SauceLabs

Less is More: Tool consolidation for more performance of your testing

June 27-28, 2023

1 Introduction

2 Challenge

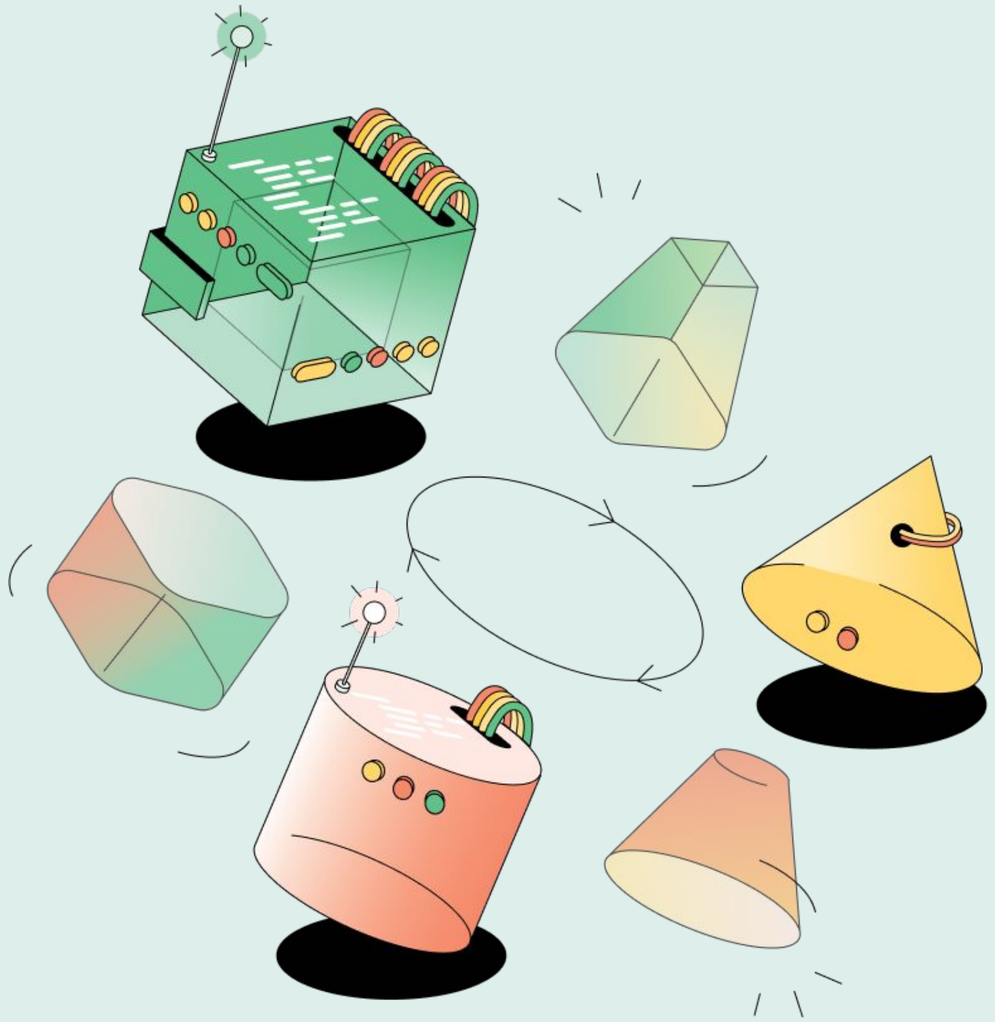
3 Solution

4 Result

Who am I?

- Name: Yi Min **Yang**
- Senior Solution Engineer @ Sauce Labs
- 10+ years in IT industry
  - Software Engineer
  - IT Consultant
  - QA Engineer
  - Solution Engineer
- Badminton, MTB, Bouldering, Smart Home, Paperless Office

Software Reset



3

Years in a row people reported testing being a bottleneck[1]

6-10

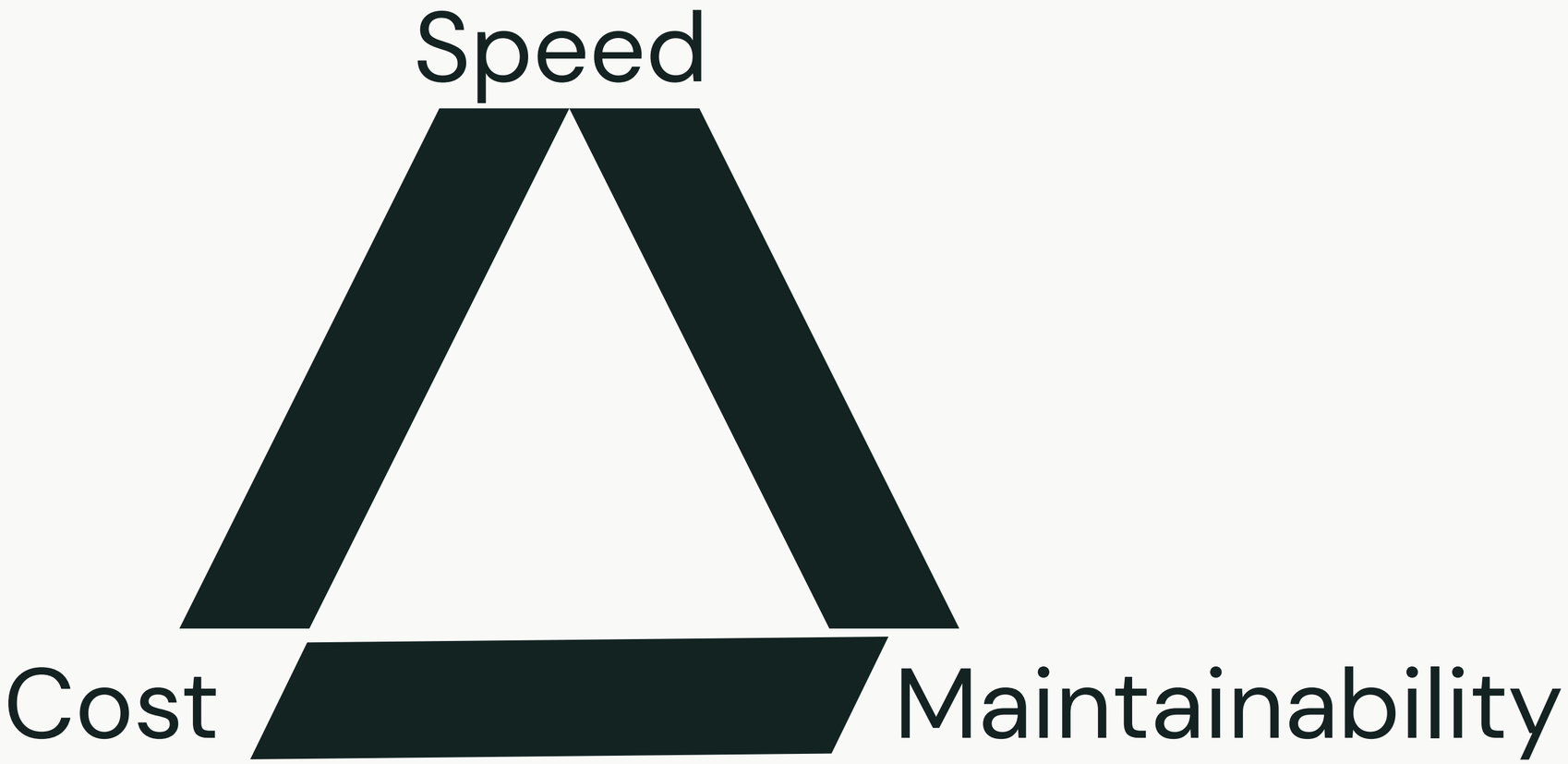
Tools used in CI/CD pipelines[2]

100

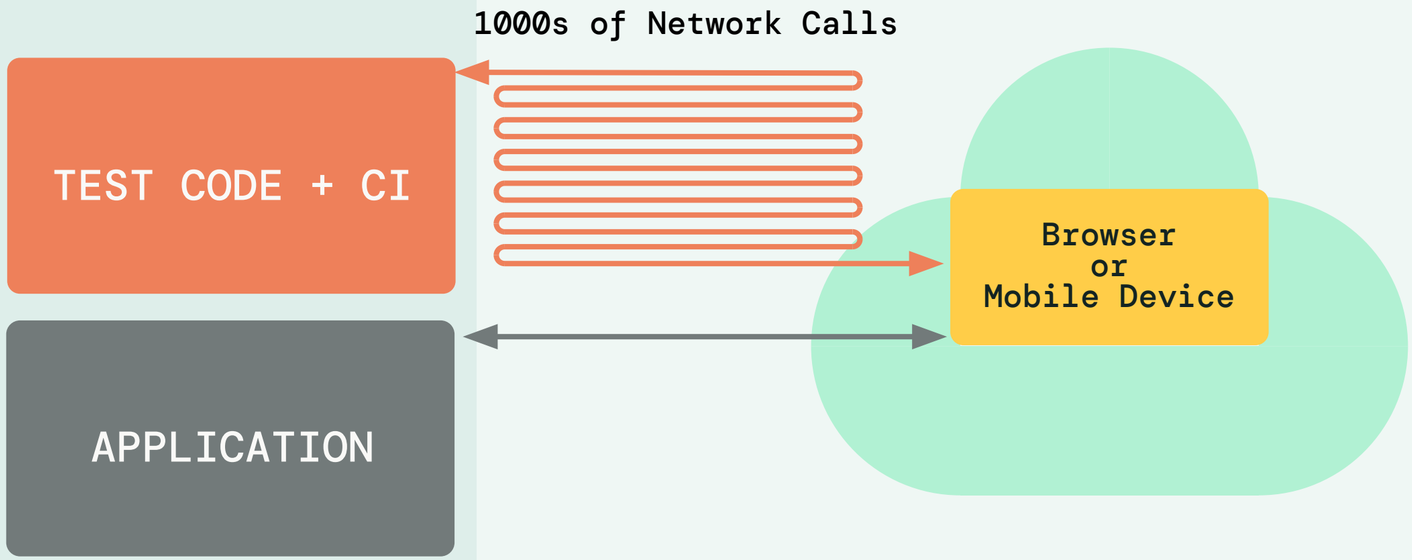
Times more expensive to fix post-release bugs[3]

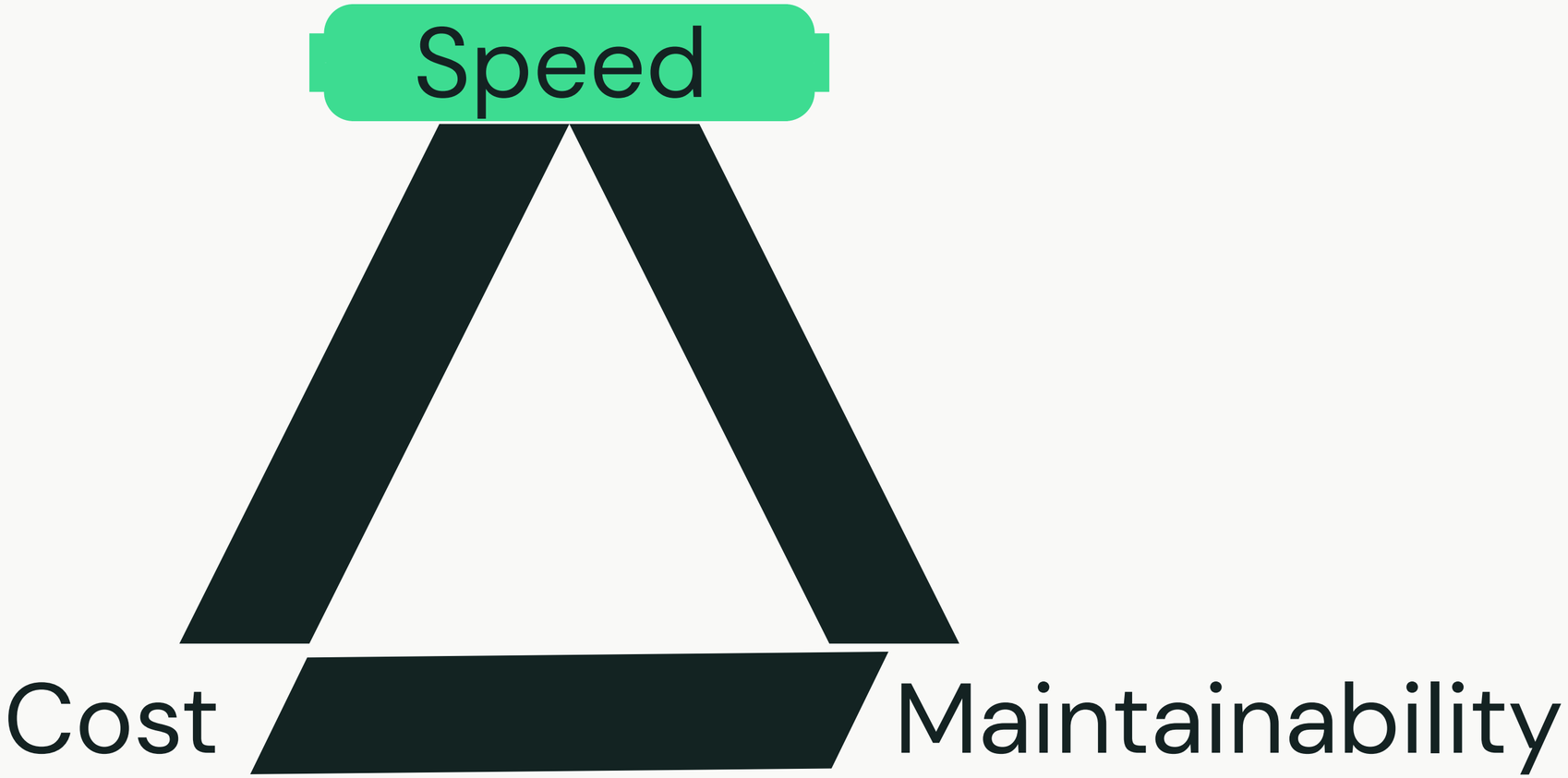
1

Poor experience can lead to a lost customer[4]

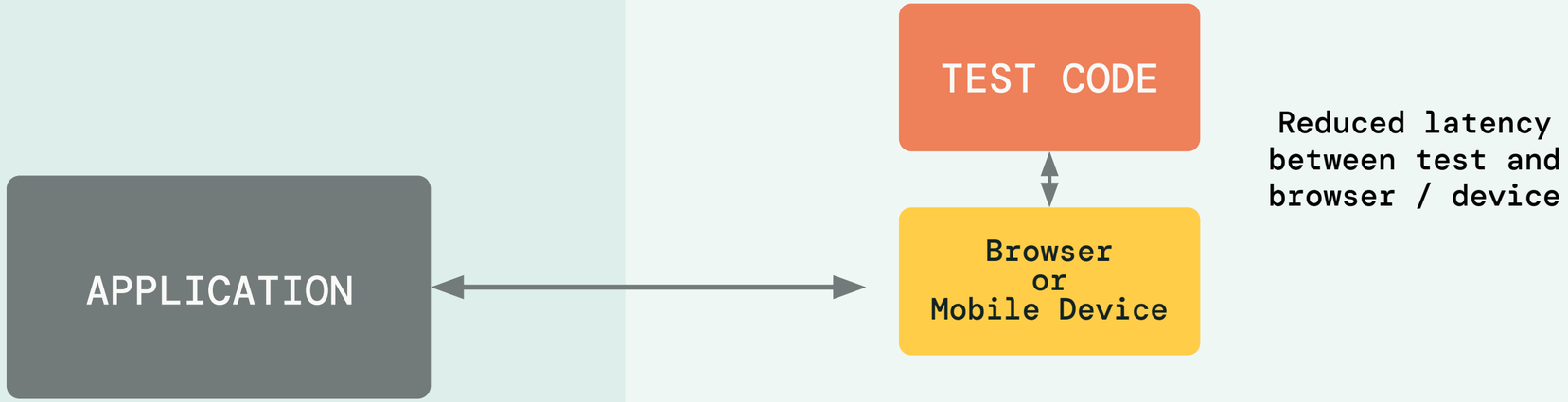


Remote

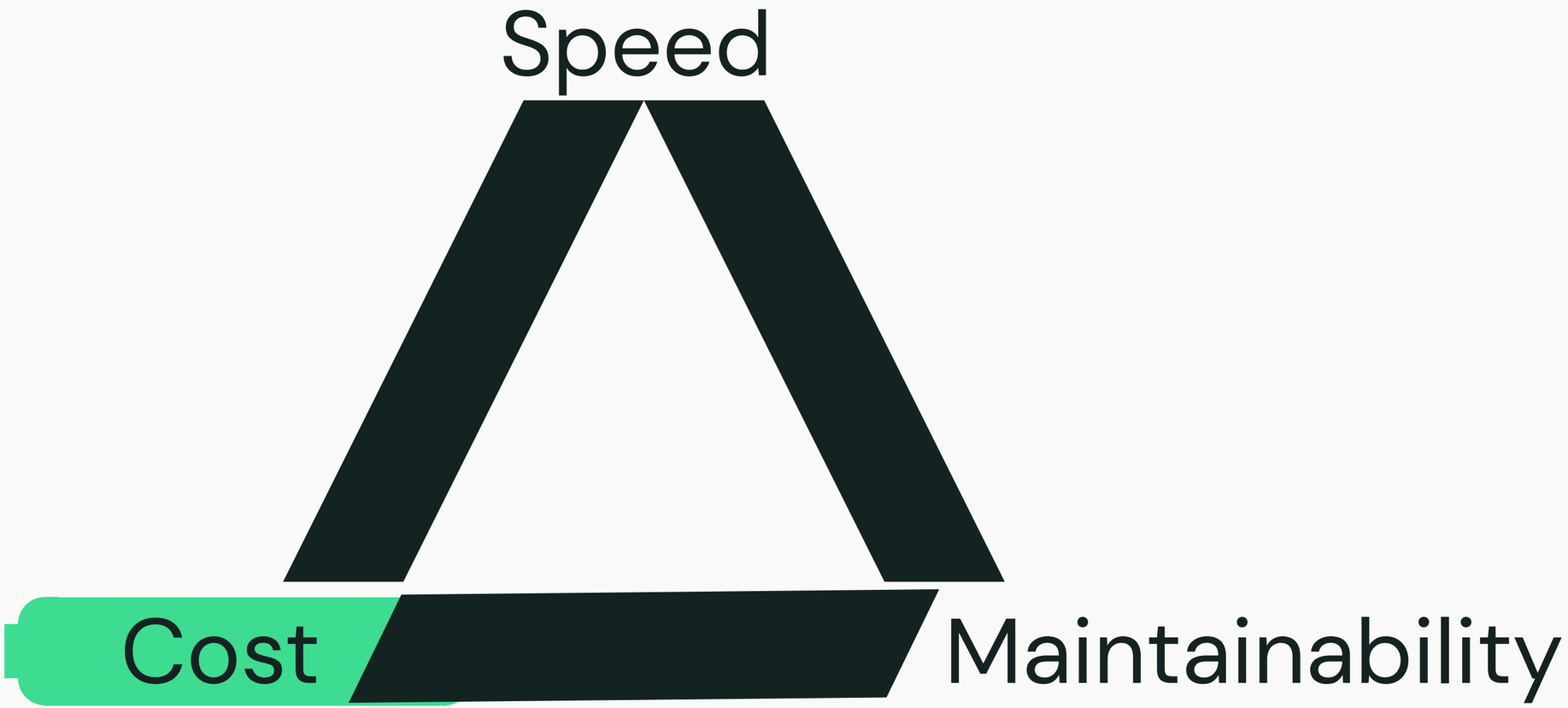


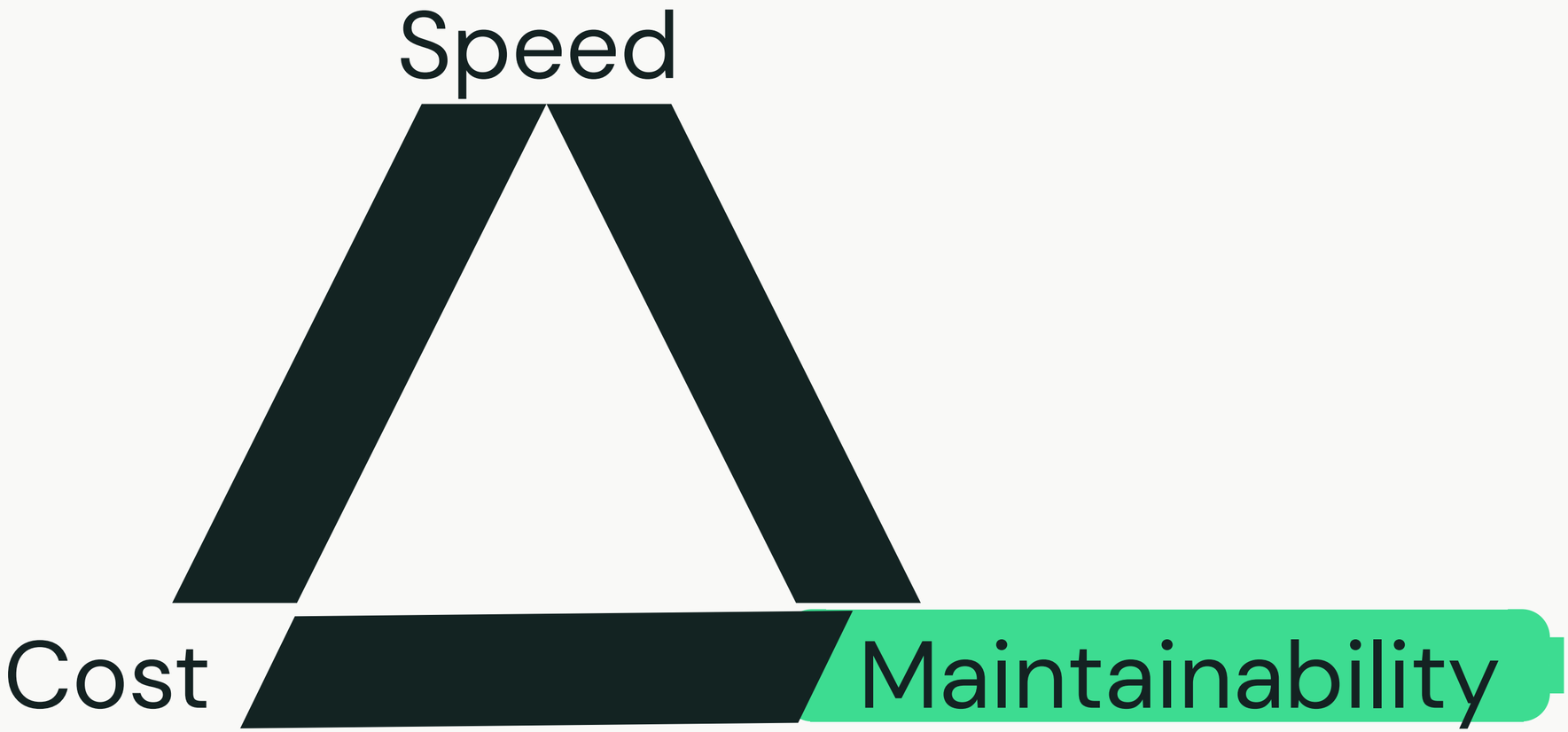


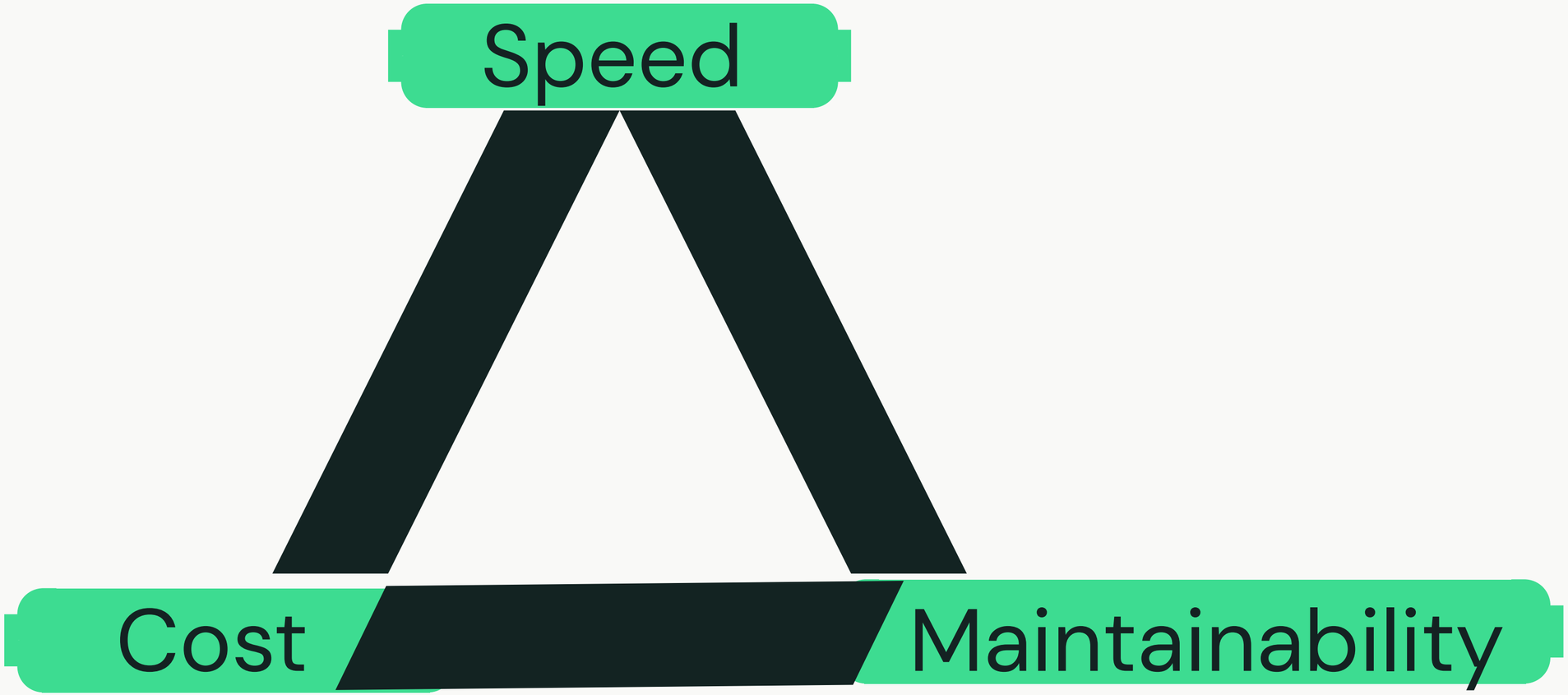
Local



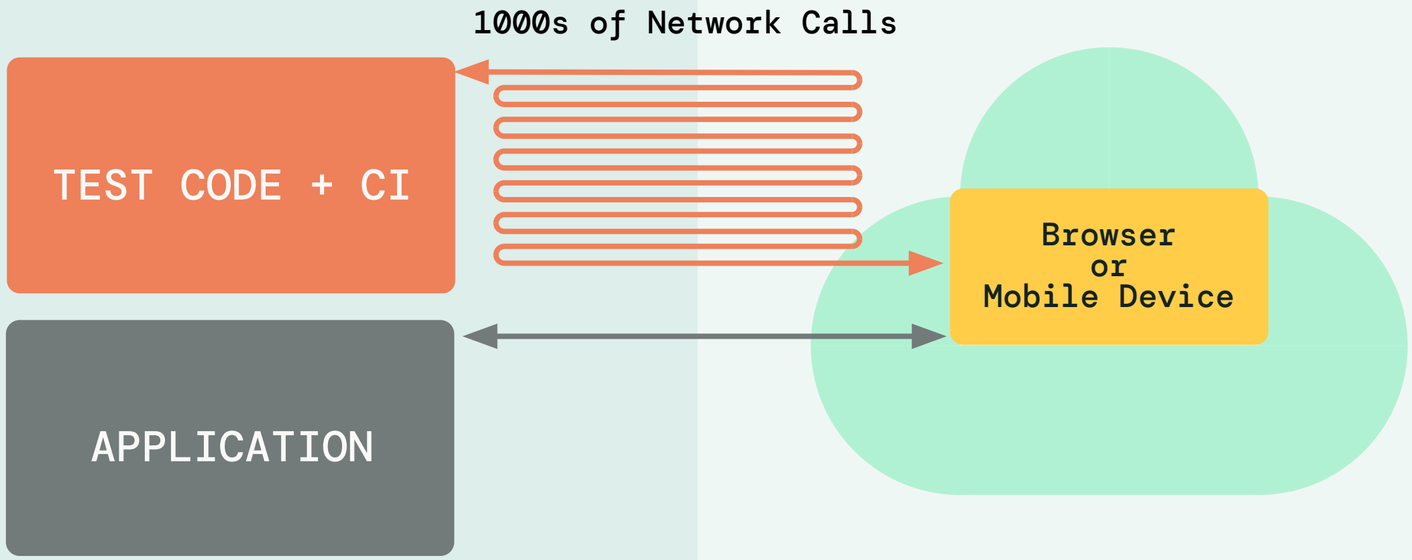
Reduced latency between test and browser / device



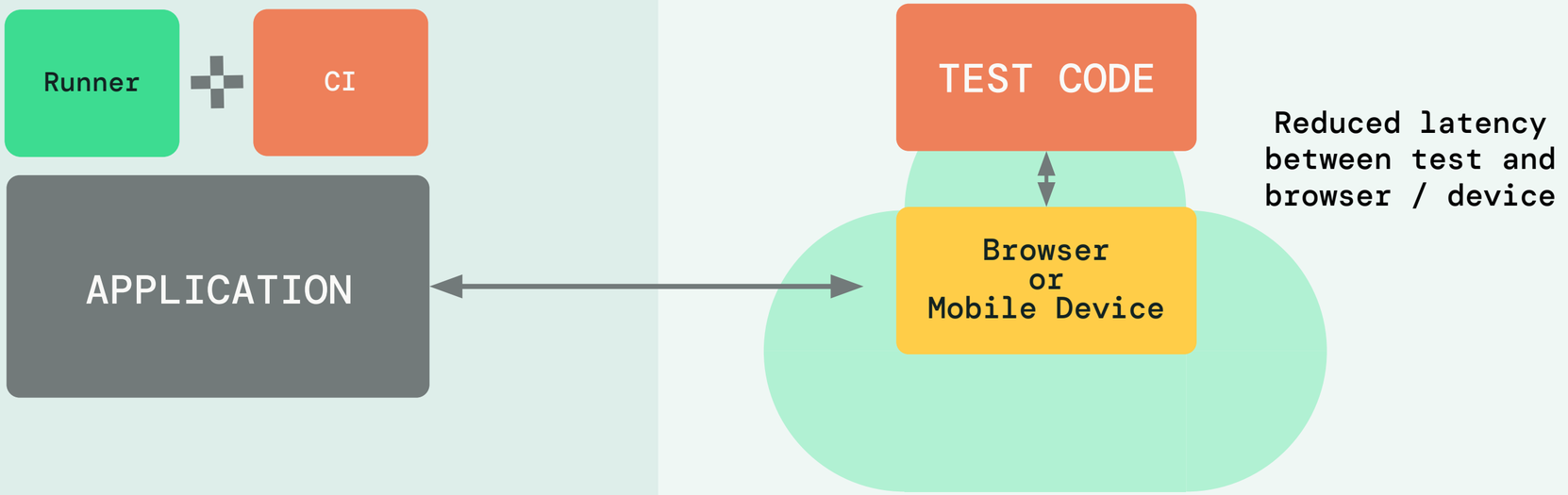




Remote



Cloud hosted



Reduced latency between test and browser / device

Performance

Selenium

	Hosted Orchestration	Remote Execution
Avg	**109s**	239s
p90	**114s**	244s
p99	**114s**	244s

appium™ (RDC)

	Hosted Orchestration	Remote Execution
Attempt 1	**114s**	193s
Attempt 2	**97s**	217s
Attempt 3	**110s**	188s

Up To 70% Performance Improvement

Takeaway

- Evaluate your tech stack
- Tool and vendor consolidation
- No more DIY (Do it Yourself)

Thank You

Yi Min Yang

Sr. Solutions Engineer

yi-min.yang@SAUCELABS.COM

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Backup

Hosted Orchestration

Faster time to market | Improved developer experience | CI/CD excellence

Test Up to 70% Faster

Reduce test execution time **by up to 70%**, no matter where you are testing, as Sauce Orchestrate removes most of the network overhead of the traditional remote grids to cut down the latency between the test and browser/ device.

Seamless Dev Experience

Improve development velocity and drastically reduce developer feedback time by running the same test suite locally early in the development cycle and at scale in your CI.

Optimize CI/CD and reduce costs

Reduce the continuous maintenance burden on your resource-constrained CI, and reduce costs by offloading the compute cycles for test execution to Sauce Labs.

Improve Reliability

Reduce unpredictable network issues, and focus developers time on innovation by eliminating the need to troubleshoot errors caused by the heavy network overhead of a remote grid.