RS/Conference2019

San Francisco | March 4–8 | Moscone Center



SESSION ID: SPO2-T09

Making Security a Competitive Advantage

Sam King

CEO
Veracode
@samskritiking

Chris Wysopal

Founder and CTO Veracode @WeldPond

RS/Conference2019

By 2050

3 billion more people on Earth

50% increase in food demand







CHANGE THE WOIRLD

BOLDLY

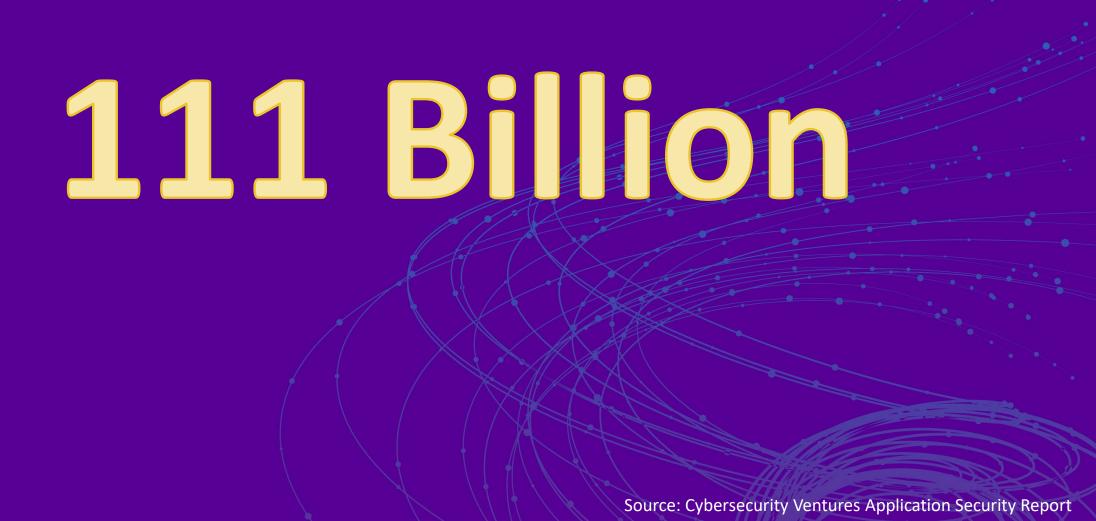
#RSAC



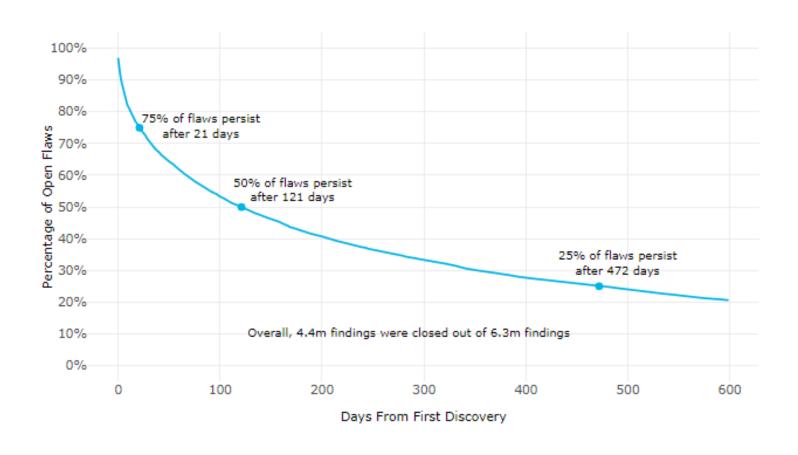
RSAConference 2019 The World's Software is Insecure

When first tested **78%** Fail to pass OWASP Top 10 85% Release software Have at least one vulnerability without testing for JAVA apps have at least one 87% security vulnerable component

RS/Conference2019



FLAW PERSISTENCE ANALYSIS





Cyberattacks occur across the entire global marketplace, and no industry is spared from its costs:

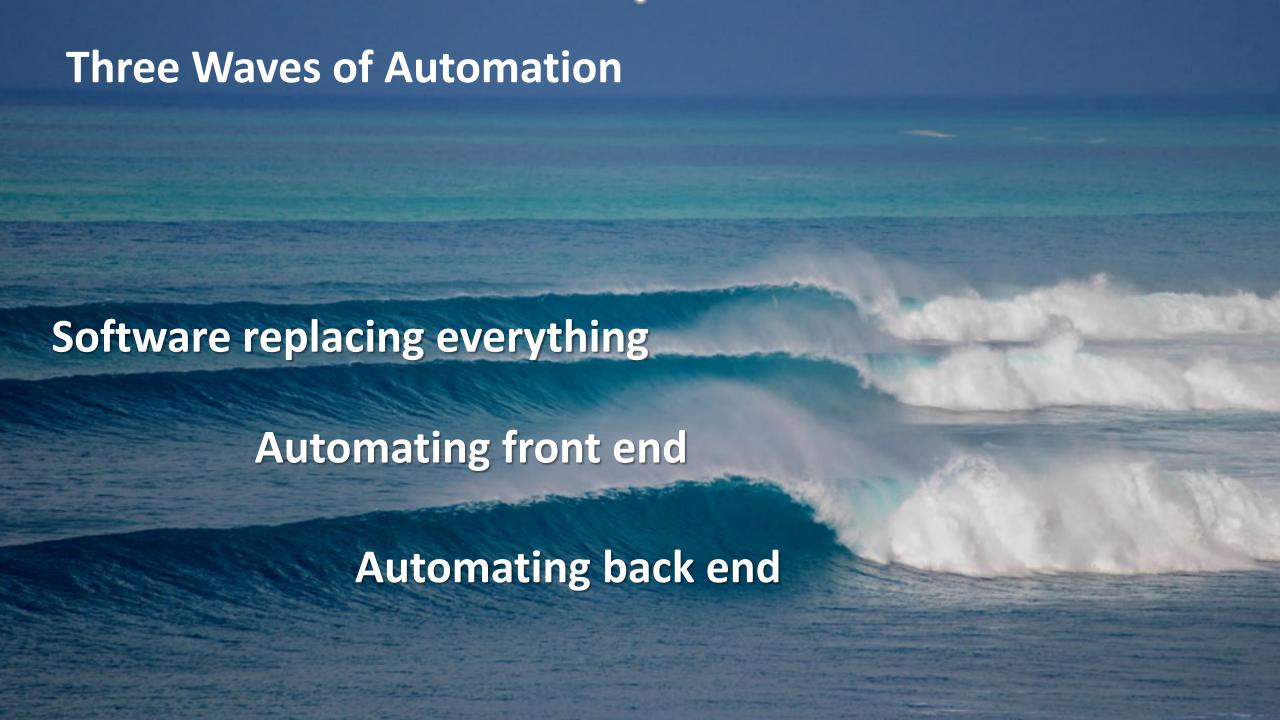
ANNUAL COST PER FIRM (IN MILLIONS)



Source: Accenture Security's Cost of Cyber Crime Study



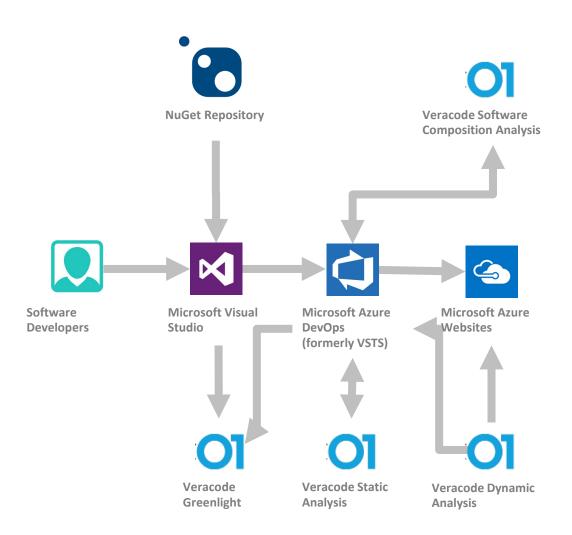


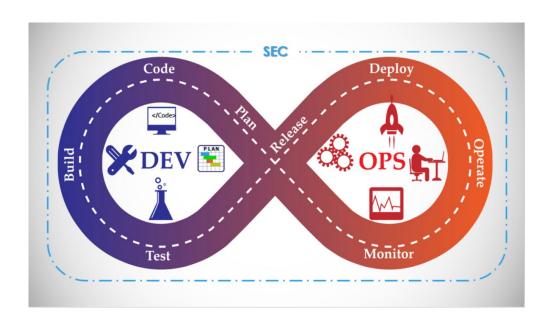




DEVSECOPS BOLDLY









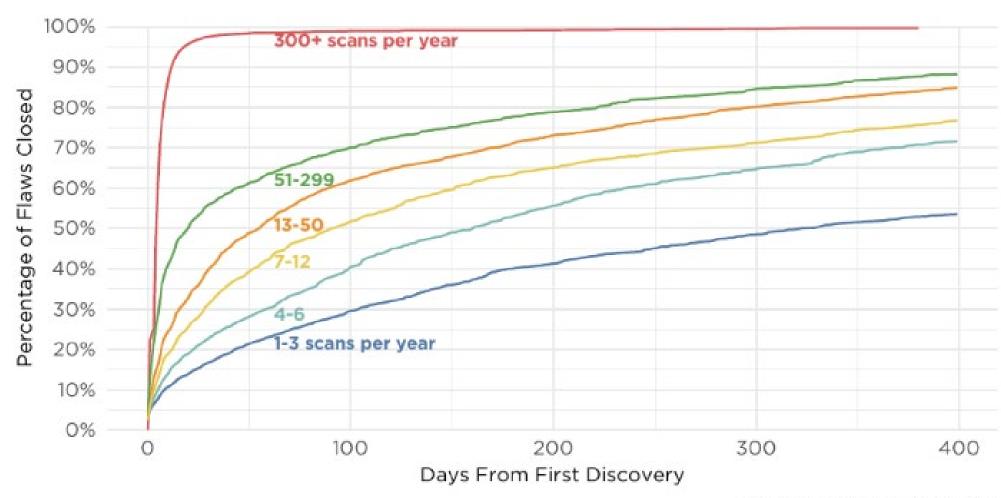
3 Keys to DevSecOps

- Automate Security Testing
- Integrate into Developer Tools
- Facilitate Fixing



RS/Conference2019





Source: Veracode SOSS Volume 9



EFFECT OF SCAN FREQUENCY ON FLAW PERSISTENCE INTERVALS



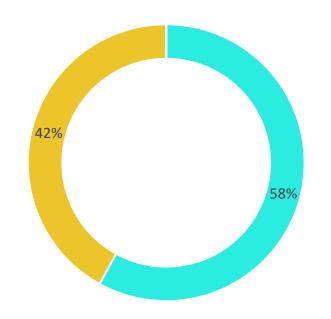




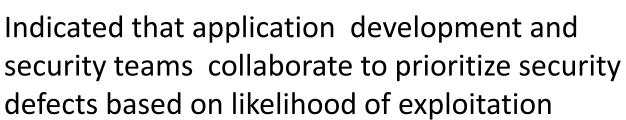
CHAMPION BOLDLY

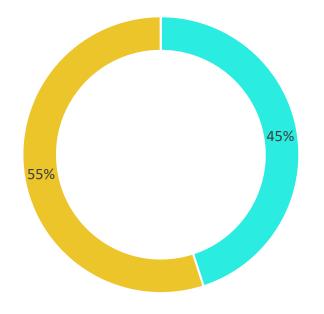


DevSecOps shift is already changing the nature of the security-development relationship



Indicated that the security team regularly participates in daily scrums and planning meetings





Source: Veracode AppSec and DevOps Trends Report



What does a security champion do?

- Education. Staying up-to-date with the latest practices through ongoing training with security
- Inspiration. Raising awareness of security issues within the development team
- **Review.** Reviewing code for security issues
- **Escalation.** Acting as the point person to elevate an issue for the security team to review
- Resource. Answering developer team questions about secure coding practices
- Sharing. Connecting with other security champions throughout the organization to share ideas and tips





What a does a developer champion do?

	NEW SKILL REQUIREMENTS
Enable developers to find and fix security-related code defects	Ability to provide remediation coaching and guidance on security-related code defects
Govern the use of open source components	Basic understanding of application development and why and how third-party components are used
Implement developer training on secure coding	Understanding of the basics of software development
Manage and report on application security policy, KPIs and metrics	The ability to measure meaningful metrics at each point in the SDLC process
Understand the requirements for security testing solutions in a DevSecOps environment — including the need for immediacy and accuracy of results to avoid impacting the delivery cycle — and enable dev to use these solutions	Basic understanding of developer role and tools, and the operation of a modern software delivery pipeline/factory
Create developer security champions	Be empathetic and consultative



Creating Developer Champion

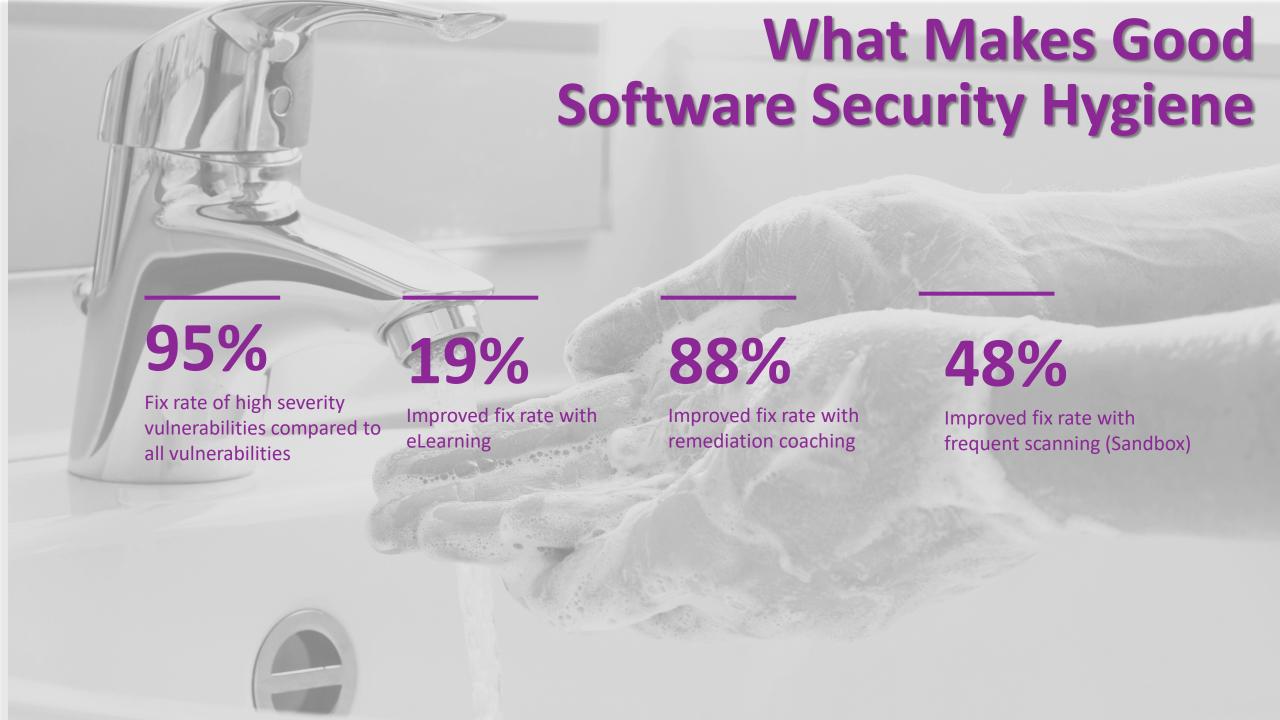
- Spend time in scrum and sprint meetings
- Develop a basic understanding of coding
- Learn how developers are using open source components
- Gain a firm grasp on development processes





OPERATE BOLDLY





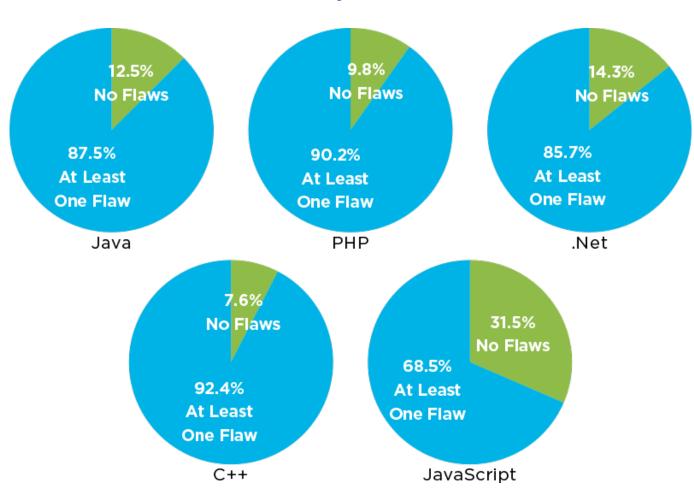
AT LEAST ONE FLAW IN A COMPONENT, BY LANGUAGE

75%

More than application is made of components

28%

Conduct software composition analysis



Source: Veracode State of Software Security V9



COMPETE

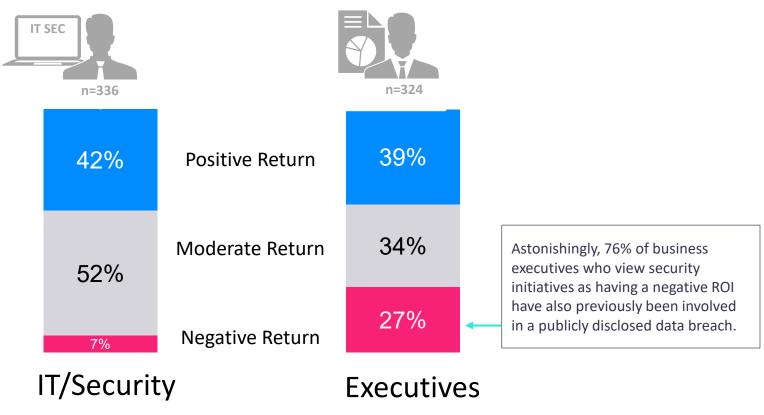
BOLDLY



Global top ten risks for doing business	
1	Unemployment or underemployment
2	Failure of national governance
3	Energy price shock
4	Fiscal crises
5	Cyber-attacks
6	Profound social instability
7	Failure of financial mechanism or institution
8	Failure of critical infrastructure
9	Failure of regional and global governance
10	Terrorist attacks

Business Execs more likely to think security has a negative ROI

How Organizations
Perceive Security
Initiatives



Base: All Business Respondents (n=1650)

Q22. When it comes to security of consumer data, do you perceive security initiatives as a...?



Customers are Concerned About Your Software Security



Concerned about sharing data with businesses

IPOS-MORI Study



Have taken steps to reduce exposure online

IPOS-MORI Study



Have dropped a service after a publicized breach*

CA Digital Trust Survey

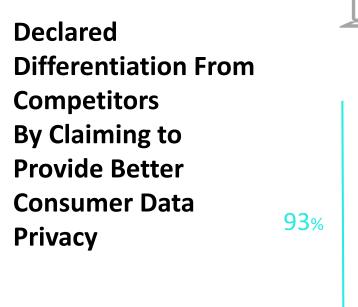


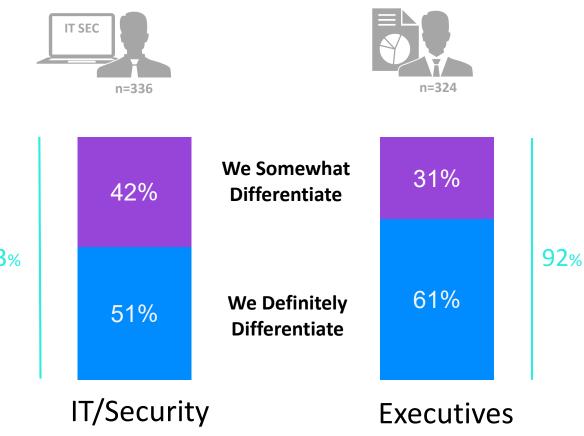
Organizations include security requirements into contracts

IDG Survey Report on Security as a Competitive Advantage



Nearly All Organizations Claim They Provide Better Data Privacy Than Their Competitors





Base: All Business Respondents (n=660).

Q34. Does your organization differentiate itself from competitors by claiming to provide better consumer data privacy?



Verify your Security Processes

VERACOIDE

VERIFIED

STANDARD

VERACODE

VERIFIED

TEAM

VERACODE

VERIFIED

CONTINUOUS





ERACODE

You change the world, we'll secure it.

LEARN MORE AT BOOTH N 6161