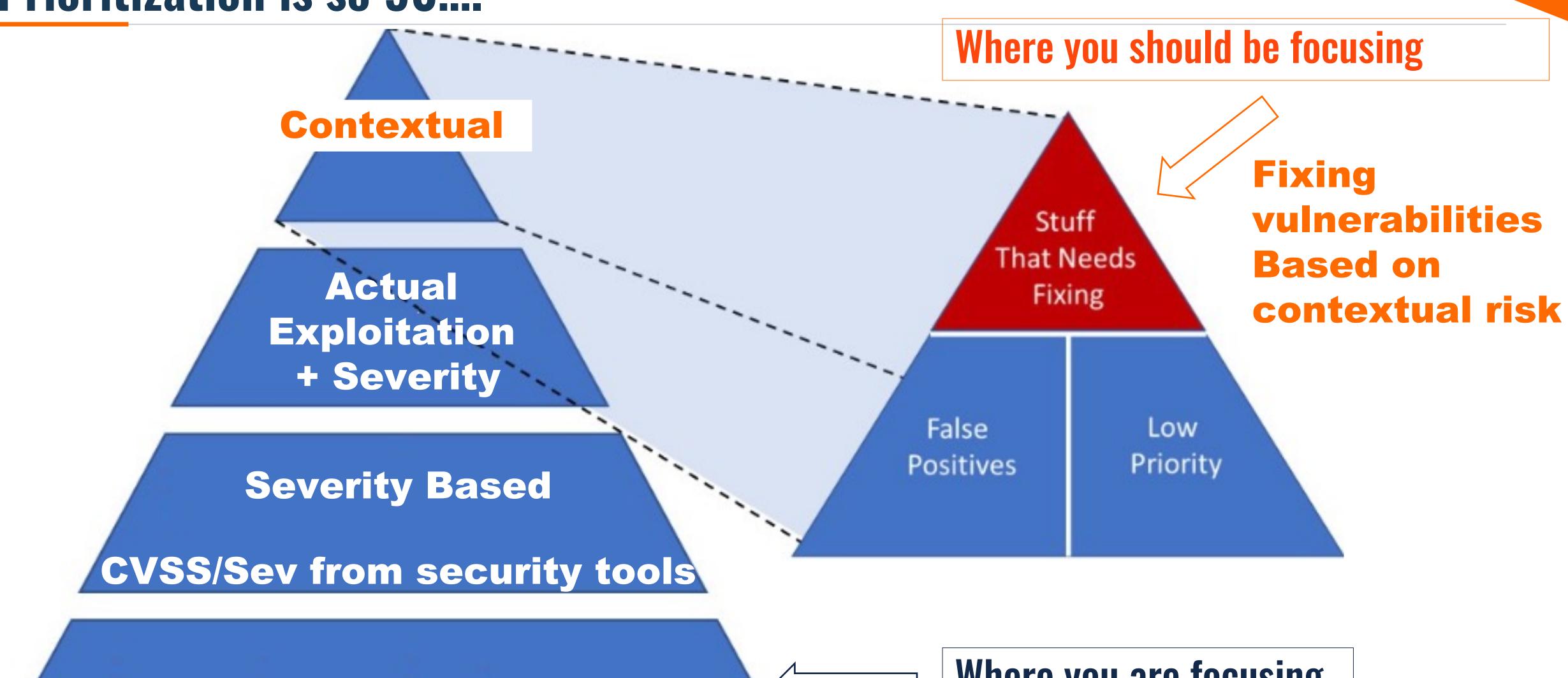
Source: Gartner 760501_C

Source gartner: https://www.gartner.com/document/code/775767

Exploit average time over years



Prioritization is so 90....



SAST SCA Pentest **DAST** Cloud Patching **Containers**

Where you are focusing





WHY IS IT IMPORTANT?

775767_C

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34% More Vulnerabilities Every year

10% are actually important

How do you get there?

in https://uk.linkedin.com/in/fracipo



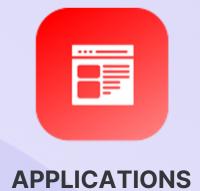


















OEM SOFTWARE



3RD PARTY LIBRARIES



Who Should fix



OEM SOFTWARE



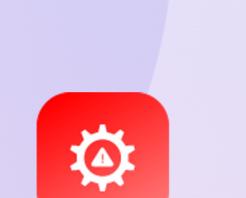


CODE



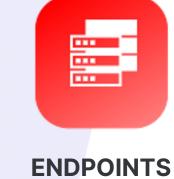






MISCONFIGURATION





CODE

</>

APPLICATIONS



APPLICATIONS

LIBRARIES



CREDENTIALS



SECRETS







CONTAINERS

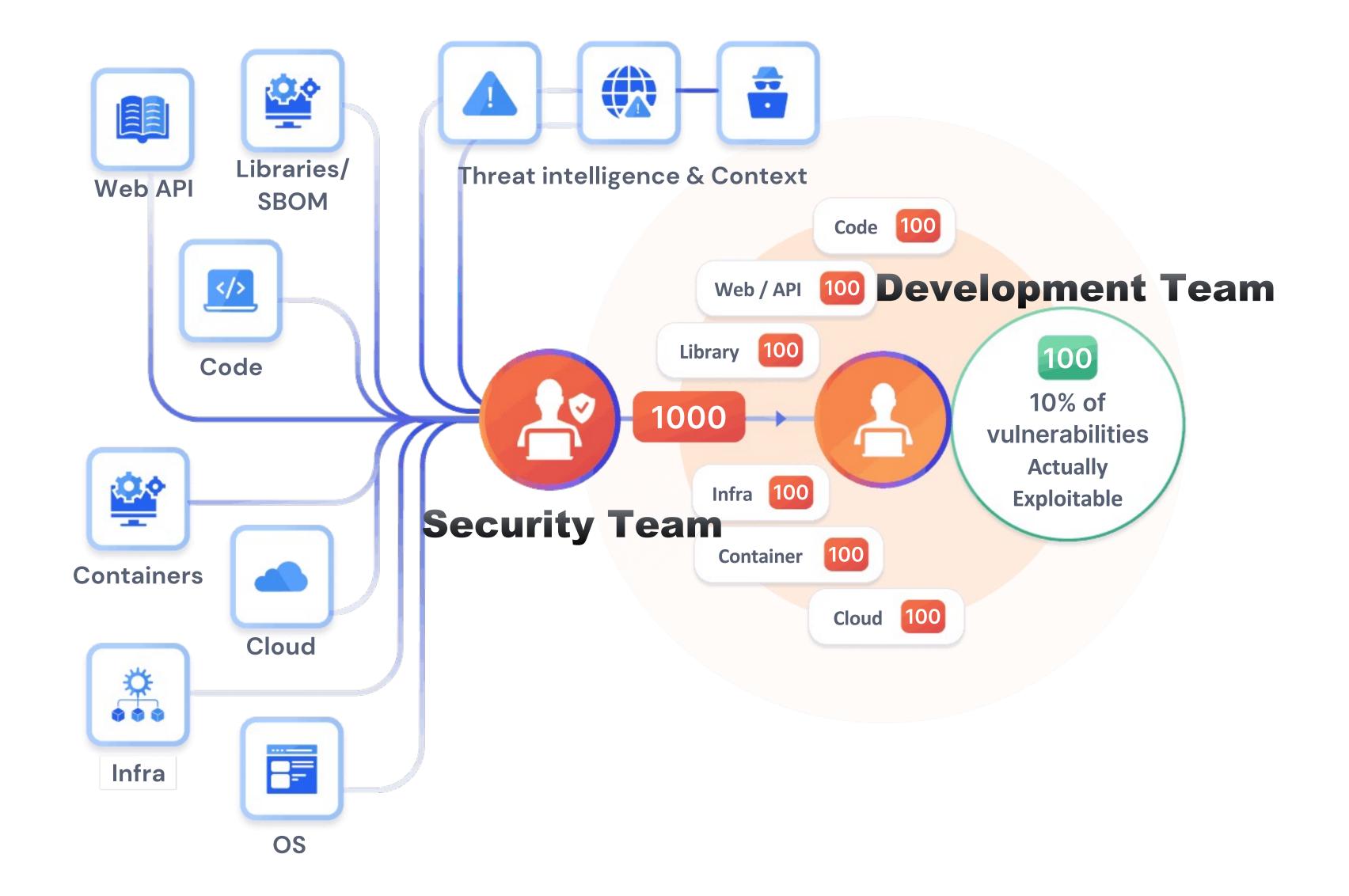
0/S



Needle in a haystack - > But the haystack is on fire



Security Team Triaging

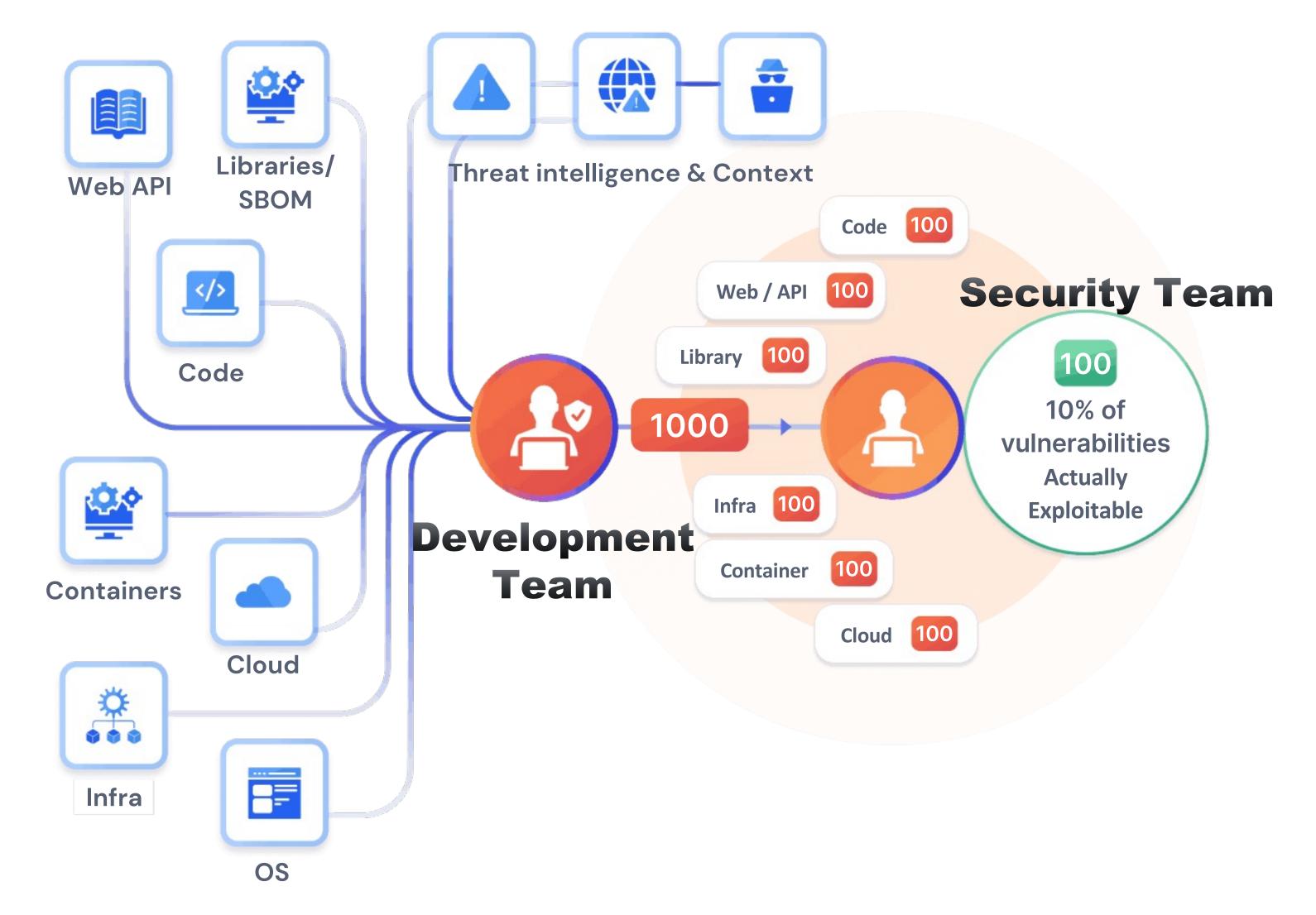


What's most important – the log4j case





Development team Triaging



What's the solution of this? Opening tickets to dev teams

Driving back home after printing out the vulnerability scan report





What's most important



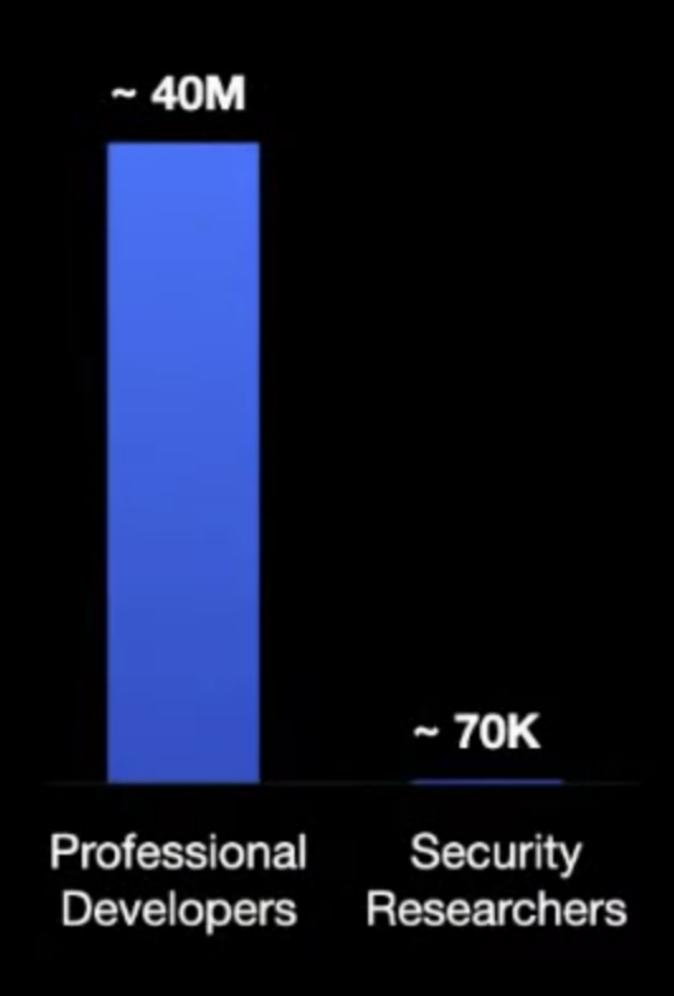


Road to burnout

Security researchers are outnumbered!



more developers than security researchers



Sources: NIST, Polemon Institute

Regardless Can we solve this problem just with people?

1000 Employees

100 Dev

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Security 1:50 Security to Dev

48 min per team

9h to analyse a vuln







in https://uk.linkedin.com/in/fracipo

3100 Employees

1000 Dev

Security

1:200 Security to Dev

10<minper team

9h to analyse & triage a vuln







Shift Left?

We're Shifting Everywhere.

Sage Security Champions Conference 18-20 April. #GoodCleanSecureCode #ShiftingEverywhere Shift up shift down shift left shift right









3rd person at the table :Audit/Regulation

WHY? Regulation are here and more are coming



















WHY? Regulation coming

- Show me the latest vulnerabilities
- Show me the vulnerability trends
- When did you pentest this application
- What are the risk acceptance for this application
- When was the last scan
- **How much time/Effort?**



WHY? Regulation are here...and more coming

- Requirement 6.1 of PCI DSS states that organizations must "establish a process to identify...and assign a risk ranking to newly discovered security vulnerabilities."
- Article 32 of GDPR requires the implementation "of appropriate technical or organizational measures to ensure a level of security appropriate to the risk."
- The HIPAA Security Rule mandates an "assessment of the potential risks and vulnerabilities to the confidentiality, integrity, and availability of electronic protected health information."
- The GLBA Safeguard Rule requires organizations to "identify and assess risks to customer information...and evaluate the effectiveness of current safeguards for controlling these risks."
- EU <u>Directive on measures for a high common level of cybersecurity across the</u> Union (NIS2) and Cyber Resilience Act (CRA)
- Cyber Resilience Act (CRA) Manufacturers shall have appropriate policies and procedures, including coordinated vulnerability disclosure policies, referred to in Section 2, point (5), of Annex I
- NCSC guidance on regulation





WHAT IS THE OBJECTIVE OF SECURITY?

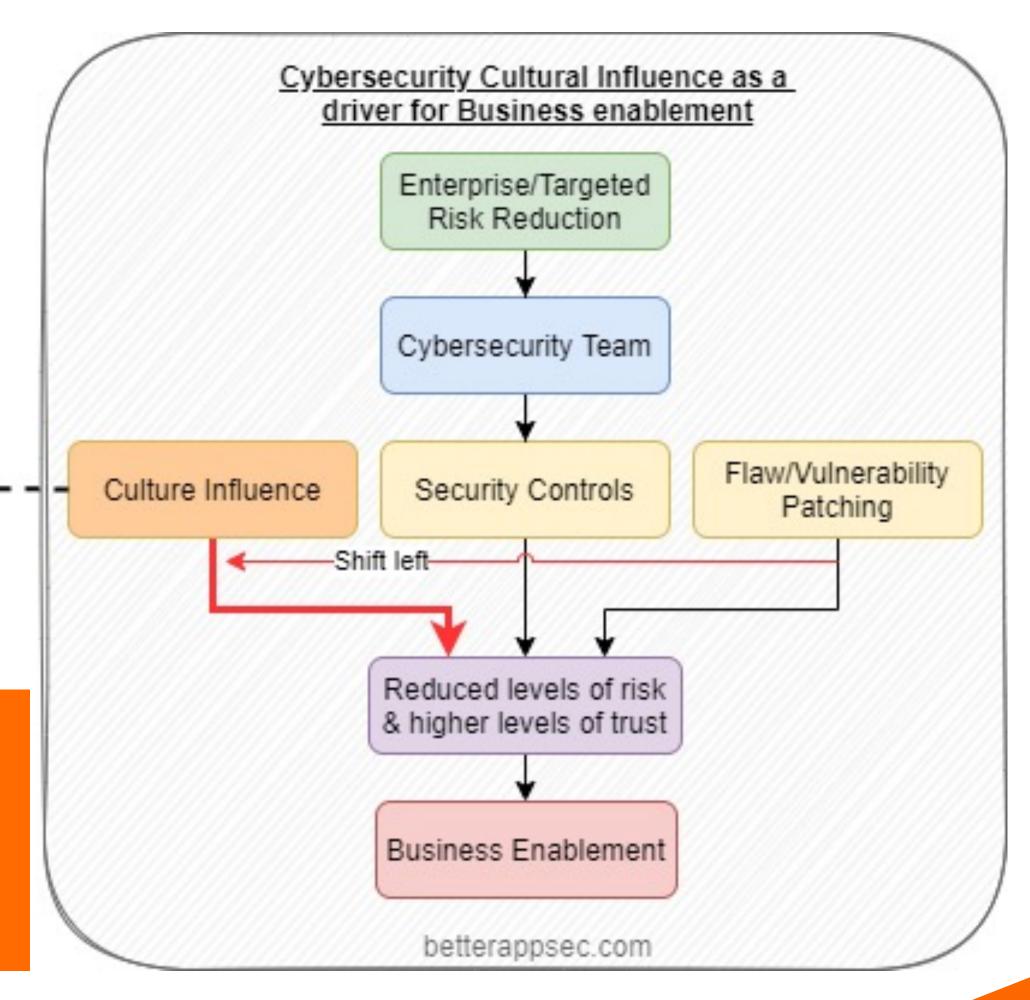
Objective of security -> Business Enablement

Made of several aspect

- Influencing people
- Fixing as soon as possible
- Shift left (don't create issue in
 - first place)
- Controls

Product/Security Partnerships Security Guardrails CI/CD Security Tooling Security Engineering Innovation

Ultimate Objective Operate at a business risk lever the organization is comfortable with





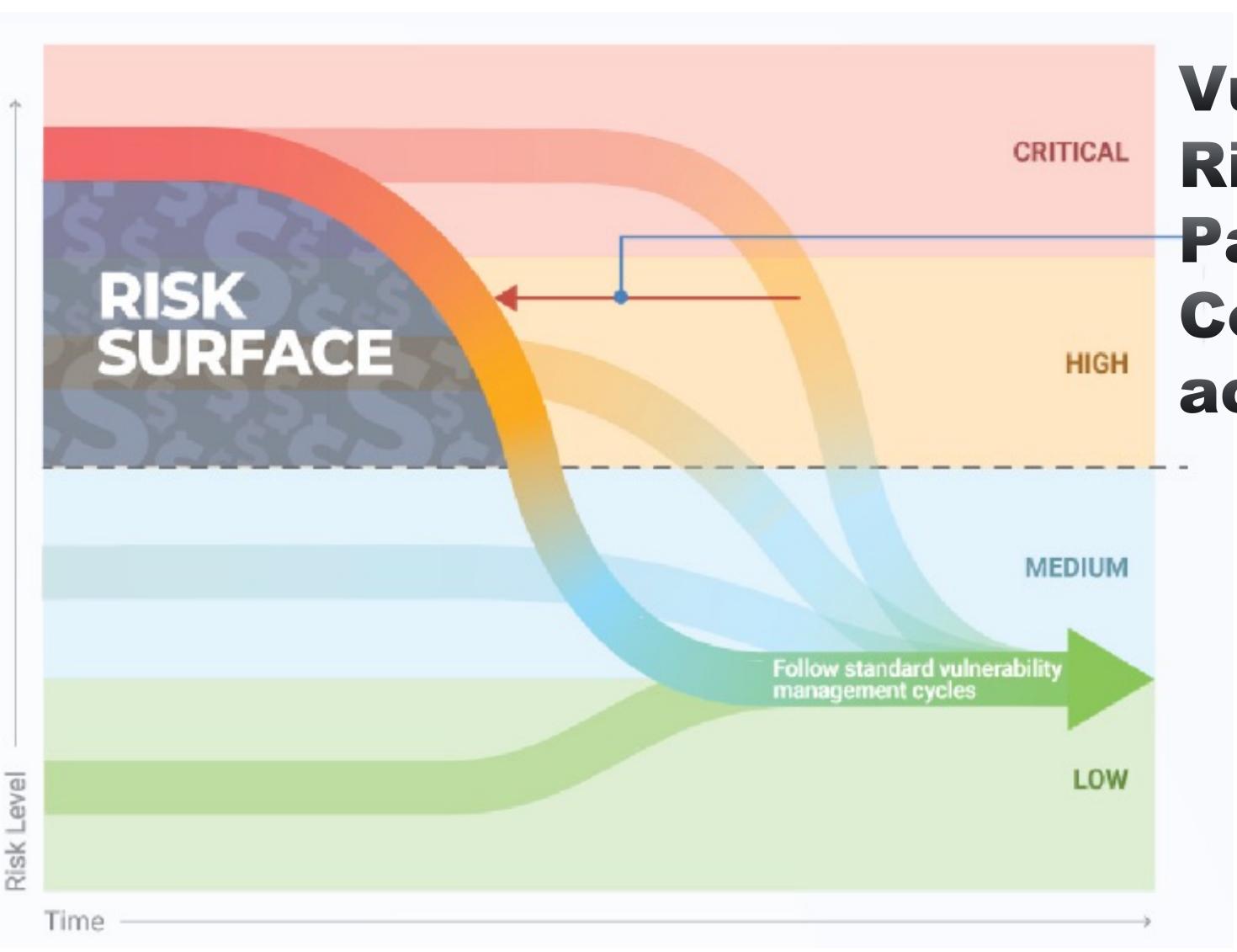




Vulnerability is not risk



Risk provide better context than just cvss



Vulnerability management
Risk management
Patching
Compensating controls
activities

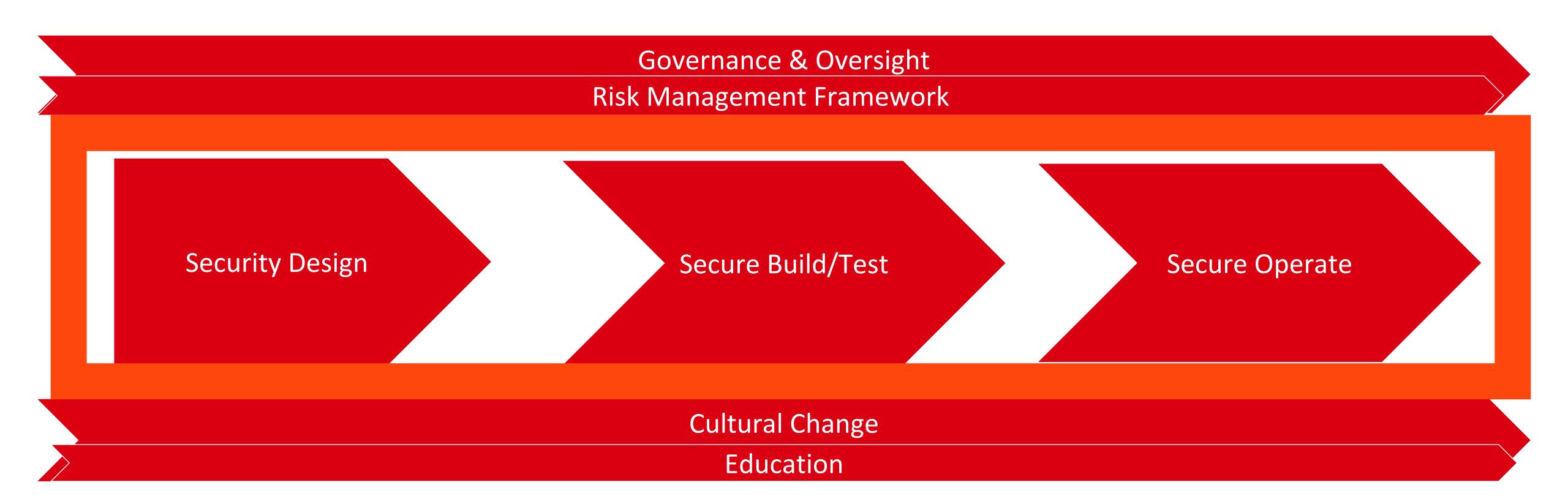


Vulnerability Mangment Framework

LEVE	DETECTION	AGGREGATION/ ASSET MANAGMENT	PRIORITIZATION	ACTION	MEASUREMENT
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M2	Policy Regular Pen-test Ad-how Static analysis SAST Peer review	Aggregate vulnerabilities Aggregation of Assets	Prioritization based on SLA (severity)	Regular Review of vulnerability actions Regular Burn down of Vulnerabilities by SLA	Number of vulnerabilities SLA per criticality
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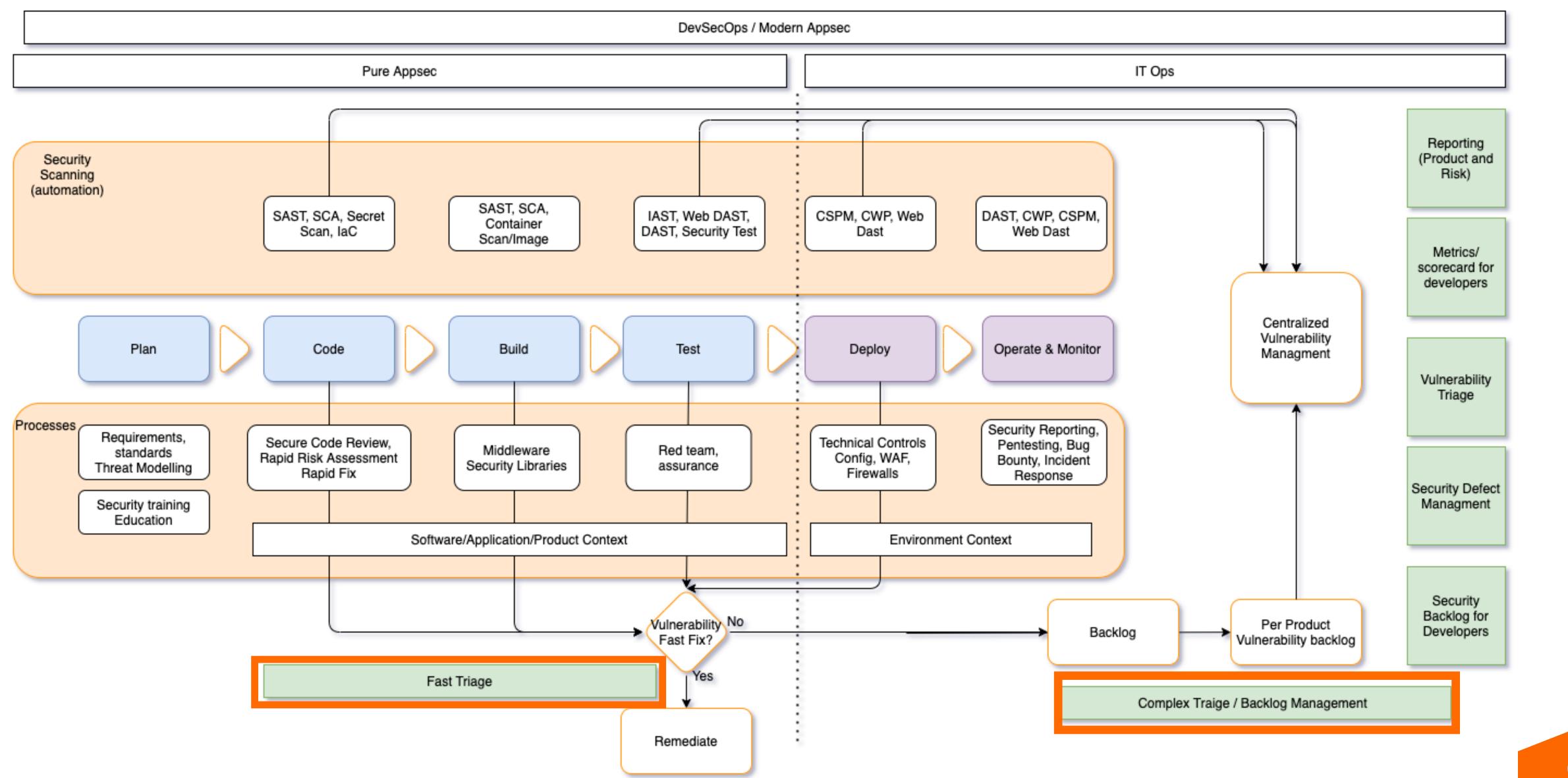


Vulnerability Maturity Frameworks – Stages and focus



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Modern Security Pipeline



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PROCESS OF TRIAGE



SLOW DEFENDER

180-280 days

Average time to fix a vulnerability



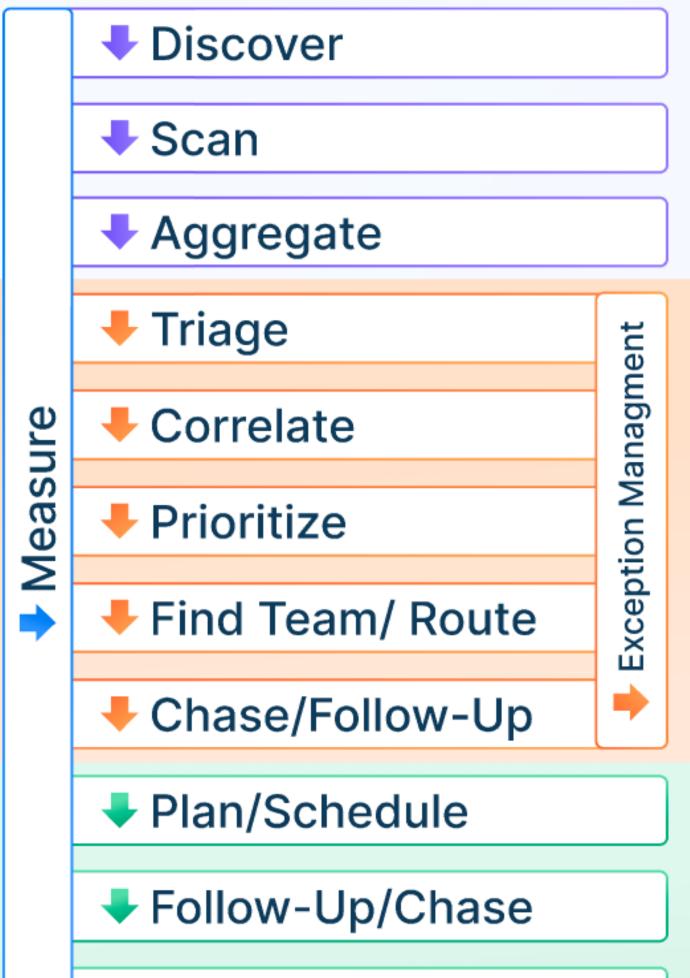
3-15 days

Average time to exploit a new vulnerability



Scan

Prioritize



Resolve/Rescan

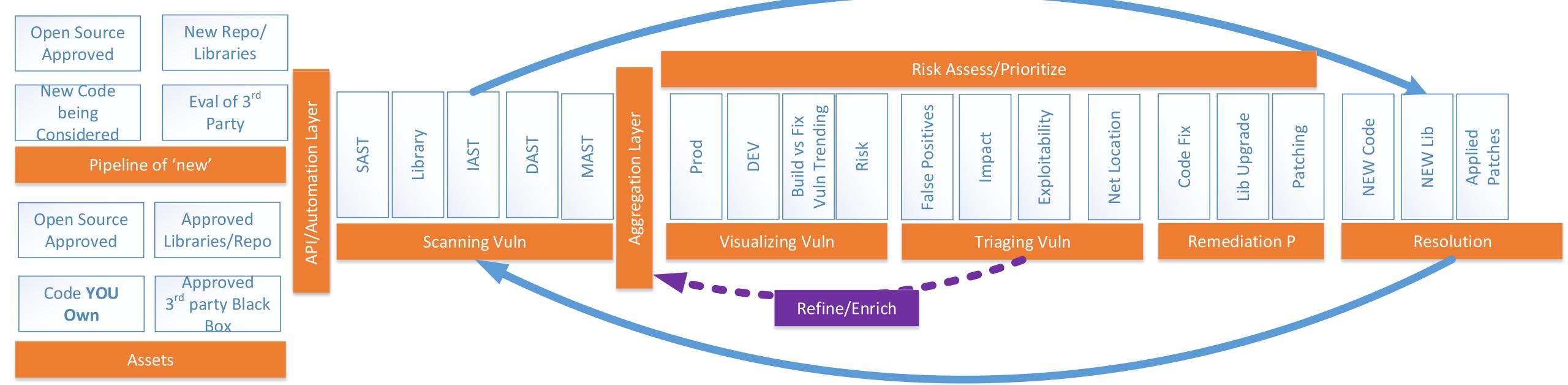


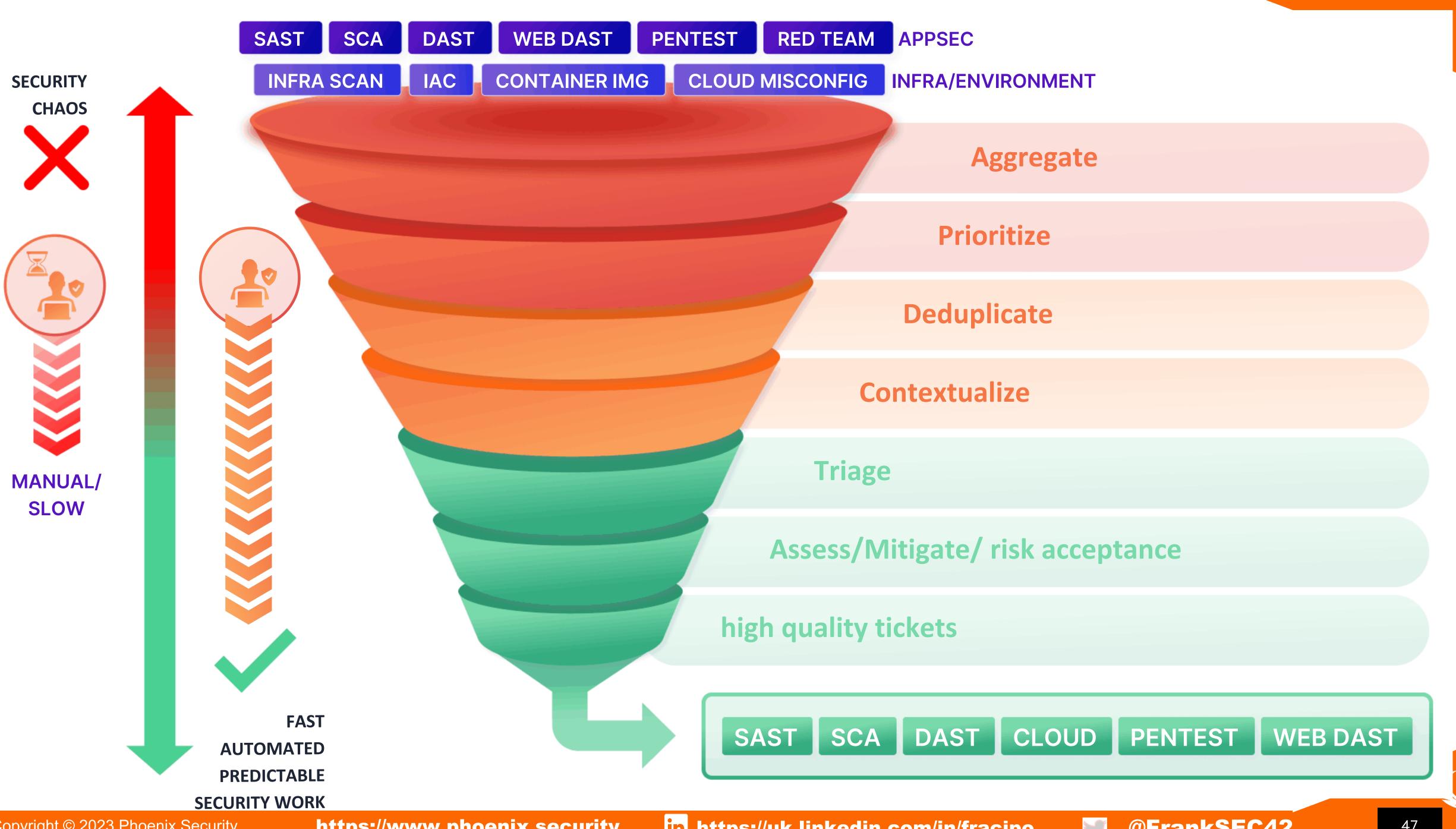
Resolve





Vulnerability management Lifecycle -> Linear?







TO REPORT OR NOT TO REPORT

Reporting

How I actually look



KPI Reporting - Scorecards 465th 9000 - Risk Level - Fix time/ Build time - Regulation impact Organizational - Financial Impact **KPI** Application/ Service Risk - Trendline, Fixing vs building) Poto///S Business/ Team Critical alerts, SLA breach **KPI** - Vulnerability trending by categories Vulnerability categories trending Technology/Security/Engineering Ticket open/Closed (MTTR, MTTO)

Most critical vulnerability, assets

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Vulnerability management Framework

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PRE ASSESSMENT

	UE HOOEDOMEN					
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Detection of issues

DETECTION

AGGREGATION/ DEDUPLICATION

PRIORITIZATION

ACTION

MEASUREMENT

МО	M1	M2	M3	M4	M5
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Aggregation & Deduplication

DETECTION

AGGREGATION/ **DEDUPLICATION**

PRIORITIZATION

ACTION

MEASUREMENT

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Prioritization

AGGREGATION/ DETECTION DEDUPLICATION

PRIORITIZATION

ACTION

MEASUREMENT

МО	M1	M2	М3	M4	M5
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Action / Routing

AGGREGATION/ **DETECTION PRIORITIZATION ACTION MEASUREMENT DEDUPLICATION M5 M3** M4 MO M1 M2 Regular Review of Regular review of Regular review of No Action Reactive and Regular Regular review of vulnerability actions Backlog review of vulnerability Backlog Backlog · Regular Burn down of Regular Burn down of Regular Burn down of Regular Burn down of actions Vulnerabilities by SLA top vulnerabilities in top vulnerabilities in top vulnerabilities in the backlog the backlog the backlog Reporting to Business line based Reporting to Business line based on Risk on Risk level, Burn-down rate level, Feedback loop to dev Insights and strategic action based on the on what to fix first. Systemic Changes vulnerability observed based on Security Feedback loop to dev insights on what to fix first.Systemic Changes based on Security insights



Measuring Progress

AGGREGATION/ **DETECTION ACTION PRIORITIZATION MEASUREMENT DEDUPLICATION** M3 **M5** M2 M4 M1 MO Number of No measurement SLA per criticality SLA per criticality Mean time to Number of vulnerabilities/ resolution/MTTR vulnerabilities SLA Risk based SLA Risk based No tracking **Vulnerability Severity** SLA per criticality Mean time to resolution Users Stories vs Security balanceFalse Security Positive/Exception Security backlog rateSecurity insights burndown SLA Risk based ,False Positive/Exception rate Technology Insights Security OKR Security Insights Build vs Fix stories Localized insights (per business application)

KPI Reporting Abstraction Organizational) 643//S Business/ Team Technology/Security/Engineering

- Scorecards
- Risk Level
- Fix time/ Build time
- Regulation impact
- Financial Impact

KPI

- Application/ Service Risk
- Trendline, Fixing vs building
- Critical alerts, SLA breach

KPI

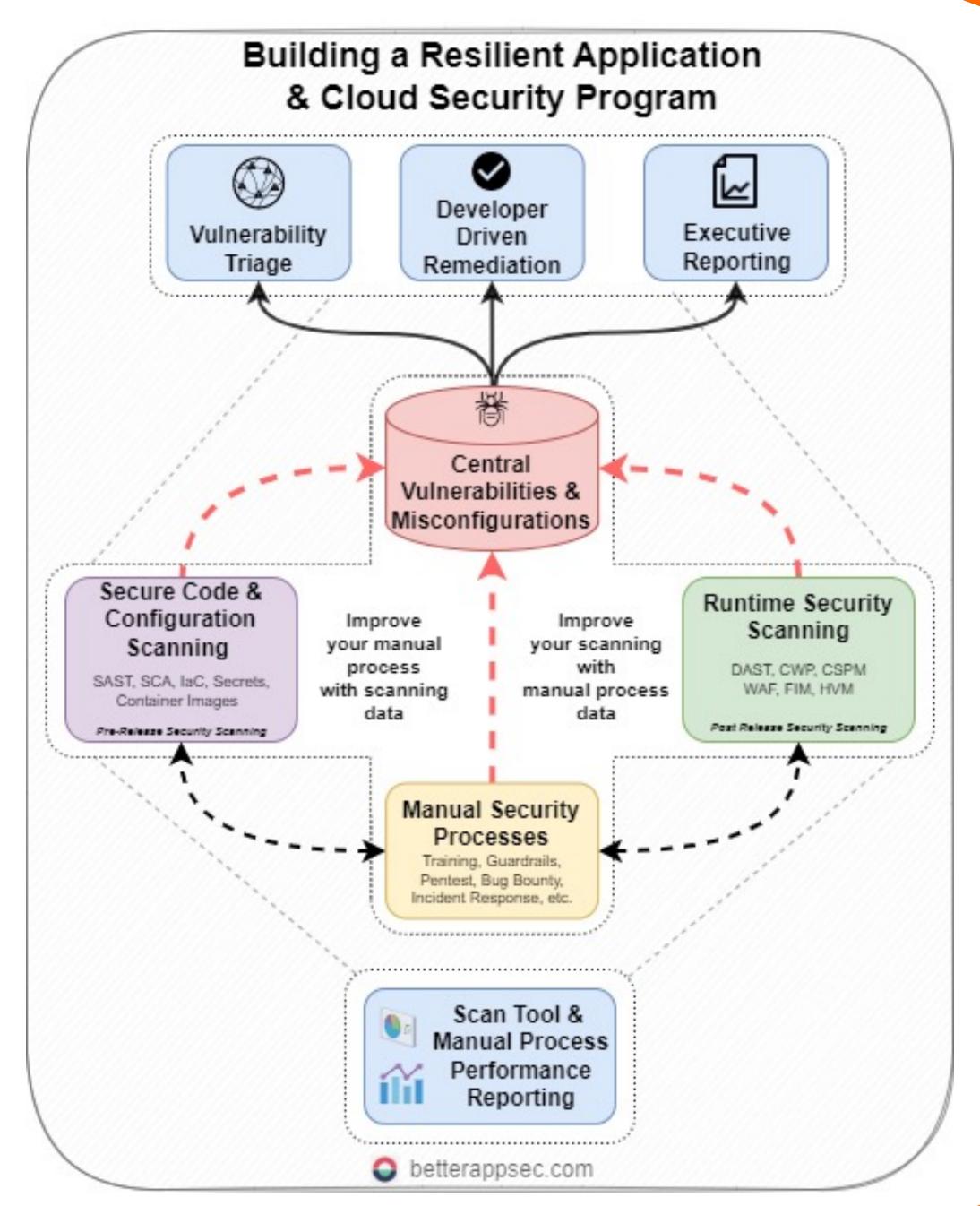
- Vulnerability trending by categories
- Vulnerability categories trending
- Ticket open/Closed (MTTR, MTTO)
- Most critical vulnerability, assets



CENTRALIZE RESULTS/ MEASURE LEFT AND RIGHT

Security Scanning

- Left (code pre deploy)
- Right, Post build
- Manual Ops



@FrankSEC42

Light at the end of the tunnel

There is a light at the end of the tunnel

- > Identify issue
- > Decide Maturity level and setup process, procedure tooling
- > Collaborate & sit down with teams
- ➤ Talk with business shift up
- ➤ Talks with the dev shift left
- > Vulnerability management Framework



ACT NOW ON RISK

& FIX VULNERABILITIES

PHOENIX

Posture Management For Cloud & Application Security

Vulnerability management framework material

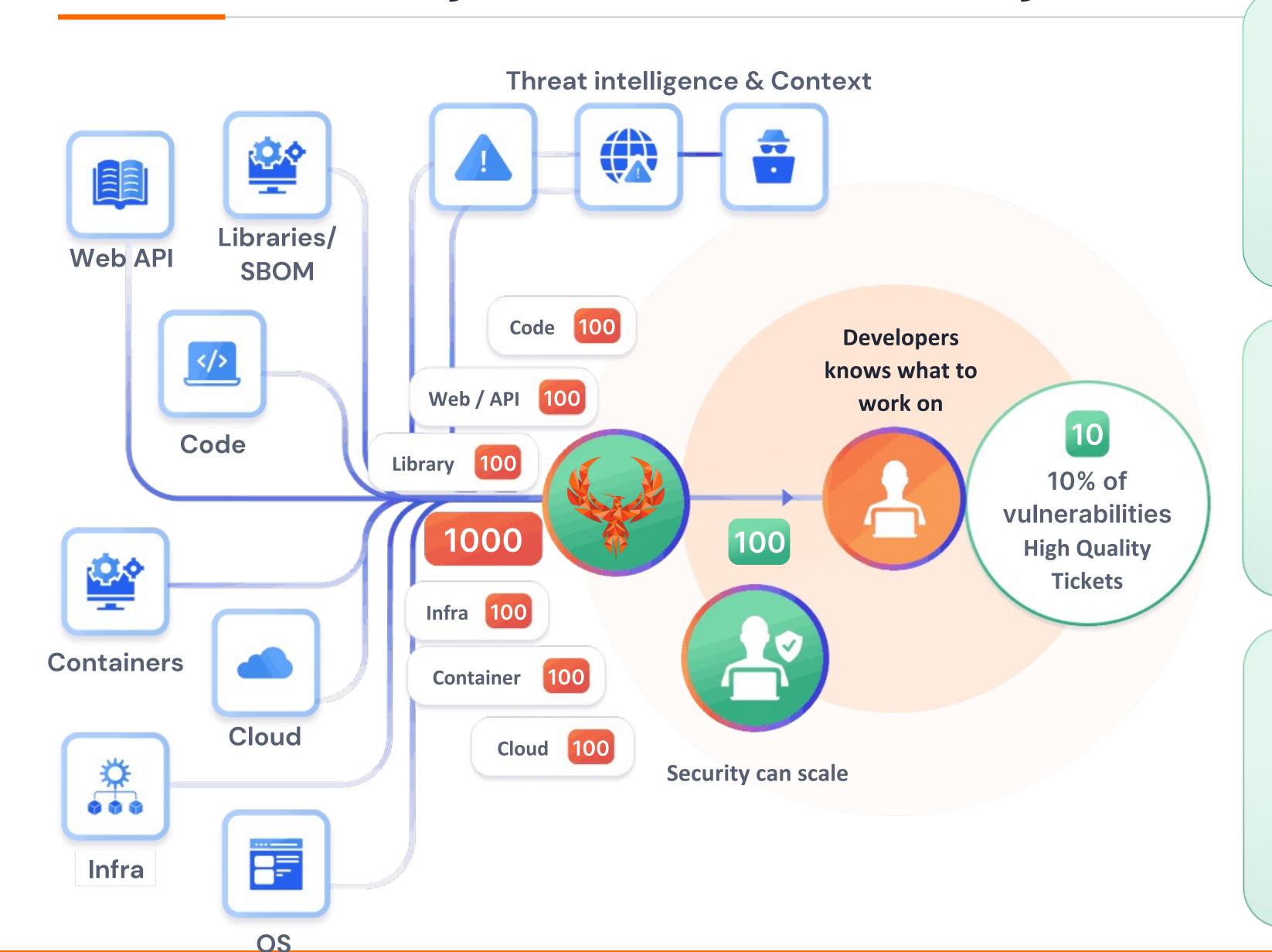
https://phoenix.security/vulnerability-management-framework/



BUILDING RESILIENT APPLICATION AND CLOUD SECURITY PROGRAMS



Phoenix Security – Narrative on security





AGGREGATE & CONTEXTUALISE VULNERABILITIES



REMOVE MANUAL ACTIONS, TRIAGE AUTOMATICALLY



REMOVE INEFFICIENCIES PRIORITIZE ACTIONS NO BURNOUT

OWASP License -

We love OWASP Community Edition Available





350 Organizations







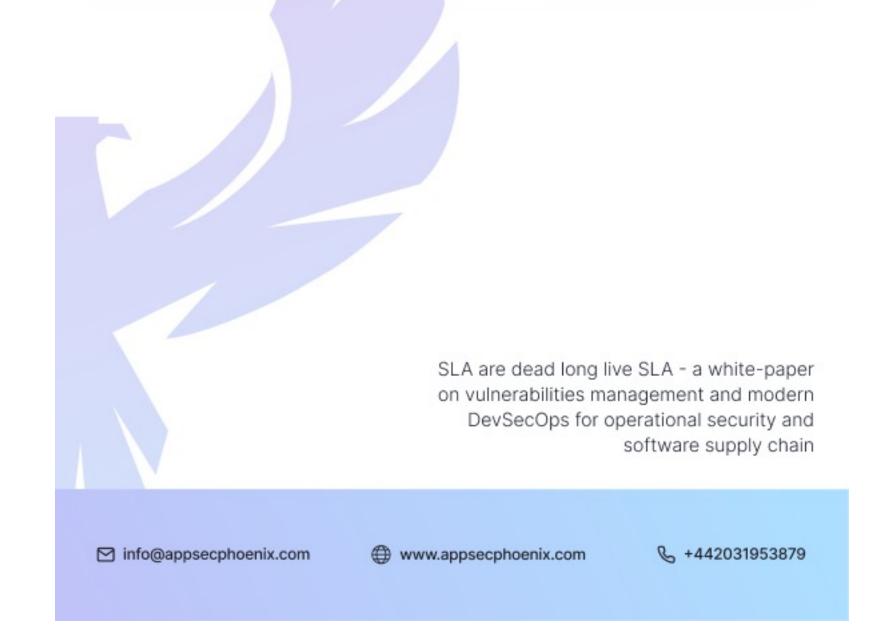
SMART APPLICATION SECURITY



New Book on metrics that matters



SLA ARE DEAD LONG LIVE SLA DATA DRIVEN APPROACH **ON VULNERABILITIES**





in https://uk.linkedin.com/in/fracipo

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Thank you

Cyber Security & Cloud Podcast

By Francesco Cipollone

#CSCP

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\$ 1.780 K PROGRAM COST

1800 DAYS

226.6 K PROGRAM COST

Removing Manual work to automate, scale more effectively security teams

Without AppSec	
Phoenix	

12X **FASTER** CHEAPER

150 DAYS

*DevSecOps average daily rate 500\$, Dev average daily rate 300\$

