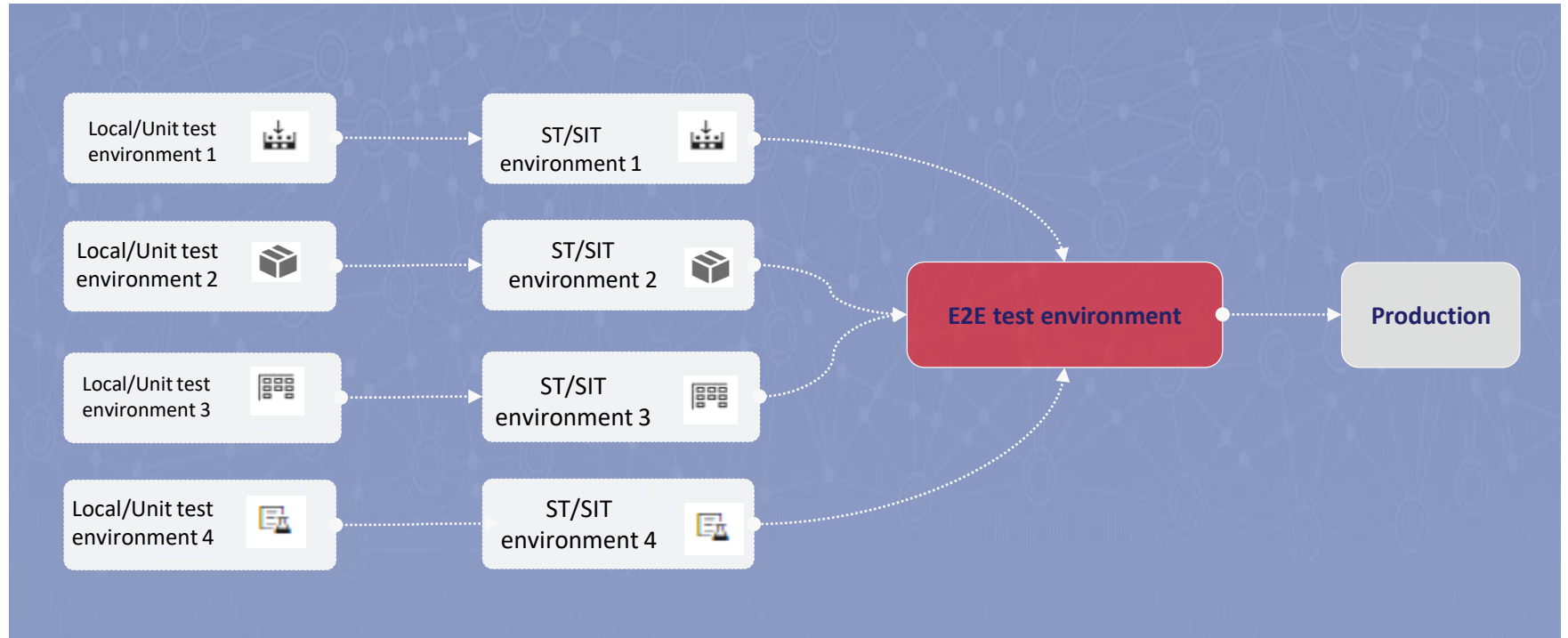

Removing Hot-gates of QA

by Prabhuram Govindarajan

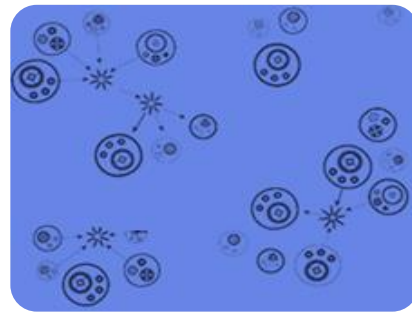
About The battle of Thermophylae(hot gates)



Hot-gates of QA



Evolution of systems & E2E test environment



- Full blown E2E test environments to multiple smaller environments
- The challenges have remained constant
 - Downtime & wait time
 - Expensive defect fix

Evolution of E2E test approach



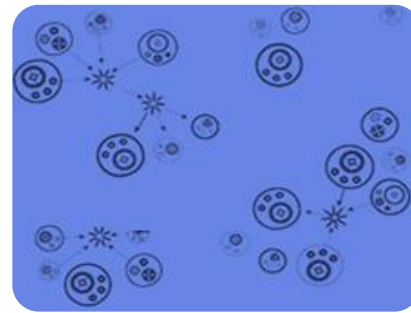
100% real interface

- GUI tests
- Environment management
- Test Data management



75% real interface

- GUI & API tests
- Stubs or SV
- Environment management
- Test Data management



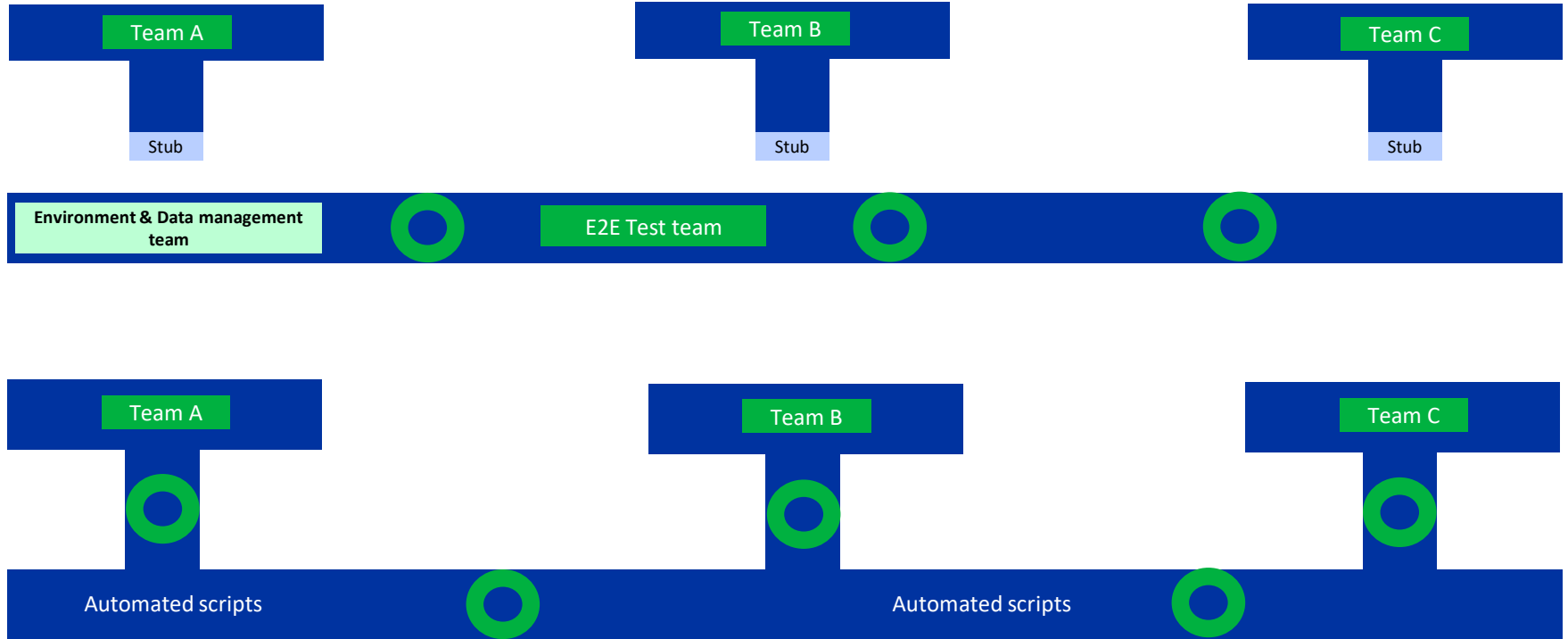
50% real interface

- GUI & API tests
- Stubs or SV
- Containerization
- Contract testing

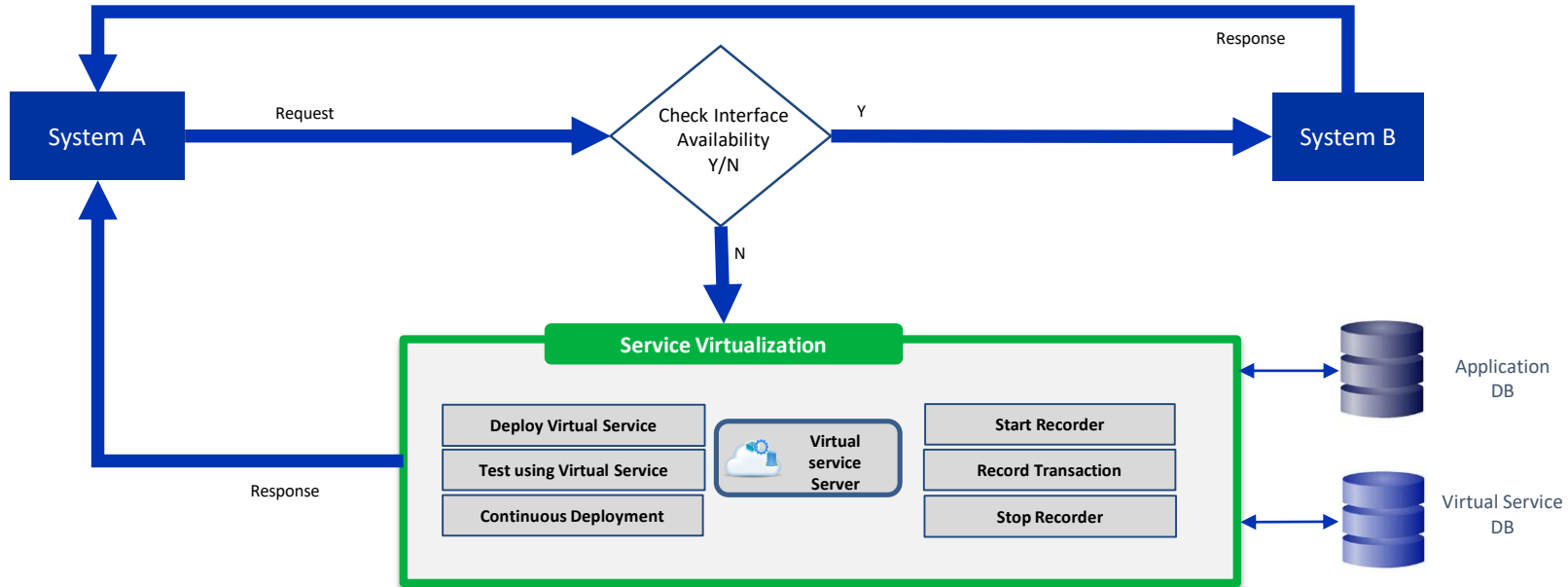
Reactive E2E test approach based on changing system architecture

What next?

Attempt to fix E2E test challenges by Integrated environment

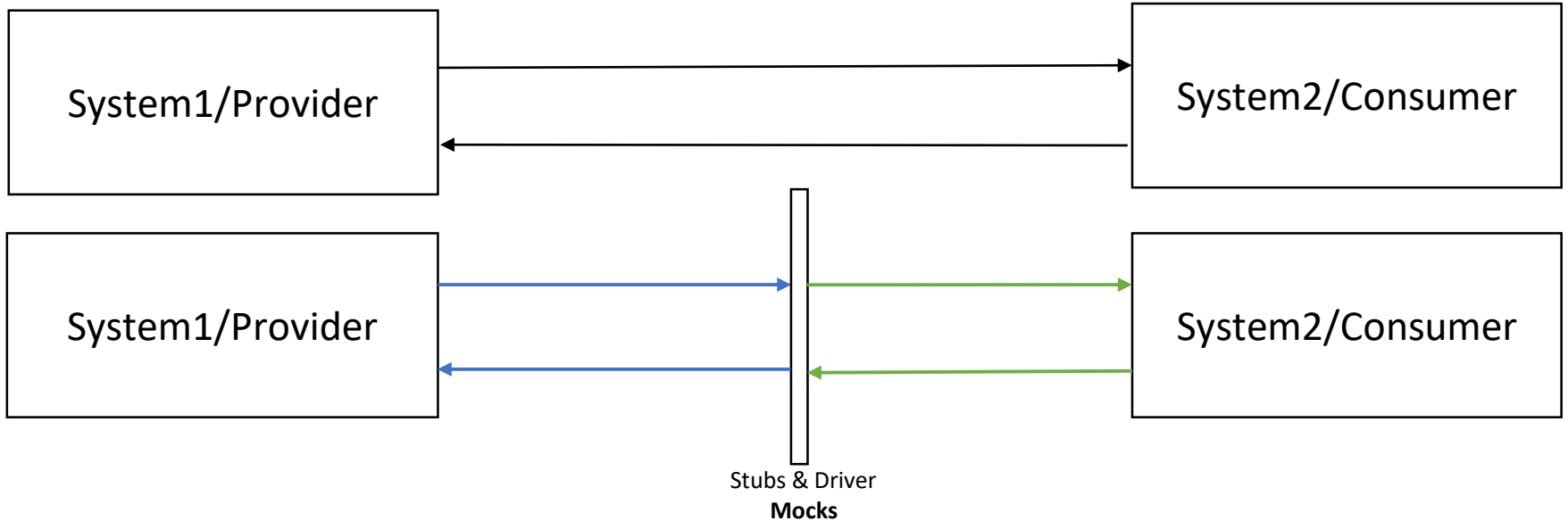


Attempt to fix E2E test challenges using SV



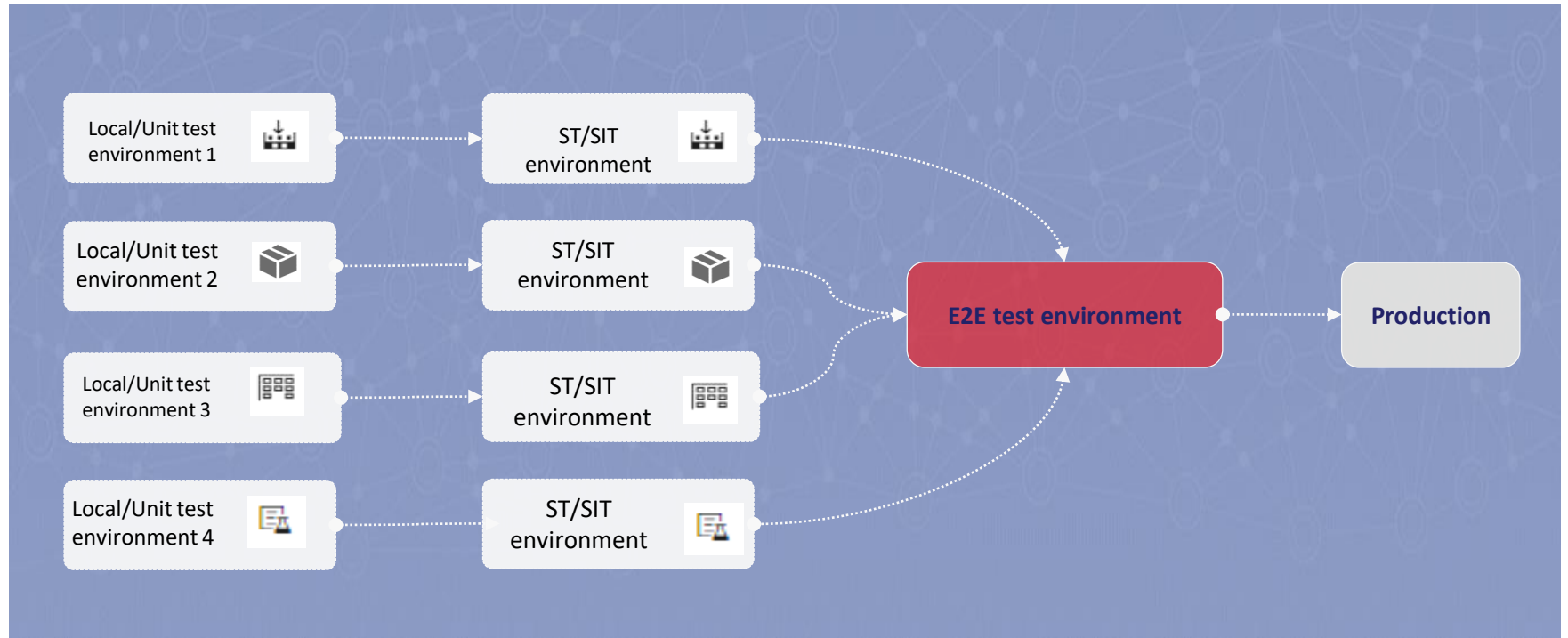
Using Service virtualization to plugin gaps in E2E test environment

Attempt to fix E2E test challenges using Contract testing



Using Contract test to tackle challenges introduced by microservices

Have we solved the hot-gates problem?



What can we do now?

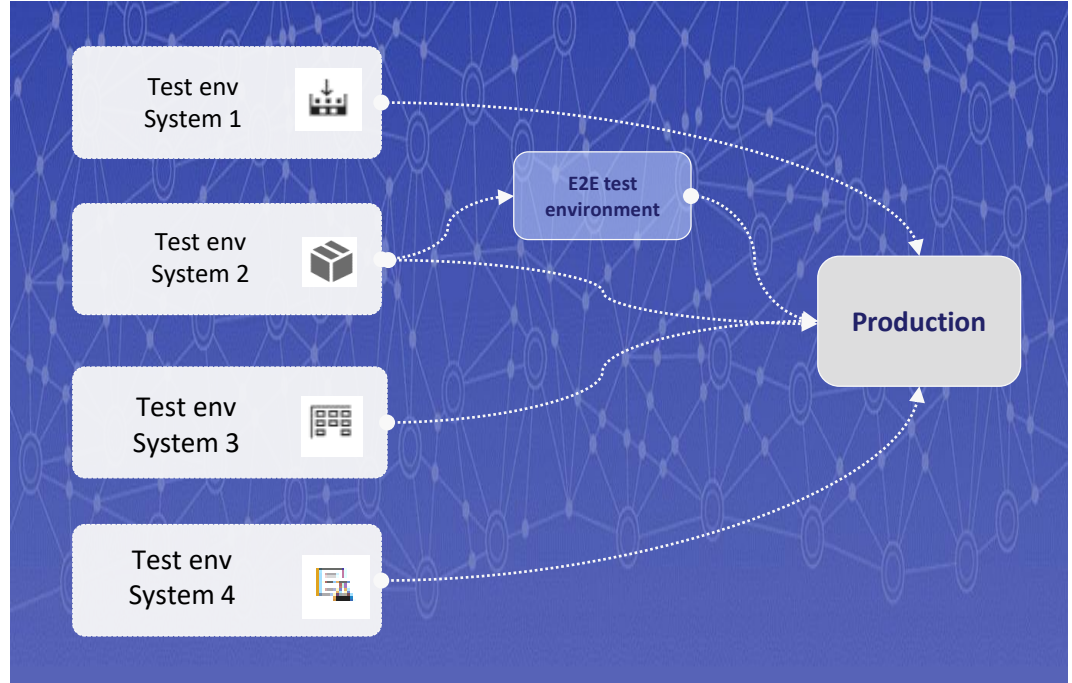


Can we **break** the hot-gates?

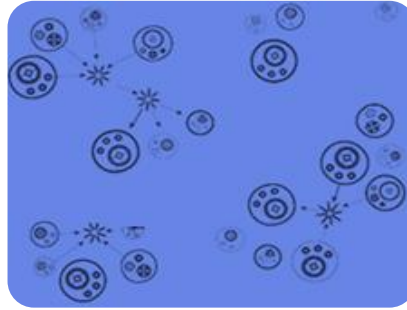
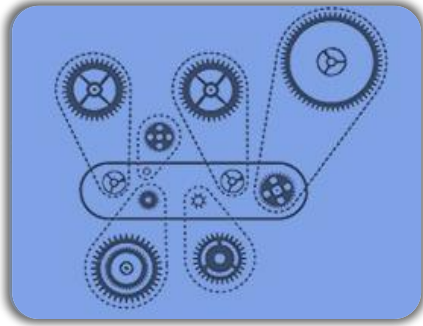


Can we **bypass** the hot-gates?

“Thermophylae” like strategy for QA



Redefining the challenge

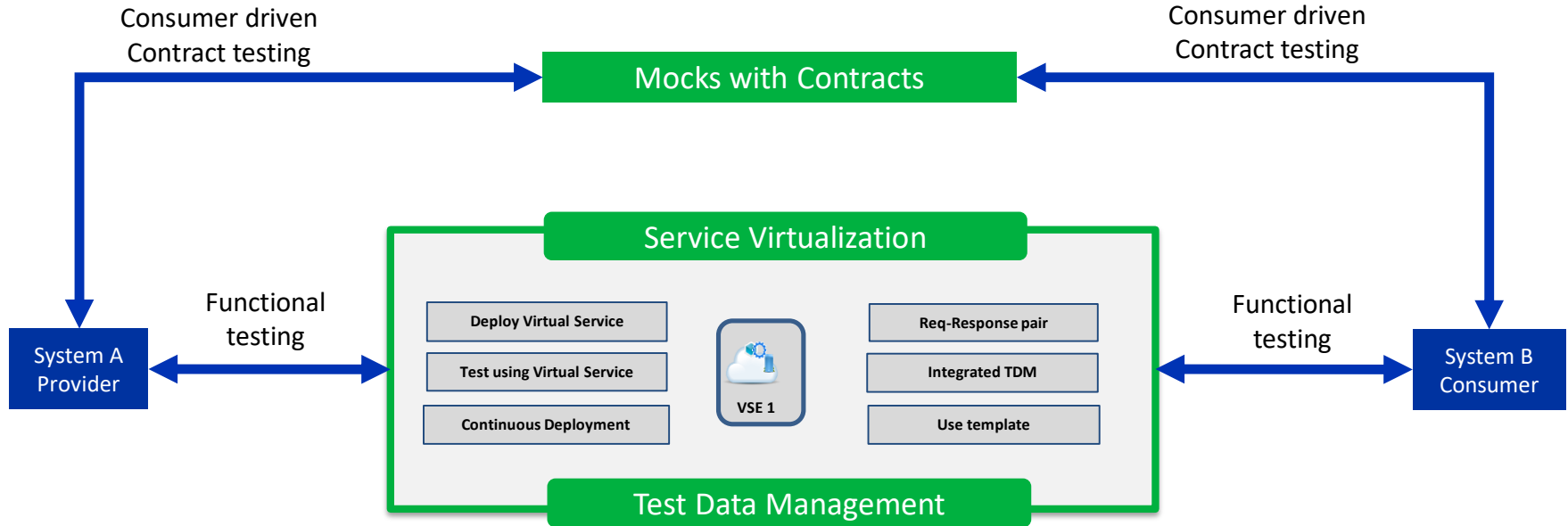


**No dedicated
E2E test
environment**

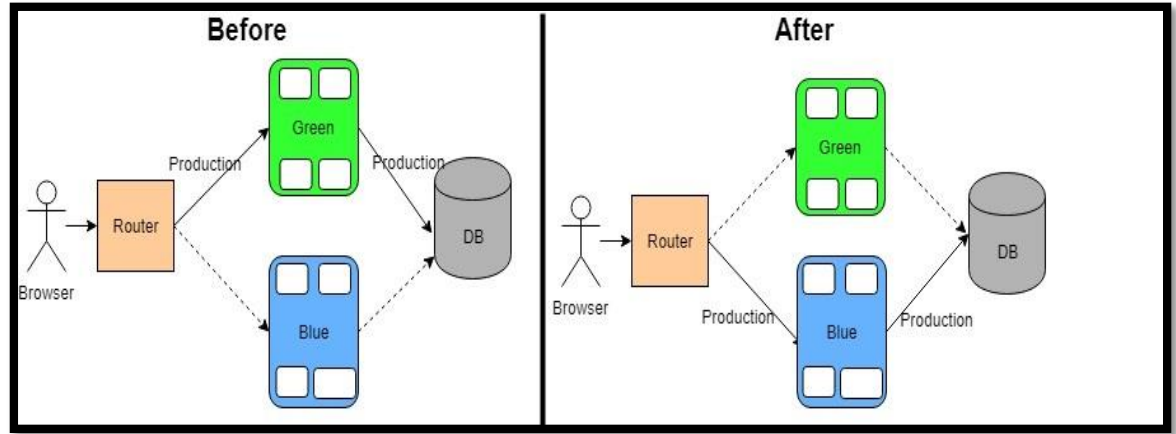
How to fix E2E test environment challenges?

How to perform E2E test without E2E test environment?

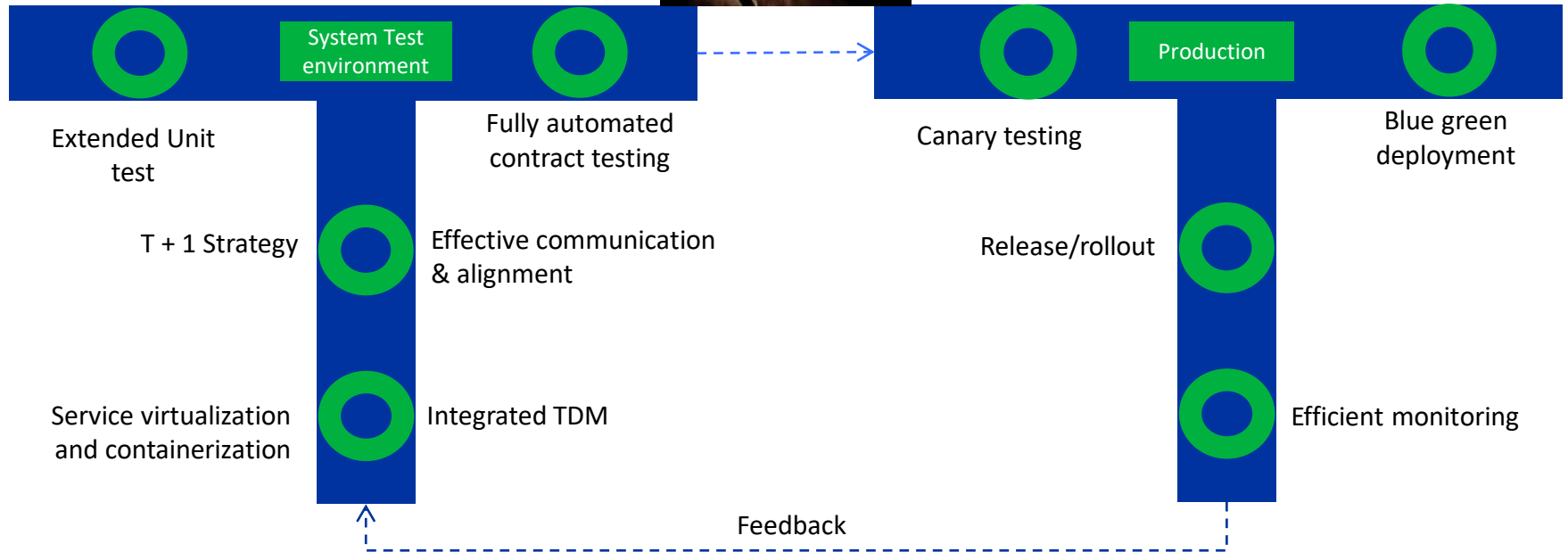
Avoid E2E test environment with an orchestrated approach



Avoid E2E test environment by Testing in Production



E2E test environment bypassed



Thank you