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George BLUNDELL

"Complete" In-Sprint Testing Using Collaborative Models

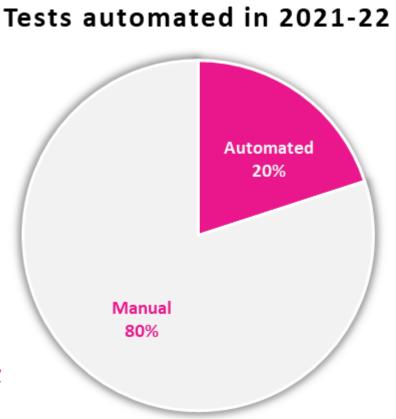
1. The "combinatorial" explosion Understanding the mountain to climb

Image by pressfoto on Freepik

"an average of between 15% and 20% of tests being automated"

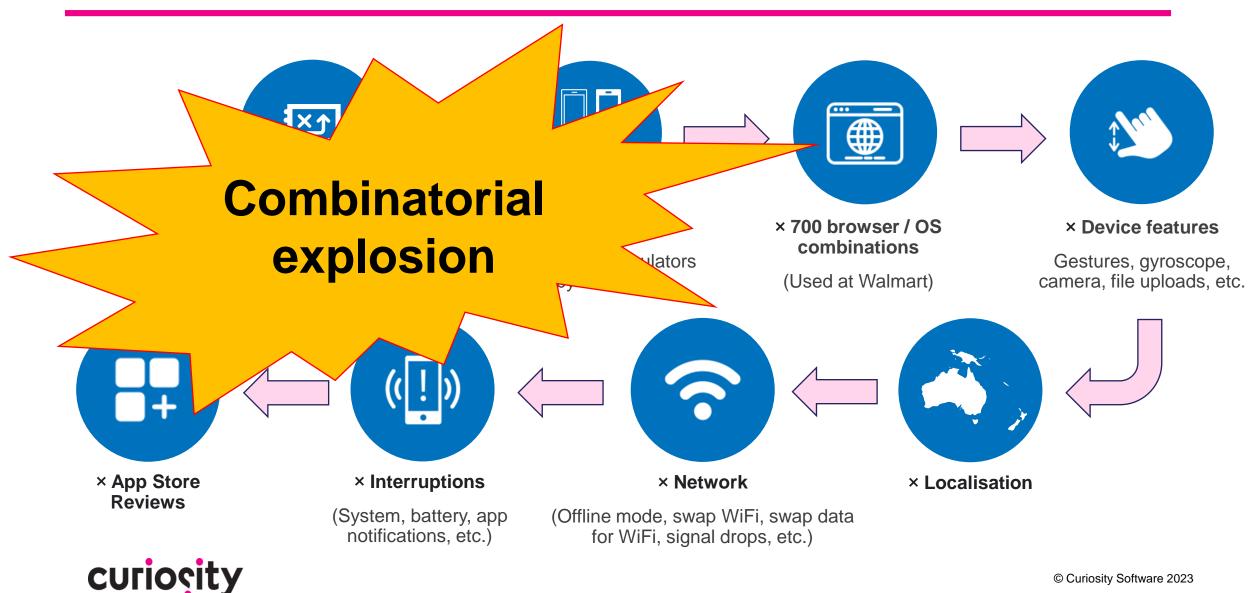
"Regression testing appears within this 15% - 20% band"

Capgemini, Sogeti (2022), The World Quality Report 2021-22, P. 23. Retrieved from <u>https://www.capgemini.com/insights/research-library/world-quality-report-wqr-2021-22/</u> on December 12th 2022.



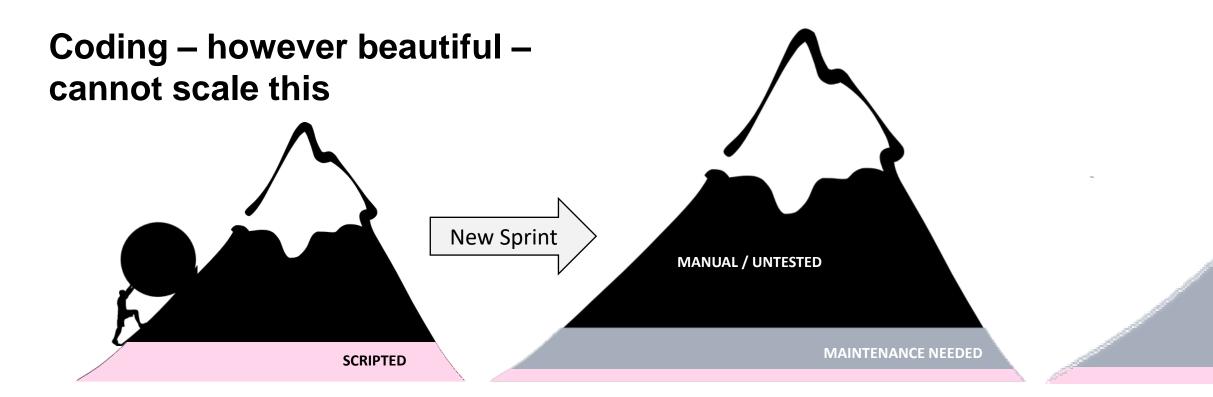


There's more than we can script



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How many skilled SDETs would you need?

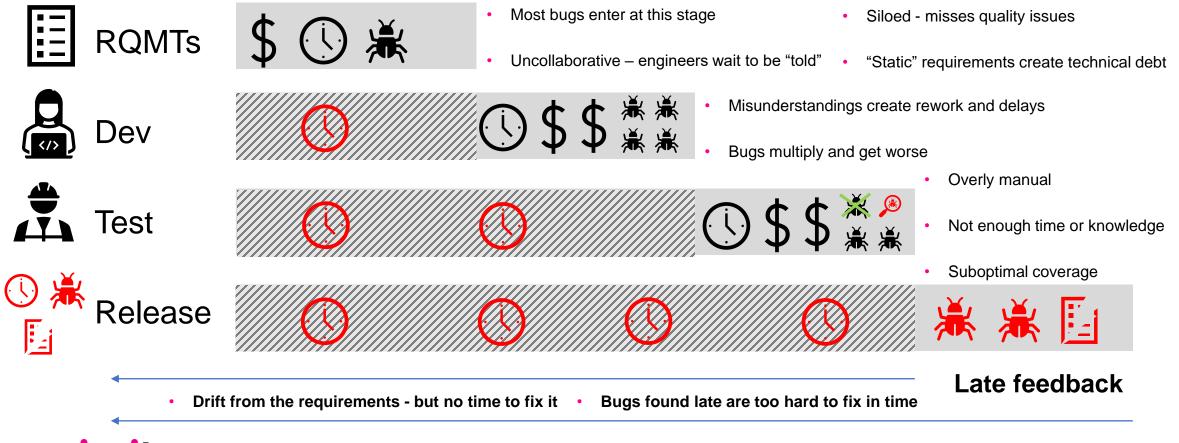


You need help from your "three amigos". Automation needs componentisation, reusability, and automated combinatorics.



The "Mini-Fall" pushes everything later

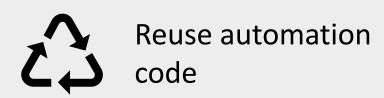
A 2-week iteration:





2. Model-Based Testing Using Collaborative Modelling to Scale Automation

Image by pressfoto on Freepik





Create a 1:1 mapping Automation and component



Autogenerate test scripts in one go





Optimise coverage to target changes

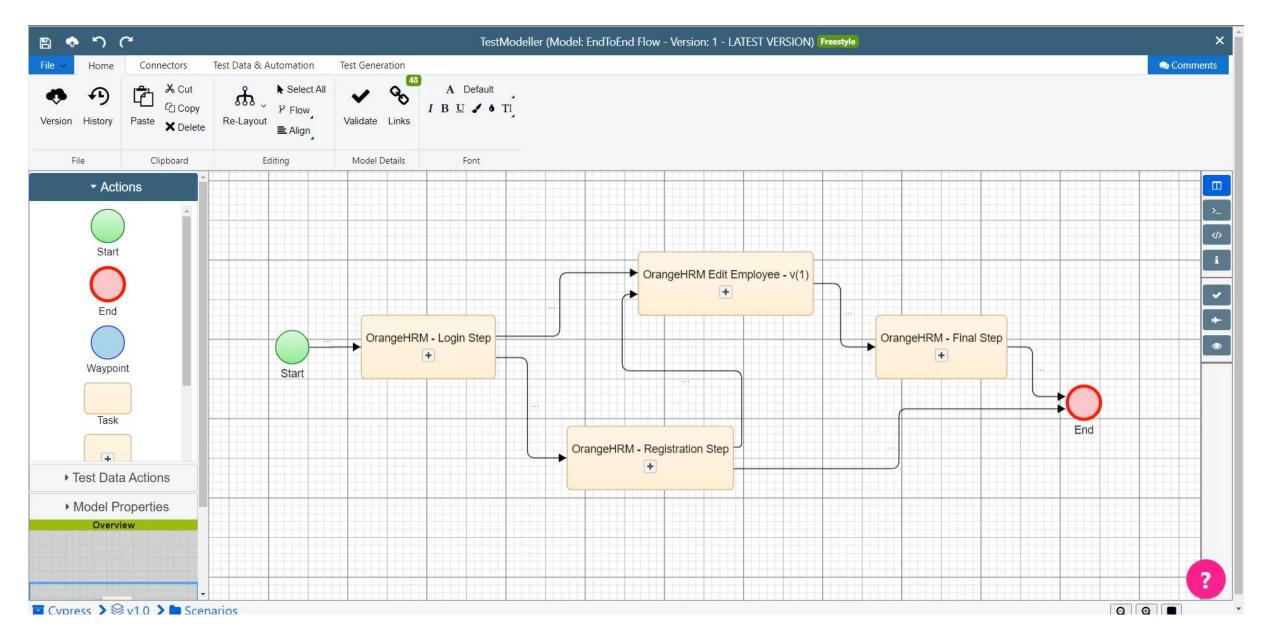


Offload complexity & repetition to automation



Demo

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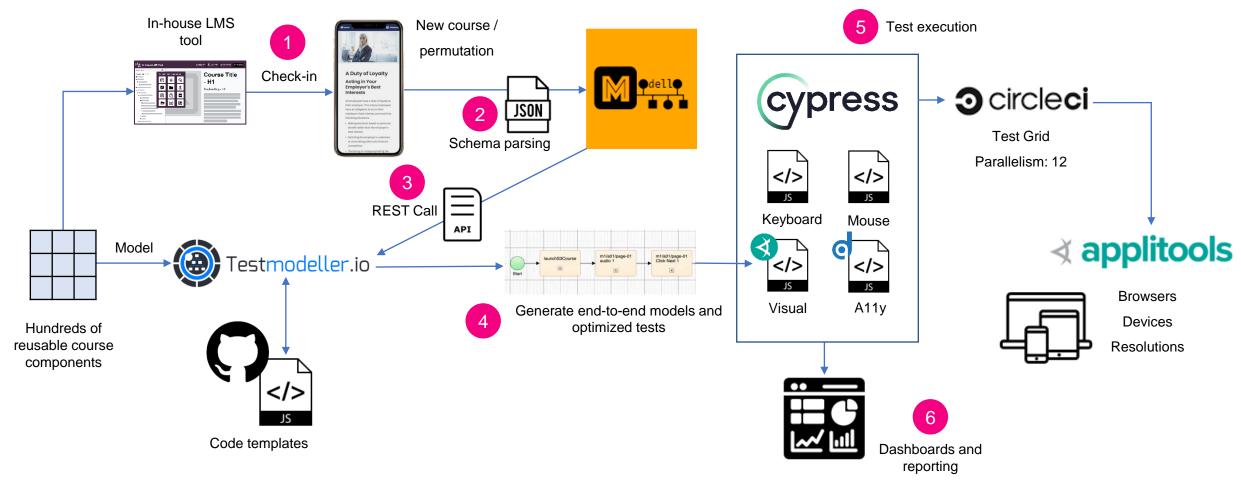


3. Routes into Modelling

Image by pressfoto on Freepik

An advanced application



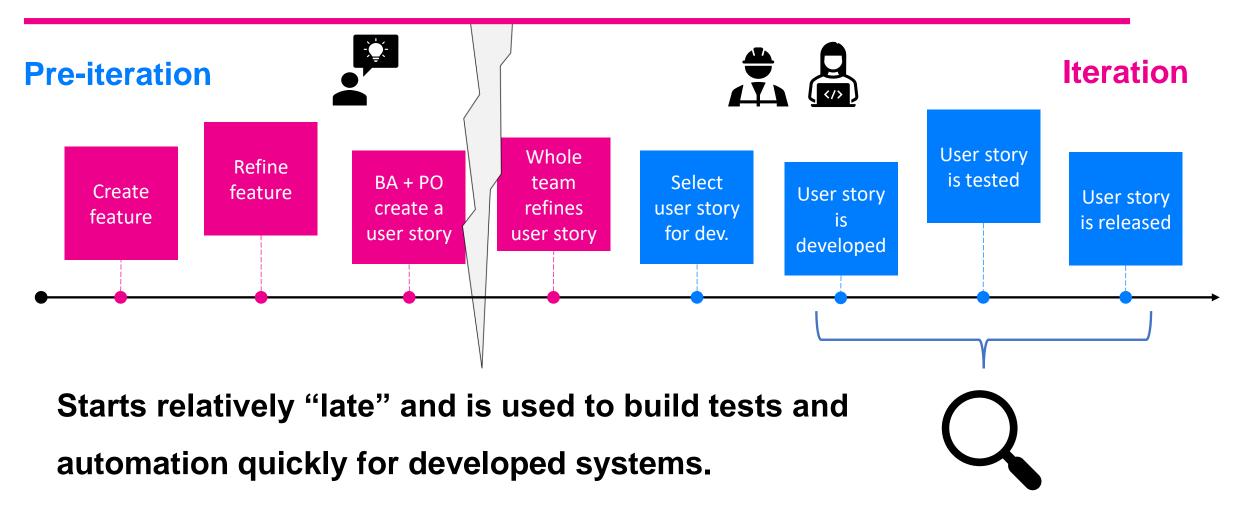




But how can an organisation get started? - An example from a SAFe team -



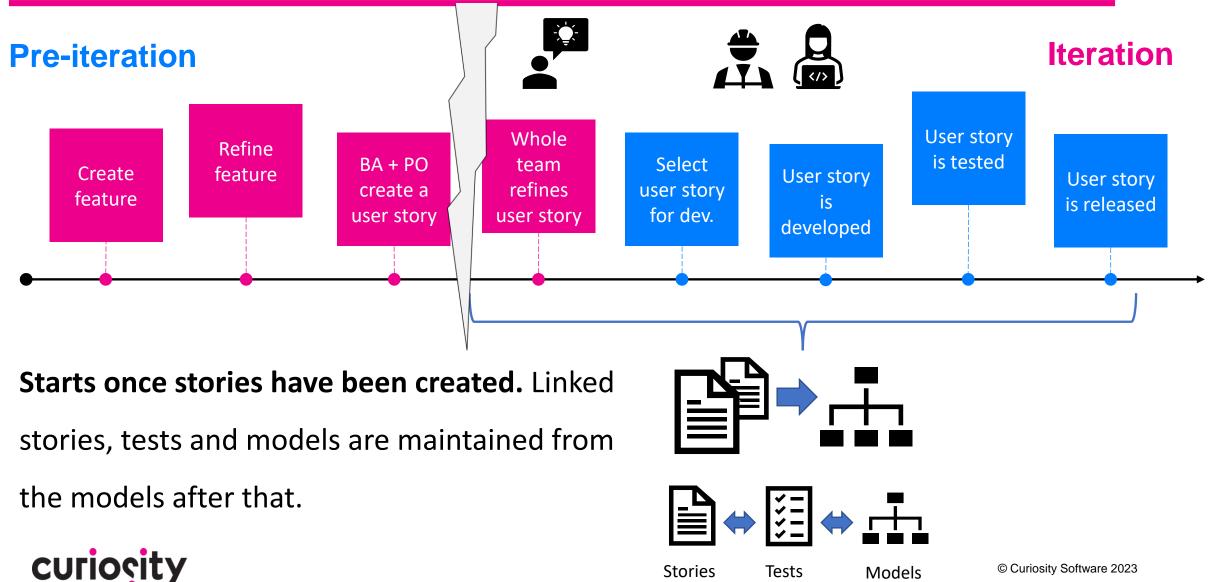
Reverse-engineer (scan) existing systems



Tests are linked/exported to user stories.



Model and refine BA/POs user stories/requirements



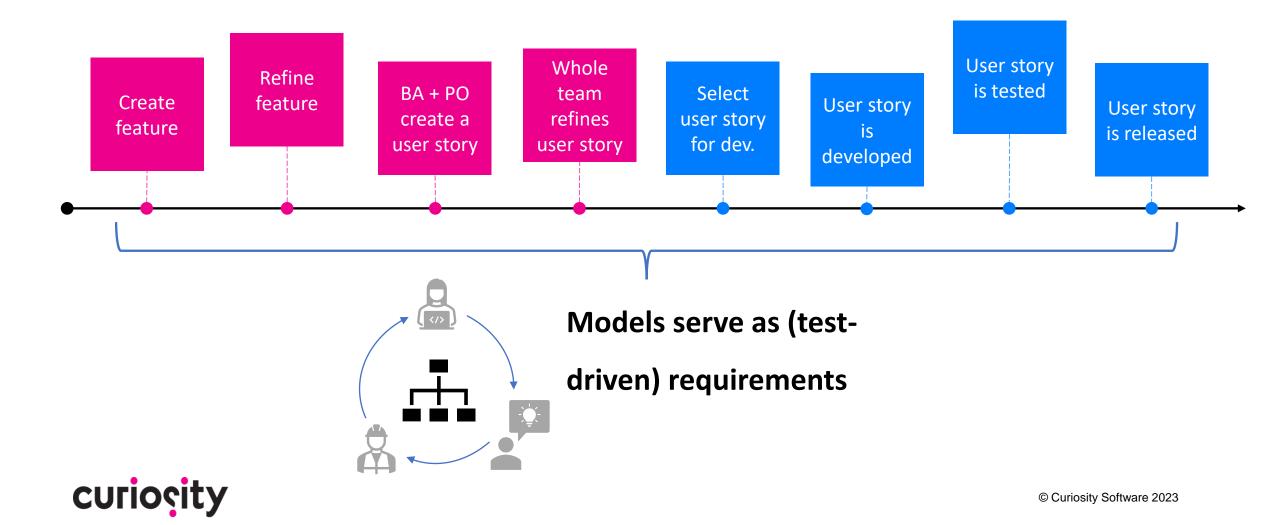
Stories

Tests

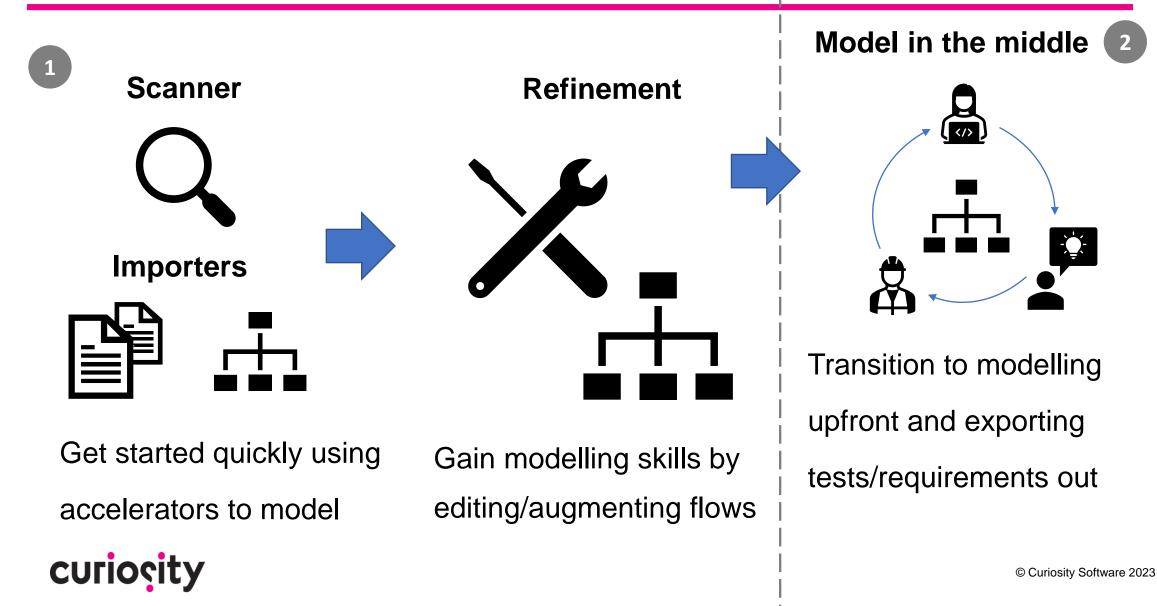
Models

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Models as requirements



A proposed adoption roadmap



Questions and Discussion

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Next Steps



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You can find me on LinkedIn @ George Blundell



Let's continue the conversation.. email us George.Blundell@Curiosity.Software



I'll be around during and after the event if you want to say hello! ③







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