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Go Beyond DevSecOps to Continuous Security

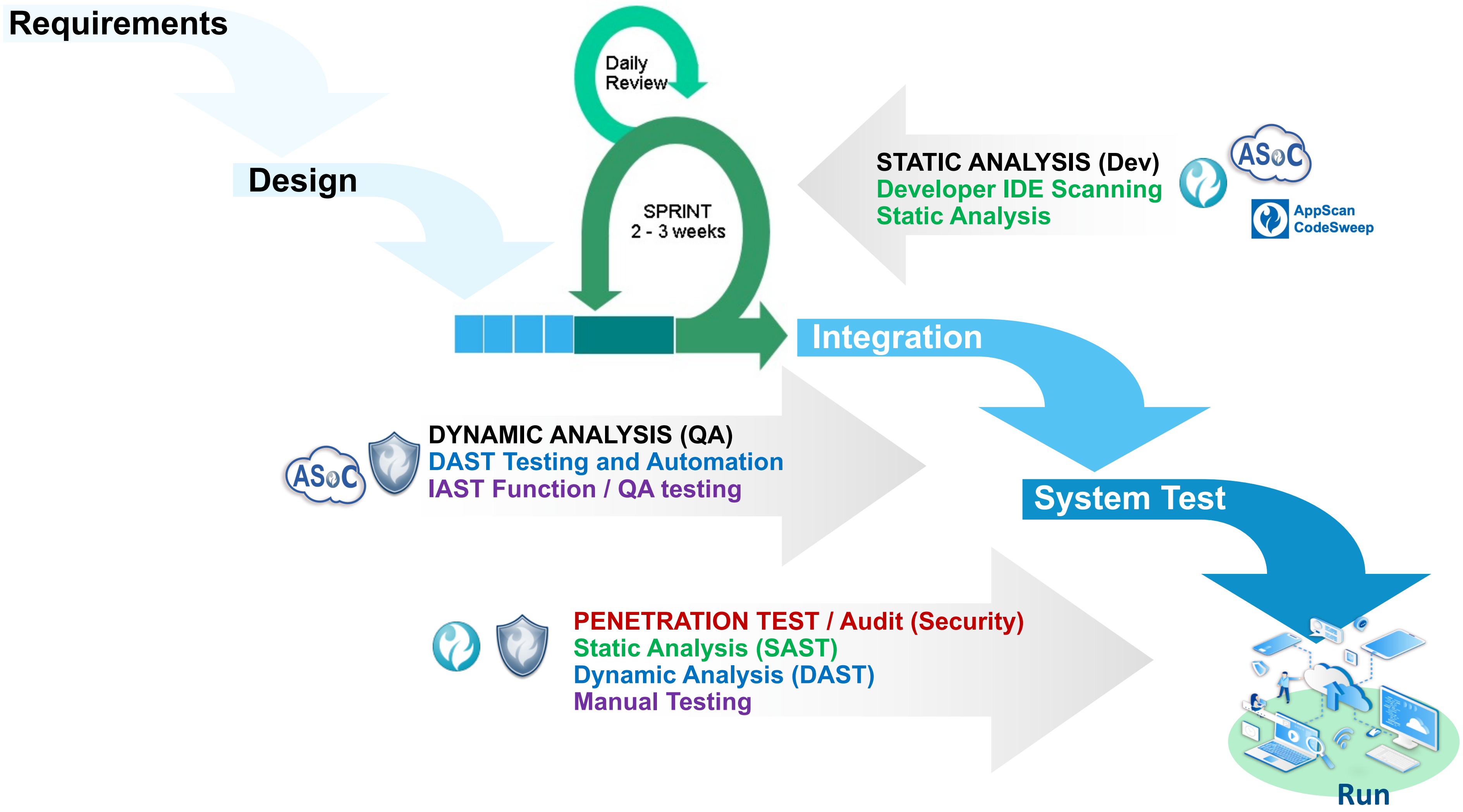
Colin Bell
CTO, AppScan
HCL Software

Robert Cuddy
Global Security
Evangelist, AppScan,
HCL Software

www.hcltechsw.com

SDLC - The “Agile-Fall” Approach

- This is the reality for most….Is it any different to waterfall?



Requirements

Design

Daily Review

SPRINT
2 - 3 weeks

STATIC ANALYSIS (Dev)
Developer IDE Scanning
Static Analysis

ASoC

AppScan
CodeSweep

Integration

DYNAMIC ANALYSIS (QA)
DAST Testing and Automation
IAST Function / QA testing

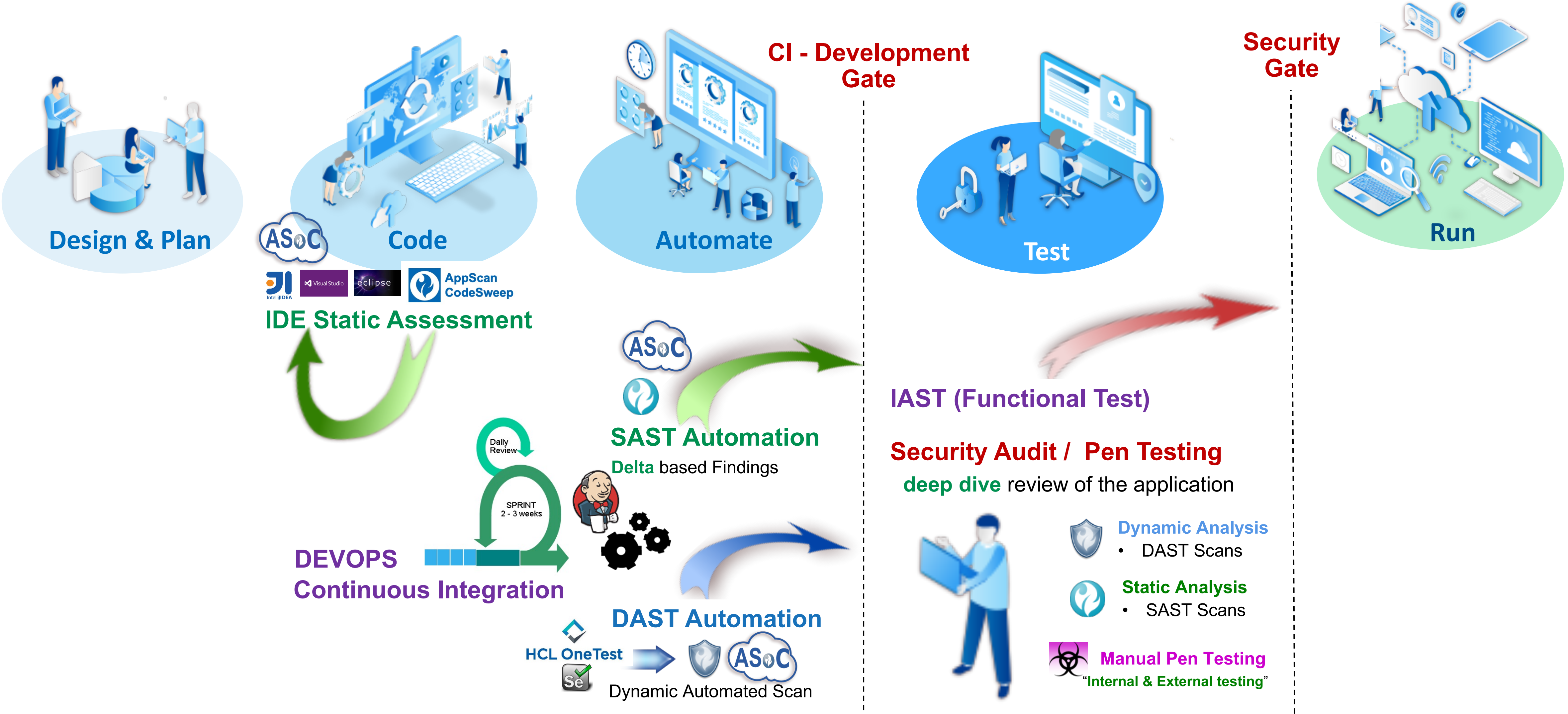
ASoC

System Test

PENETRATION TEST / Audit (Security)
Static Analysis (SAST)
Dynamic Analysis (DAST)
Manual Testing

Run

Where do we start with Security?



Gate Conditions

- Build process controls
- Pass / Fail Build
- Delta Scans (new issues reported)

Gate Conditions

- All High risk issue resolved
- All Medium risk issues > 30 days resolved
- Any Low risk issues > 90 days resolved

What is Continuous Security?

Construct

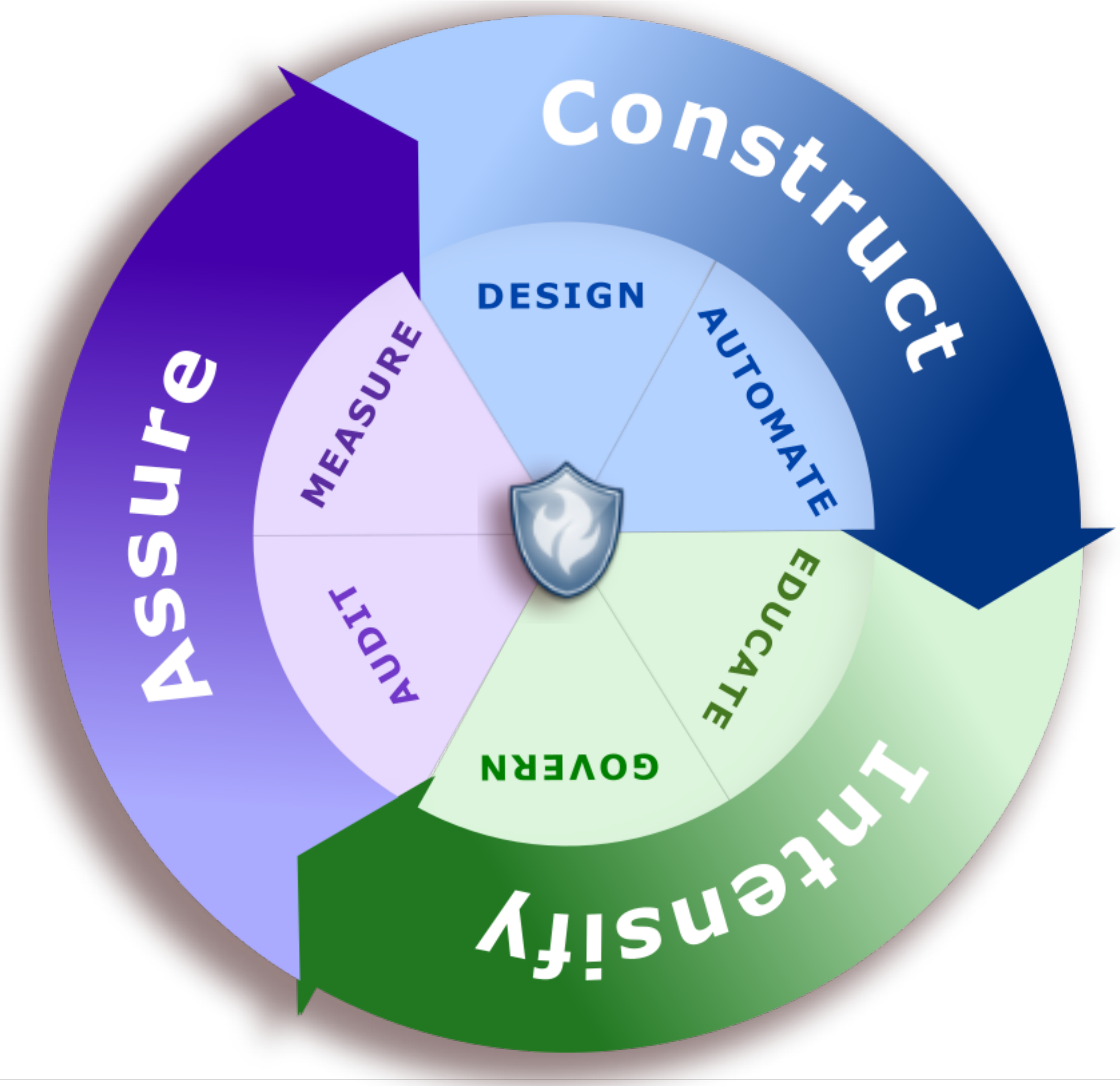
Secure by design and secure automation. This is the Secure DevOps piece or DevSecOps, but we need to expand security beyond just this…

Intensify

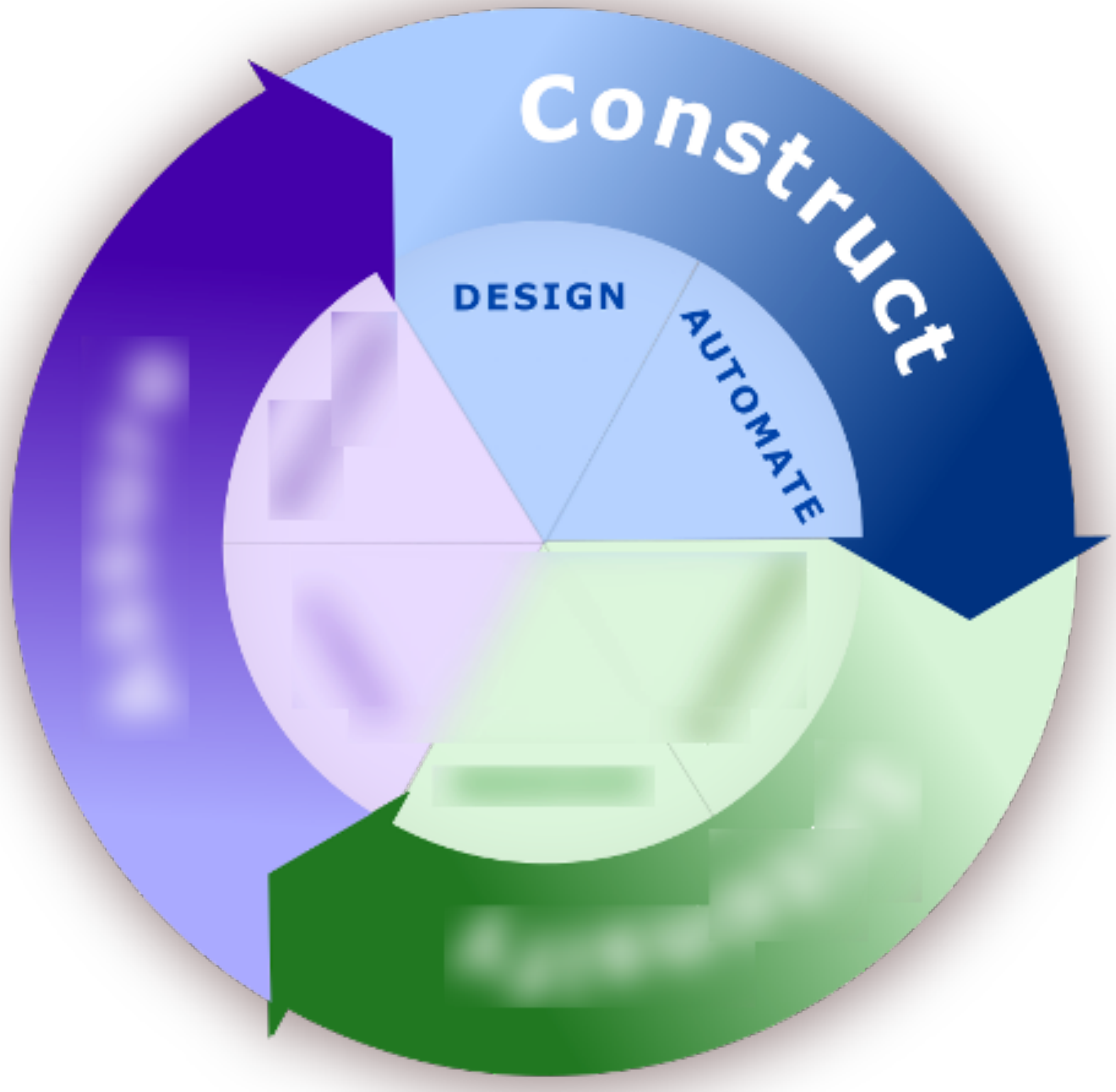
Magnifying the effort and impact, change the security culture, continue to improve. Education and governance drive this success.

Assure

Ensuring the controls are in place to meet the guidelines and standards we have in place. Secure Audit and Metrics are key to assure the program



Construct Phase



DESIGN: Security Right From the Start.

- Use Cases / Epics / Hill Statements / Requirements
- Mature Orgs: Security actively involved in Design
- Developers are regular part of threat modeling
  - #1 practice to improve security posture

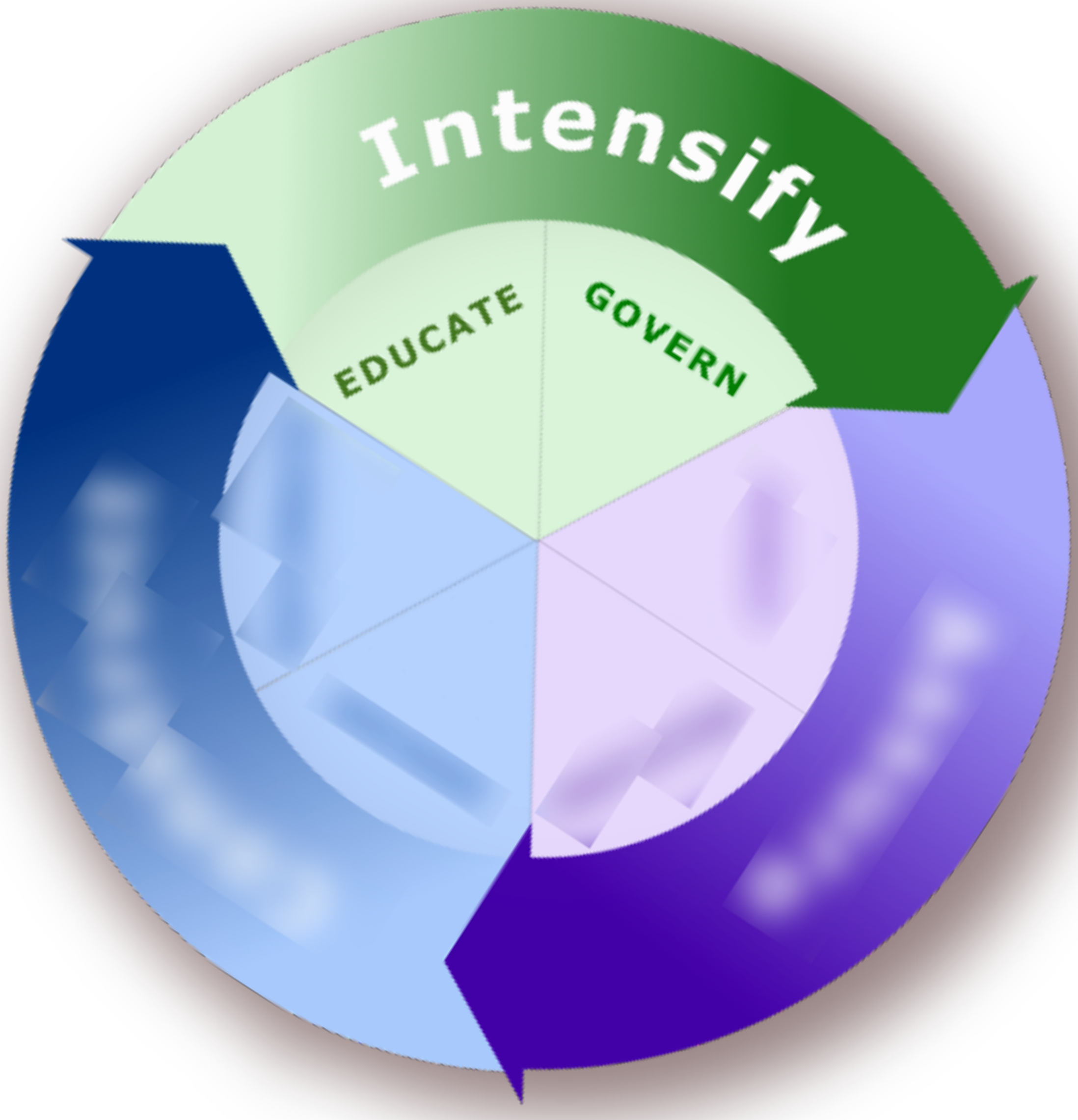
Puppet Labs
2019 State of DevOps

AUTOMATE: Find & Fix Fast to Lower Risk

- Consumable, Actionable Reporting
- 56% - ability to quickly fix identified vulnerabilities using automated tools
- 52% -automate vulnerability scanning at every stage of SDLC

- 2020 Ponemon study

Intensify Phase



GOVERN: Make it Easy To Do Right

- Measure outcomes more than just behavior
- 56% - testing conducted throughout the SDLC
- 74% delays due to code needing security evaluation
  - Ponemon 2020 Study

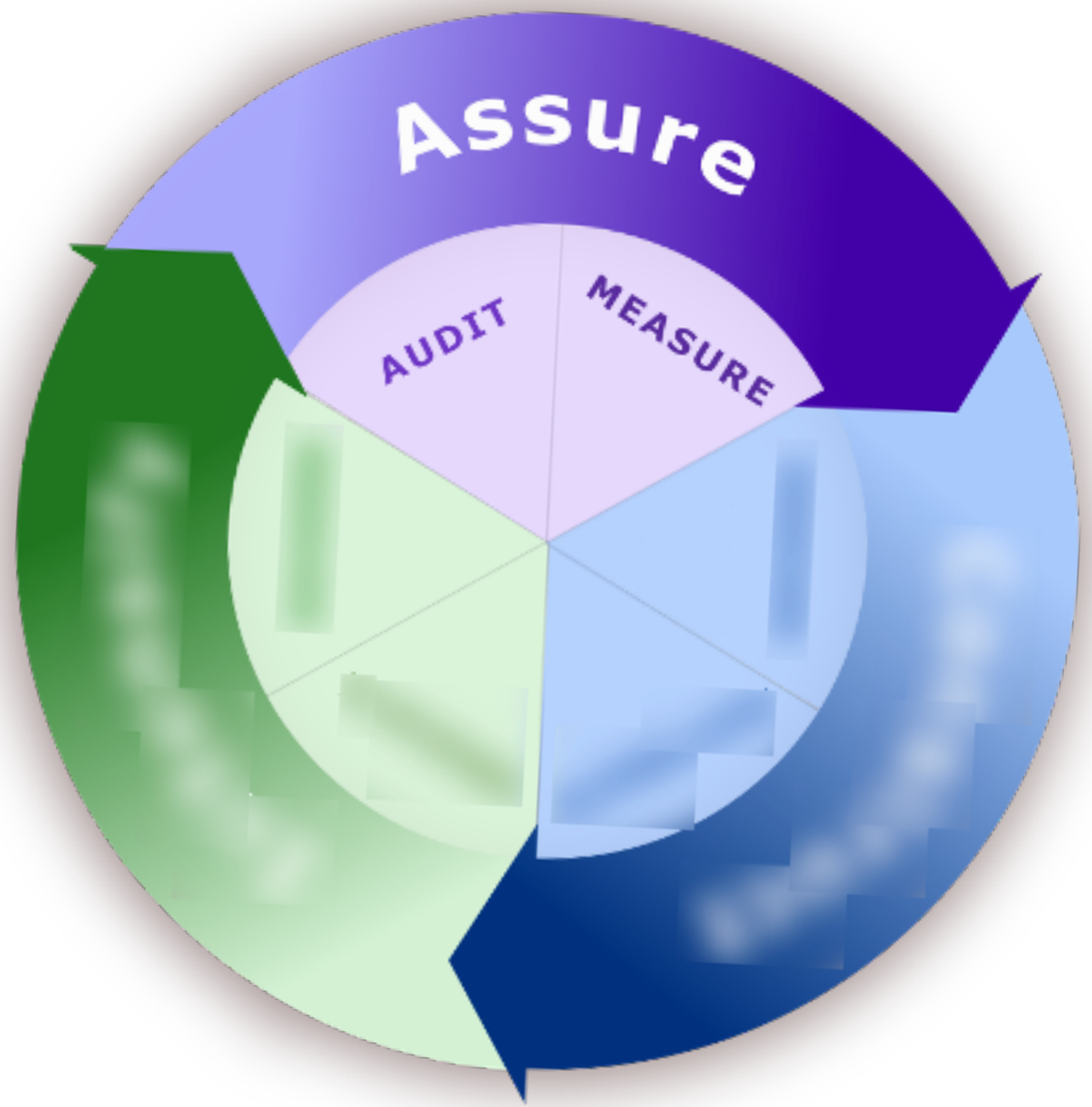
EDUCATE: Continual Learning

- Security Champions / Advocates
- 56% - secure coding required, but only 47% ensure training.

  - Ponemon 2020 Study
- Developers get secure coding training are 5x more likely to be happy

  - Sonatype 2020 Survey

Assurance Phase



AUDIT: We Do What We Say For Controls

- Pen-testing and Run-time info aligns with SDLC
- Average time to patch:
    - Internal sys – 50 days,   Public facing – 71 days

EdgeScan 2019 Report

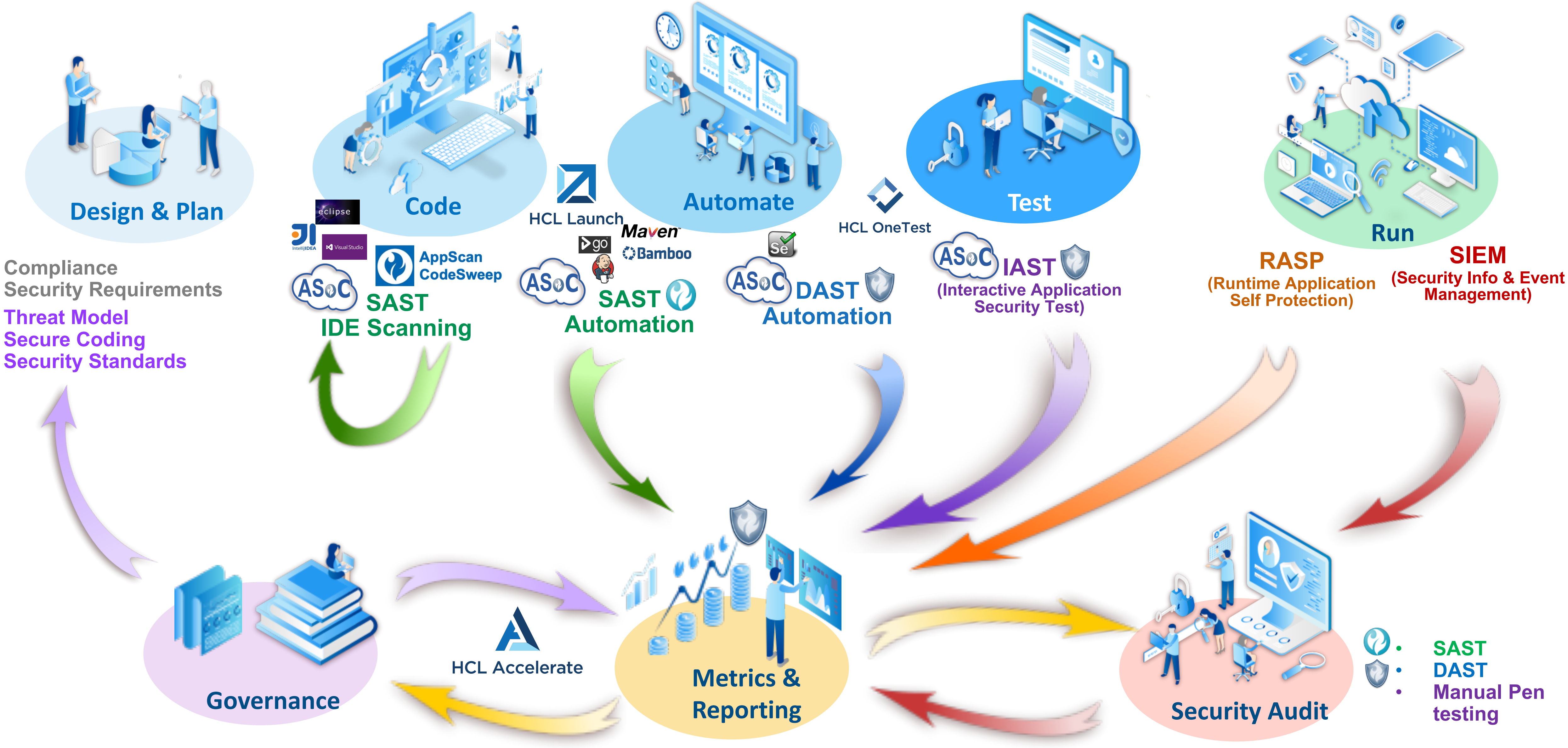
- Mature teams
    - 2x more likely automated governance & compliance.
    - 69% follow Open Source policies

Sonatype 2020 Survey

MEASURE: Data Not Guesses

- Accurately identify and manage organizational risk
- Confidently make trade-off decisions based on solid data instead of hunches
- *Get Healthier over time*

Continuous Security



Design & Plan

Compliance
Security Requirements

Threat Model
Secure Coding
Security Standards

Code

eclipse

IntelliJ IDEA

Visual Studio

AppScan CodeSweep

ASoC

SAST
IDE Scanning

HCL Launch

Maven

go

Bamboo

ASoC

SAST
Automation

Automate

Se

ASoC

DAST
Automation

HCL OneTest

Test

ASoC

IAST
(Interactive Application Security Test)

Run

RASP
(Runtime Application Self Protection)

SIEM
(Security Info & Event Management)

Governance

HCL Accelerate

Metrics & Reporting

Security Audit

- SAST
- DAST
- Manual Pen testing

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DevOpsInfo@hcl.com

HCLtechSW.com/DevOps