

OWASP Indonesia Day 2017



Suman Sourav

Director –DevSecOps, Vantage Point Security

About me

- Certified Secure Software Lifecycle Professional (CSSLP)
- 12+ Years of Experience in Software Security
- Co-Founder of DevSecOps Singapore & DevSecCon Asia
- Speakers
 - IoT Asia
 - OWASP Singapore
 - DevOps Singapore
 - Jenkins Singapore
 - Security Conferences in USA, China
 - Trained 4000+ developers and 1000+ QA

Indonesia Information Security

Important numbers



Average financial losses in information security

Indonesia

USD 1.2 million

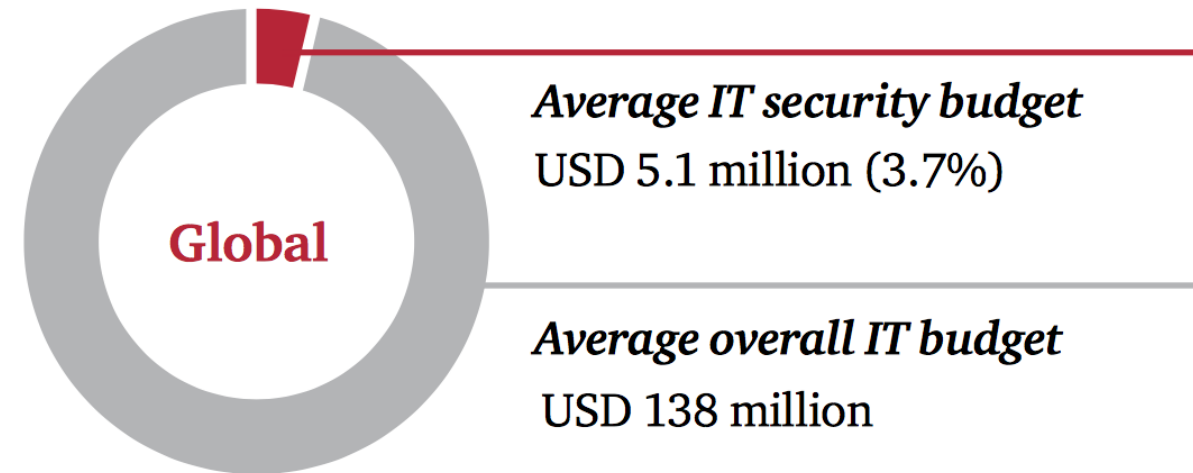
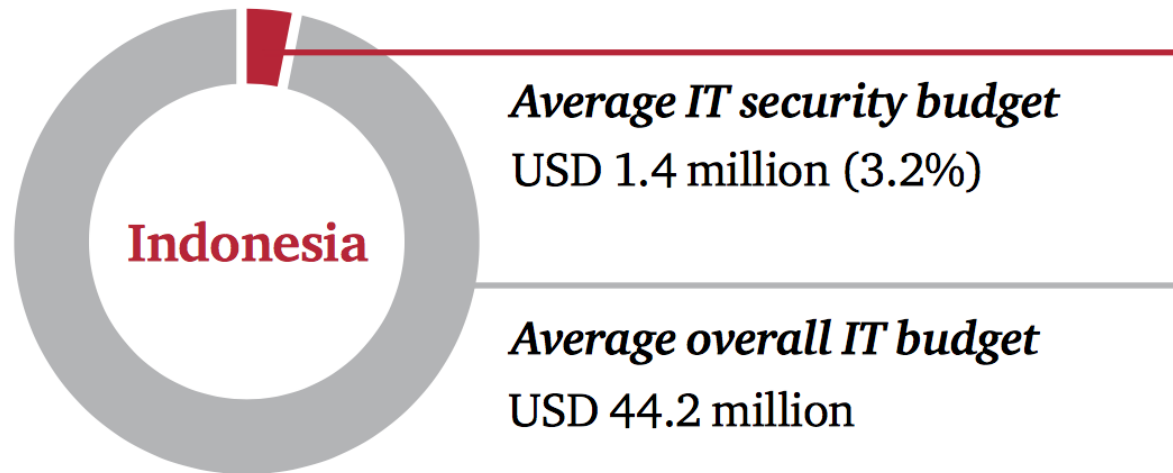
USD 2.4 million

Global

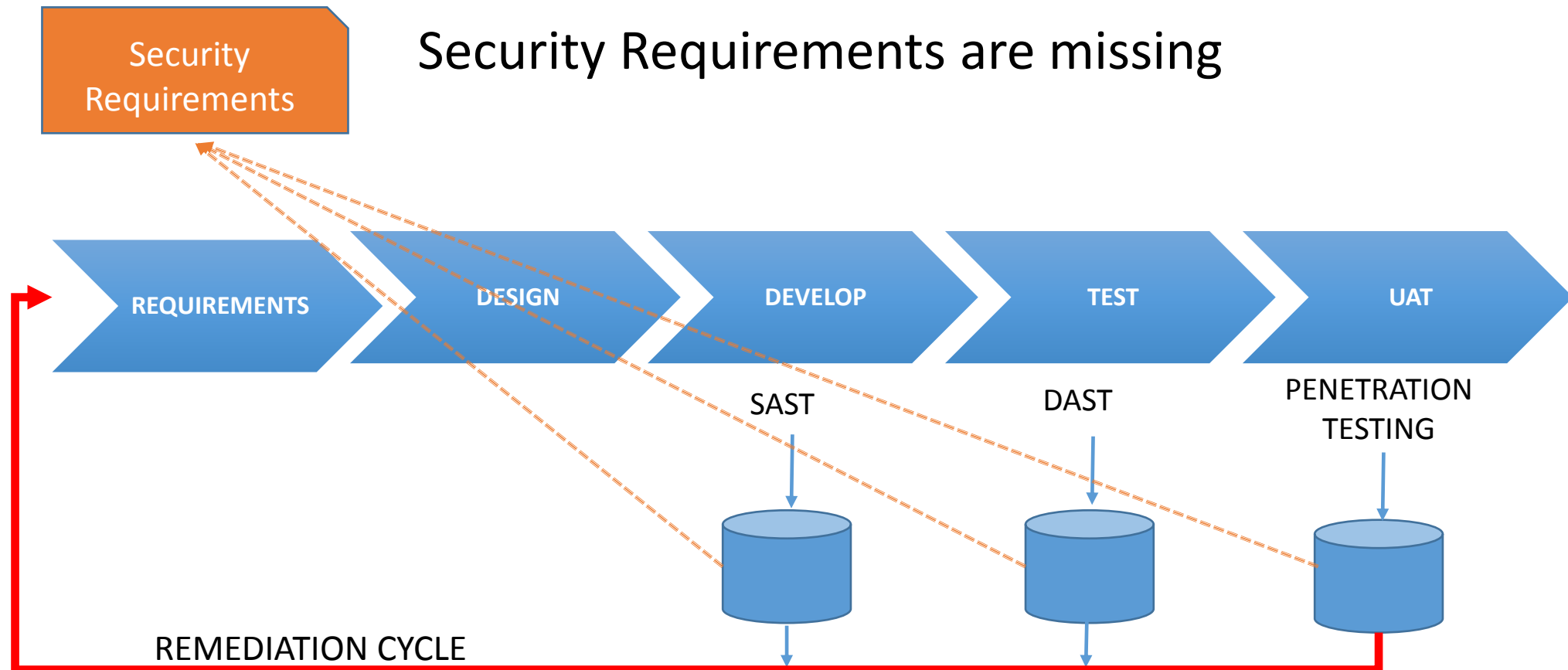
Important numbers



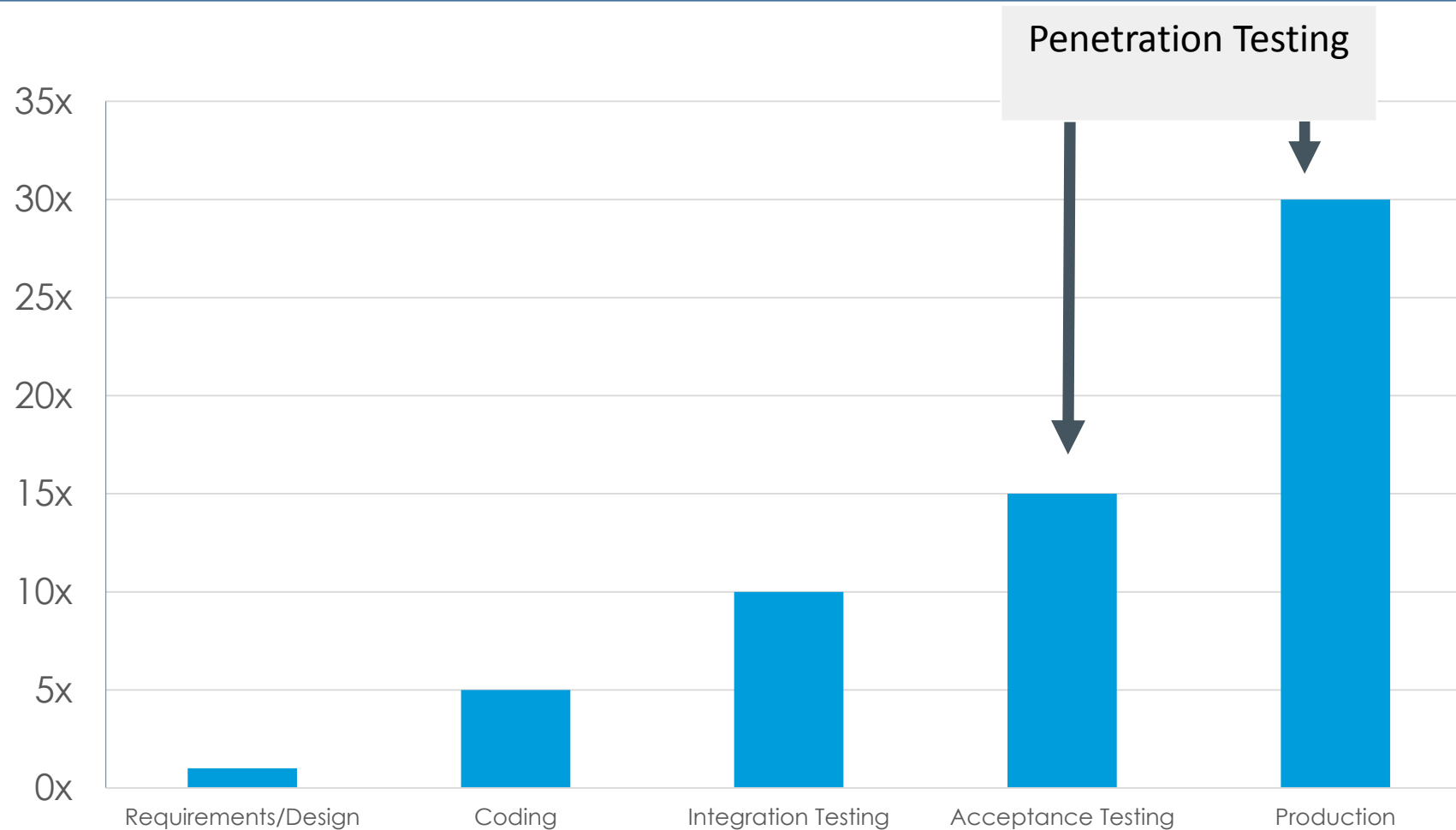
Average IT security budget compared to overall IT budget



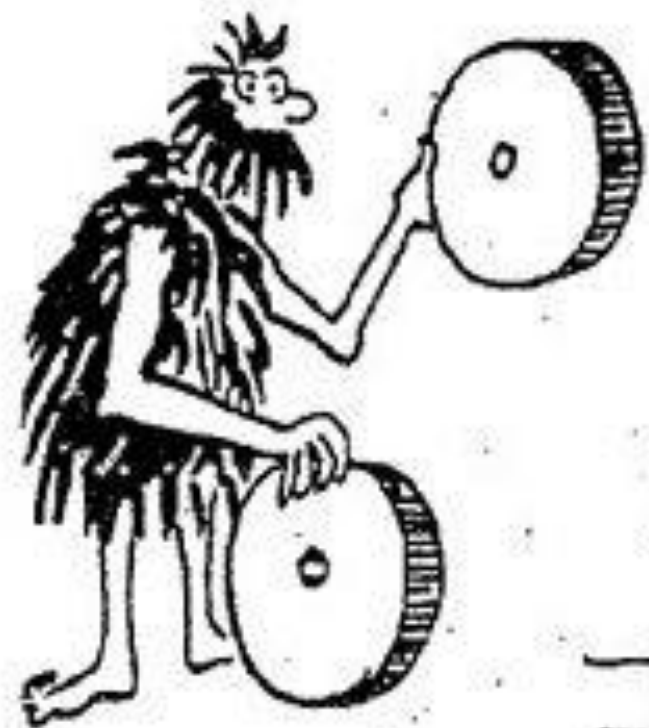
Application Security Approach



Cost of Vulnerability Remediation



■ Relative Cost to fix, based on time of...

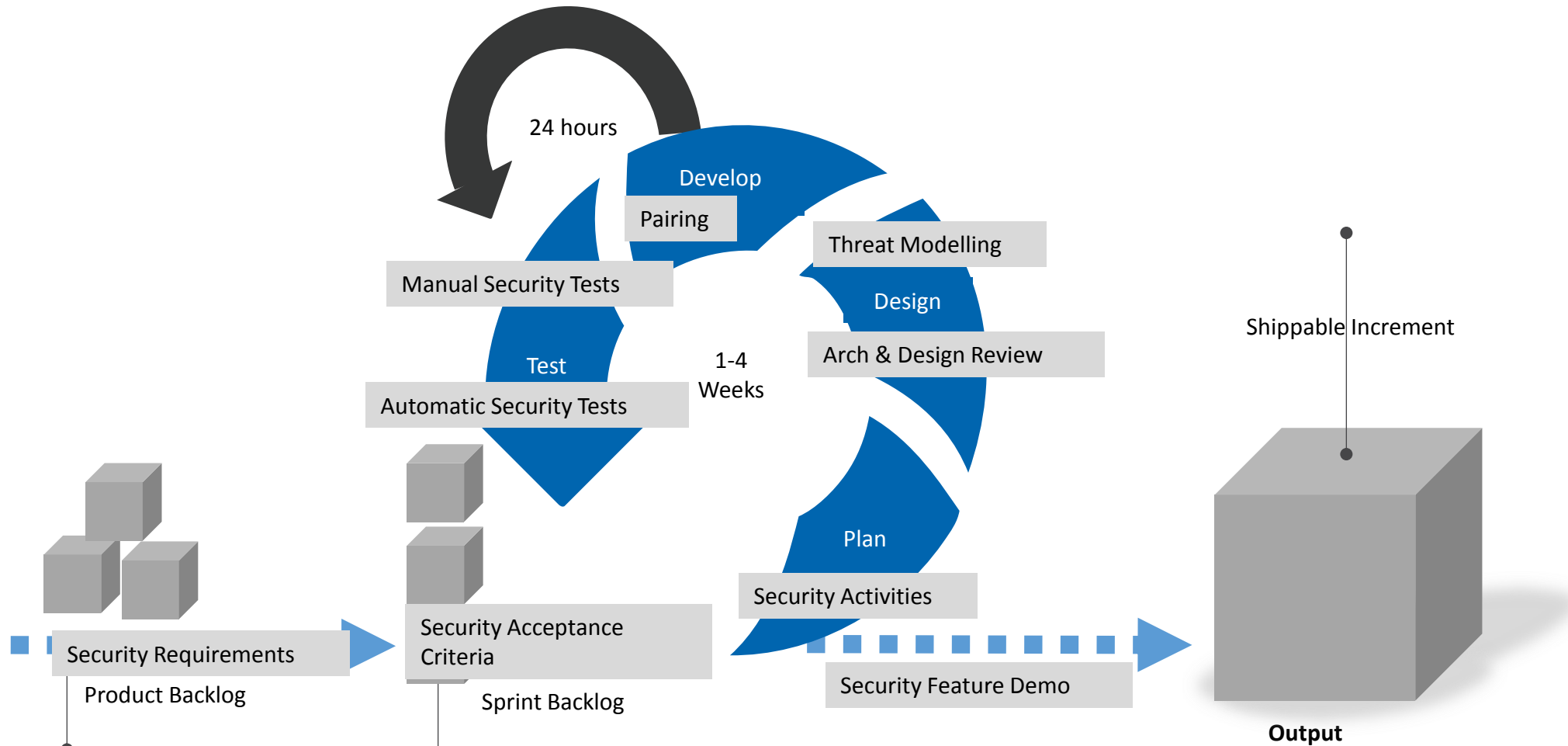


No thanks!

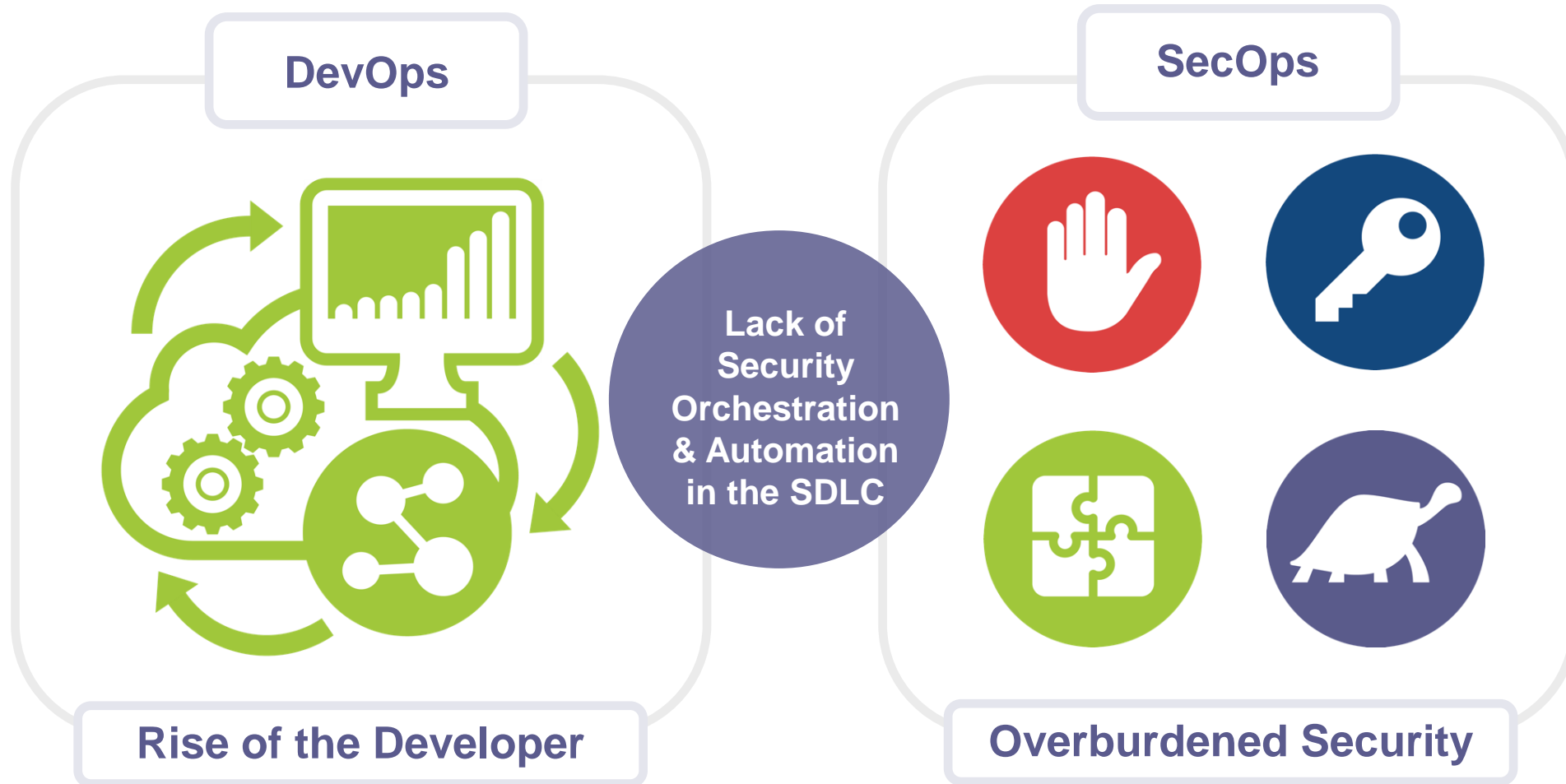
We are too busy

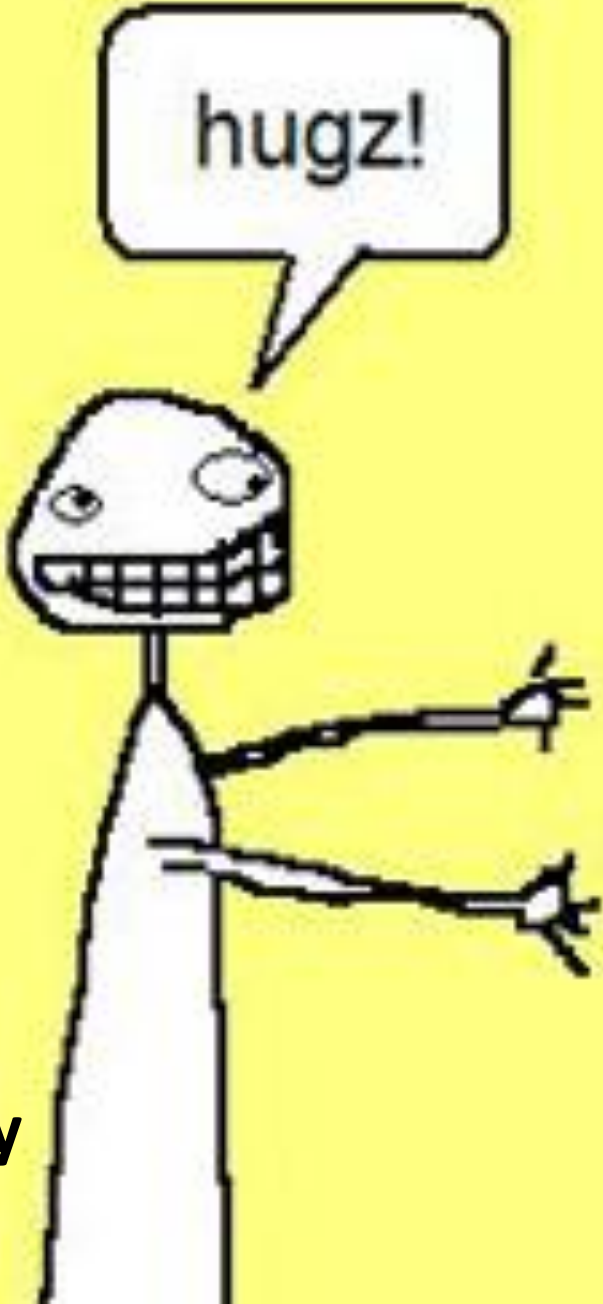


Agile Security



DevOps & SecOps





hugz!

Security



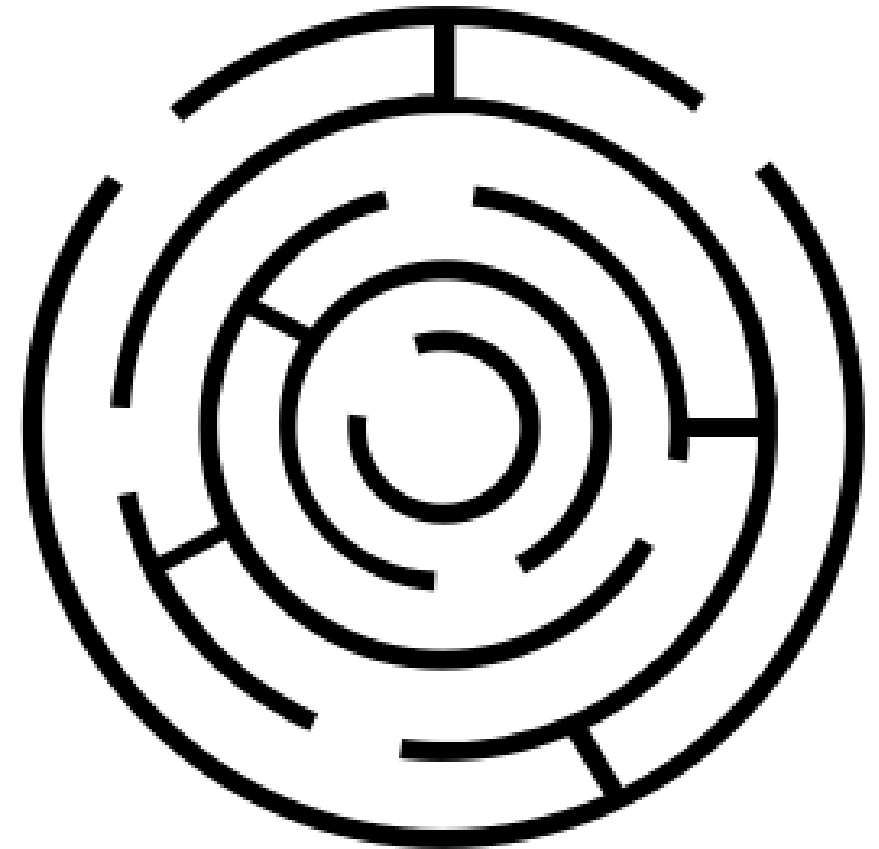
omg so scared

Developer

NO!

Major Challenges

- Shortage of Application Security Resources
- Lack of awareness in the organization
- Influences of technology vendors
- Slow adoption of security tools in development environment
- Lack of education & training
- No application security dashboard

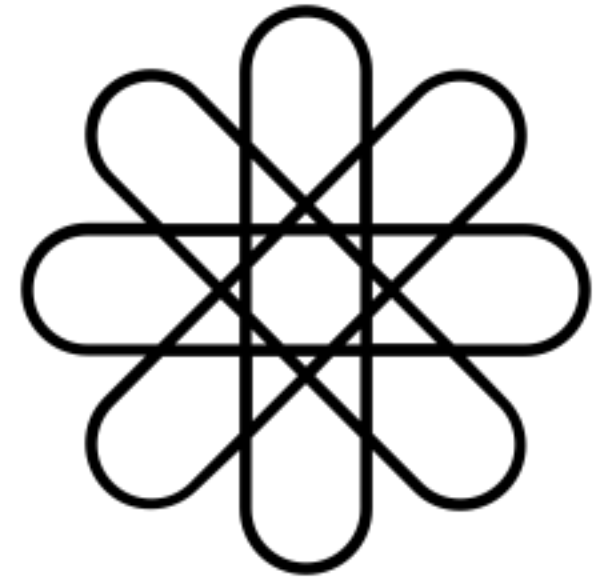




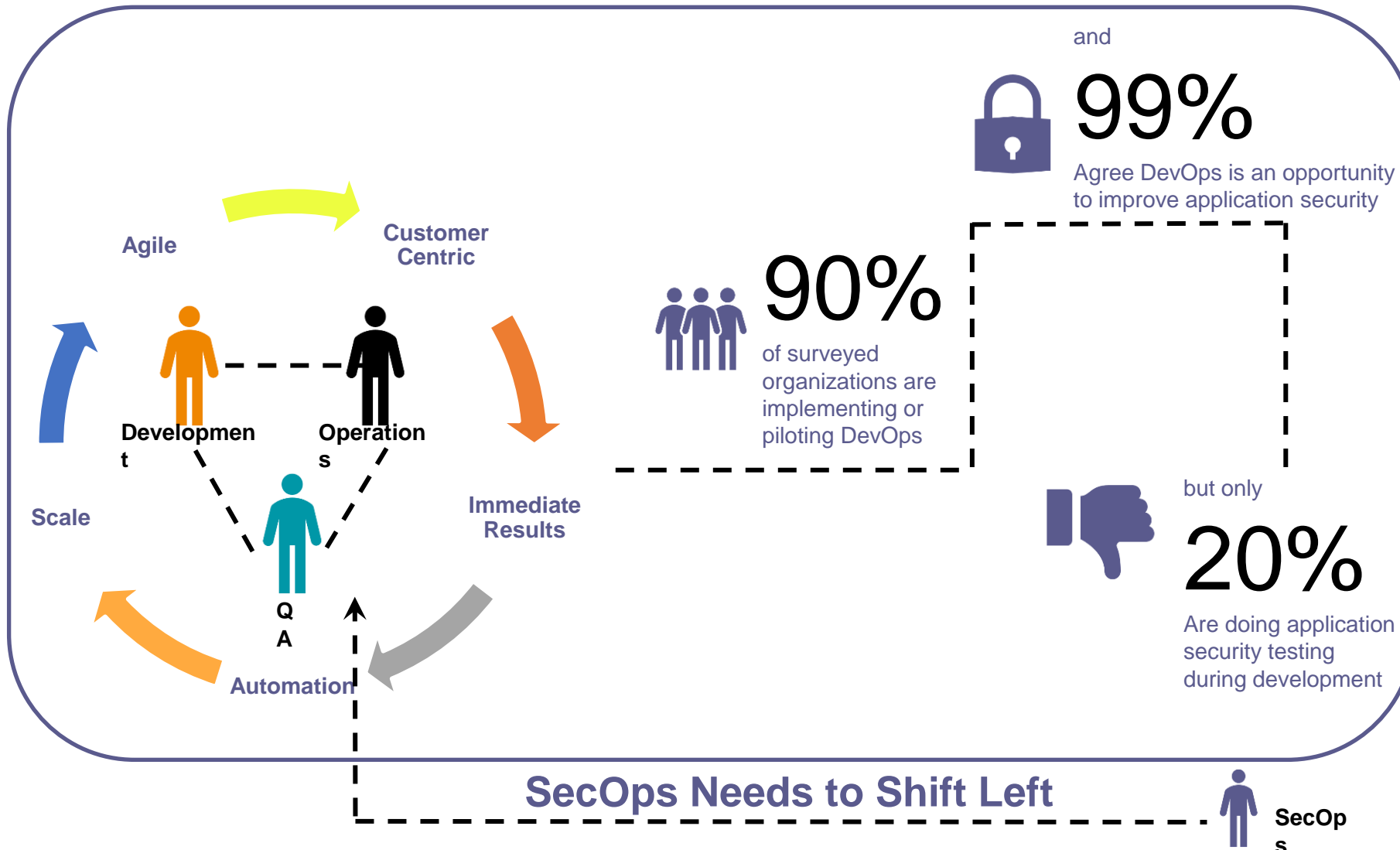
**“What if we don’t change anything at all ...
and something magical just happens.”**

Time to Change Our Approach of Application Security

- Define Security Metrics for Application Security
- Build Internal Resources from Development Team
- Define the Application Security Technology Evaluation Process
- Build the DevSecOps Technology Roadmap
- Adoption of Cloud Security Solution
- Adoption of Security As a Service

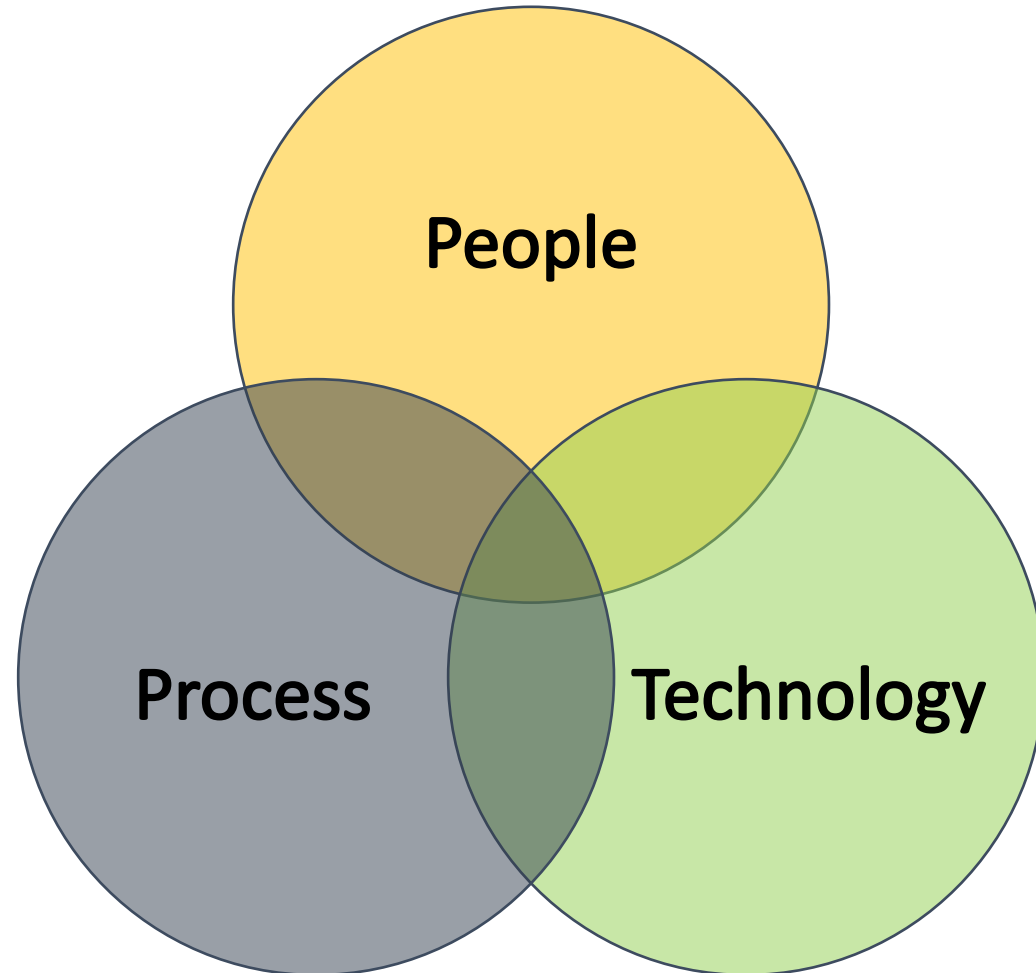


What we need is : DevSecOps



Key Elements

- **People**
 - ✓ Training
 - ✓ Role
- **Process**
 - ✓ Compliance
 - ✓ Certifications
- **Technology**
 - ✓ Security tools
 - ✓ Dev tools



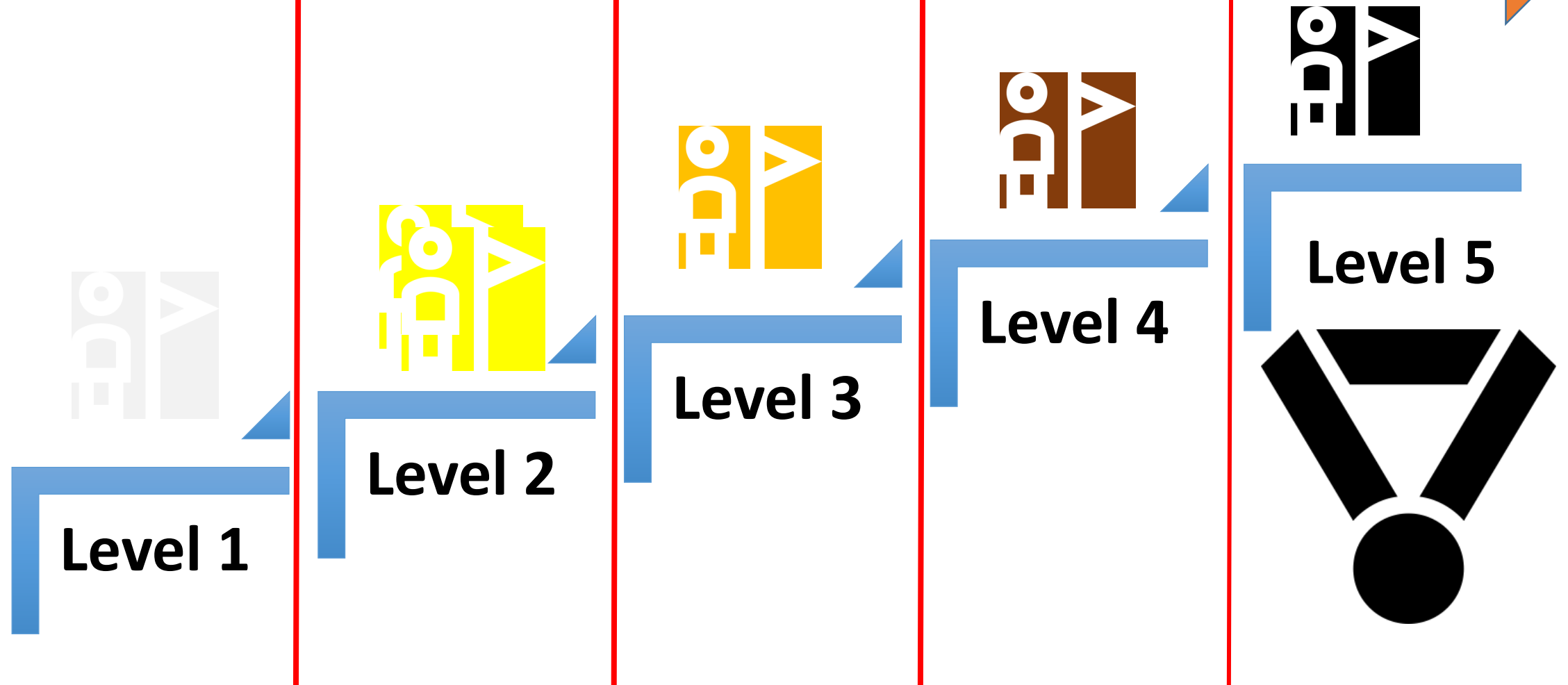
People

Training Approach

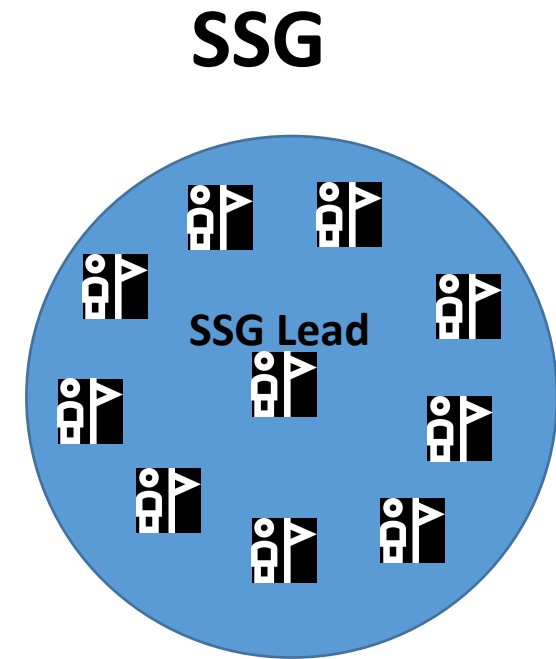
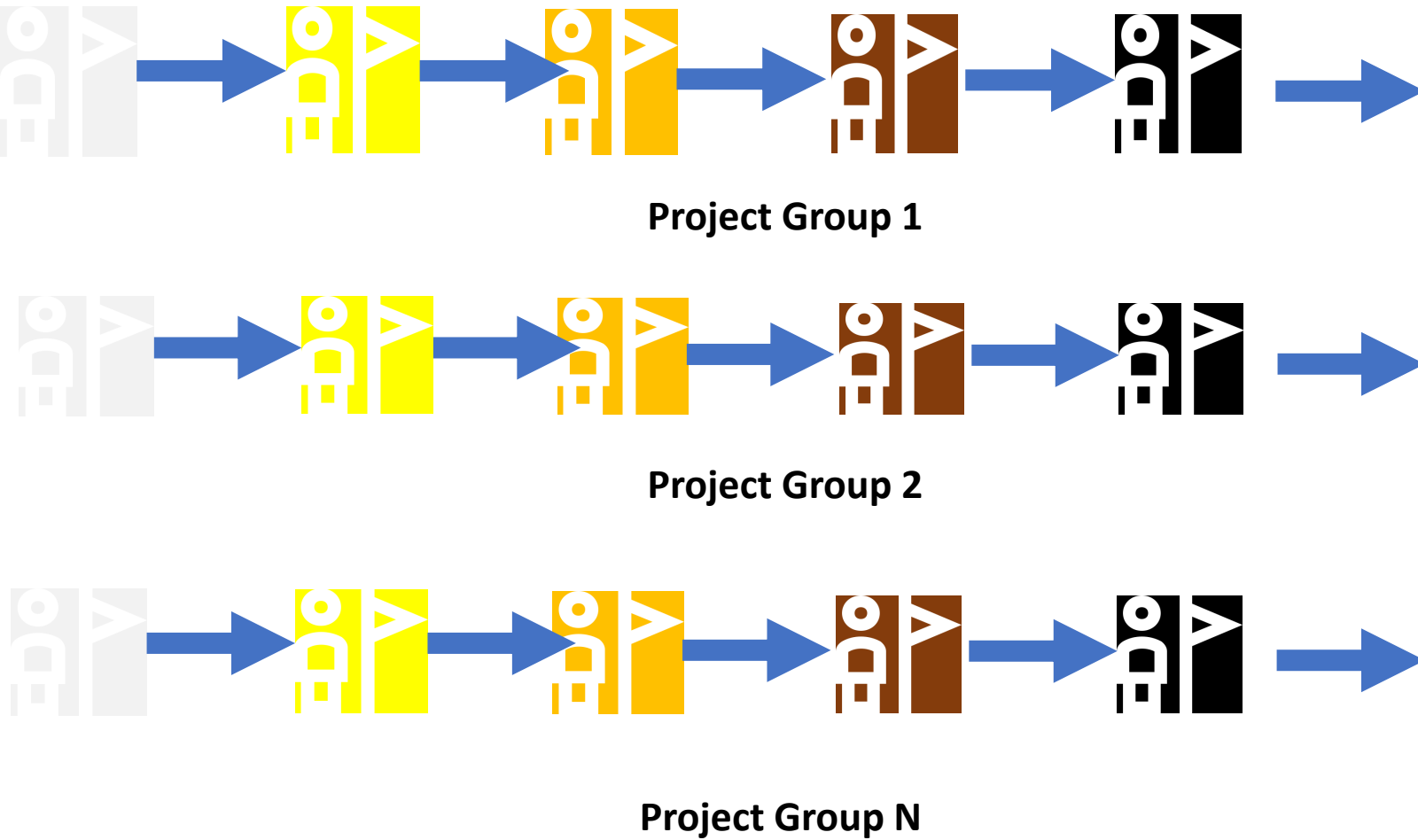
- Culture Change
- ~~Traditional Training~~
 - Shorter Training Duration
 - Integrated in IDE/ALM
- New Joinee Induction Training
- **Product Manager**
 - Secure SDLC
 - Security Requirements
- **Architects**
 - Secure Design Principles
 - Threat Modeling
- **Developer**
 - Secure Coding
 - SAST Tools
- **QA**
 - Security Testing
 - Dynamic Testing Tools
- **Operation**
 - Security Configurations
 - Secure Deployments

Secure Coding Training Program

Security Champion Development Roadmap

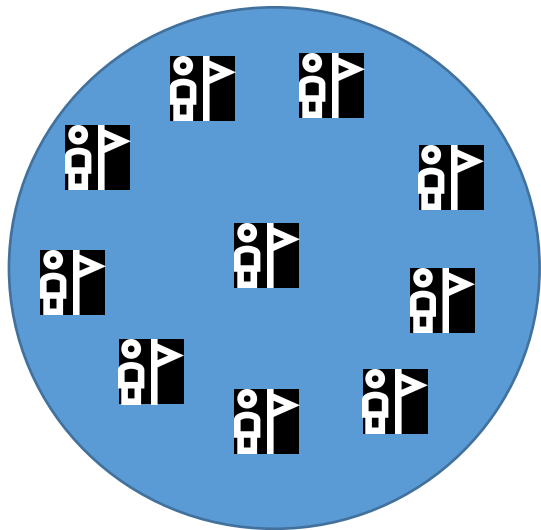


Software Security Group

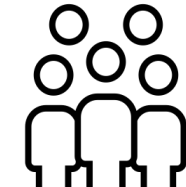
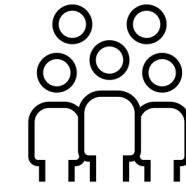


Software Security Group Roles & Responsibilities

SSG



- Security Best Practices
- Security tournaments
- Secure Coding Training
- Security Policy
- Security Process
- Security Technologies
- Security Forum
- Security Events (Internal Conference)
- Security Hackathon
- Security Summits

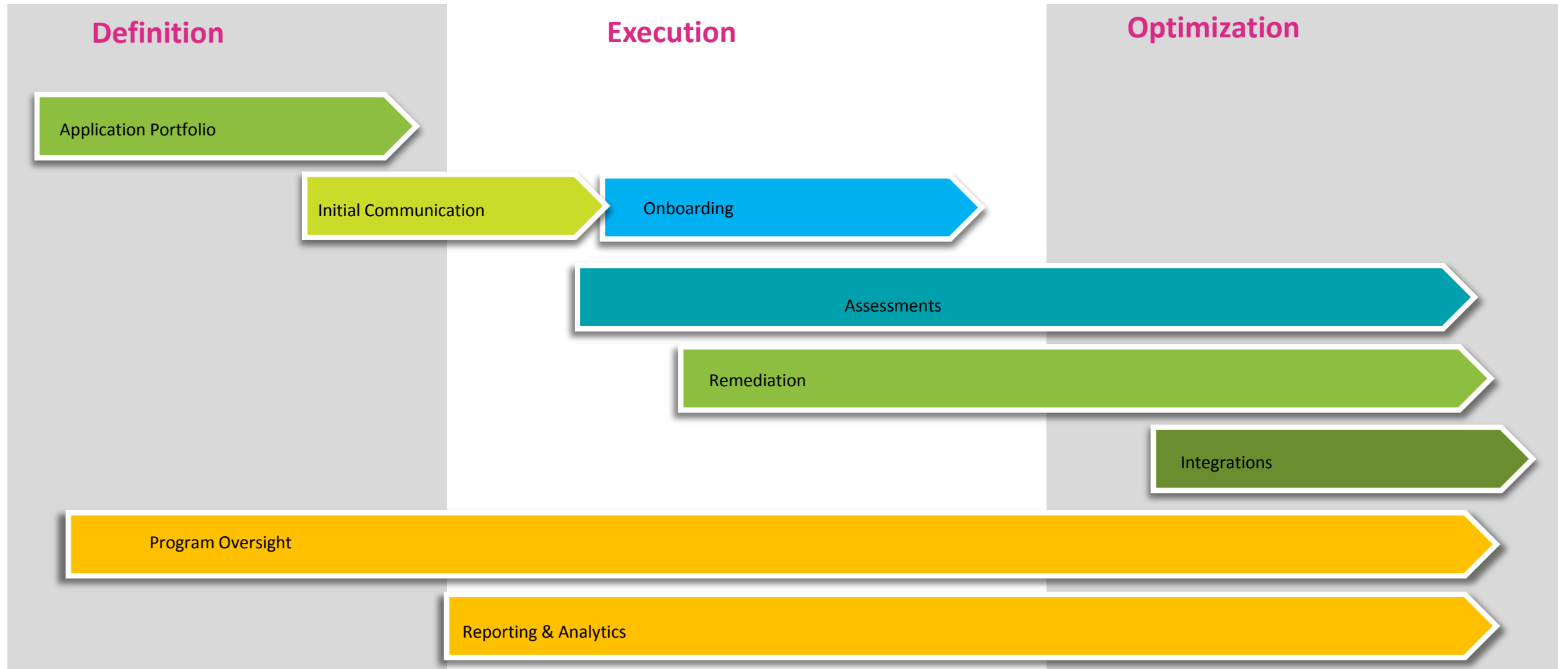




DID WE JUST BECOME BEST FRIENDS?

Process

Appsec Program



ISO/IEC 27034

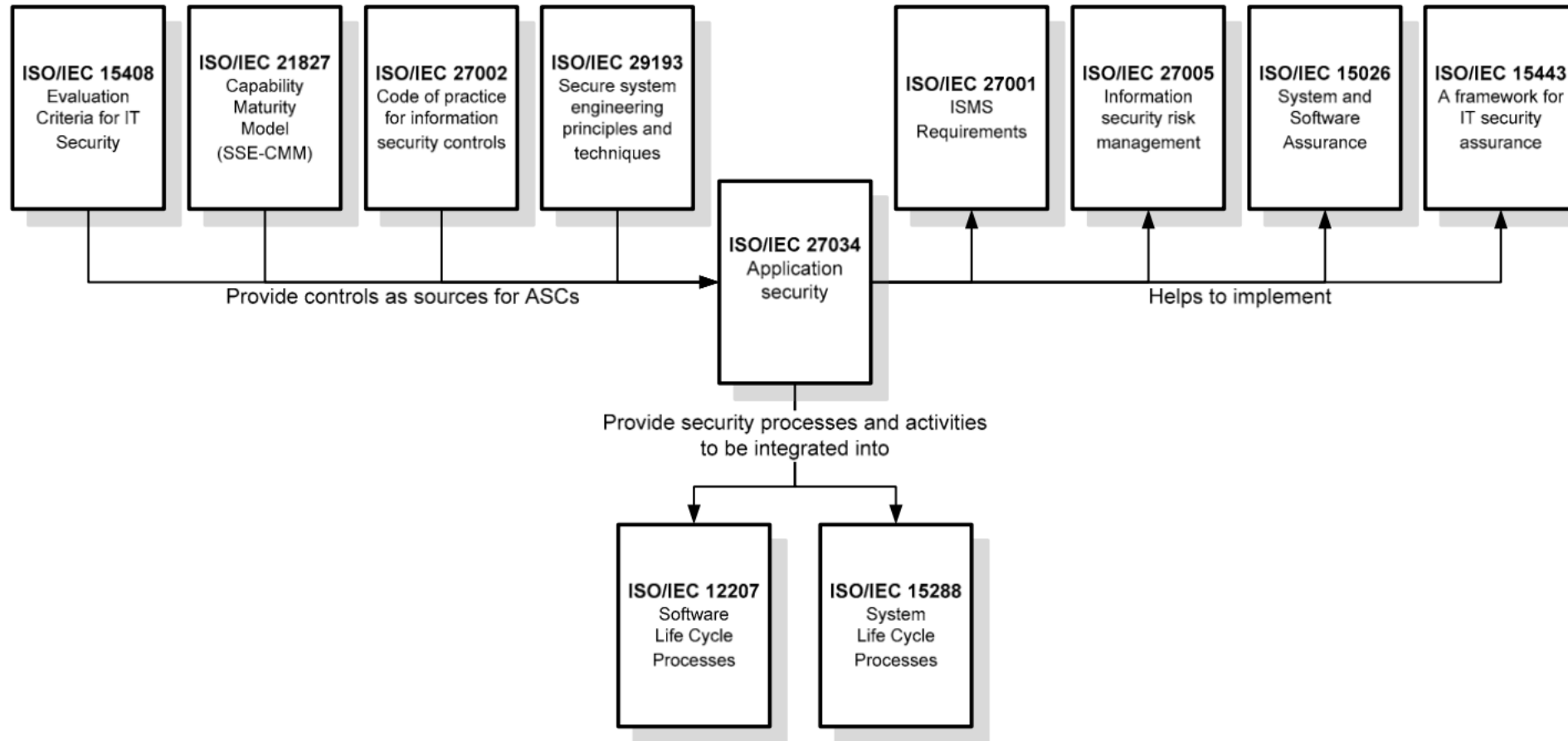
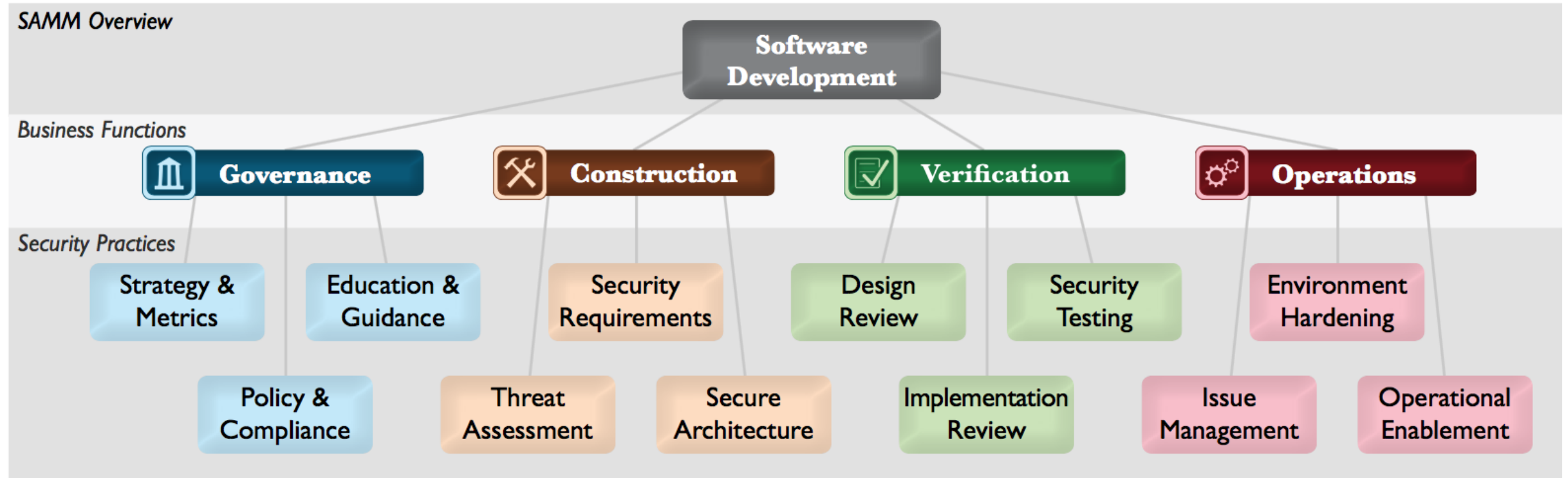


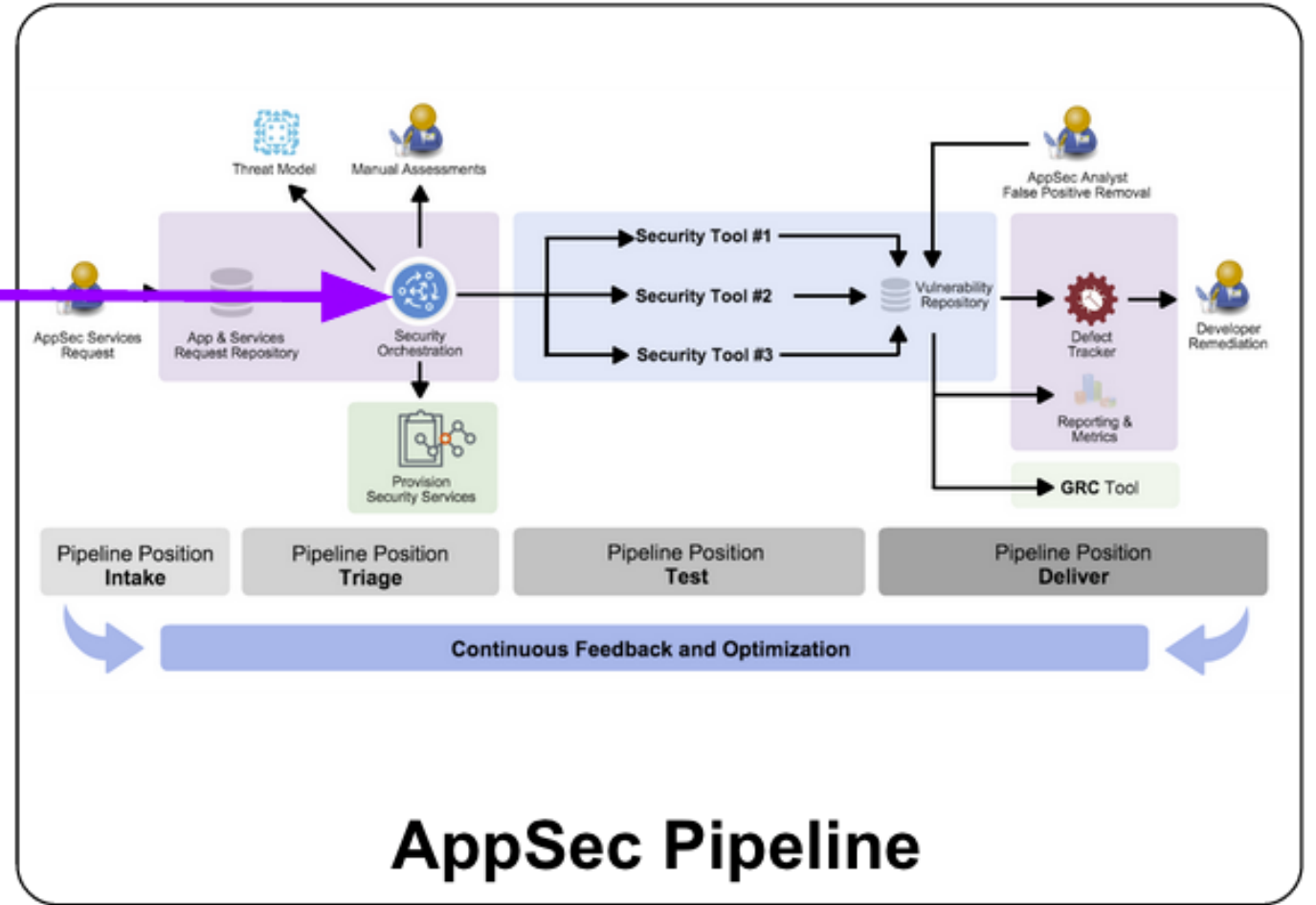
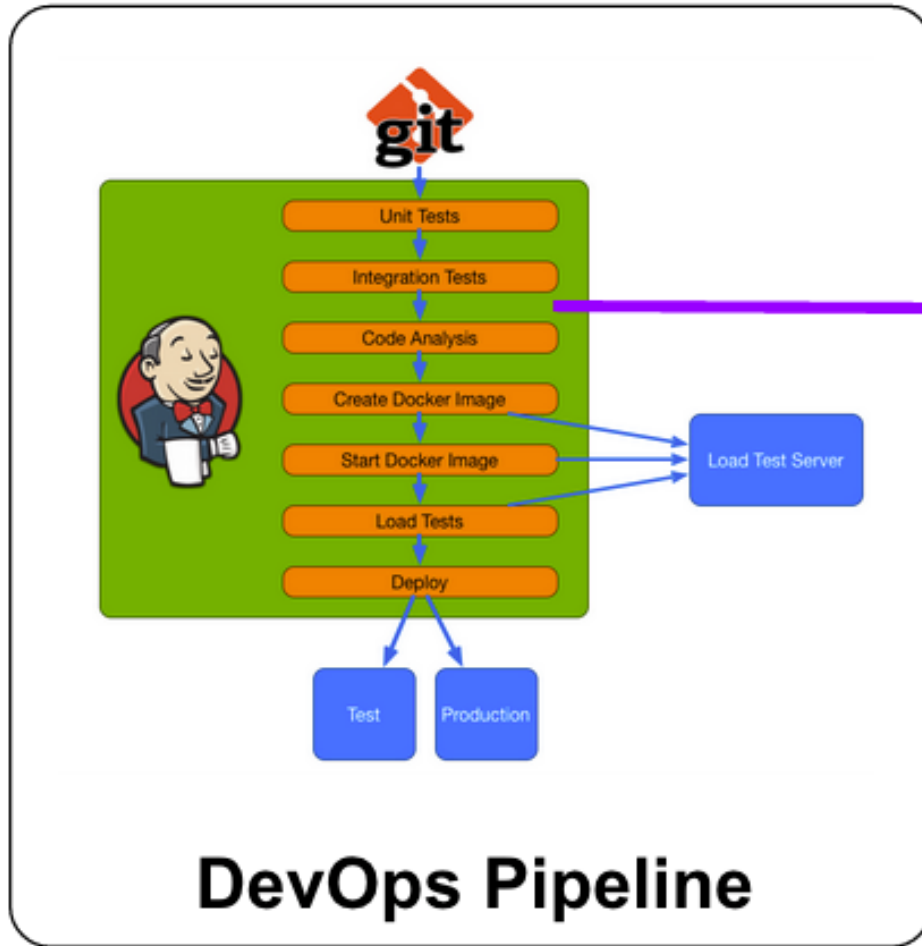
Figure 1 – Relationship to other International Standards

OPEN SAMM

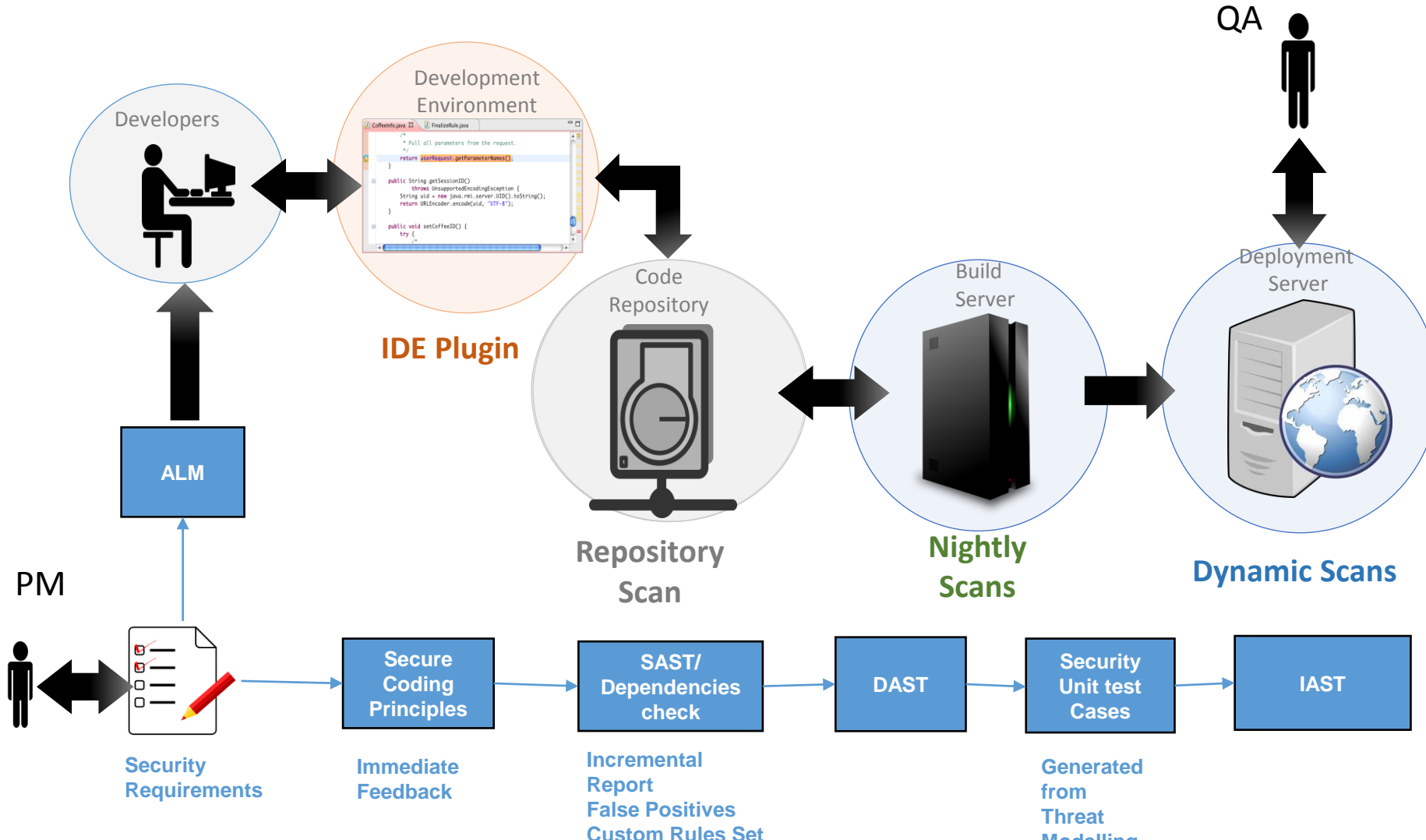


Technology

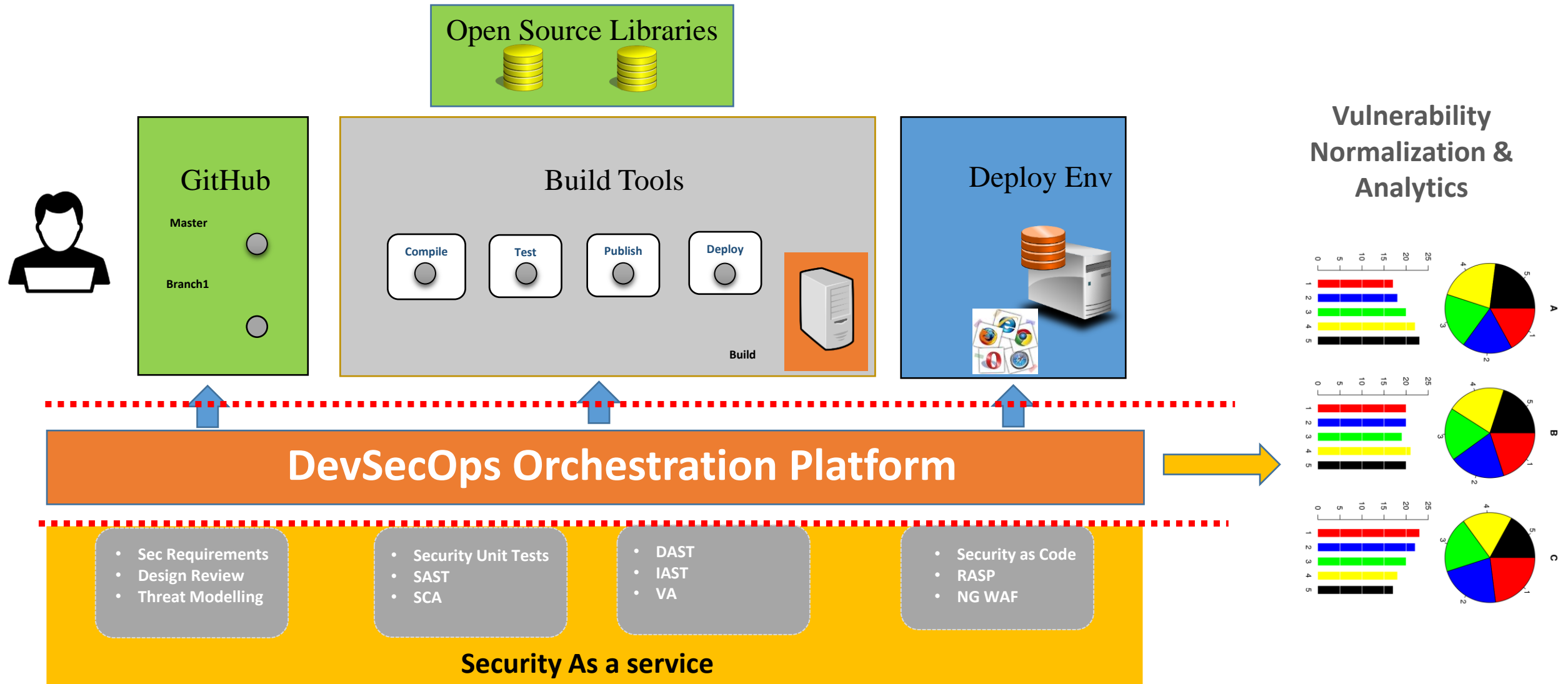
OWASP Appsec Pipeline Project



Application Security Execution from Left



DevSecOps Orchestration





**Coming together
is a
beginning,
working together
is success.**



Q&A

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