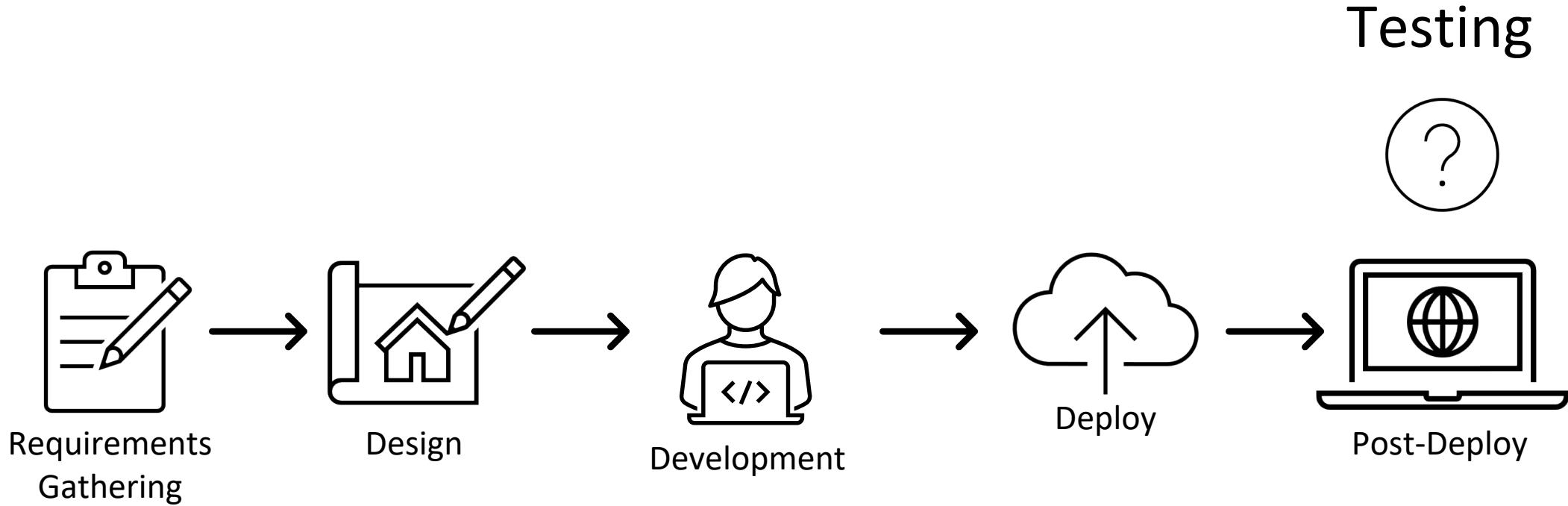


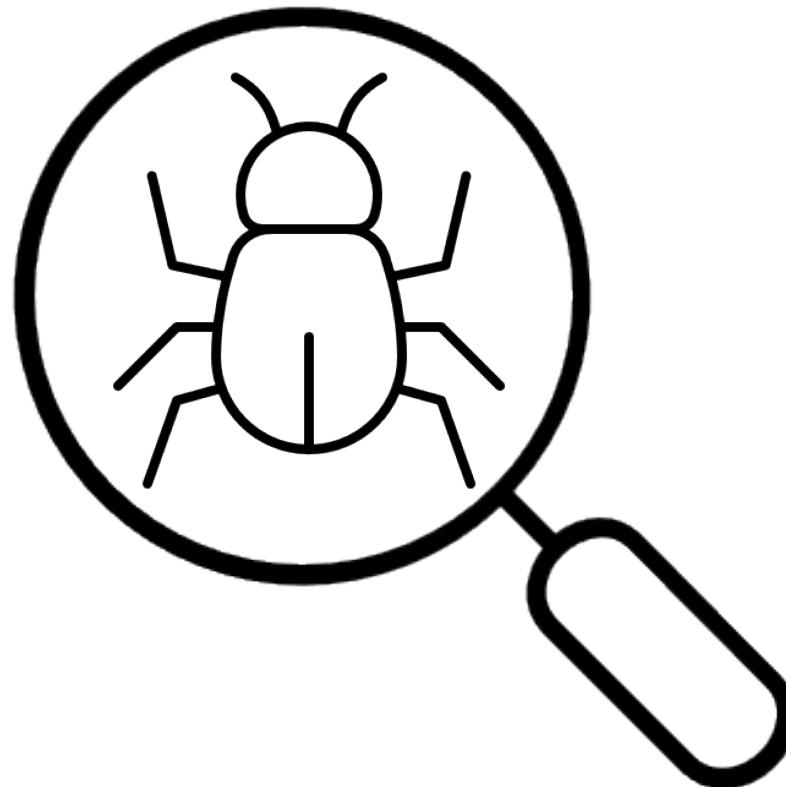
Test Early, Fail Fast.... Shift Testing Left

Presented by Douglas Stewart

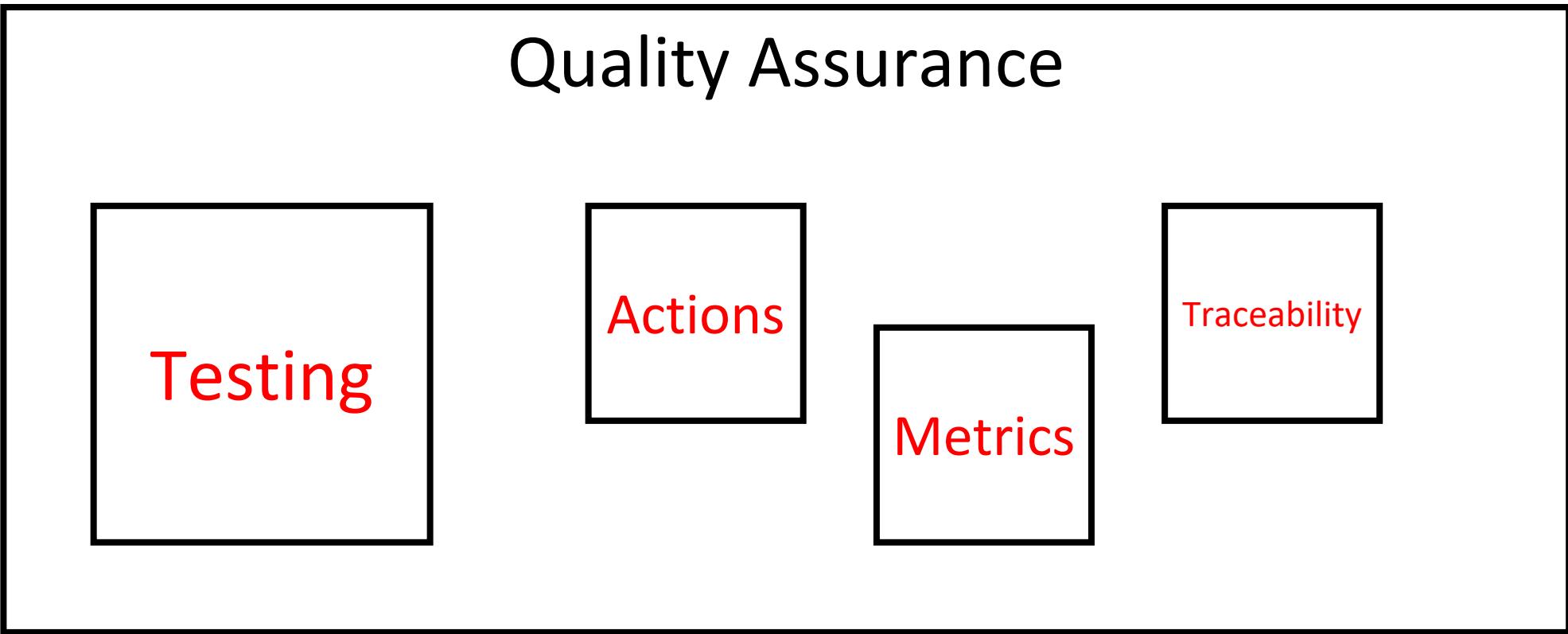
The “Right” Way?



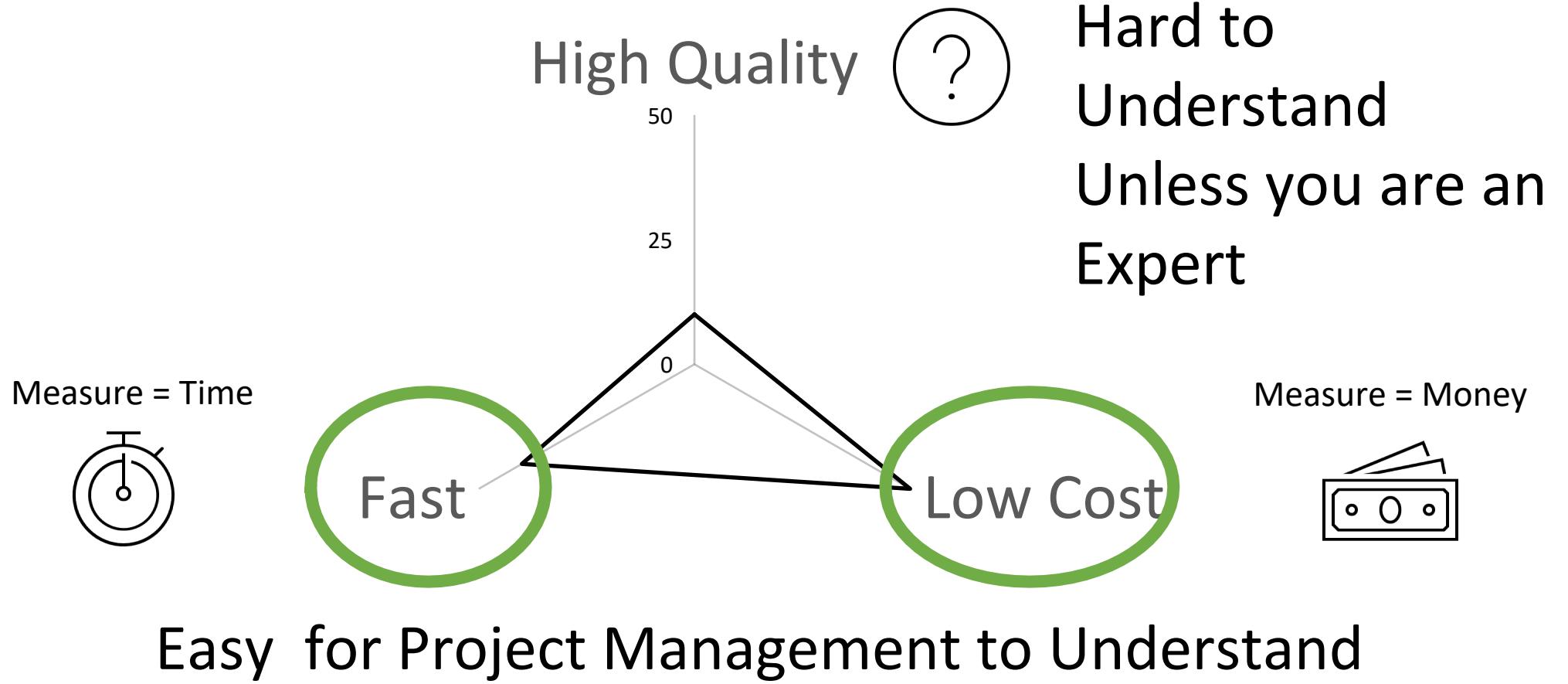
#1 Duty of Testing



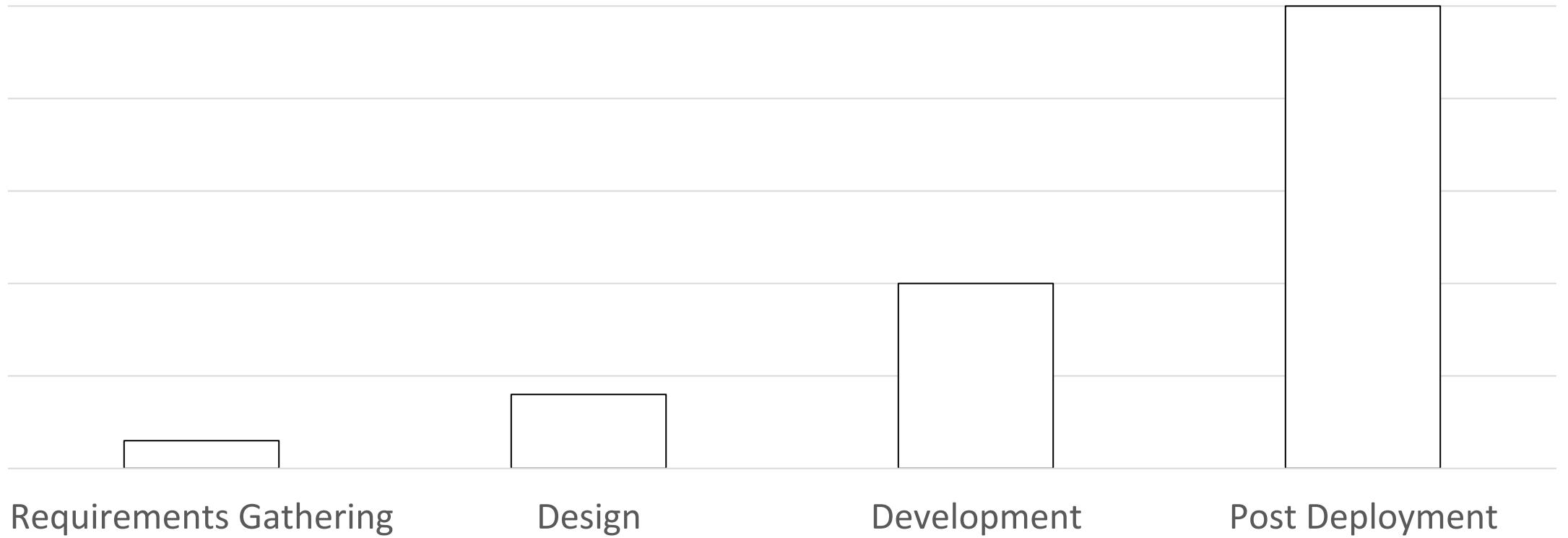
Quality Assurance vs. Testing



Pick Any 2



Relative “Cost” of Finding Bugs



* For Illustration Purposes Only

MVP != Low Quality

Requirement

“I want a vehicle to transport me from
point A to point B”

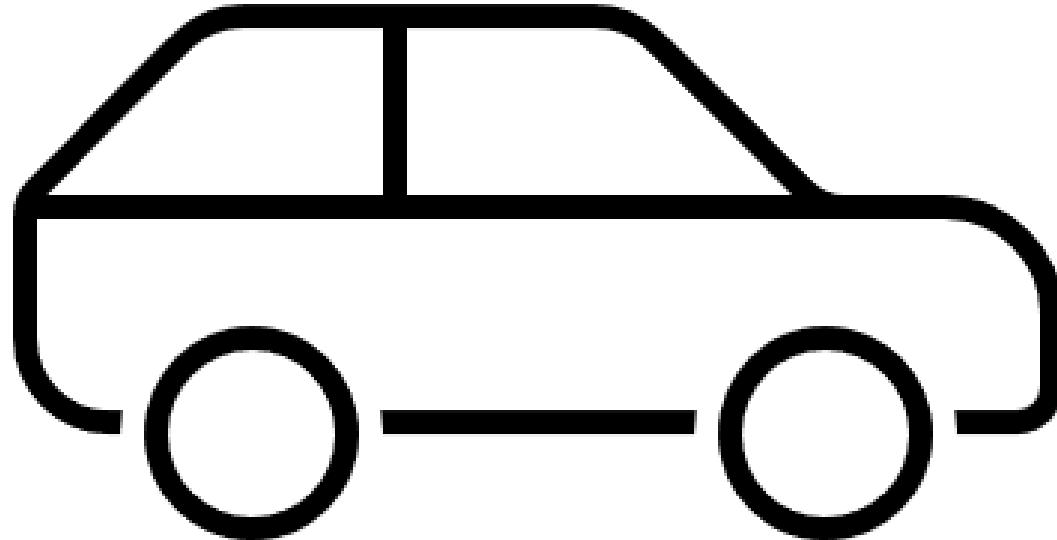
MVP != Low Quality



MVP != Low Quality



MVP != Low Quality



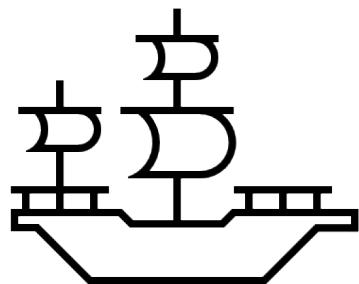
Can You Afford Testing on the Right?

- High Technical Debt
- Difficult/Impossible to Fix Certain Bugs
- Poor Customer Confidence in Product
- Testing “Later” May Never Come
- Frustration of Poor Quality Environment Leads to Development Fatigue



- Perceived Quick to Market (Production)
- Let Your Users Act as Testers
- Low Upfront Costs

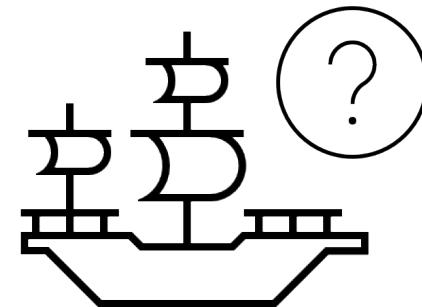
Testing Provides Feedback to Drive Agile



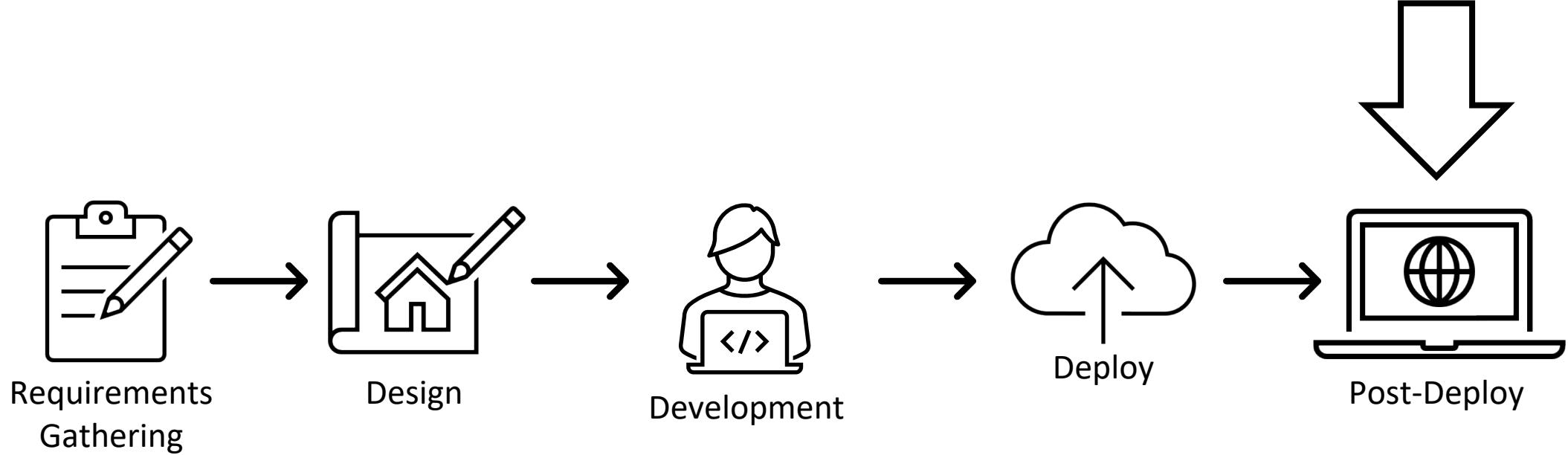
The Plan



10 Weeks Later

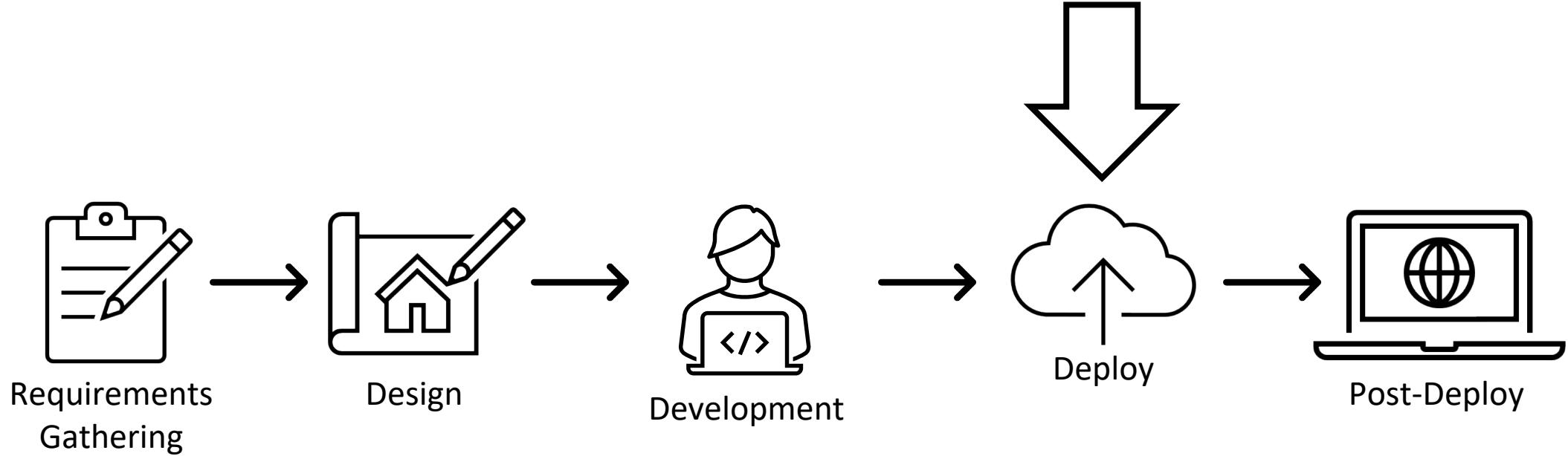


Moving Left



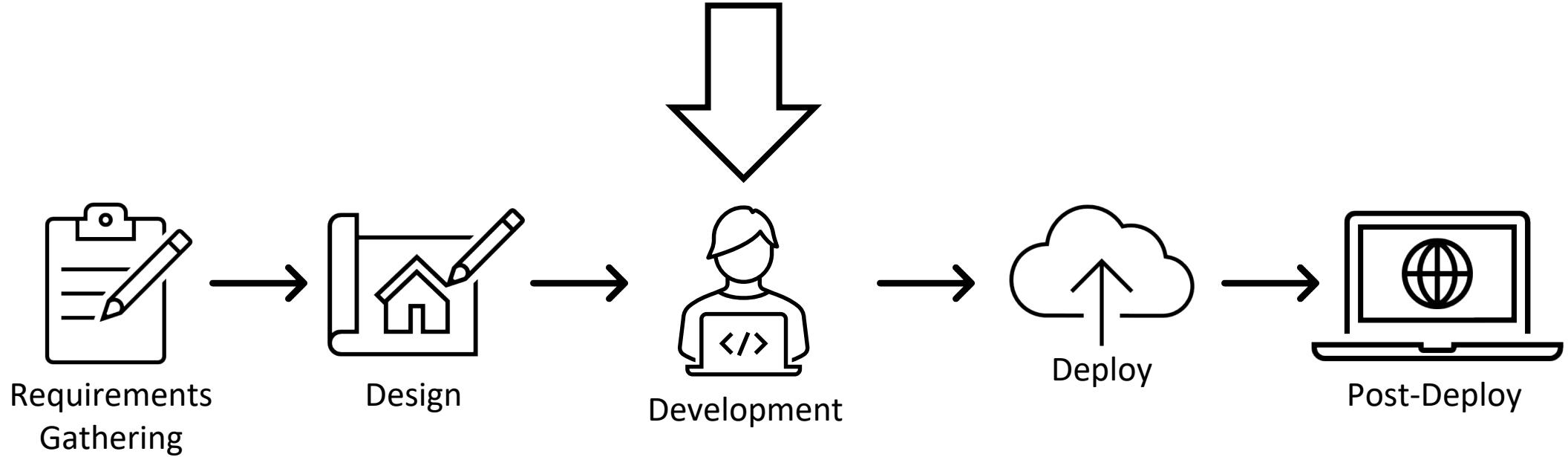
Environment Testing / Functional Regression Testing / UAT

Moving Left



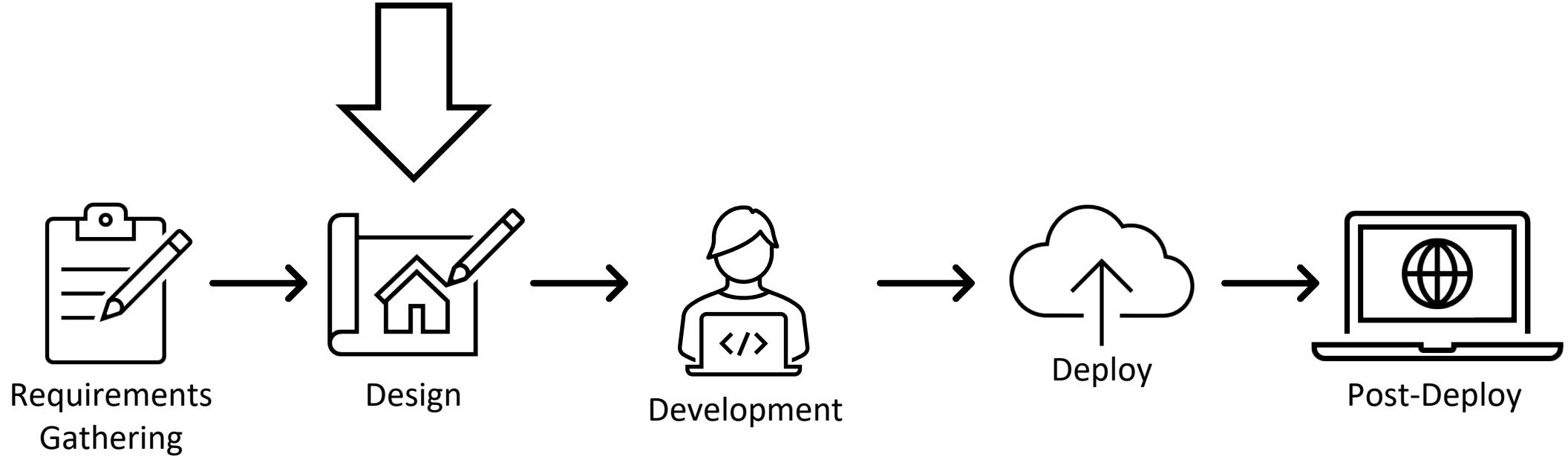
Continuous Deployment

Moving Left



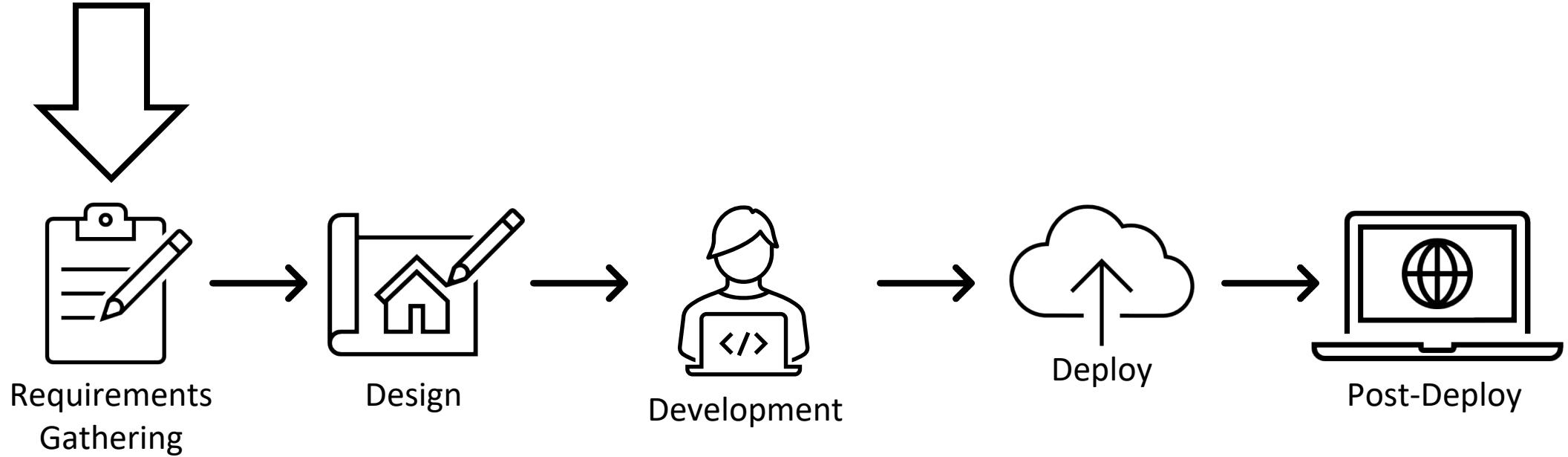
TDD / Unit Testing / Exploratory Testing / Spot-Check Functional Regression / Peer Review

Moving Left



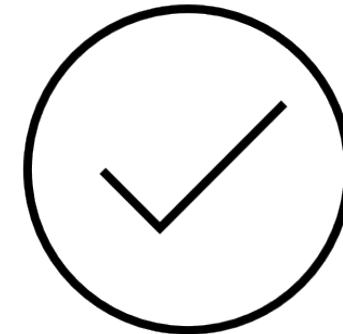
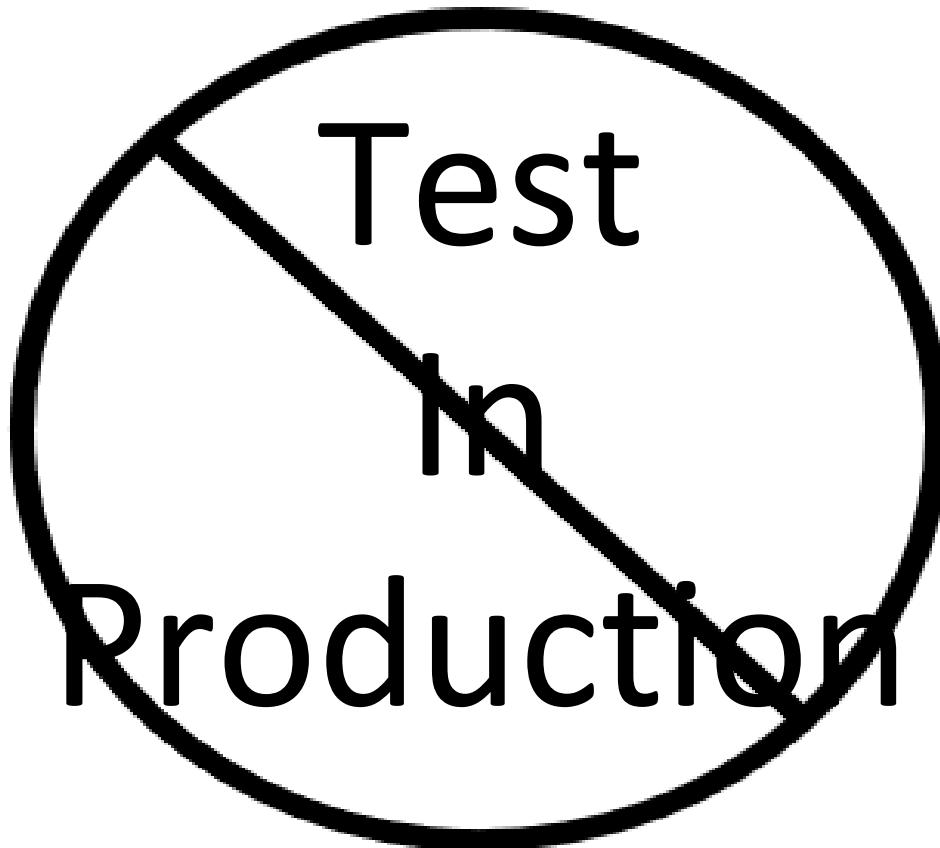
Requirement-Based Testing Refinement / Design with Testing In-Mind

Moving Left



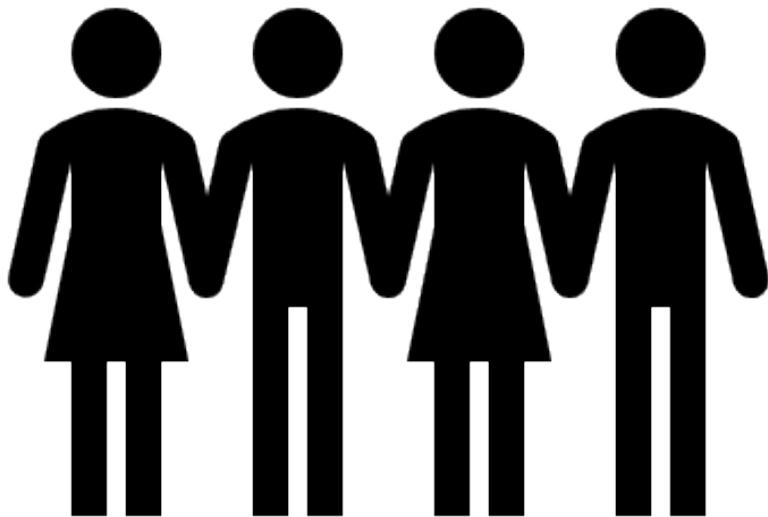
Requirement-Based Test Development

Stop Testing in Production

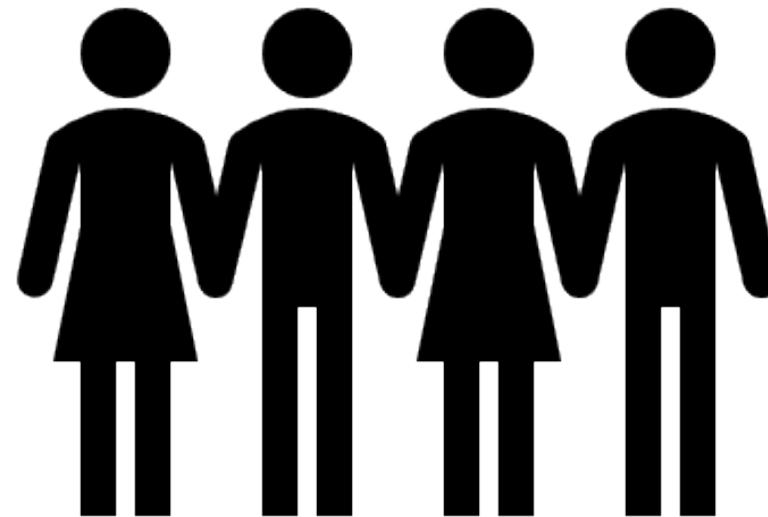


- Smoke Testing
- Synthetic Transactions
- Health Monitoring

Avoid “Us vs. Them”



QA



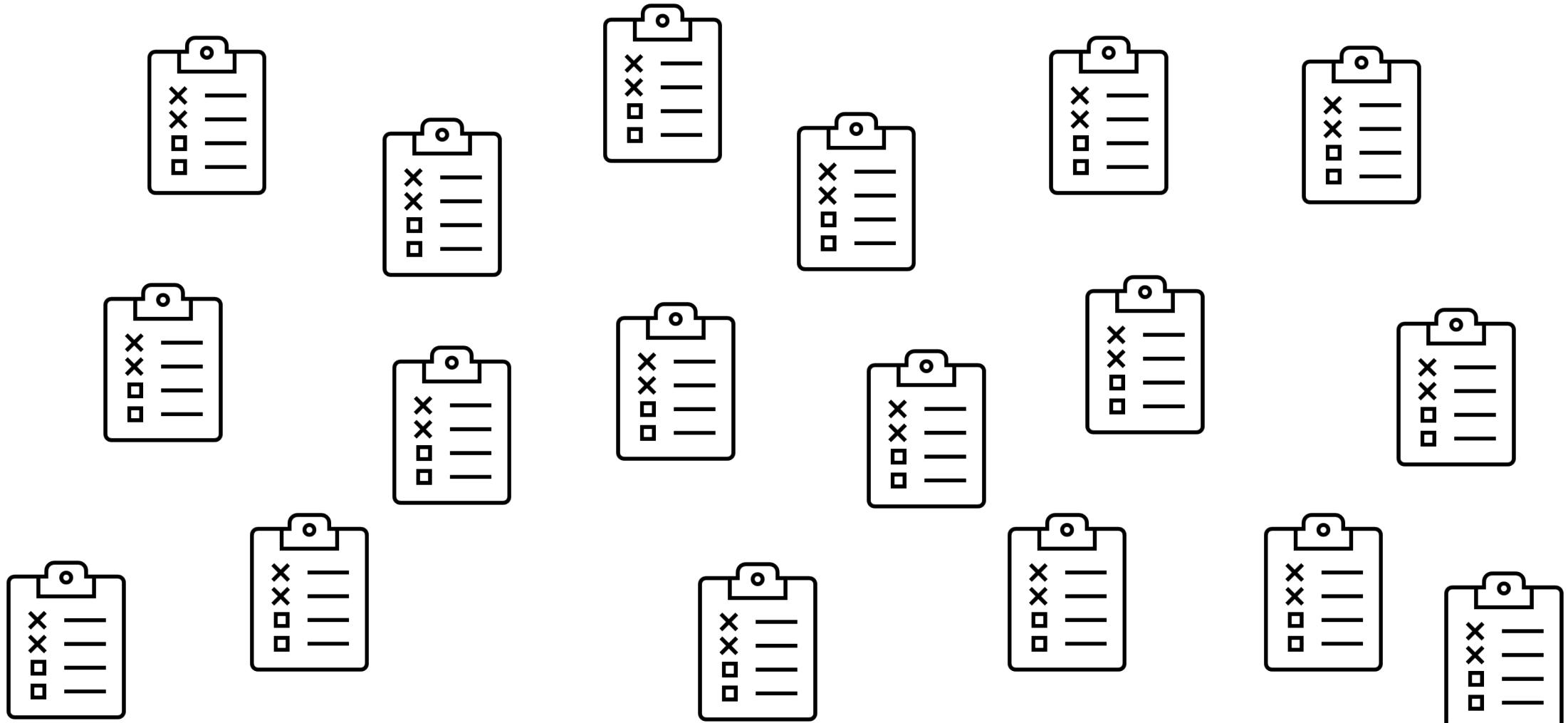
Development

Avoid “Us vs. Them”

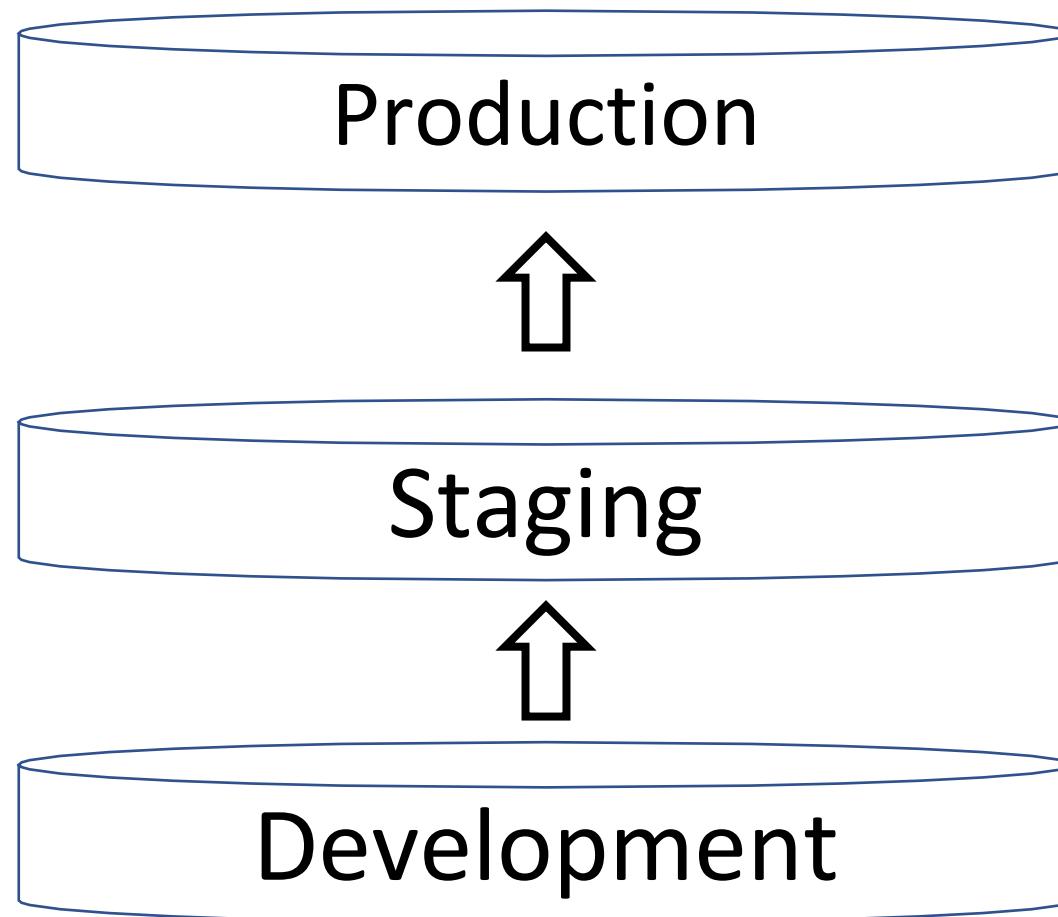


The Team

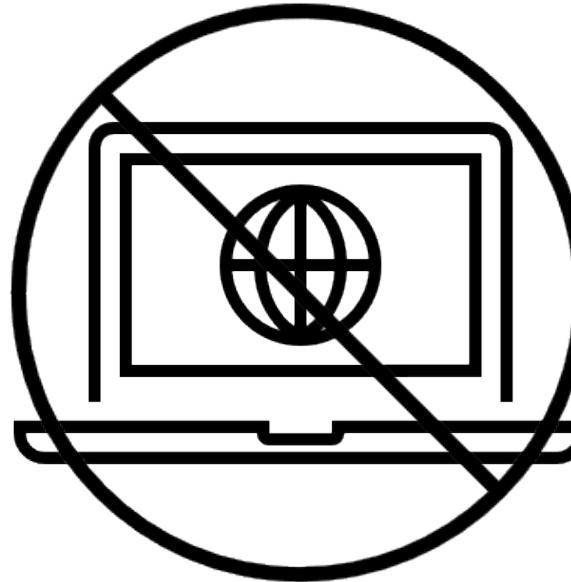
Use Test Management Software



Use Environment Phases

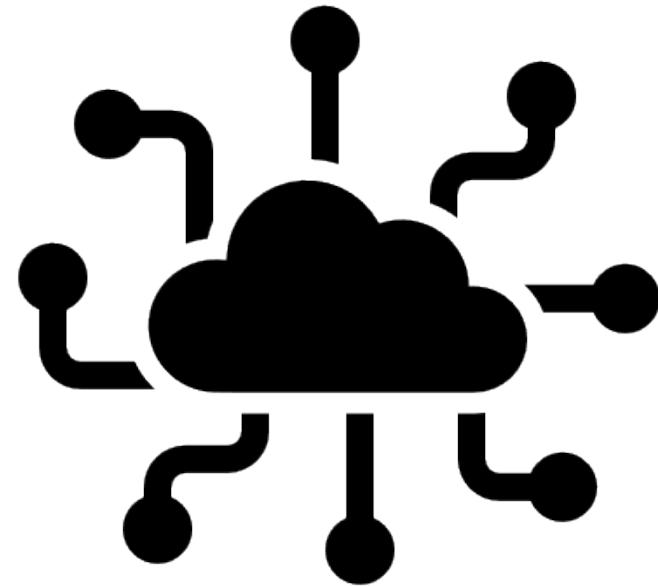


Make Automated Functional Testing Easier



Avoid Obligating Testing User
Interface for Functionality

Make Automated Functional Testing Easier



Have Functionality Driven by APIs