catalyte

FINDING AND
FIXING YOUR
ORGANIZATION'S
AGILE POTHOLES

Les Grove
October 10, 2018



We will do real time polling during this session. Text lesgrove983 to 22333 or Go to PollEV.com/lesgrove983

AGENDA

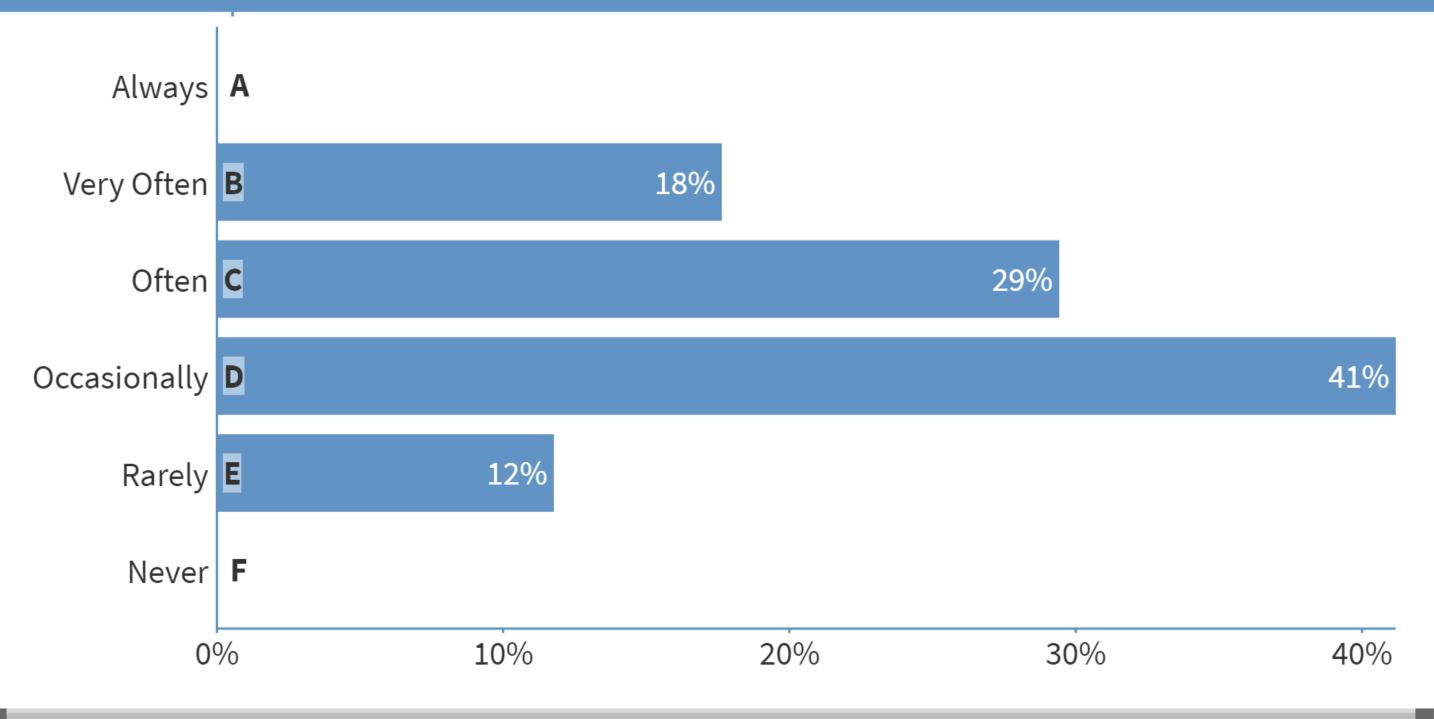
- Catalyte's "Road"
- Navigation
- Mapping
- Road Cones
- Next Stops



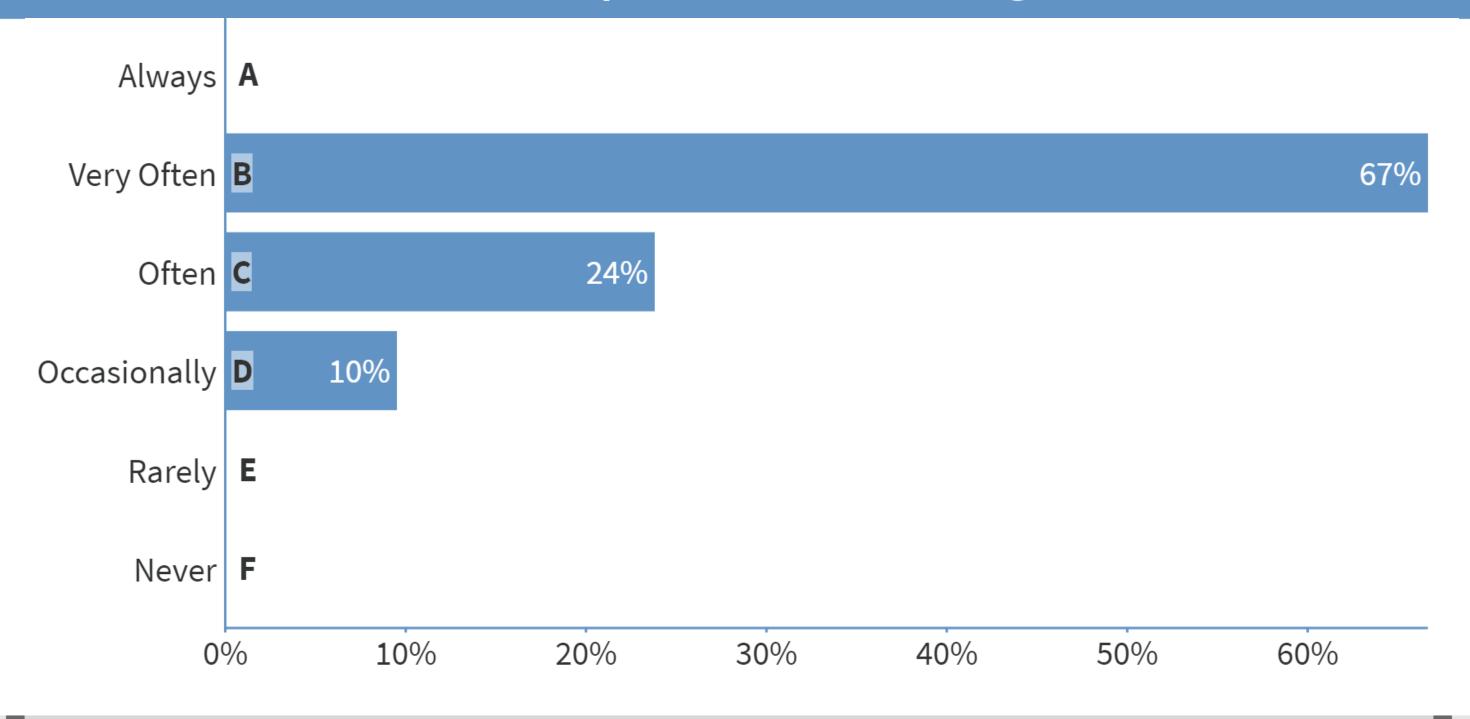
First: A Couple of Polls



1. Our test coverage satisfies our test quality goals



2. Critical defects are prevented from reaching Production



GIVEN JUST TWO DATA POINTS

WHICH POTHOLE SHOULD WE TRY TO FIX FIRST?

1. TEST COVERAGE SATISFYING QUALITY GOALS

2. CRITICAL DEFECTS PREVENTED FROM PROD

CATALYTE HAS TEAMS IN DIVERSE SITUATIONS



DIFFERENT DOMAINS

RETAIL & E-COMMERCE









HEALTHCARE















TRAVEL & HOSPITALITY











TECHNOLOGY









PUBLIC SECTOR



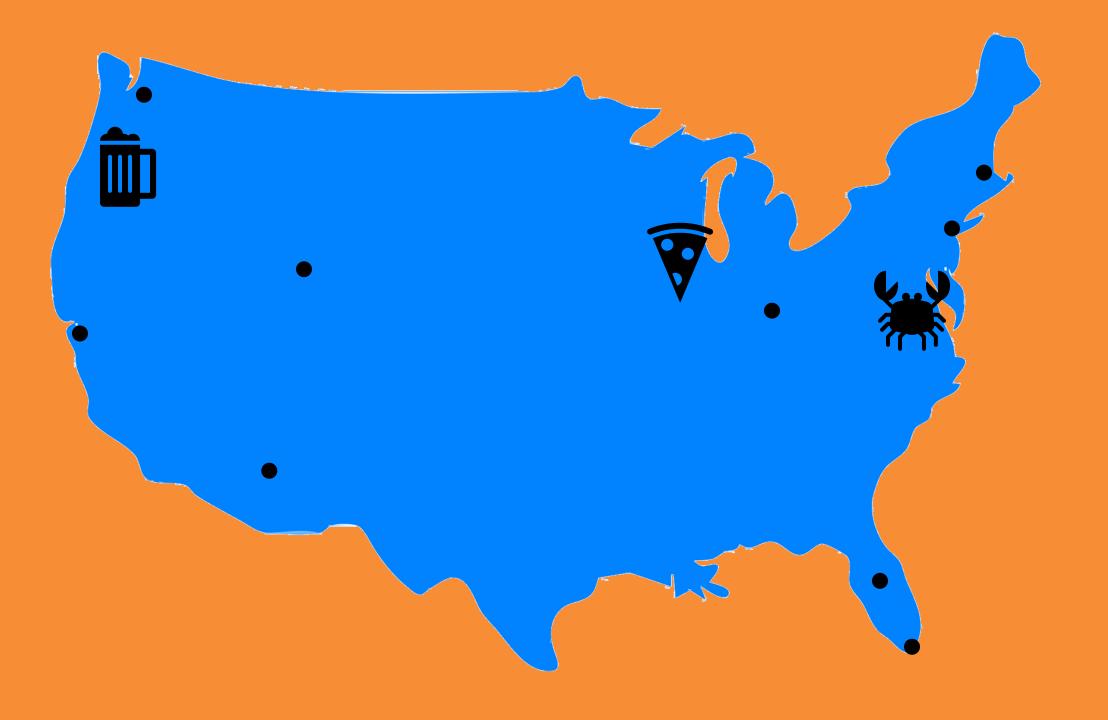






DIFFERENT LOCATIONS

- At Catalyte
- At Client
- Combination



DIFFERENT TEAM CONFIGURATIONS

Complete Catalyte Teams



Client-Catalyte Combination



Client-Catalyte-3rd Party Combo



PROBLEM STATEMENT

How to find the impediments caused by the organization?



AGILE COACHING

Delivering value across multiple teams and the organization by

- Working with teams, stakeholders, and management
- Facilitating
- Training
- Mentoring
- Providing leadership
- Supporting collaboration
- Developing consistency
- Managing impediments (aka potholes)



HOW TO IDENTIFY IMPEDIMENTS AT ORGANIZATIONAL LEVEL?

Choice #1

- Attend ceremonies for all teams
- Interview many team members
- Look for patterns

Choice #2

Agility assessments





AGILITY ASSESSMENTS

Team-Level Assessments



Organization-Level Assessments

Checklists

The ScrumMaster Checklist
The Unofficial Scrum Checklist
How Agile Are You? Checklist

Frameworks

Agile Fluency Model Agile Adoption Framework Agile Maturity Matrix

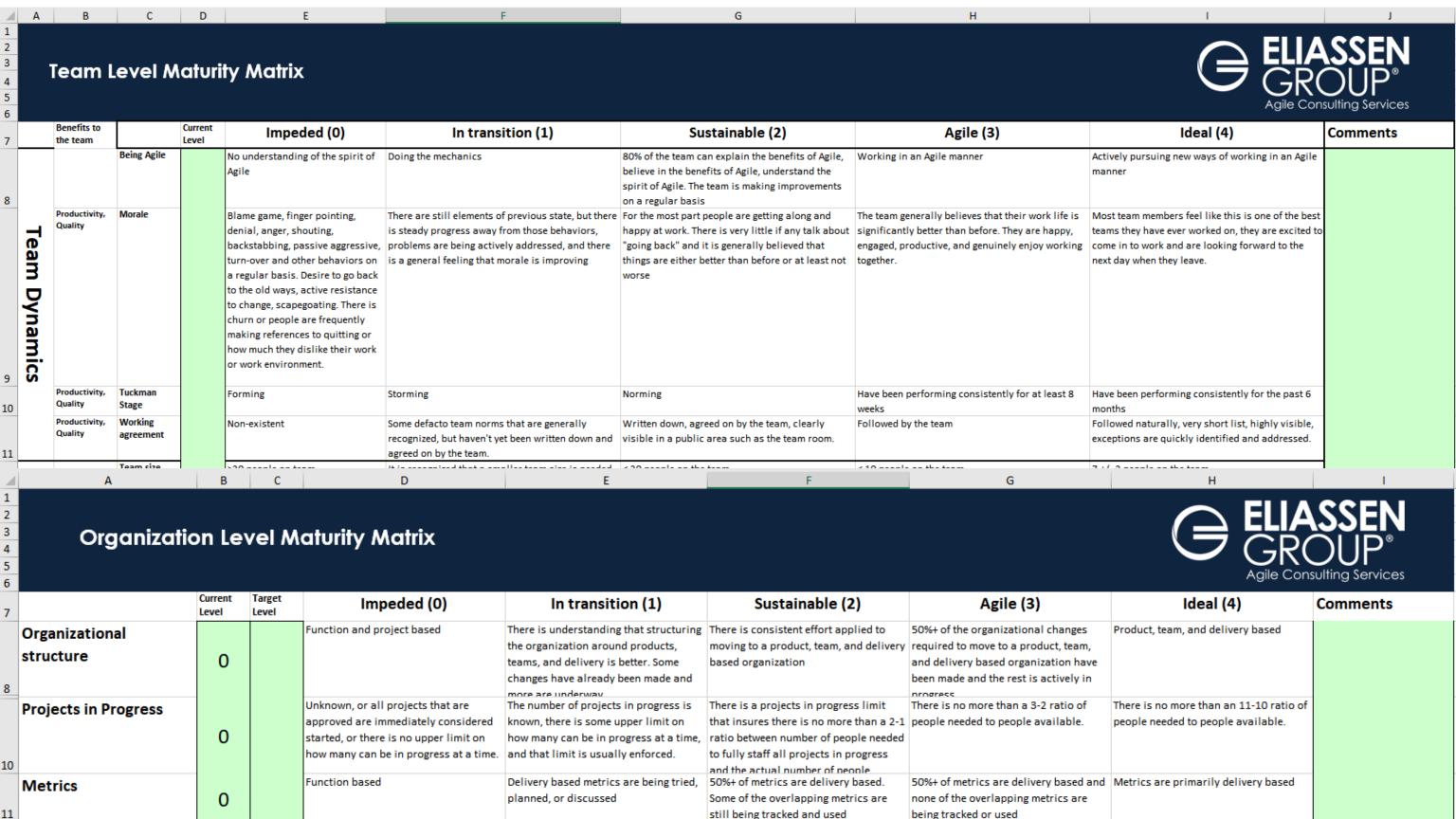
79 tools and checklists at BenLinders.com/tools/agile-self-assessments

The bottom line **Core Scrum** If you achieve these you can ignore the rest These are central to Scrum. Without these you of the checklist. Your process is fine. probably shouldn't call it Scrum. Delivering working, tested Retrospective happens after every software every 4 weeks or less Results in concrete Delivering what the improvement proposals business needs most Some proposals actually get Process is implemented continuously improving Whole team + PO participates Clearly defined product owner PO has a product backlog (PBL) (PO) Top items are prioritized by PO is empowered to prioritize business value PO has knowledge to Top items are estimated prioritize Estimates written by the PO has direct contact with team team Top items in PBL small PO has direct contact with enough to fit in a sprint stakeholders PO understands purpose of PO speaks with one voice (in) all backlog items case PO is a team) Have sprint planning meetings Team has a sprint backlog PO participates Highly visible PO brings up-to-date PBL Updated daily Owned exclusively by the Whole team participates team Results in a sprint plan Daily Scrum happens Whole team believes plan is achievable Whole team participates PO satisfied with priorities Problems & impediments are surfaced Timeboxed Iterations Demo happens after every sprint Iteration length 4 weeks or Shows working, tested software Always end on time Feedback received from Team not disrupted or stakeholders & PO controlled by outsiders Team usually delivers what Have Definition of Done (DoD) they committed to DoD achievable within each Team members sit together iteration Team respects DoD Max 9 people per team



Sprint tasks are estimated Estimates for ongoing tasks are updated daily
ty is measured
All items in sprint plan have an estimate
O uses velocity for release lanning
elocity only includes ems that are Done
nas a sprint burndown chart
lighly visible
Jpdated daily
Scrum is every day, same place
O participates at least a ew times per week
Max 15 minutes
ach team member knows what the others are doing
e indicators ators of a mplementation.
g fun! High energy level.
me work is rare and
ic n

PO = Product owner SM = Scrum Master PBL = Product Backlog DoD = Definition of Done http://www.crisp.se/scrum/checklist | Version 2.2 (2010-10-04)



BUILDING CATALYTE'S ASSESSMENT TOOL



REQUIREMENTS FOR ASSESSMENT SOLUTION

- Quick and Easy
- Reflect the team
- No additional instructions
- Identify team improvements
- Measure over time
- Any flavor of agile
- Aggregate results to identify organizational impediments

TOPICS

Team Integrity Requirements Retrospectives **Backlog Management** Refactoring Architecture

Quality

DELIVERY METHODS

Word Document

Excel Spreadsheet

Google Form

Requirements

Requirements describe the desired functionality or behavior of a product.

Scoring: 0 - Never, 1 - Rarely 2 - Occasionally, 3 - Often, 4 - Very Often, 5 - Always

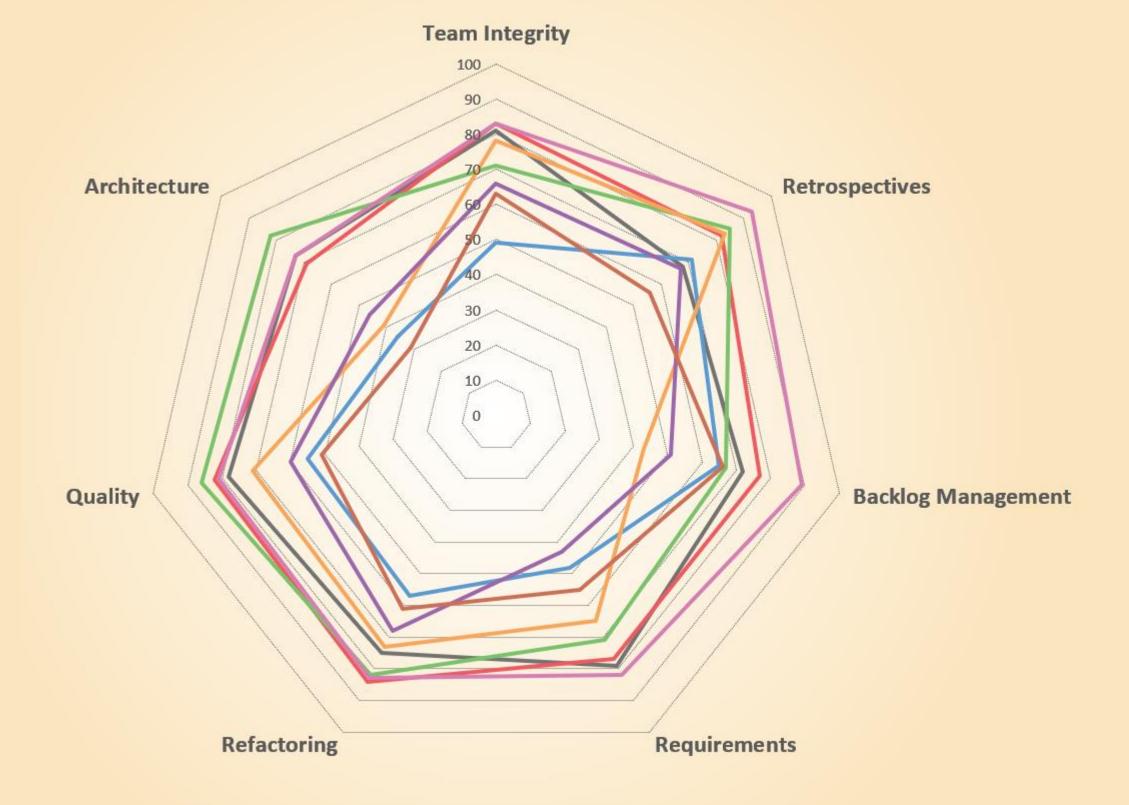
Cards are independent (meaning that there are no inherent dependencies on * other cards)



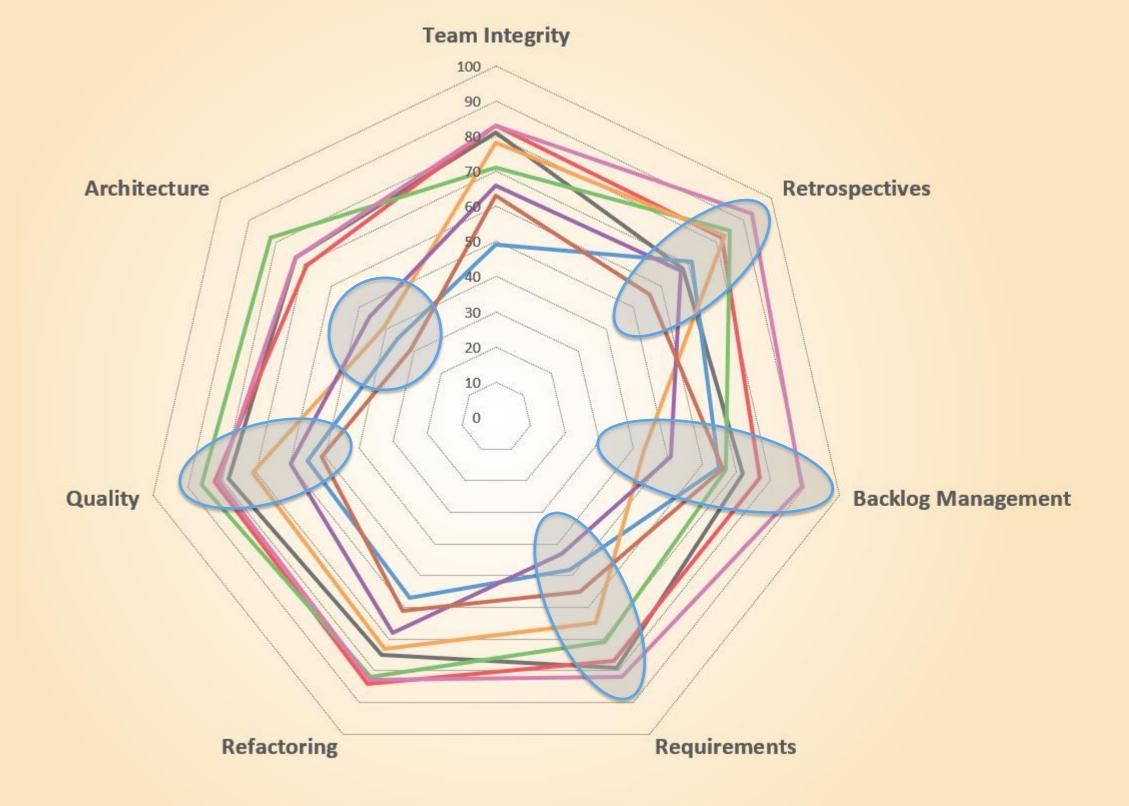
The team estimates the size of cards. *



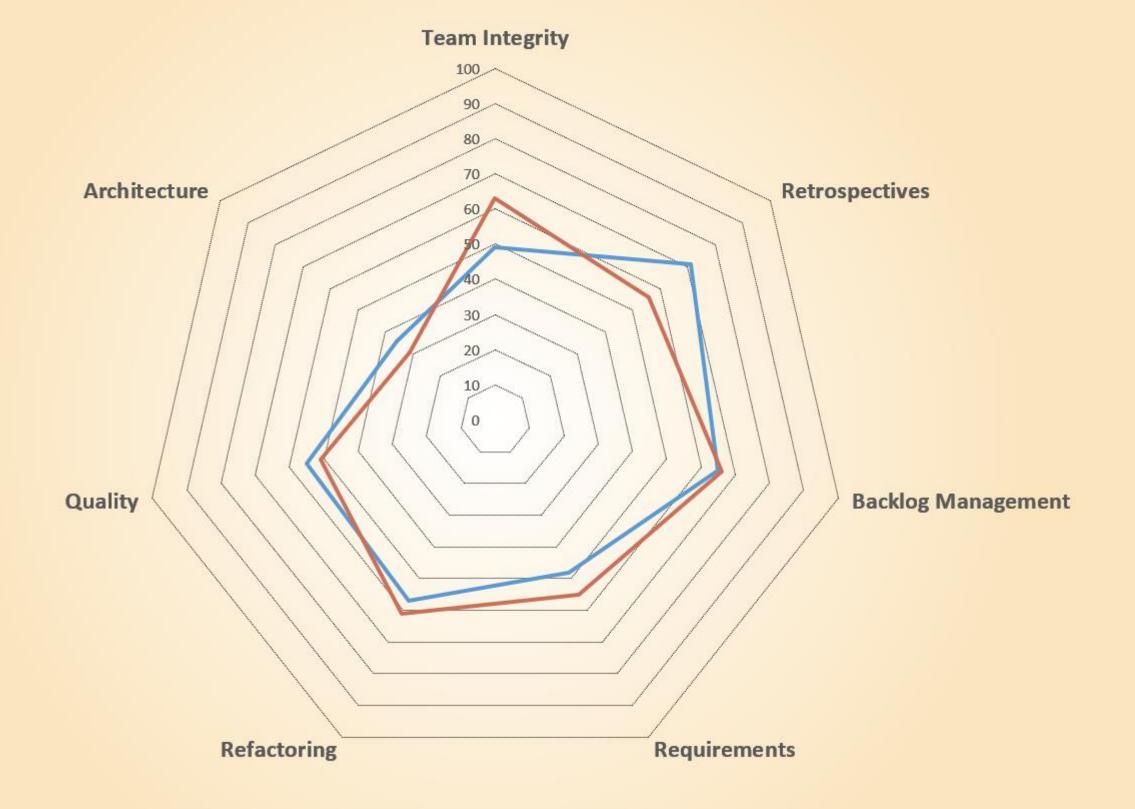
7- Topic Results (8 Teams)



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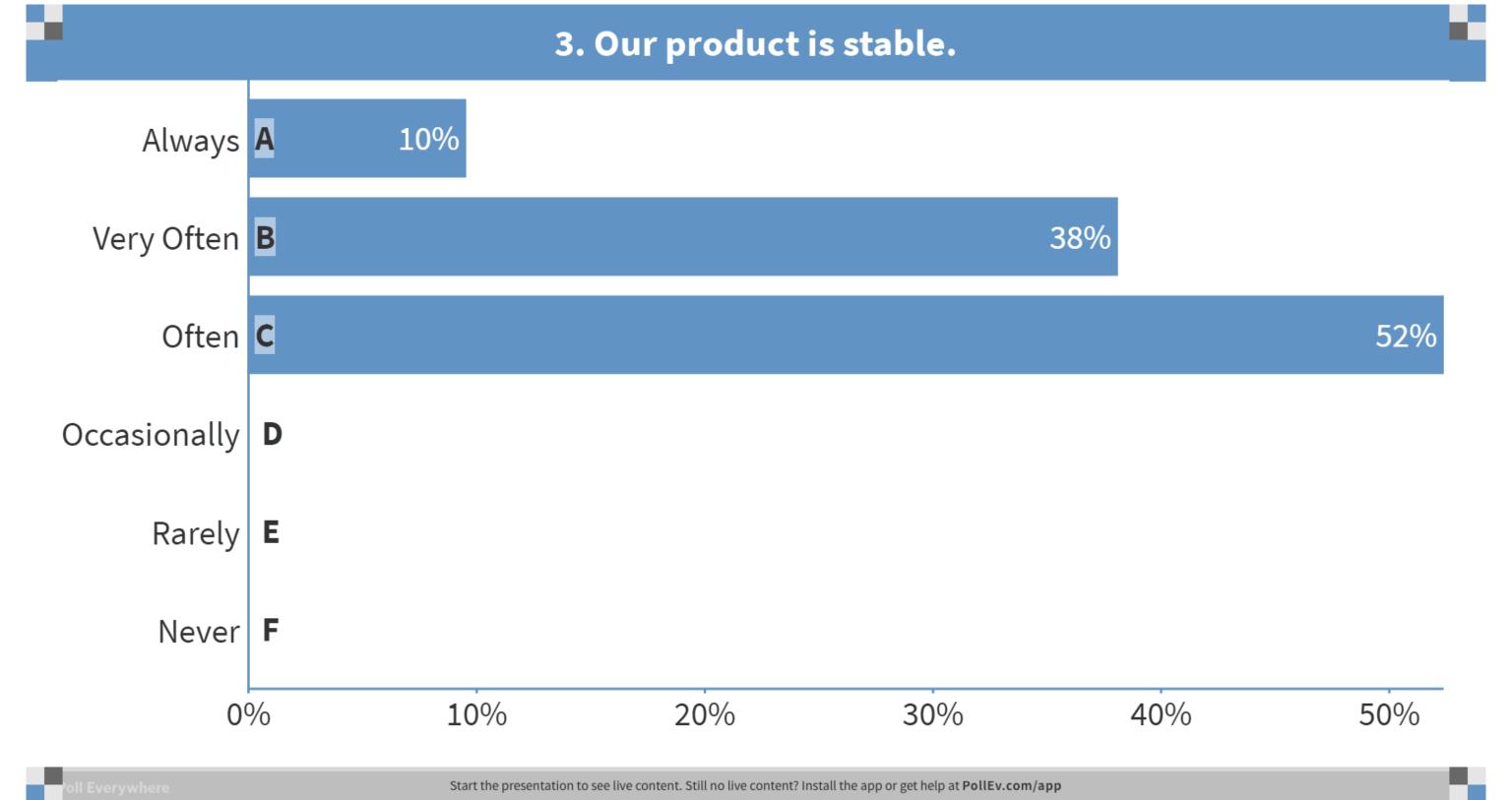


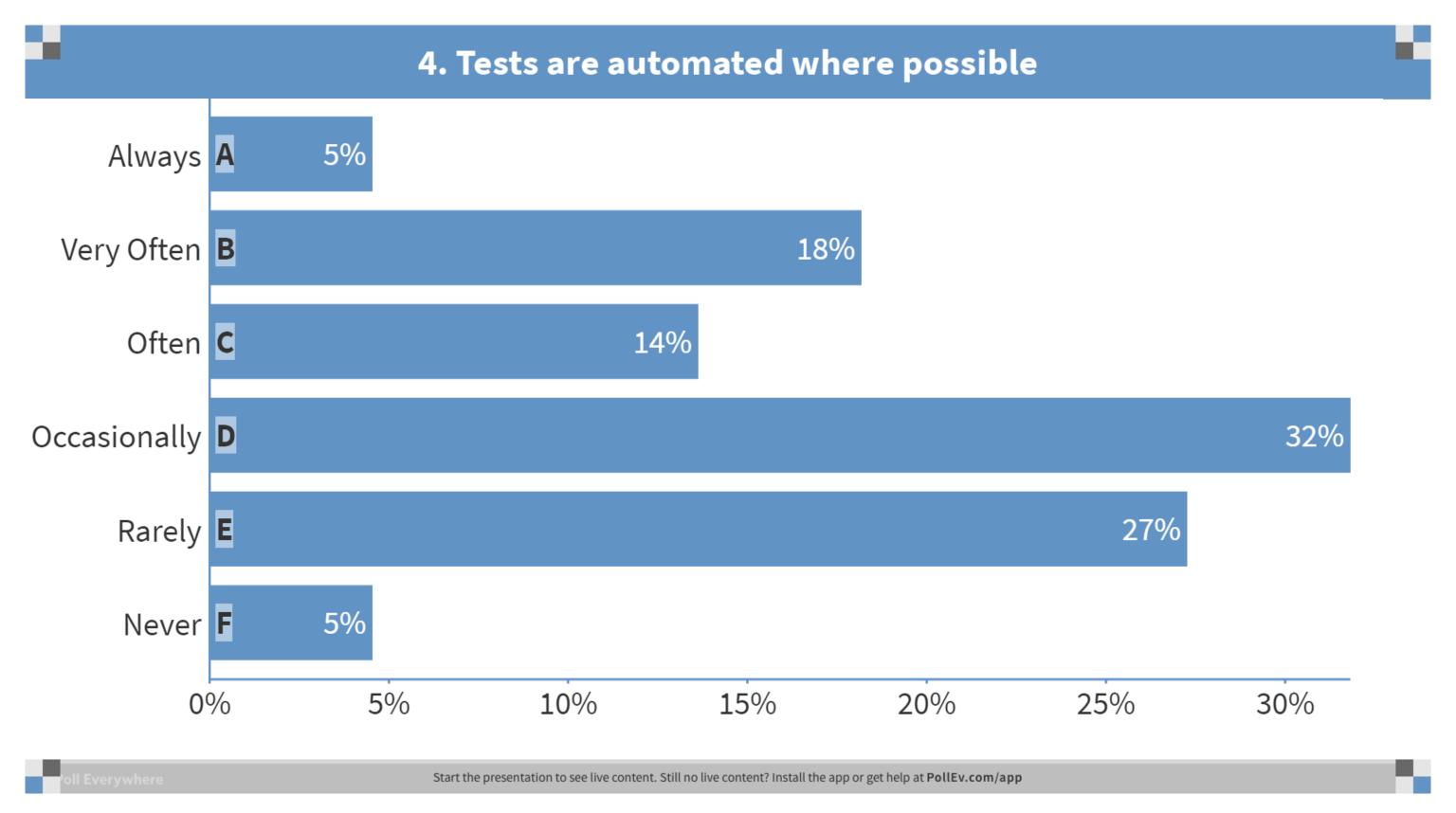
7- Topic Results (2 Lowest)



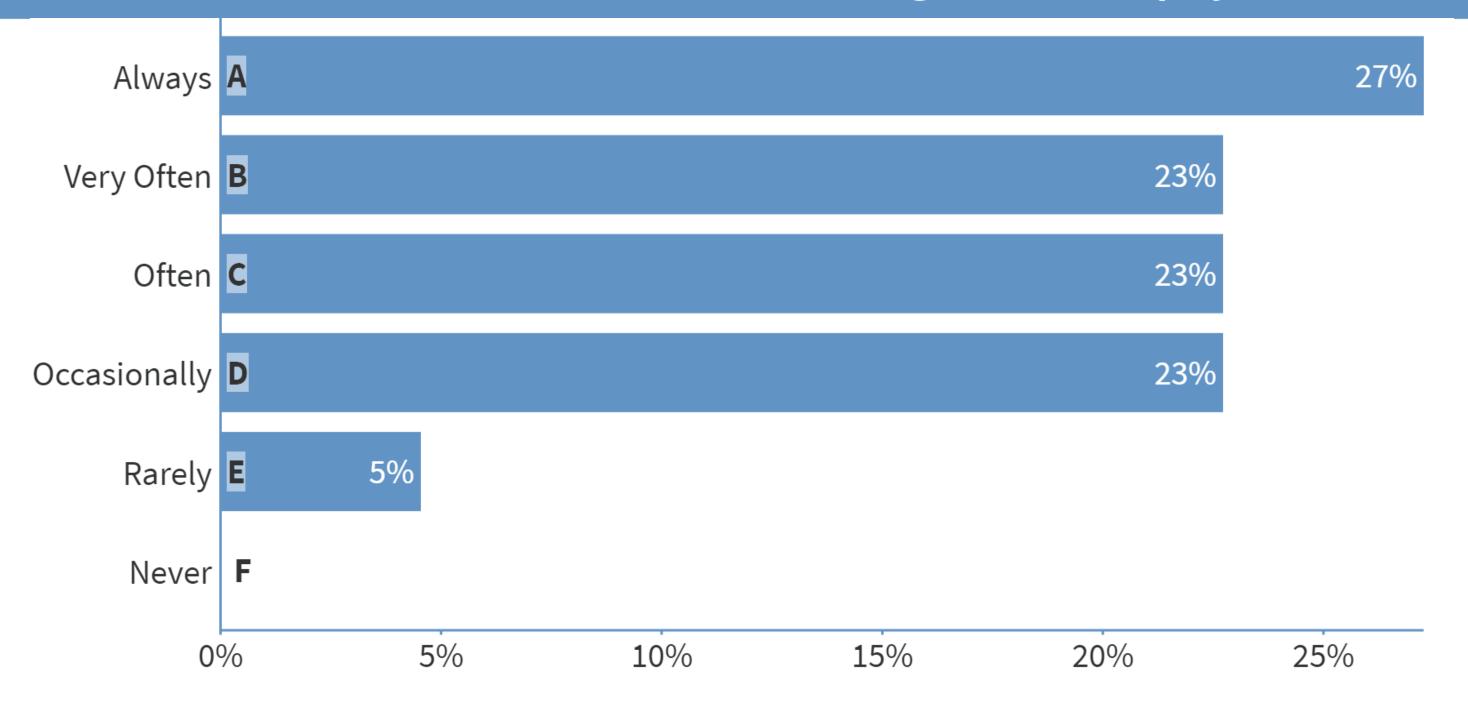
QUALITY STATEMENTS

- 1. Our test coverage satisfies our test quality goals
- 2. Critical defects are prevented from reaching Production
- 3. Our product is stable
- 4. The tests are automated where possible
- Test results are used as the basis of code integration and deployment





5. Test Results are used as a basis of code integration and deployment.

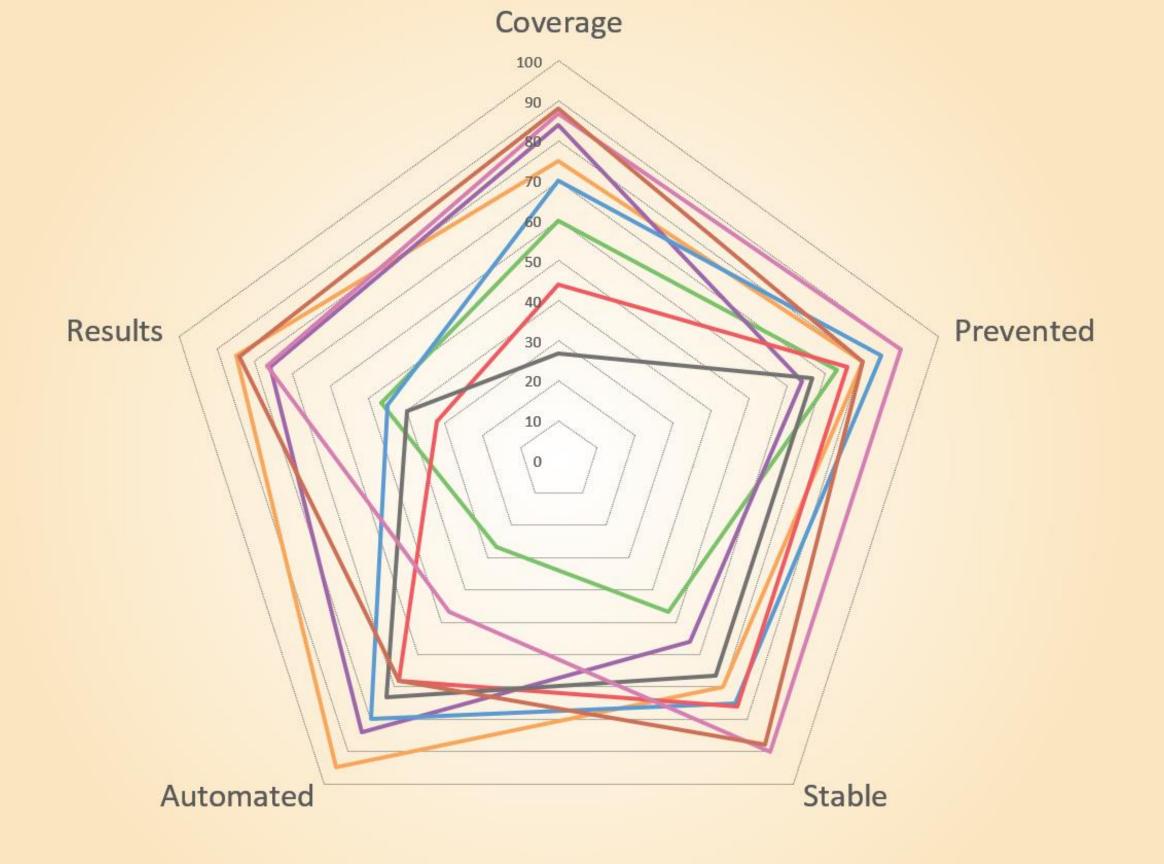


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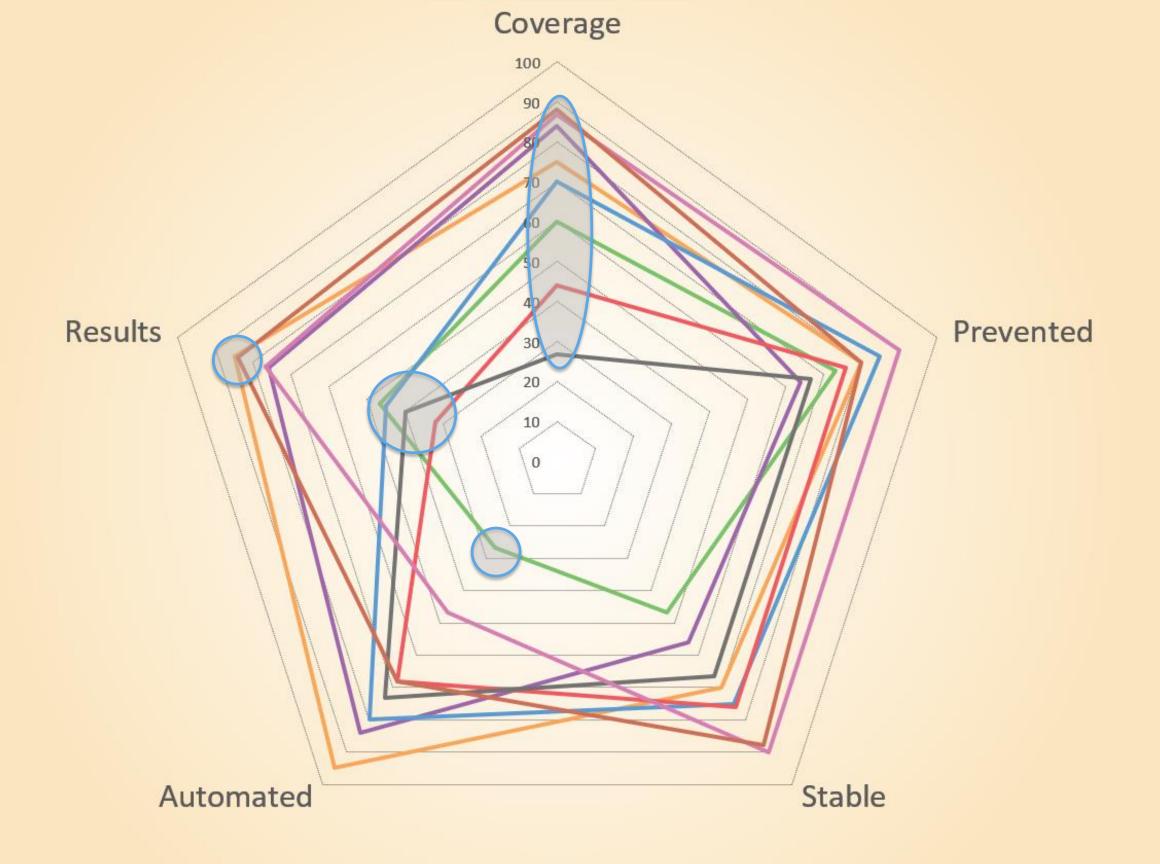
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Quality Results



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Quality Results



DRAWBACKS OF THIS ASSESSMENT TOOL

- Time-consuming to compile the data
- Created by collection of mortals
- Not easy to compare teams and organizations over time

NEXT STOP: COMPARATIVE AGILITY TOOL

Tool's Topics

- Teamwork
- Requirements
- Planning
- Technical Practices
- Quality
- Culture
- Knowledge Creating
- Outcomes

Previous Topics

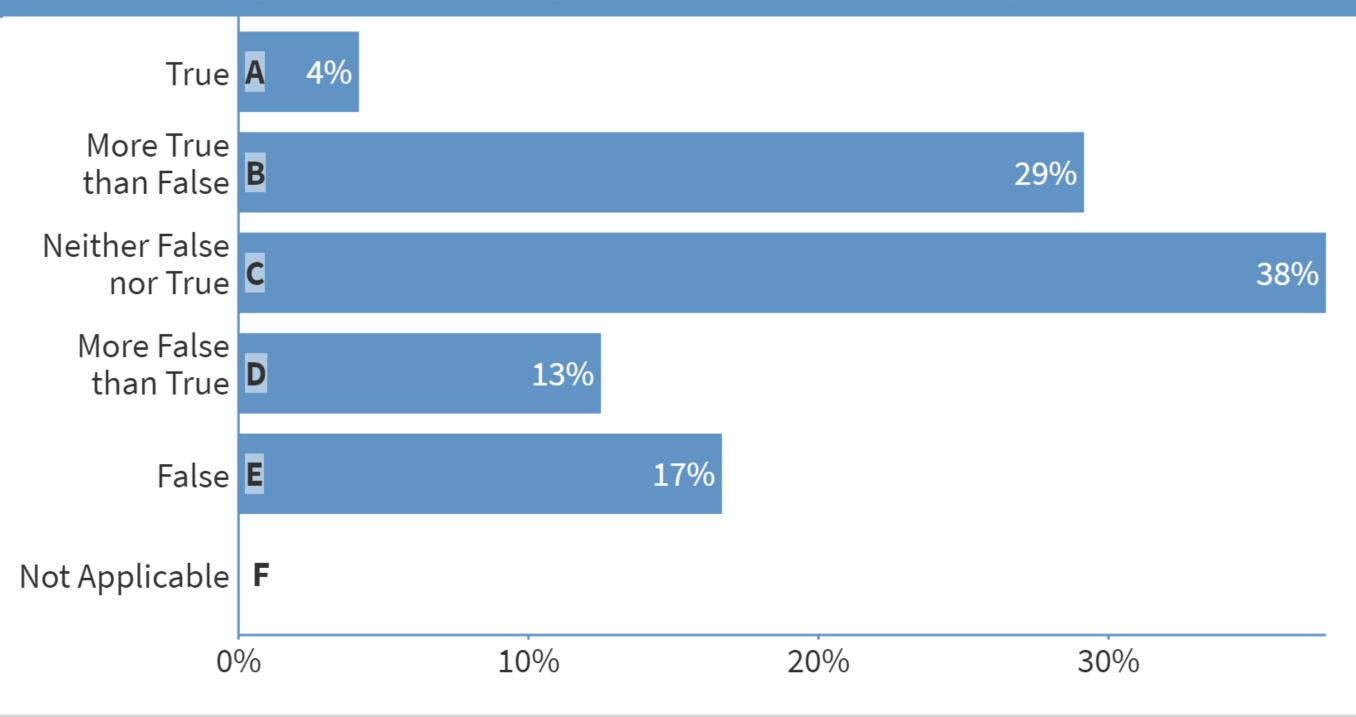
- Team Integrity
- Requirements
- Retrospectives
- Backlog Management
- Refactoring
- Quality
- Architecture

COMPARATIVE AGILITY – QUALITY ITEMS

			-				
Product ov	vners a	ctively partic	ipate in the crea	tion of the ac	cceptanc	e criteria for each fea	ture. 🕜
	True	More True than False	Neither False nor True	More False than True	False	Not Applicable	
	Al	l bugs are fix	ed during the ite	eration in whi	ich they a	are found. 🕜	
	\bigcirc				\bigcirc		
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					\bigcirc		
	True	More True	Neither False	More False	False	Not	
		than False	nor True	than True		Applicable	

The team performs a variety of types of testing including functional, performance, integration, and scalability each iteration. ?										
	True	More True than False	Neither False nor True	More False than True	False	Not Applicable				
Team members who perform testing are involved and productive right from the start of each iteration. 🔞										
T	True	More True than False	Neither False nor True	More False than True	False	Not Applicable				
At the end of each iteration, the team has high-quality working software that it is comfortable being tested by people outside of the team. ?										
Т	True	More True than False	Neither False nor True	More False than True	False	Not Applicable				
The team has pre-defined and agreed-upon criteria for considering a feature done. ?										
Т		More True than False	Neither False nor True	More False than True	False	Not Applicable				

All bugs are fixed during the iteration in which they are found.



And We Still Get Spider Charts...



And See Changes Over Time...

Quality(+0.04 Difference from Comparative Benchmark)

Evaluates the degree to which Quality is built-in at the source. Clearly defined customer acceptance criteria, an end-to-end testing strategy, automation and a commitment to only delivering fully tested code are all best practices that typically lead to higher software quality, fewer defects in production and less rework.



#45Product owners actively participate in the creation of the acceptance criteria for each feature.(0.2)
#46All bugs are fixed during the iteration in which they are found.(-0.09)

#47At the end of each iteration there is little or no manual testing required.(-0.33)

- #48The team performs a variety of types of testing including functional, performance, integration, and scalability each iteration.(-0.17)
- #49Team members who perform testing are involved and productive right from the start of each iteration.
- # 50At the end of each iteration, the team has high-quality working software that it is comfortable being tested by people outside of the team.(0.26)
- #51The team has pre-defined and agreed-upon criteria for considering a feature done.(0.22)

And Better Deep-Dives into the Data...

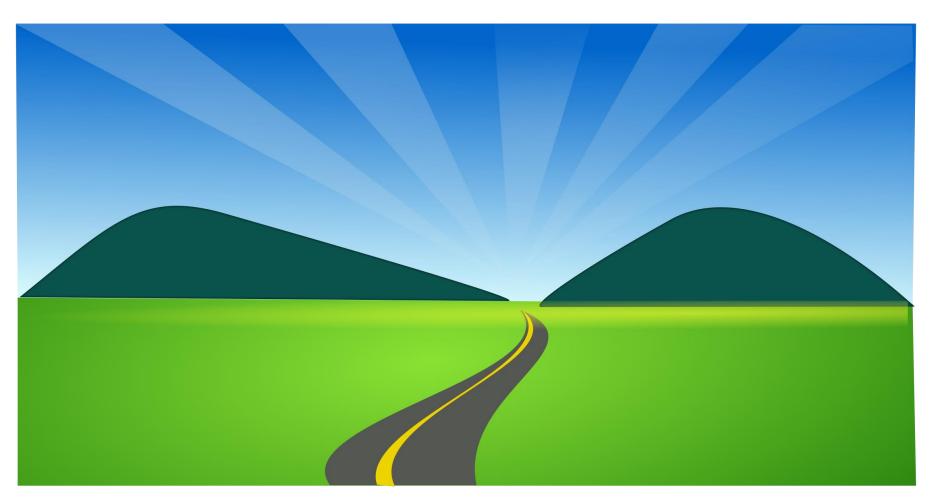


And See the Response Distributions



SUMMARY

- Catalyte's "Road"
- Navigation
- Mapping
- Road Cones
- Next Stops



Questions?

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CREDITS

Polling is done using PollEverywhere.com

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