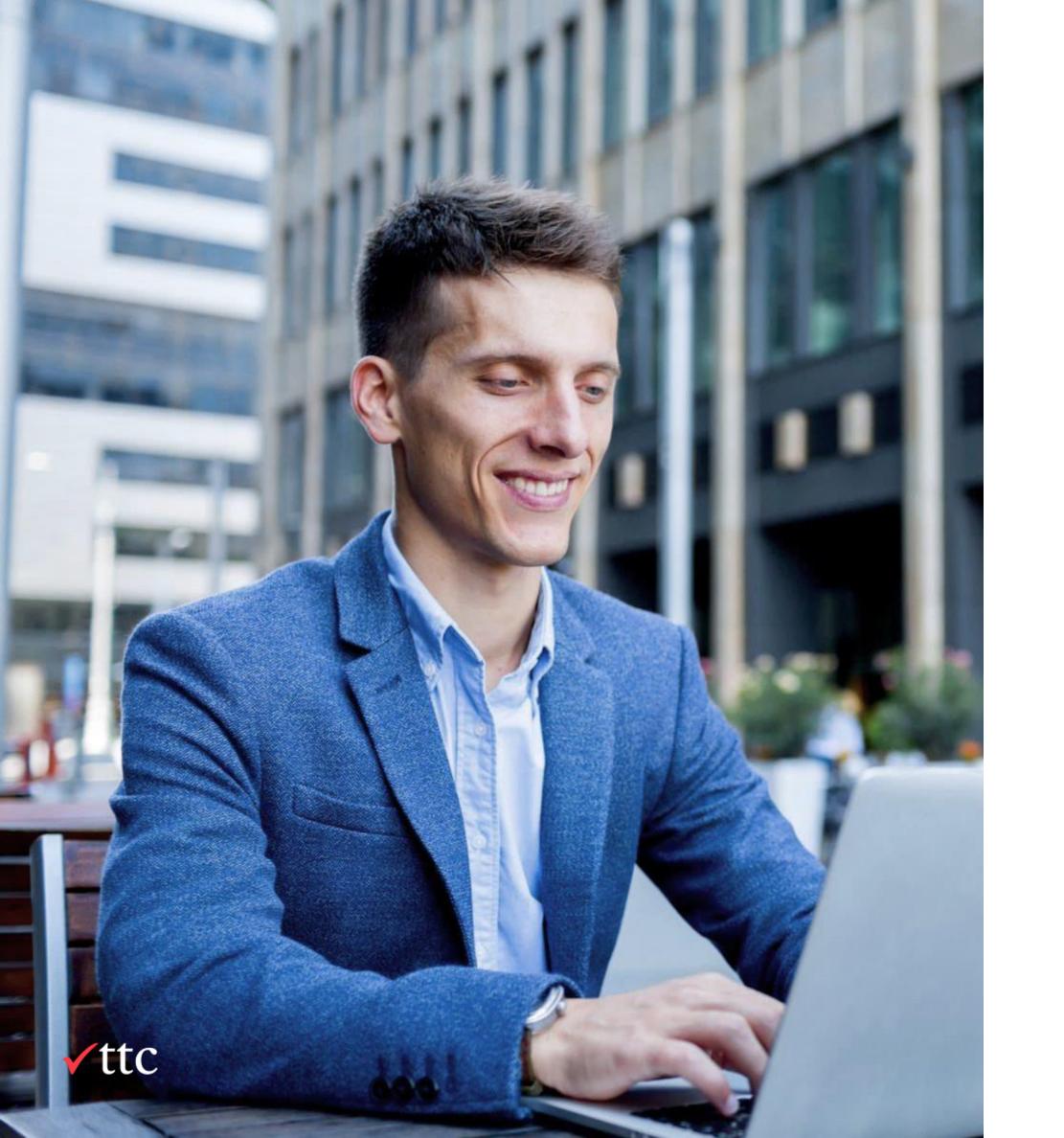


Automation at a Large Government Department

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Introduction of Craig Moir

Over 15 years working in testing

Over 10 years focus on Test Automation

Established and managed an Automation team



Overview



Automation Team Journey



Transition to Agile

Tools

Main Regression





Reduced from 1920+ hours testing effort to 160 hours





8 weekly to 2 weekly release process

Test Environment User Setup



Reduced from 2000 hours to 25 hours (Yearly)





Reduced Turnaround time from days to minutes

Other Notable



Automated Windows 10 Update suite (100+ applications)

Automated Data setup jobs (self-service via Jenkins)

Ran/updated automation suites for multiple system upgrades, replacements over 8 years

Automated Environment Sanity tests (40+ environments)

Organisation

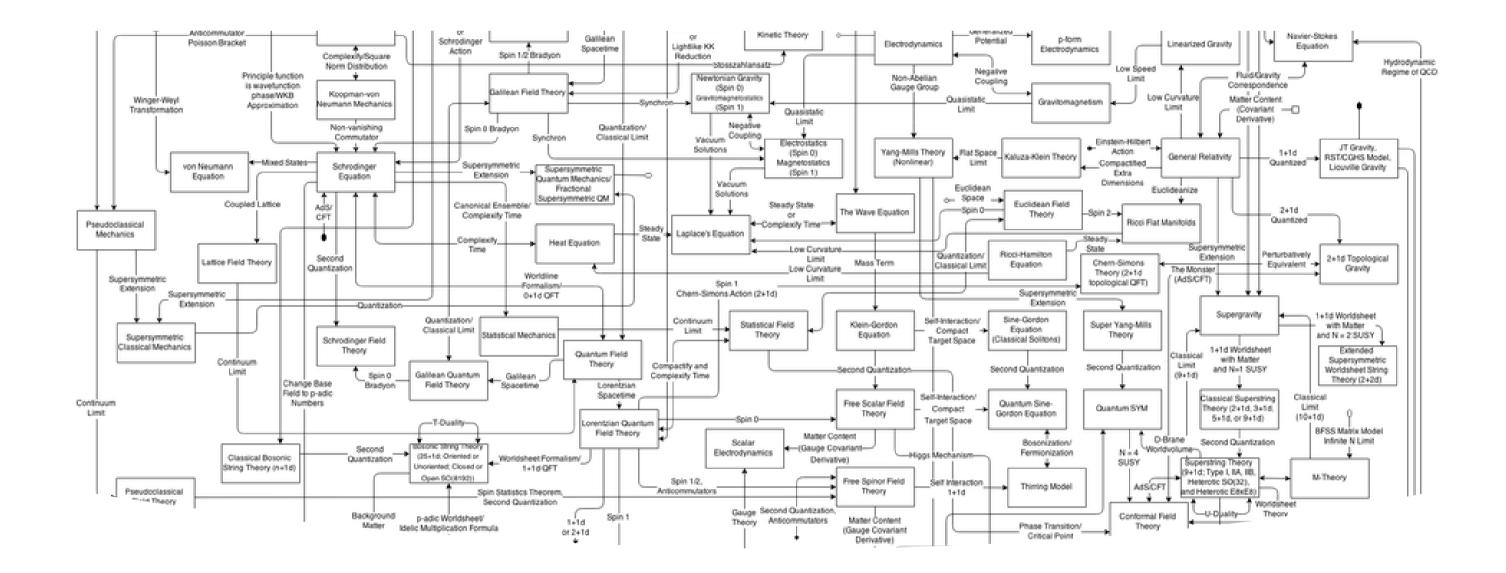
Over 9000 staff

Large IT shop



Large Government department

Complex Systems





Structure 9 Years Ago



Mostly waterfall, some Agilish teams



Project teams created for large pieces of work





Centralised testing services, engagement to get testing recourses allocated



BAU teams for regular releases

Automation Team Creation

Setup the Automation team (2013)

Regression

The types of tests were end to end, going across multiple applications

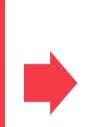


Started with Sanity, Smoke, Core

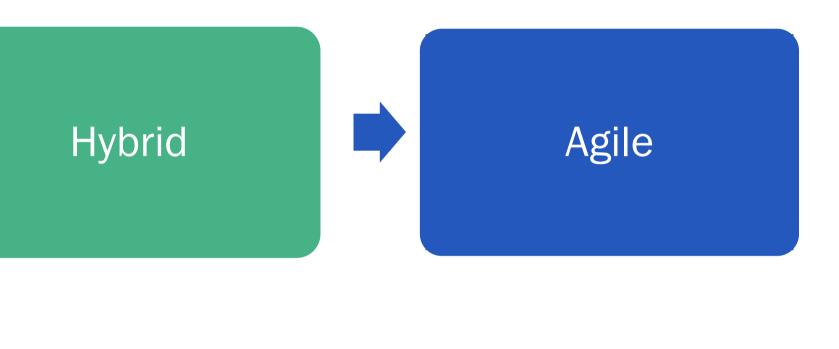
Transition

Mostly Centralised

Mostly Water Fall







Continuous Improvement

√ttc

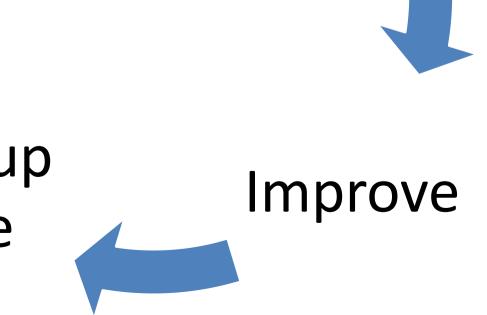
Quarterly

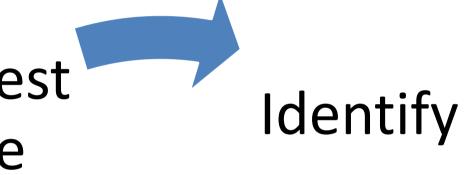


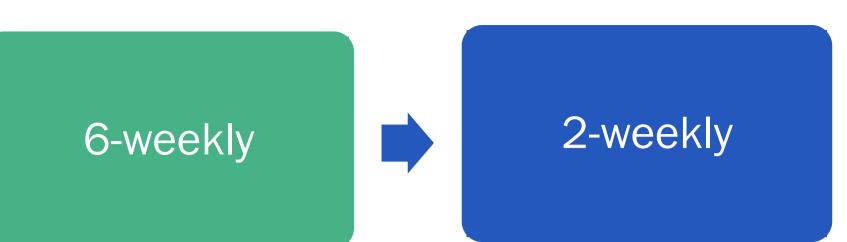
Reinvest Time



Free up time







Current Team Structure

- > The automation team operates as a shared service + capability support
- regression suites and the rest are imbedded in agile teams
- some automation or want to learn automation.



Embedded team members support the cross-application

> Additionally, the team supports manual testers who do

Team Day to Day Operations

➢Run and maintain regression for releases >Run and maintain sanity tests and log defects for environments

Maintain and execute User Setup scripts for environment access



Tools

Tosca

- Jenkins
- Dex
- Tosca Reports

Selenium + Java

- Jenkins
- Selenoid
- BDD HTML reports (Jenkins)

Playwright + Python

- Jenkins
- pytest (xDist)
- pytest HTML reports (Jenkins)



Tools (cont)

vttc

pDev

- Manual Testing
- Open Source
- Tosca on request



- Tosca 80%
- Open Source 20%
- Targeted manual Regression

• Tosca 100%

Take Away

Dedicated Team Focus on tests with the best ROI Maintainable scripts Focus on improvements Appropriate tools



- Free up our time to further improve

Thank You

If you have any questions, feel free to ask or contact me later.





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