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Model-Based Testing for UFT One and UFT Developer: Optimized Test Script Generation March 12, 2020



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Vivit's Testing Quality and ALM Special Interest Group



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House Keeping

- This “LIVE” session is being recorded
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- Session Q&A:
Please type questions in the Questions Pane

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Questions



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Model-Based Testing for UFT One and UFT Developer

1. 5 Barriers to successful test automation
2. A new approach to test automation
3. Demo: Model-based test automation for UFT
4. Questions and discussion



5 Barriers to successful test automation

The need for greater automation is widely known today

- **2018:** 90% of organisations believe that test automation allows QA to perform their tests quicker.¹

But, 2019-20: automation rates still remain too low

- World Quality Report: 19% of UATs are being automated.
- 50% of respondents cite an inability to apply test automation at appropriate levels as a challenge when applying testing to agile developments.

What are the reasons for low automation rates?

1 - Panaya and Vanson Bourne (2018). Retrieved from <http://www.devopsonline.co.uk/14159-2-ai-and-automation-vs-human-testers/> on 8 July 2019.

5 Barriers to test automation adoption

Automating test execution alone does not 'fix' testing

1. Automated test creation remains manual.

- “Script creation/maintenance” is one of the most time-consuming QA activity for 27% of organisations.¹

2. Low test coverage persists, leaving systems exposed to costly defects.

- World Quality Report: 43% of respondents cite identifying the areas to focus tests as a challenge when applying testing to agile development projects.

3. Test data creates bottlenecks and destabilises automation.

- World Quality Report: 48% of respondents cite “Challenges with Test Data and Environment availability and stability” as preventing their desired level of test automation.

¹ – Perforce (2020). Retrieved from <https://devops.com/survey-sees-little-progress-in-drive-to-shift-testing-left/> on 1 March 2020.

5 Barriers to test automation adoption

Automating test execution alone does not 'fix' testing

4. Brittle automated tests need maintaining manually after every change.

- [World Quality Report](#): 65% of respondents cite difficulties in automation “because our applications change too much with every release.”

5. Automation code is rarely re-usable and there are not enough skilled engineers to share the burden of scripting.

- [World Quality Report](#): 39% cite difficulties reusing and repeating tests across sprints/iterations as a challenge when applying testing to agile developments.
- 46% lack the skilled “test automation resources” needed to achieve their desired automation rate.



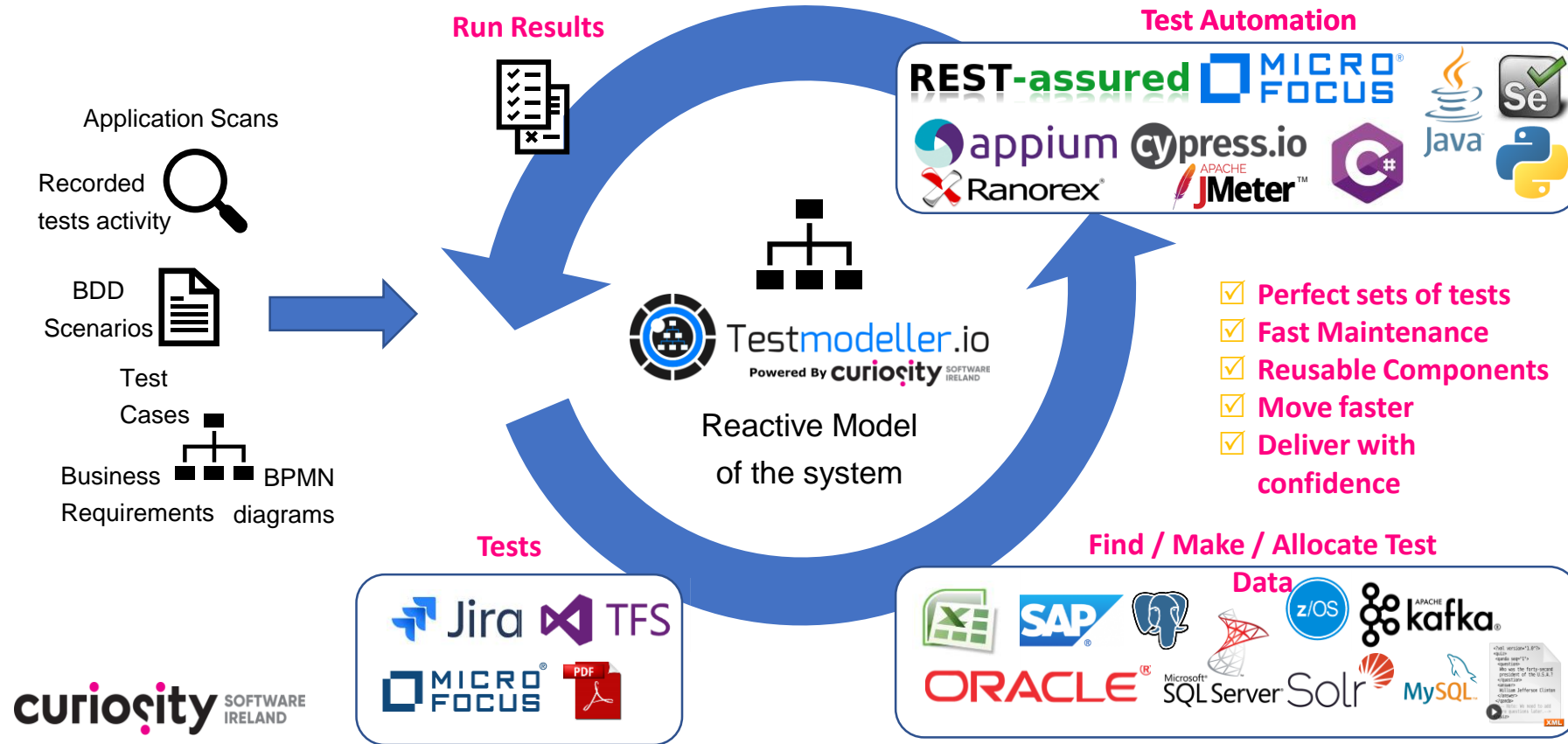
A new approach to test automation

UFT: *Part of the solution, not problem*

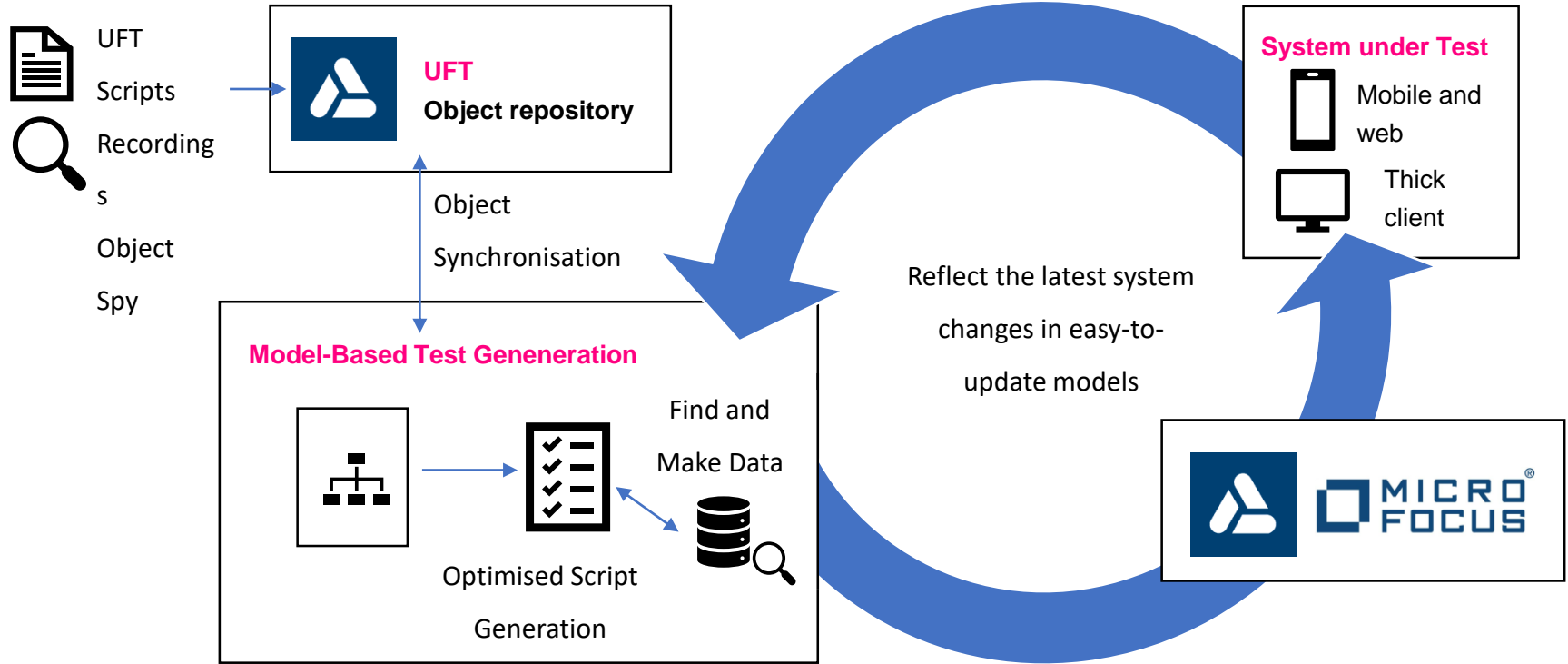
- Micro Focus has introduced lots of new and fantastic functionality to meet these automation challenges head on.
- The newly established “UFT Family” supports faster, less repetitious test authorship. It provides:
 - IDE templates
 - An object Spy and recorders
 - Growing language support
 - An easy-to-use Object Repository**...And much more!**
- What happens when we combine this with the power of MBT? How can we further avoid repeating code, increase test coverage, and maximise velocity?

Model-Based Test Automation?

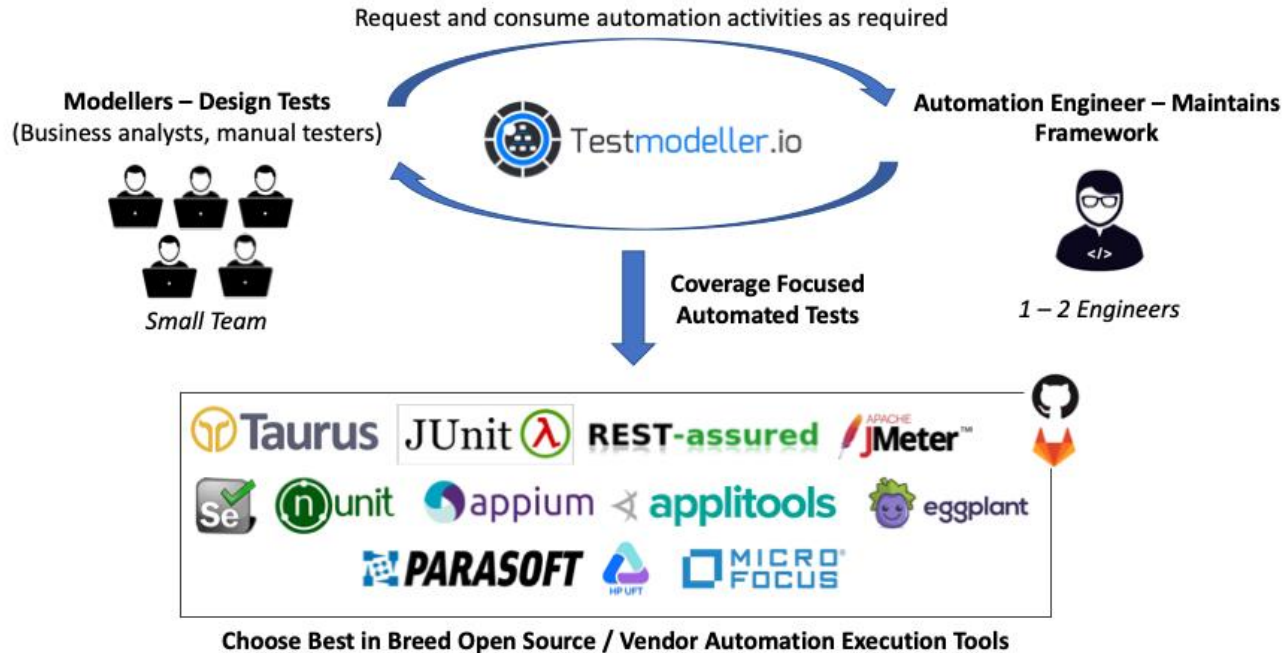
New
Iteration



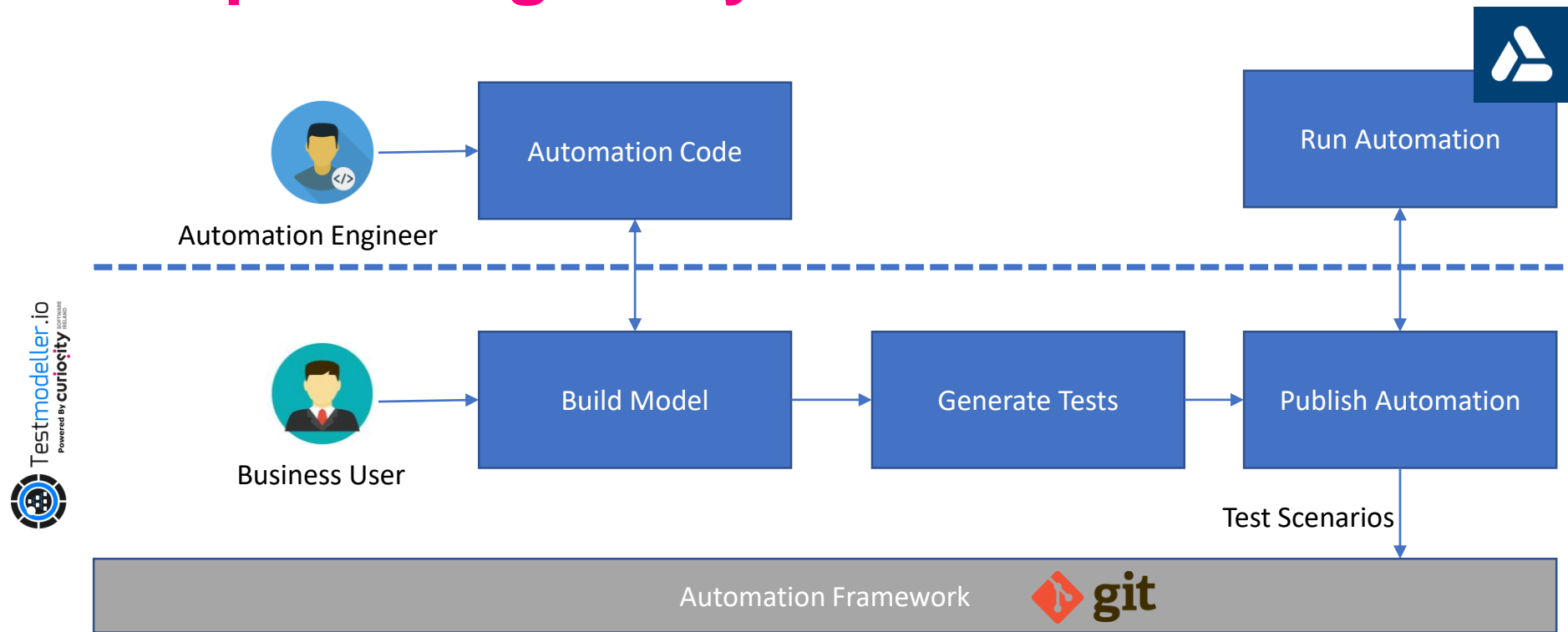
MBT for UFT



“Business” testers can re-use the automation



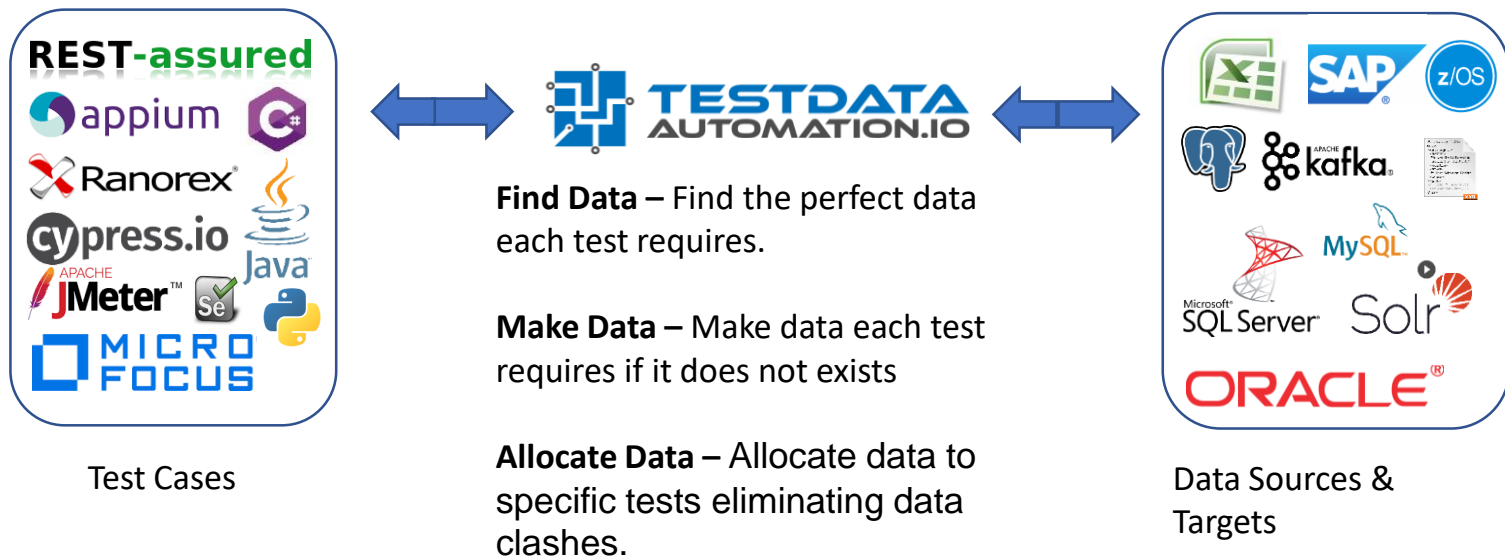
Empowering everyone to automate





Demo

Preparing Test Data - Find, Make and Allocate



Let's see this in action!



Demo

Model Based Test Automation vs Barriers to Test Automation

5 Barriers to Test Automation	Model Based Test Automation
X Slow and repetitious test creation.	✓ Auto-generate tests from quick-to-build flowcharts.
X Low Test Coverage	✓ Apply coverage algorithms to create the smallest set of tests needed for rigorous testing.
X Test data creates bottlenecks and destabilises automation.	✓ Define dynamic data functions that resolve during execution for each automated test, or use high-speed data allocation to automatically find or make data for every possible test!
X Manual test maintenance.	✓ Simply update the easy-to-maintain flowchart models and auto-update tests.
X The central team of engineers are over-burdened.	✓ Custom-created automation is available in a flexible “low code” approach, allowing anybody to automate their tests. Subflows are also fully re-usable.

Carry on the conversation?

- Got a problem to solve or questions to ask? I'd love to chat. Book a web meeting with me at calendly.com/curiosity-james
- Want to try MBT for UFT? Visit Testmodeller.io for a free trial and work through our free online UFT tutorial.
- Connect with me on linkedin.com/in/automationjames or follow [@CuriositySoft](https://twitter.com/CuriositySoft) on Twitter for MBT resources and news.
- Drop me an email on James.Walker@Curiosity.Software

Questions & Answers

Please type your questions in the questions pane.

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Upcoming Vivit Events

March 31, 2020

Meeting: Vivit Ohio User Group & Micro Focus Meeting - Automate Complexity. Boost Release Velocity

From 8:30 AM to 11:00 PM EST (Breakfast Included)

<https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1344738&group=>

April 21, 2020

Meeting: Micro Focus Anwendertreffen "Testing in der Finanzwirtschaft" in Frankfurt (Main)

From 13:00 to 17:00

<https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1343129&group=>

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Thank you

- Complete the short survey so your Vivit leaders can better serve you in the future

<https://www.vivit-worldwide.org/>

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Thank You
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