

# FMG's Test Team journey to date

# What led us here

- Team structure was not conducive to having a person responsible for Test Competency;
- Doing a lot of manual testing, automation testing is a bit of an afterthought;
- Team, who are very passionate about quality, aiming to 'test everything'; change failure rate is low;
- Testing is being seen as a bottleneck;
- Reestablishing Test Manager role;
- Engaging with QualIT and Assurity to provide thought leadership;

# Where we are today - People

Automation Test Analysts



Test Analysts (Manual)

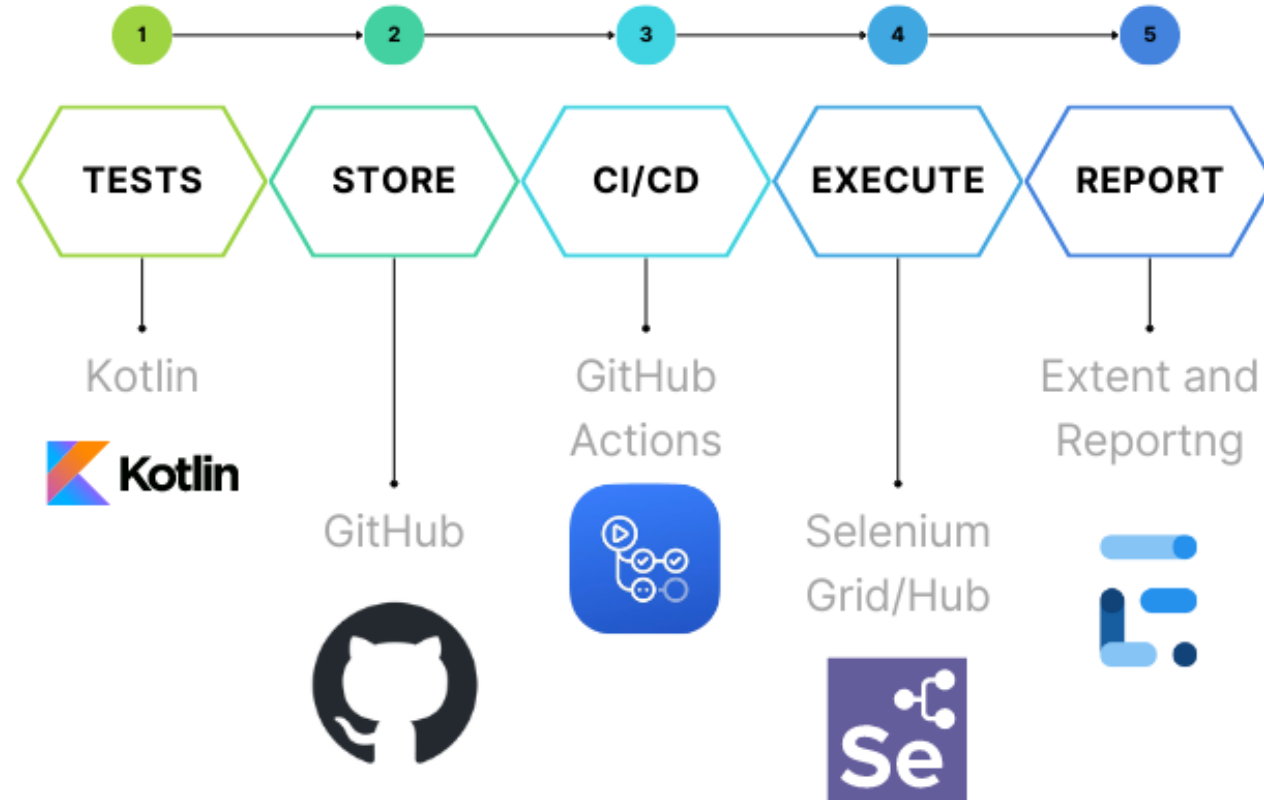


Cross functional delivery team

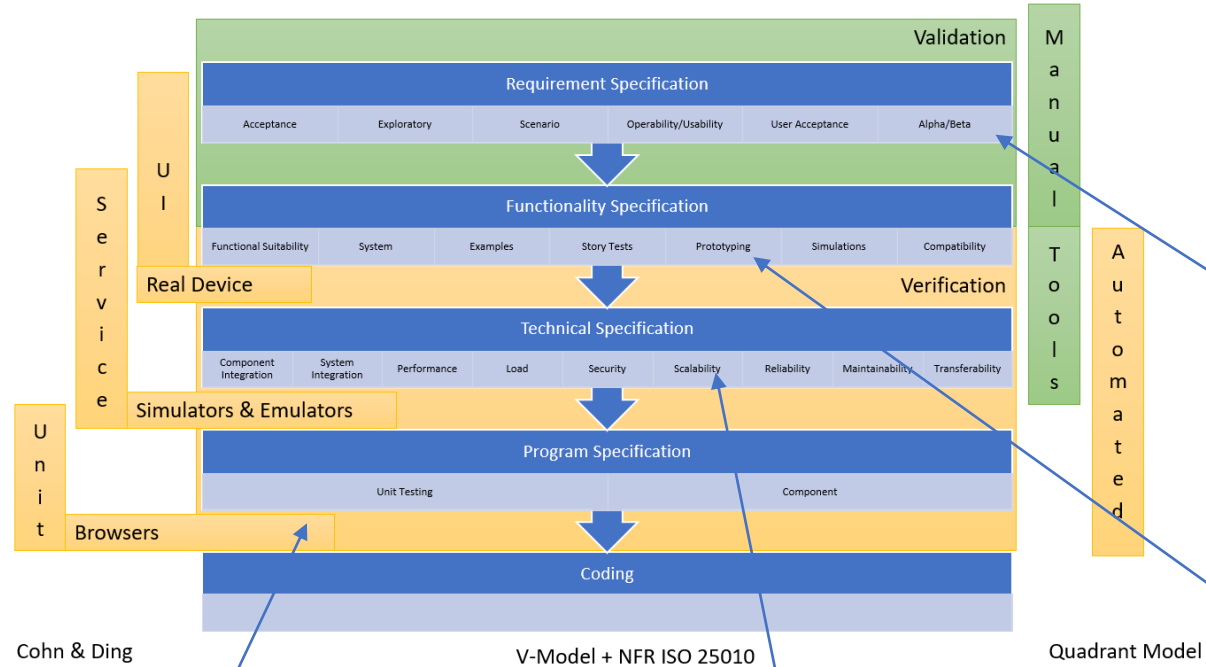


# Where we are now – tools (automation framework)

## Current Automation Framework



# Where we are now – tools



- Requirement Management (Rally, Zeplin)
- Test Management (Rally, Excel)
- Incident Management (Service Manager)
- Modelling
- Review Tools (Rally, Confluence)
- Static Analysis (SQL, Github)
- Defect Tracking (Rally, Service Manager)
- Environment Provisioning (SQL Server, Jenkins)
- Configuration Management (Github, Jenkins, Gradle)
- Test Data Preparation (SAS, Actifio, MiniMe, H2 Data)
- UAT (Outlook, Excel)

- Dynamic Analysis (Appdynamics, google analytics)
- Monitoring & Alerting (AppDynamics & TBC)
- Performance Testing (NEOload)
- Security Testing

- Compilers (Github)
- Test Harness/Unit Test Framework (NewMan Postman plugin for GIT)
- Coverage Measurement (JaCoco)

- Test Design
- Test Execution (Selenium, Rosie/Selenide/REST)
- Test Comparators
- Data quality Assessment
- API Testing Tools (SoapUI, ReadyAPI, Postman, Keeper)
- Cross-Browser / Mobile (SauceLabs)

## Where we are now - Process

- Working on Standardizing QA Practices (Test Planning, Defect Management)
- Assessing how we use Test Environments and Test Data and focusing on how this could be aligned to our strategic views
- Focusing on being involved as early as possible in the SDLC

# Future focus (Strategic Direction)

- Shifting Left
- Preventing defects over finding defects
- “Automation first” mindset
- Risk Based testing approach
- Automation and Manual testing capabilities as a part of cross-functional delivery team
- Thriving towards Quality Engineering



Reactive Approach



- Manual Functional Testing
- Minimal Processes
- Limited test automation
- Minimal use of tools
- Lack of metrics



Proactive Approach



- Streamlined environment (better flow, faster feedback)
- Risk-based testing
- Well-defined processes
- Test automation focus
- Defects/Incidents Root cause analysis
- Metrics-driven
- Build an understanding of our shared responsibility for quality



Shift-Left Driven Approach



- Targeted test automation, data & environment use
- Extensive tools leverage
- 80% of the team with automation skills
- Focus on developing our 'Product' mindset



DevOps Driven approach



- Continuous testing to support continuous deployments
- Shift Left and Shift Right aligned
- User experience focus
- T-Shaped team members
- Introduction of SDET role?



Cognitive Approach



- Seamless Product/technology collaboration
- Quality Assistance
- Predictive Quality (Exploring AI/ML possibilities)





Questions?