FinTech下的QA

演讲人：Roy Tan

Agenda

- Fintech Products in Moody's Analytics
- What Does it Mean to QA?
- Testing Strategy Overview
  - Data Layer Testing
  - Service Layer Testing
  - UI-layer Testing
- What's Next?

Moody's Analytics

Rating Services

MOODY'S

CreditView

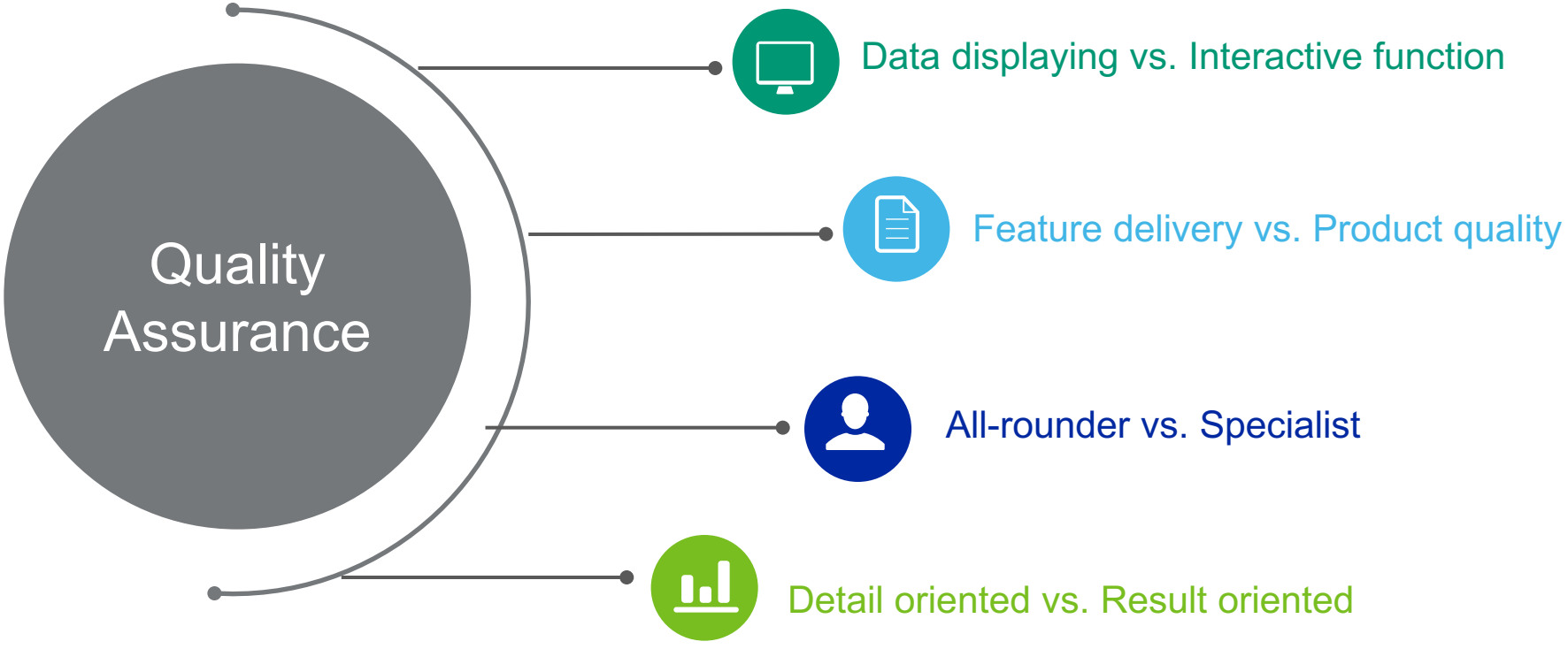
Content

Features & Functionality

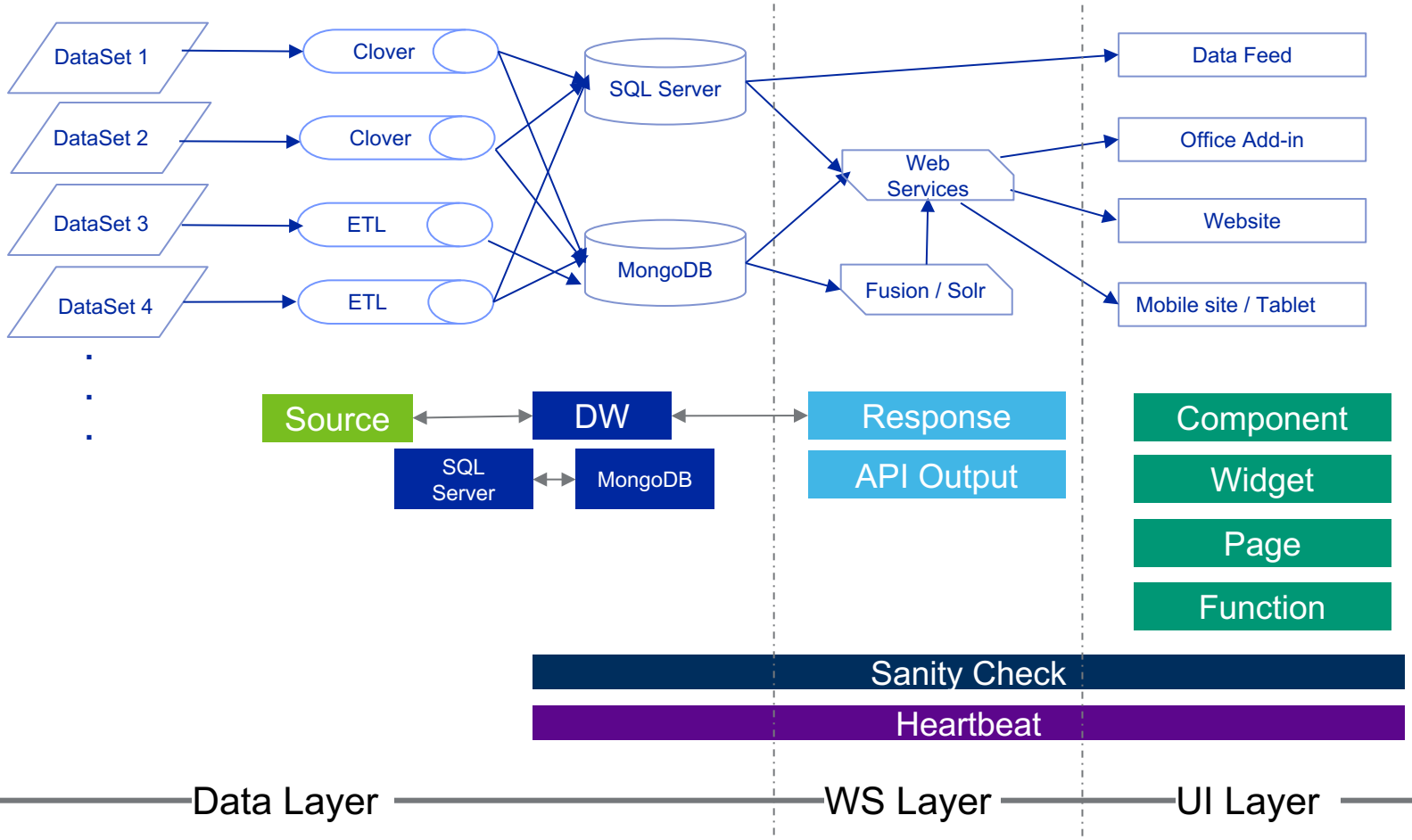
Channels / Capabilities

Modern, Intuitive Design

What Does It Mean to QA?



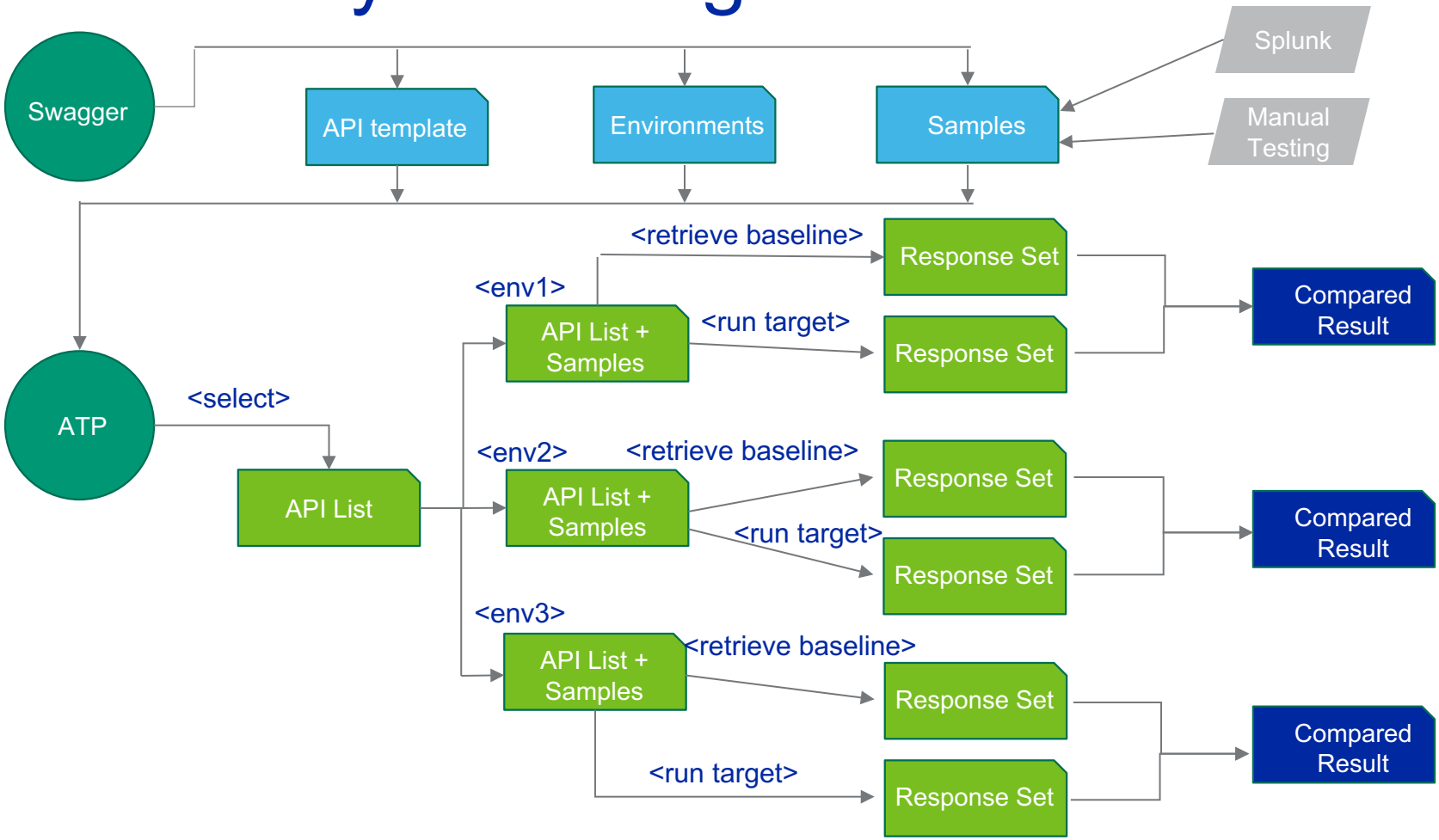
Testing Strategy Overview



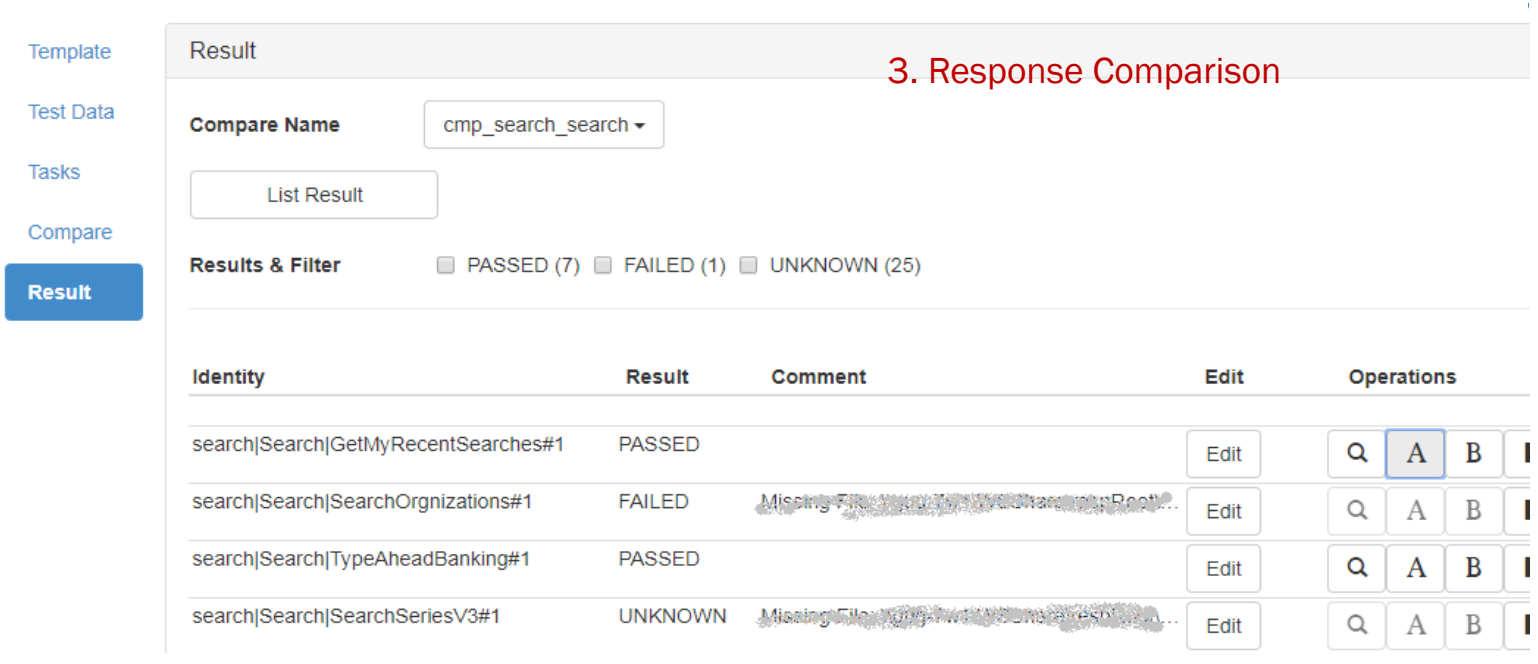
Data Layer Validation

- Comparison based on rows
- NoSQL → Structured data
- Baseline 1 + Delta N == Baseline 2
- Version A vs Version B
- Automated testing framework (reporting; scheduling; monitoring etc)

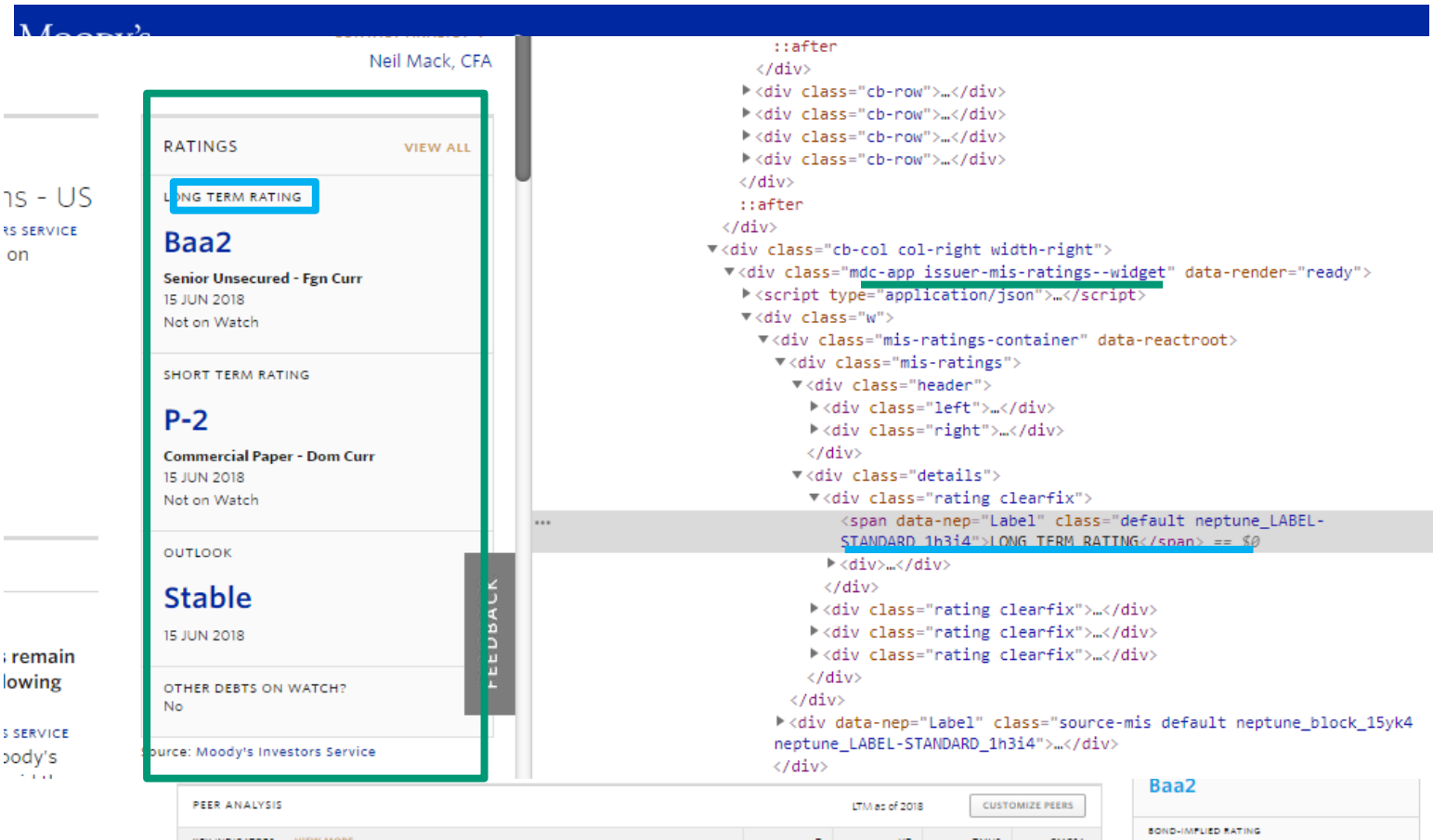
Service Layer Testing



Service Layer Testing

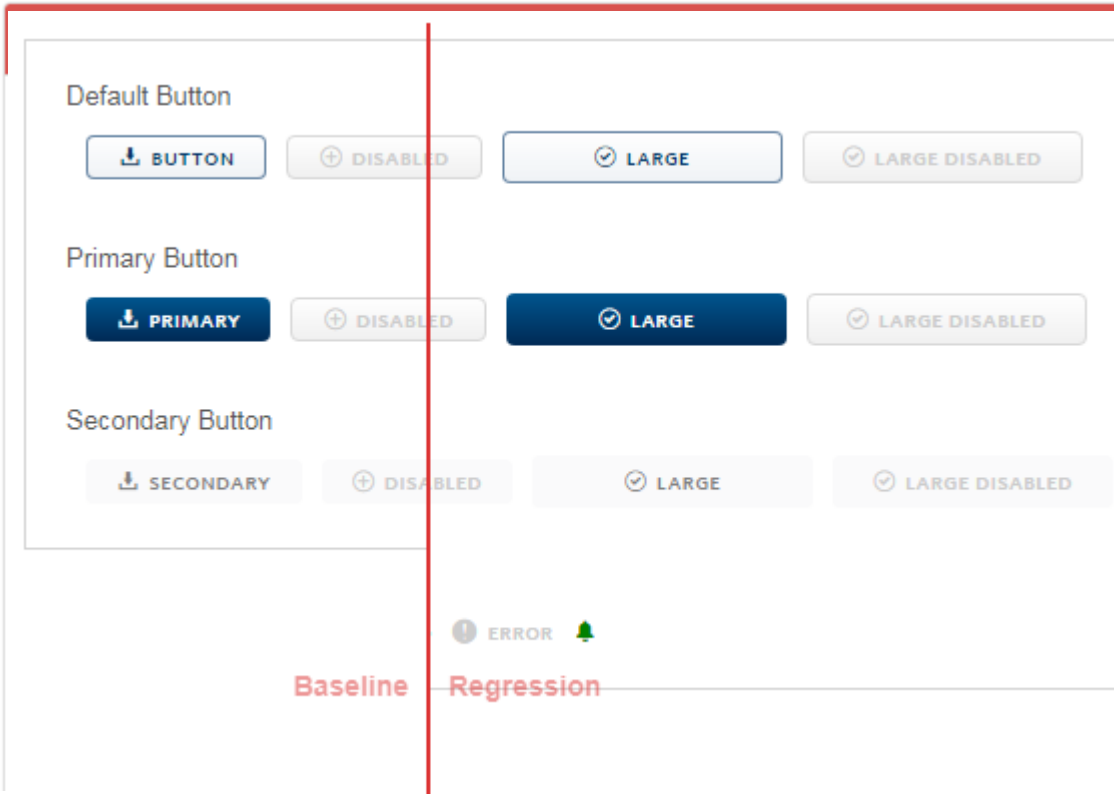


UI Layer-test



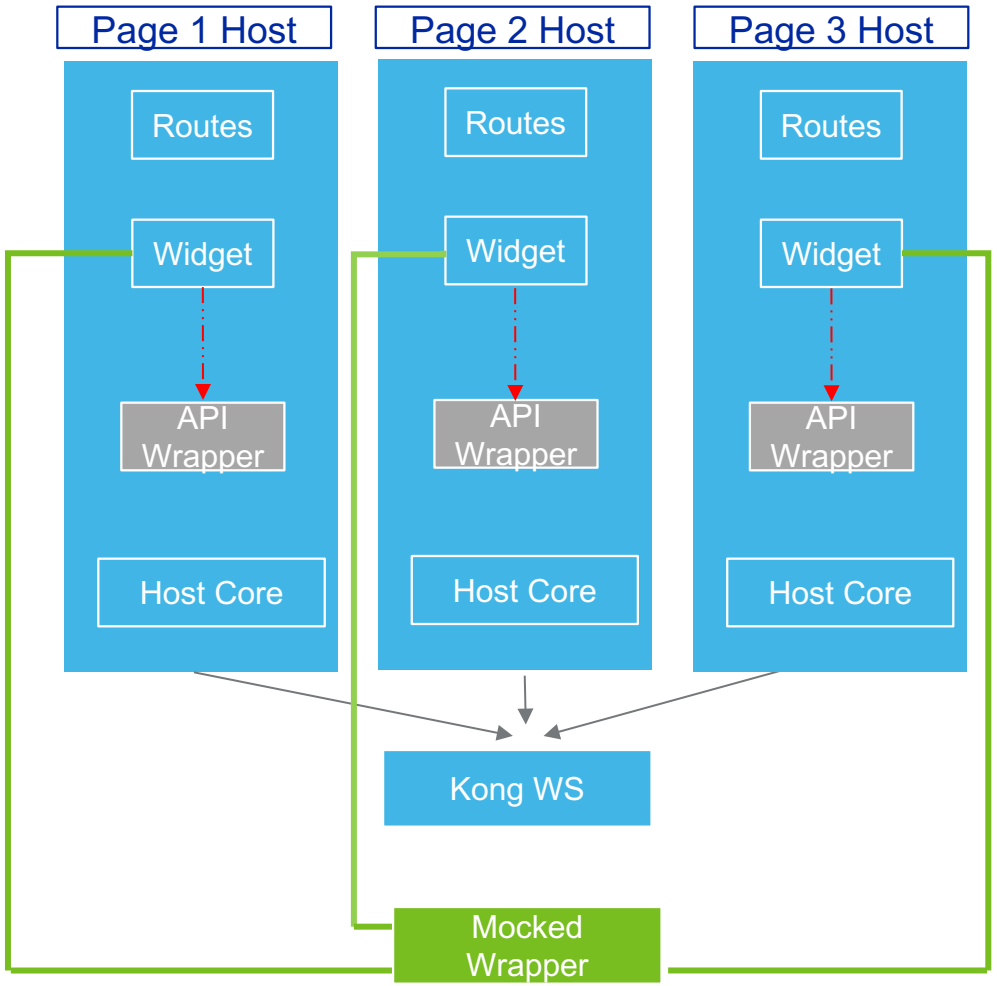
Component Testing

- Testing Strategy
  - Take snapshot of component
  - Compare with previous one
  - Highlight differences
- Benefits
  - Testing component specifically
  - NO scripting
  - Integrated with CI

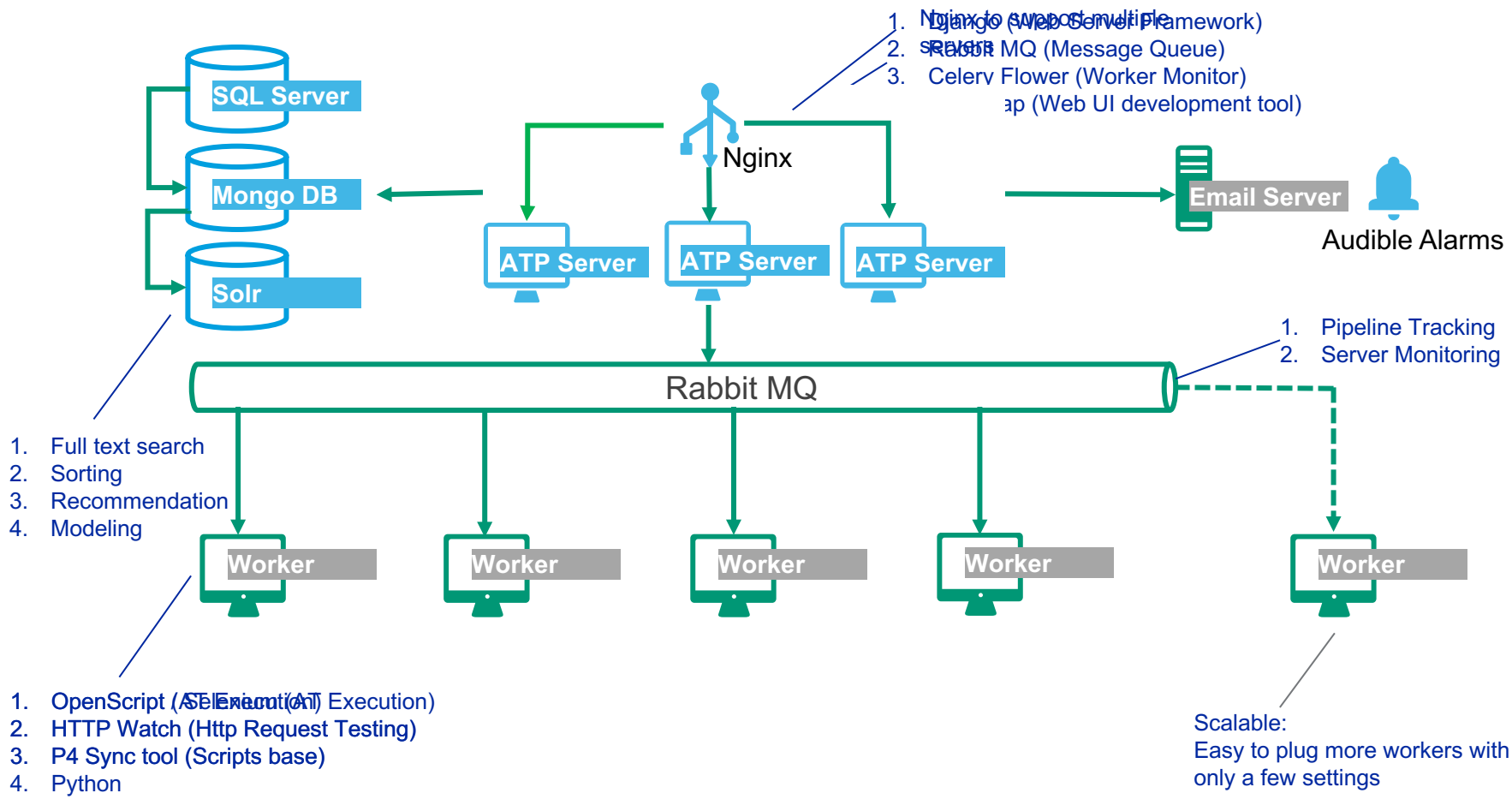


Widget Testing

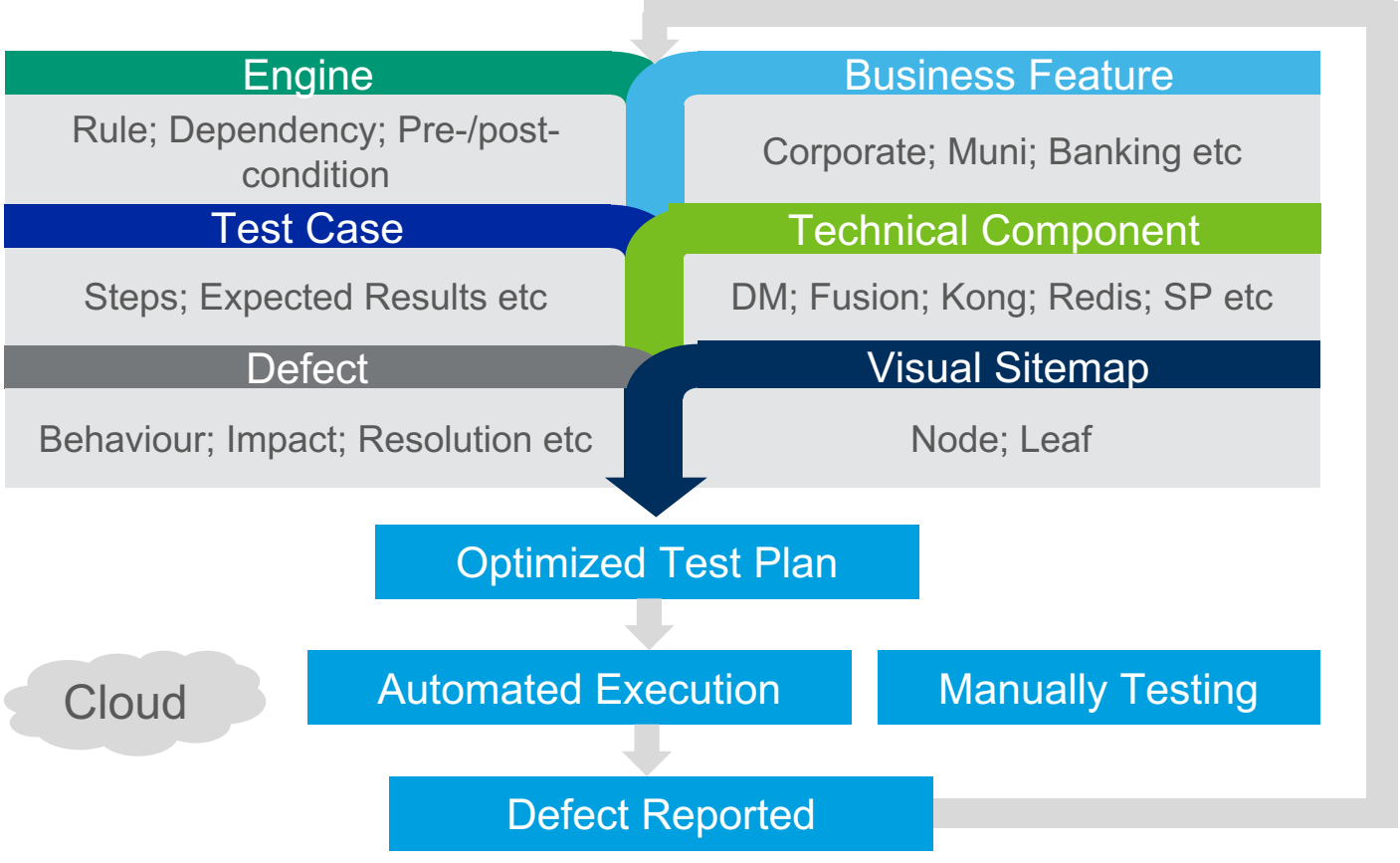
- Testing Strategy
  - Mock the wrapper API response
  - Take snapshot of the rendered widget
  - Compare with previous one
- Benefits
  - Testing widget specifically
  - Less scripting
  - Focus on impacted feature



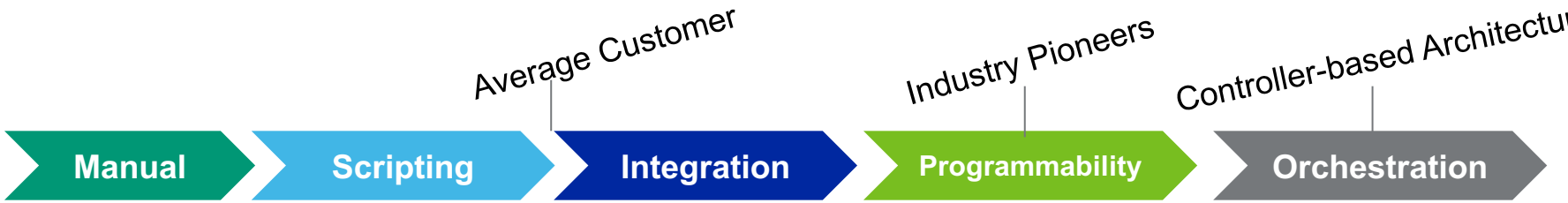
From Scripting to Process Automated



Model-based Testing Cycle



Automated Testing Roadmap



- Enhance coverage; stability; accuracy
- Easy to maintain
- Layer-testing
- Integrate end-to-end test process
- Model-based testing
- Dynamic execution
- Integration with DevOps
- Testing as service
- Micro-test
  - Move to locate root cause from report defect
  - Forecast defect cluster
  - Self evolution

- By David Meyer Chief Scientist of Broadcom

THANK YOU