



From 0 To 100 000 Test Cases Per Day

Guide to successful Quality marriage

Me... In Scale

- Jani Haapala
- Dad, Husband, Thinker, Learner, Developer, Tester
- Senior Quality Consultant @ Qentinel
- Focus on software process improvements and automation
- DevOps and Lean advocate
- 15+ years in the field
- Nuts about measurements, data and feedback





KONE

Dedicated To People Flow



Dating

Finding Your (Test Automation) partner

Why Do We Test

PROBLEM SPACE VS SOLUTION SPACE

@Test

```
public void pageTitleAfterSearchShouldBeginWithDrupal() throws IOException {
    assertEquals("The page title should equal Google at the start of the test.",
        "Google", driver.getTitle());
    WebElement searchField = driver.findElement(By.name("q"));
    searchField.sendKeys("Drupal!");
    searchField.submit();
    assertTrue("The page title should start with the search string after the search.",
        (new WebDriverWait(driver, 10)).until(new ExpectedCondition() {
            public Boolean apply(WebDriver d) {
                return d.getTitle().toLowerCase().startsWith("drupal!");
            }
        }));
}
```

OR

Open Page	www.google.com	
Insert Text	searchbox	Drupal!
Click Button	Google-Search	
Verify Title Starts With	Drupal!	

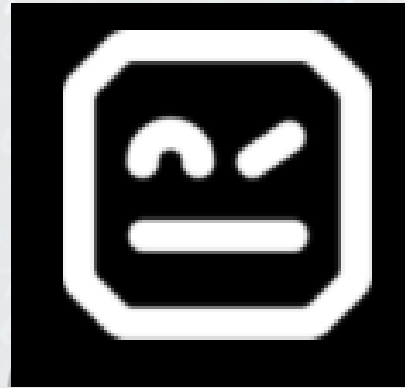
Customer must be able to buy shoes

Customer needs to put shoes in basket and complete payment

With browser xx and url yy open. Icon zz must be clicked and then button ii pressed. If valid information is given into dd, transaction should be seen from db xx with query ss.

Our "He", The Test Automation

www.robotframework.org



*** Settings ***

Documentation A test suite with a single test for valid login.

...

... This test has a workflow that is created using keywords in the imported resource file.

Resource [resource.txt](#)

*** Test Cases ***

Valid Login

Open Browser To Login Page

Input Username demo

Input Password mode

Submit Credentials

Welcome Page Should Be Open

[Teardown] Close Browser

MODULAR

Test Data

-----Test data syntax

Robot Framework

-----Test library API

Test Libraries

Test Tools

-----System interfaces

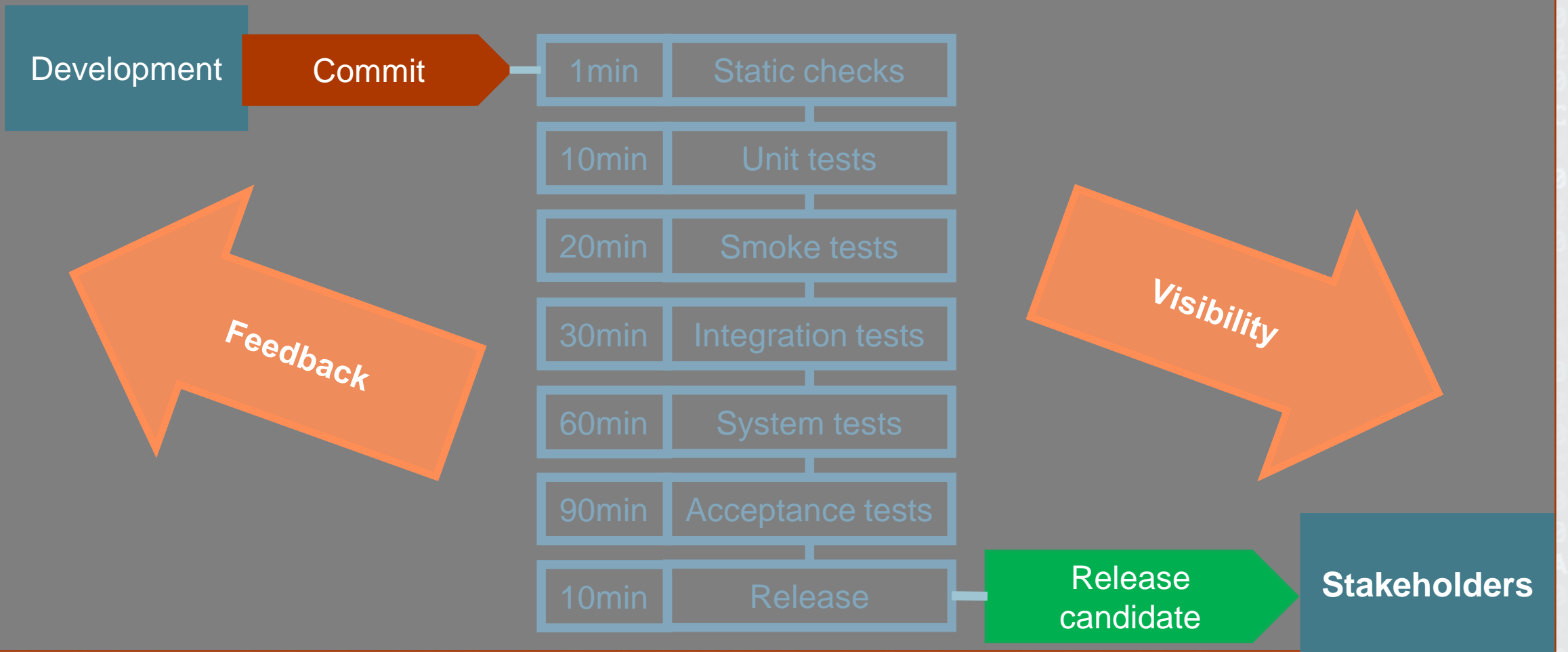
System Under Test



Moving Together

Building solid (Infrastructure) Foundation To Live In

Infrastructure as Code == SafetyNet



Complexity Explosion


DevOps

Dev

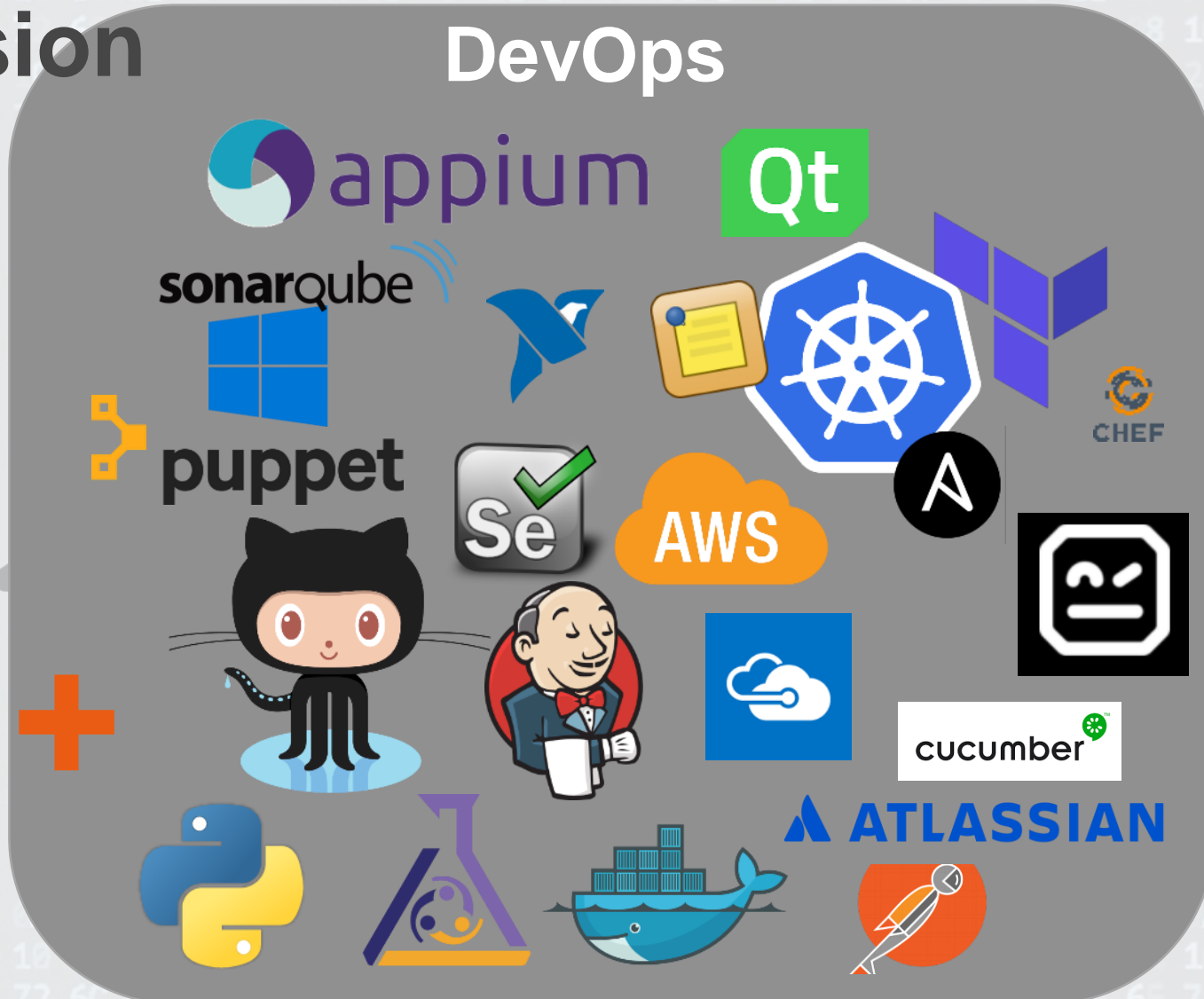


Logos for JavaScript (JS), C++, and Git.

Test



Logos for Bugzilla, Firefox, Android, HP Quality Center, and JIRA.

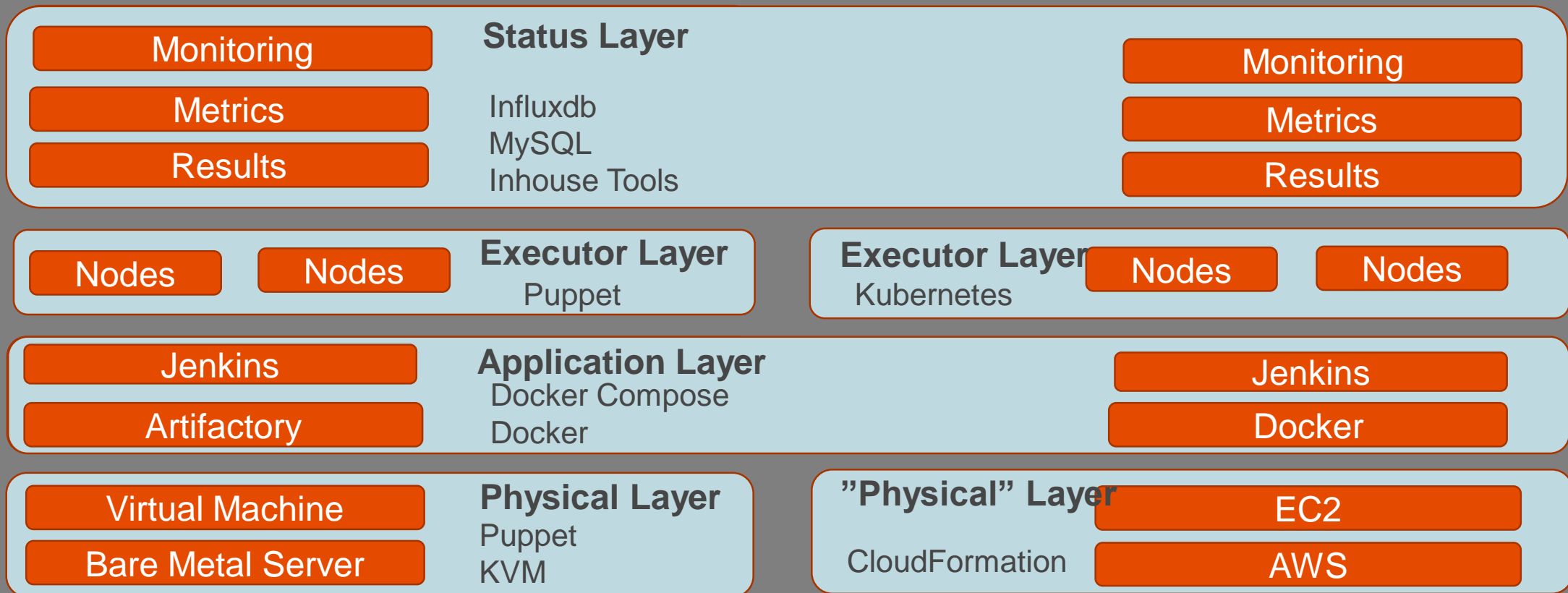


A large collection of DevOps tool logos including Appium, Qt, SonarQube, Puppet, Selenium, AWS, Chef, GitHub, and Atlassian.

Our "SHE", The Infrastructure (as Code)

Server Room

Cloud

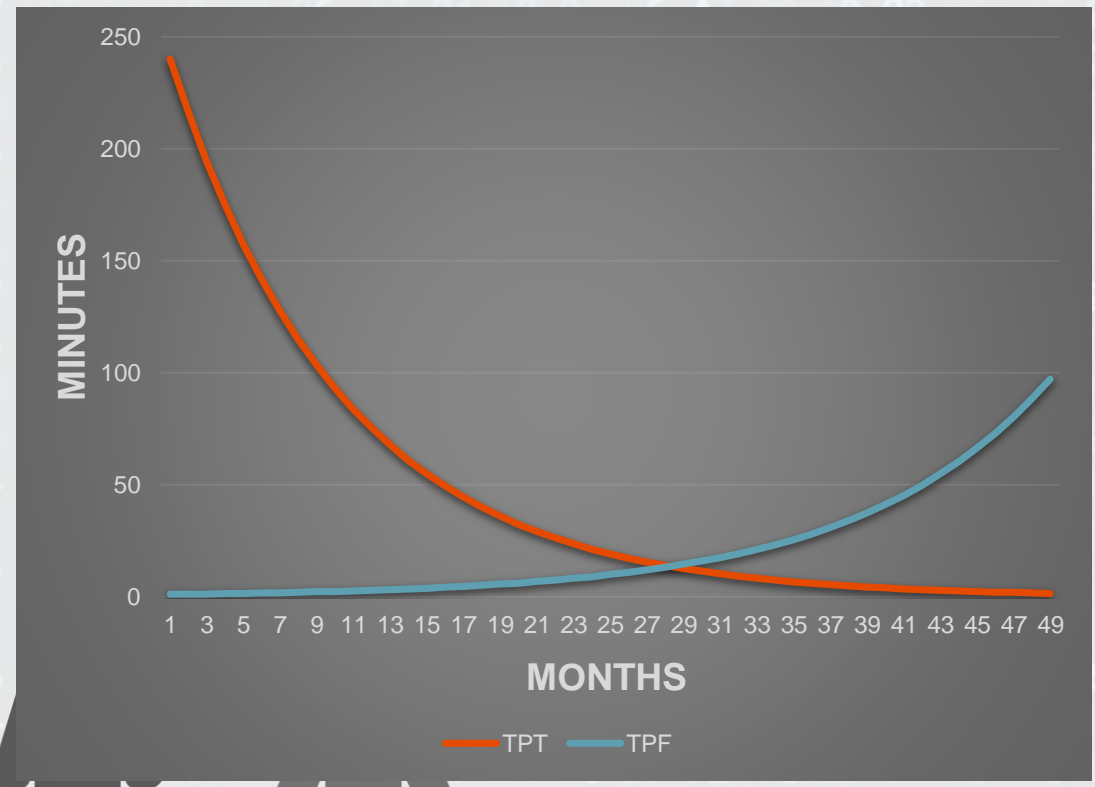
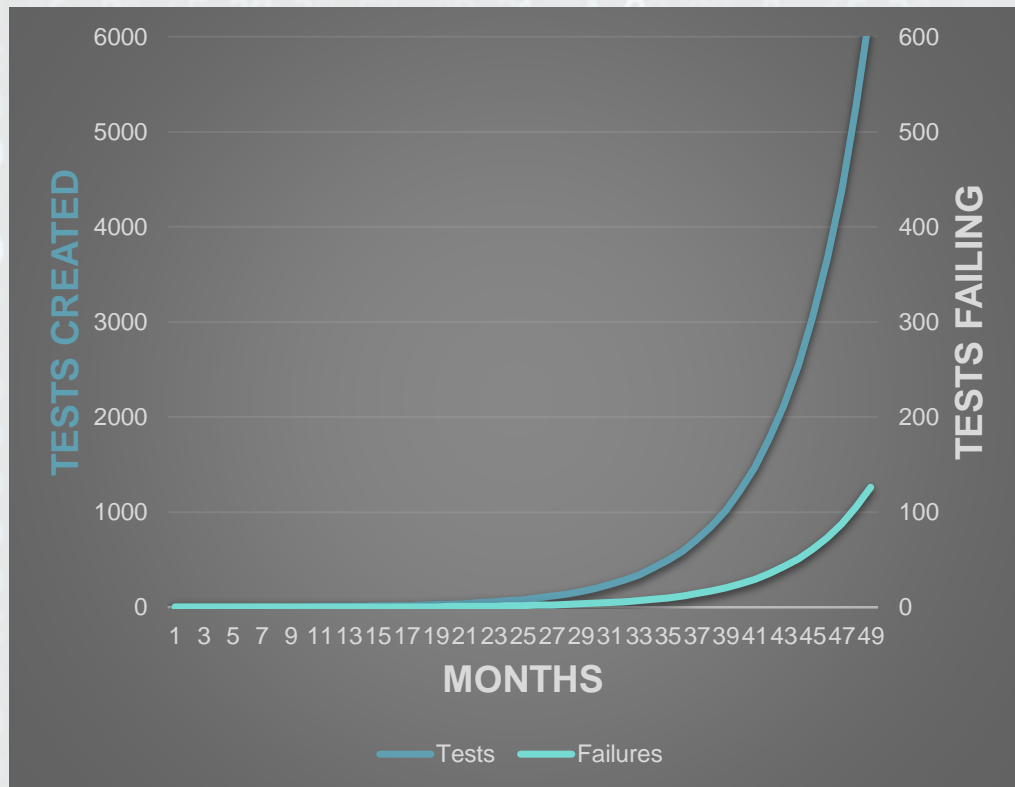




Having Kids

Spreading Quality DNA (Scaling Automation) To All

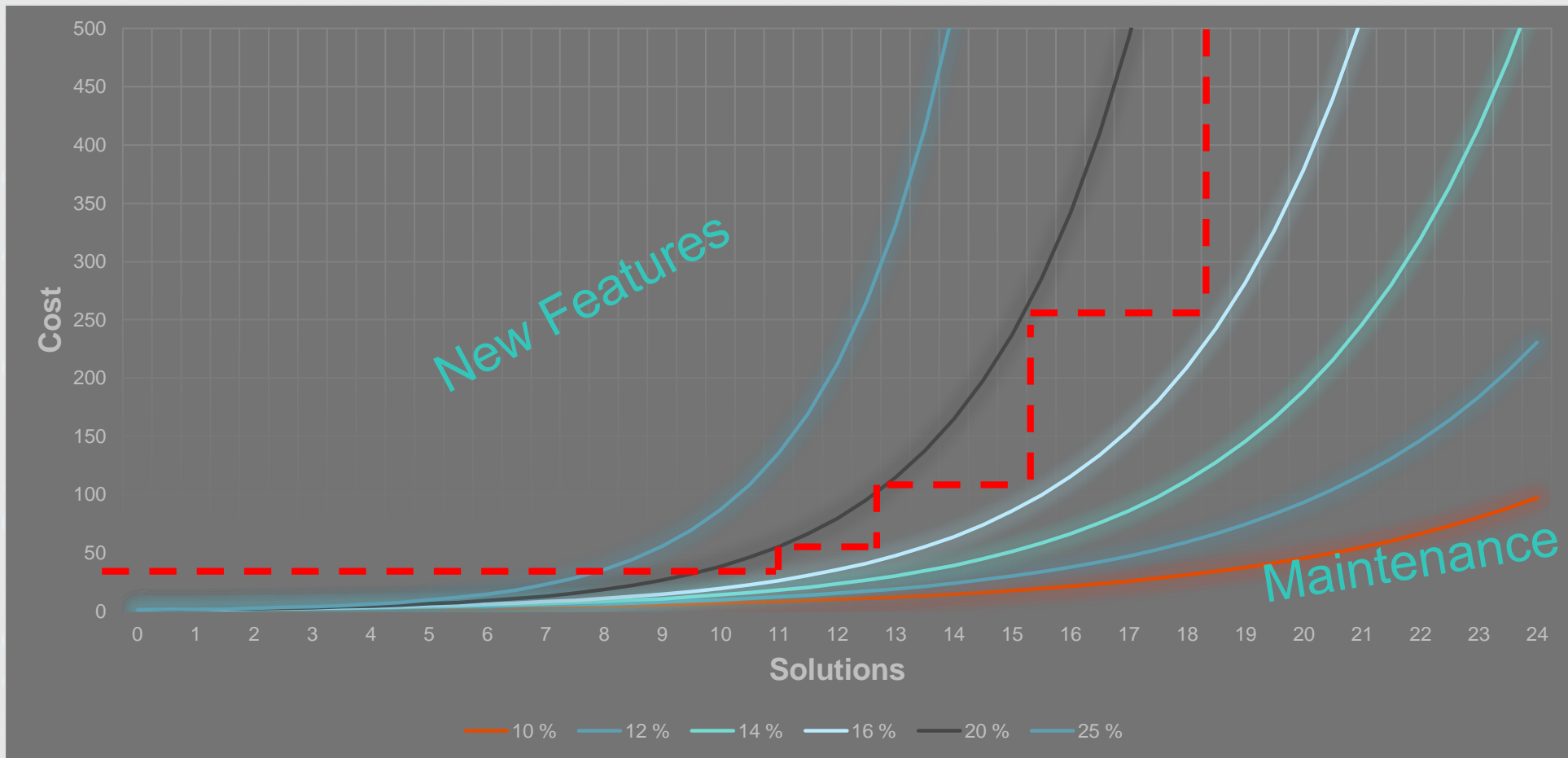
Testing Escalation...squared



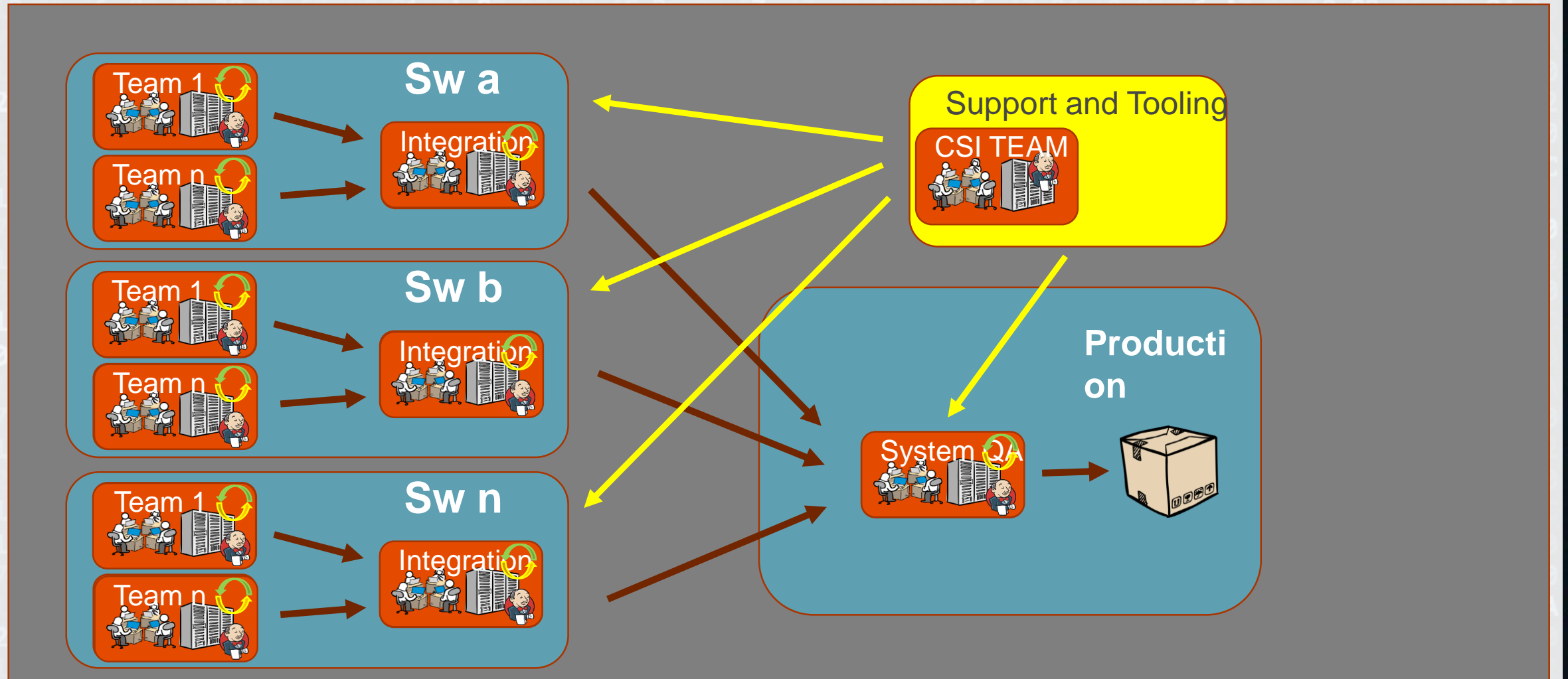
Create 100TC -> 200min -> 3h

Debug 100TC -> 9700min -> 162h -> 20 days

Infrastructure Explosion...squared



CSI Concept

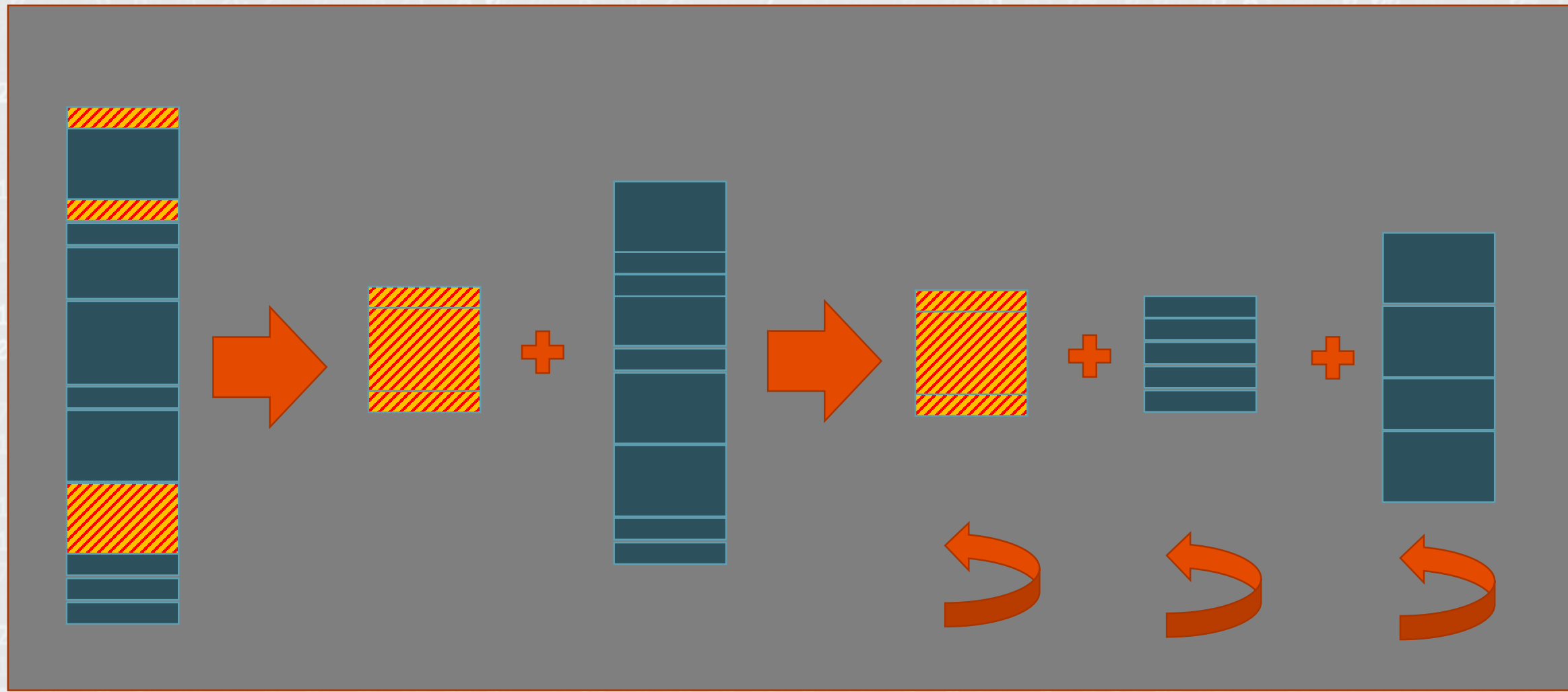




Happily Ever After?

Happy Kingdom (With 100 000 Test Cases Per Day)
For All?

Critical Rec



Something To Be Proud Of





Q&A...

**I Congratulate You, New (DevOps) Marriage
Counselors**