Exploring
Pipelines

by Maaret Pyhäjärvi
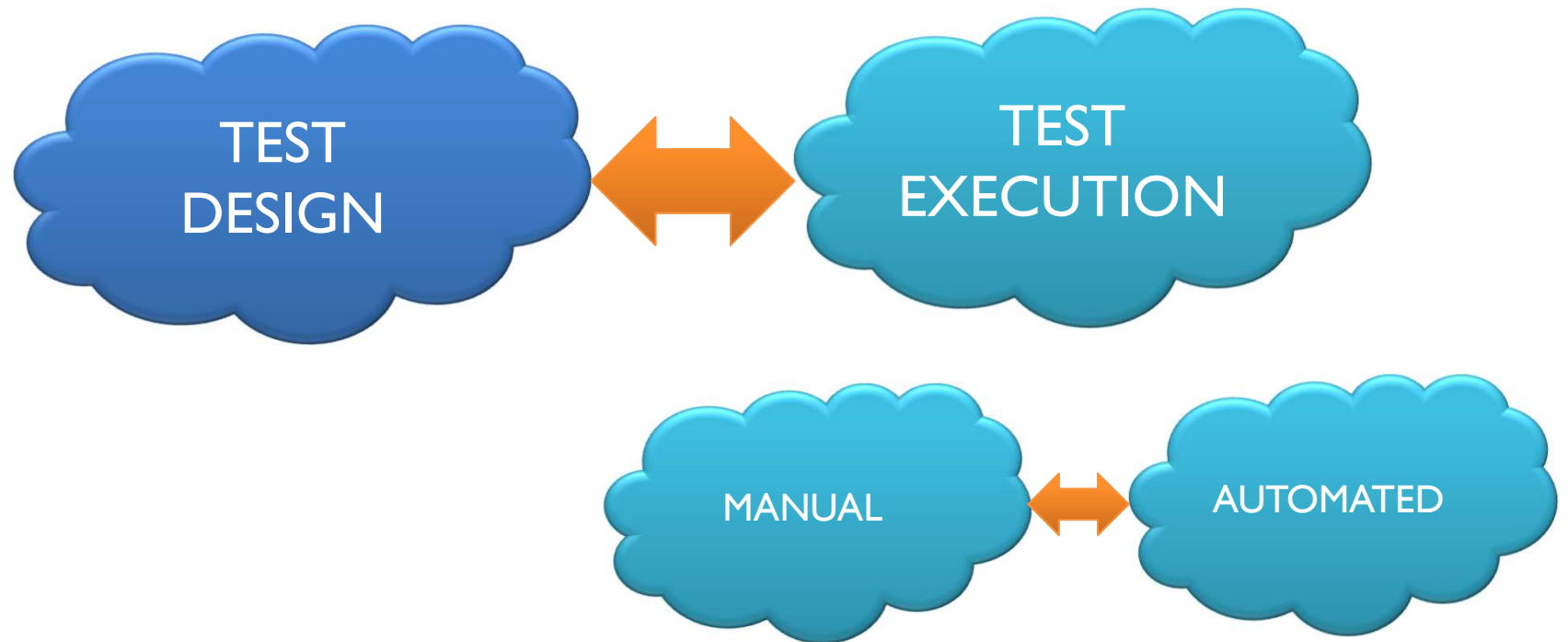
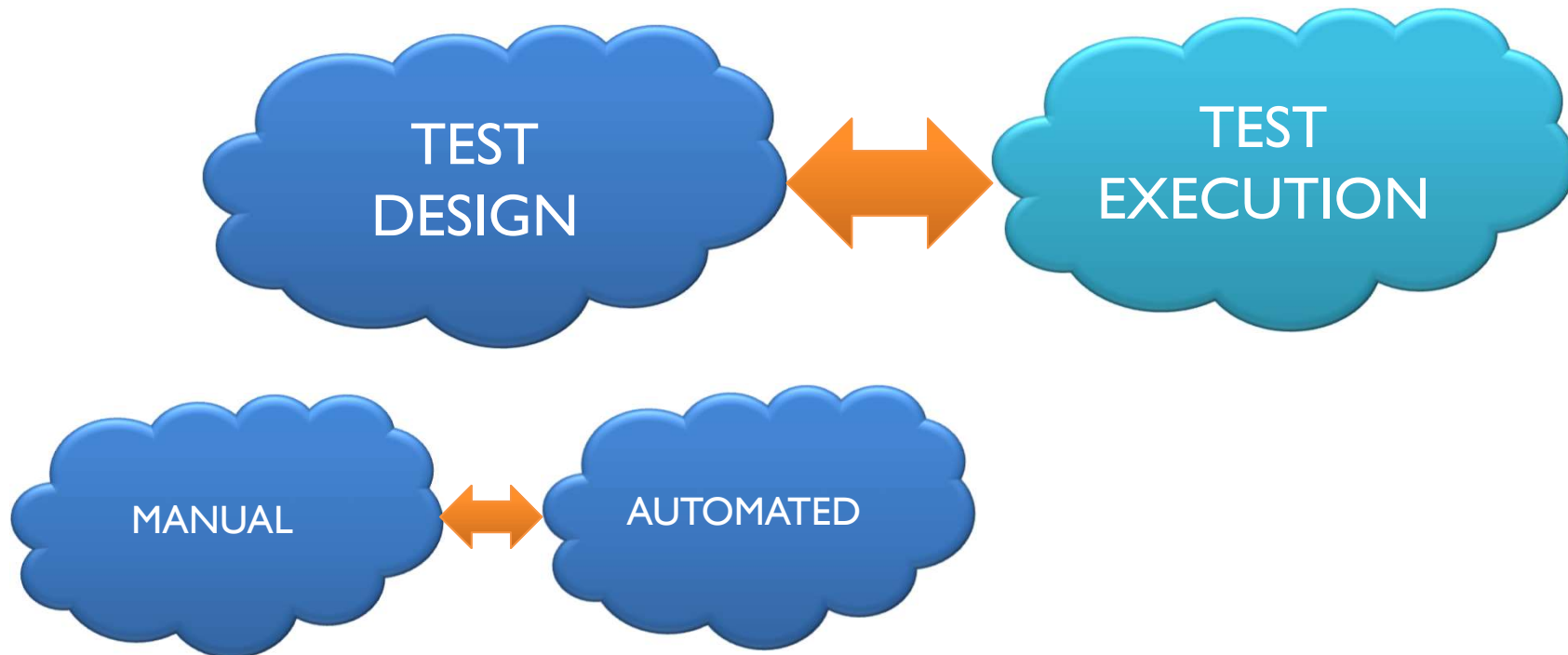**VAISALA**

http://maaretp.com

Exploratory Testing

TEST DESIGN ⟷ TEST EXECUTION

LEARNING
AGENCY

⬇

IMPACTFUL RESULTS

Exploratory Testing

TEST DESIGN ⬌ TEST EXECUTION

MANUAL ⬌ AUTOMATED

Exploratory Testing

TEST DESIGN ⟷ TEST EXECUTION

MANUAL ⟷ AUTOMATED

Exploratory Testing

MANUAL ⟷ AUTOMATED

LEARNING
AGENCY

↓

IMPACTFUL RESULTS
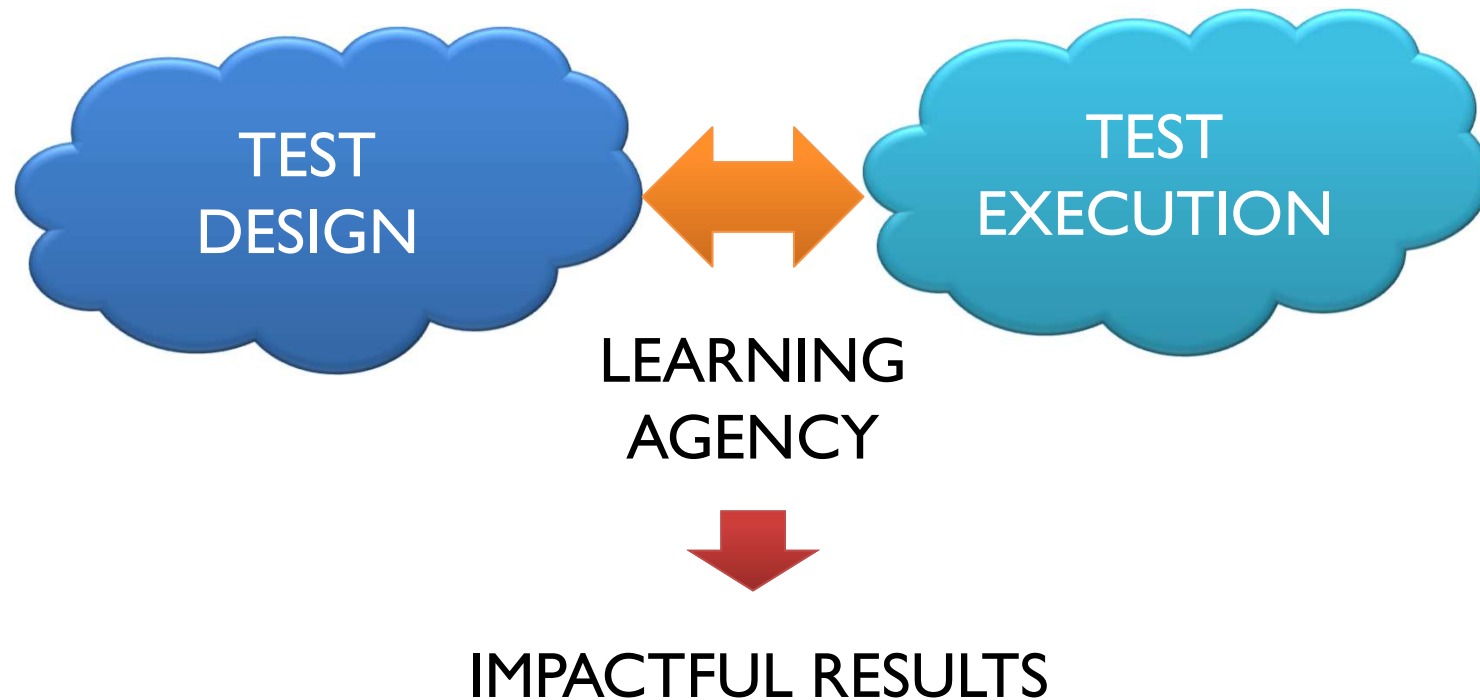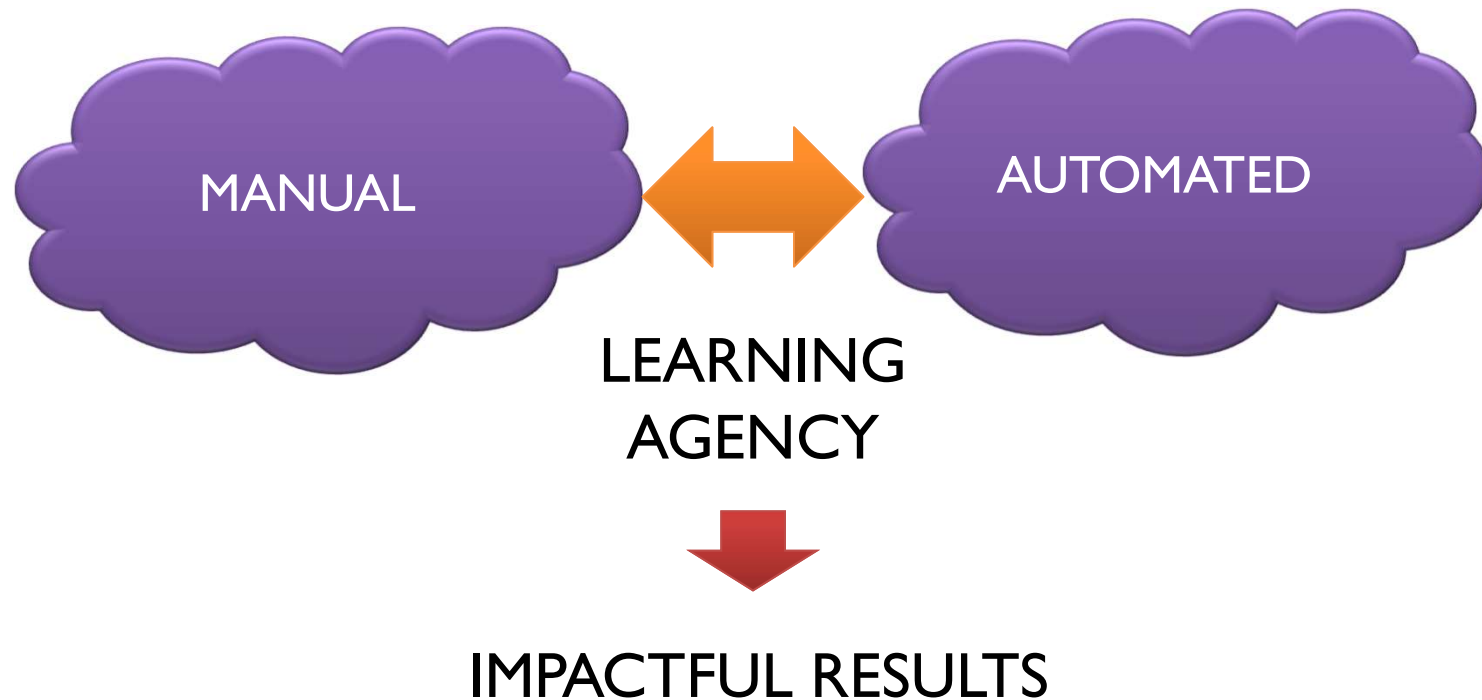
(Engineering) Manager

(Polyglot) Programmer

Domain Specialist

Tester

Ops

(Exploratory) Tester

Content Warning
Food:Animals

Metaphorically Speaking

Idea from
@HannesLindblom

15 $/kg

450 $/kg

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Sprinkle On Top
Exploratory Testing

Exploratory

UI

SERVICE

UNIT
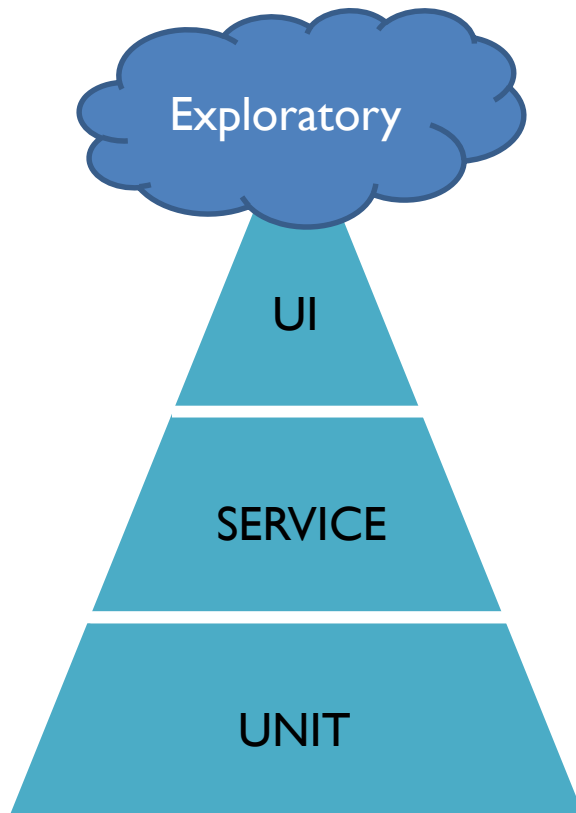
Contemporary
Exploratory Testing

Exploratory

UI

SERVICE

UNIT

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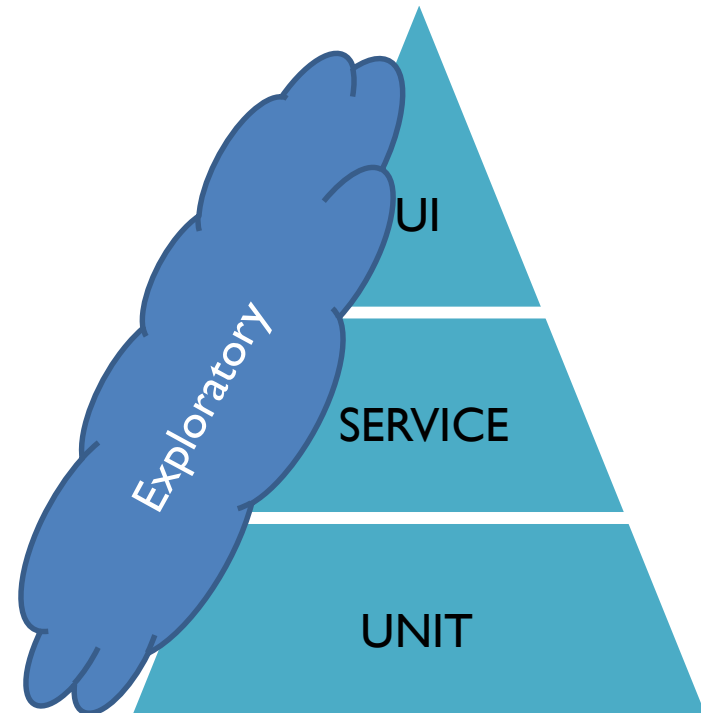
Pipelines

Connecting pieces of automation with automation

Exploring All The Way...

Single line

→See it fail

→First test

→Same test but variables

→Same test but templates

→Failing test with a bug

→Spec to tests

→Guess the values that are likely to fail

→Multiple browsers

→Runs in CI

From a Piece of Code...

```robot
test.robot

1   *** Settings ***
2   Library     Browser
3   Test Setup          Default Setup
4   Test Teardown       Default Teardown
5   Test Template       Verify Word Text
6
7   *** Variables ***
8   ${URL}          https://www.exploratorytestingacademy.com/app/
9
10  *** Test Cases ***
11  Test1   nothing     1   0
12  Test2   to be or not to be      6   2
13  Test3   The cat is my only pet  6   1
14  Test4   The cat is Garfield     4   1
15  Test5   be, being, been, am, is, isn't, are, aren't, was, wasn't, were, and weren't.     13   12
16  Test6   I'm, you're, we're, they're, he's, she's, it's, there's, here's, where's, how's, what's, who's, aint's, that's.     15     15
17  Test7   ${EMPTY}    0   0
18
19  *** Keywords ***
20  Verify Word Text
21      [Arguments]     ${input text}       ${word count}       ${discouraged count}
22      New Page    ${URL}
23      Fill Text       css=#inputtext  ${input text}
24      Click   css=#CheckForEPrimeButton
25      Get Text    css=#eprimeoutput   ==  ${input text}
26      Get Text    css=#wordCount      ==  ${word count}
27      Get Text    css=#discouragedWordCount   ==  ${discouraged count}
28
29  Default Setup
30      New Browser             chromium    headless=${FALSE}
31
32  Default Teardown
33      Close Browser
```

To Code in Pipeline(s)

Connecting Automation with Automation

I. On Schedule | On Trigger | On Demand
II. Upstream | Downstream
III. Visualize!
IV. Repeatability.

Created by Emily Bache

Based on work by Abby Bangser

Game Rule

Delivery Pipeline Start & End

A developer commits code → ? → ? → ? → ? → ? → Deploy to Production

- Start with "A Developer Commits Code."
- End with "Deploy to Production Environment."
- Cards placed before or after these do not count towards *deployment lead time.*

PRAQMA   www.praqma.com

Review

Calculate the deployment lead time:
- "A developer commits code" -> "Deploy in Production".
Add up the total time (times are written on sticky notes on each card). Add any waiting time between steps.

Compare with your competitor lead time and discuss:
- If theirs is longer: Are you skipping important tests and risking quality problems?
- If theirs is shorter: how do you think they achieve that?
- Will you be able to out-compete them?

PRAQMA   www.praqma.com | 12

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Experiences

Daily releases without test automation.
Full code pipelines.
Rebuilding through exploring.

Incremental, incomplete, learning

Work towards flow of TA value - small streams become a significant pool over time. Moving for better continuously matter, not starting well or perfect.

Something imperfect but executable is better than great ideas and aspirations. Refactor to reveal patterns.

DevOps

Turning more things into code.

Maaret Pyhäjärvi (from Finland)

EuroSTAR
TESTING EXCELLENCE
AWARD
2020

AGILE
TESTING DAYS
MIATPP
Most Influential Agile Testing
Professional Person
2016

EXPLORATORY
Testing

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#PayToSpeak #TechVoices
#EnsembleTesting #EnsembleProgramming #StrongStylePairing
#ExploratoryTesting #TestAutomation
#ModernAgile
#AwesomeTesters

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