

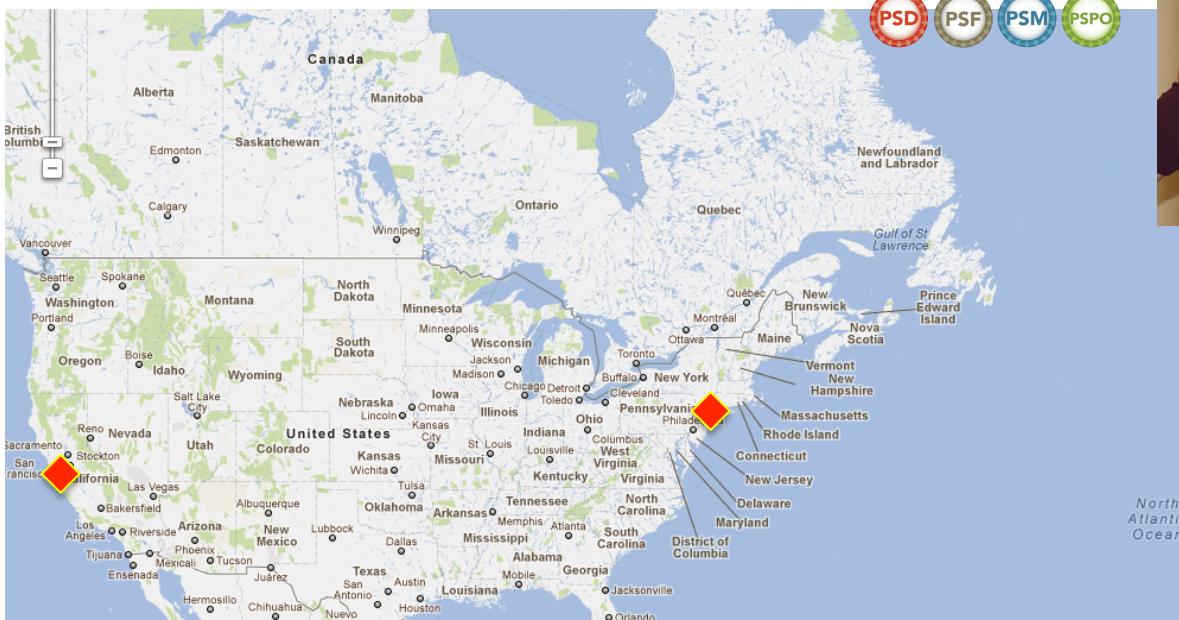
Sprint Backlog Specified by Example

Ralph Jocham
effective agile.

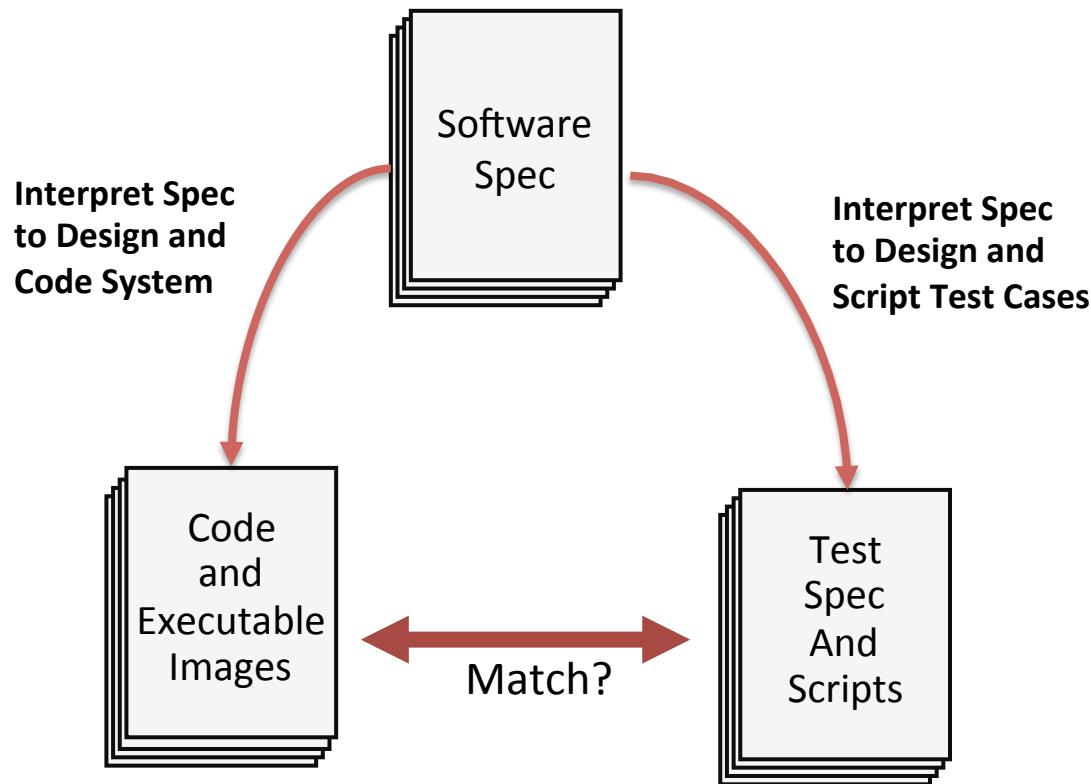
www.effectiveagile.com
ralph@effectiveagile.com
`@rjocham`

Ralph Jocham

- Started as programmer; discovered process as a problem early on
- First Unified Process with UML
- Agile since 2000 with XP
- Scrum in 2003
- Oracle, LinkedIn, Roche, Google, The Gap, Swisscom, Texas Instruments, Siemens Medical, ThoughtWorks, JPMorganChase
- Did come around, different cultures and domains
- Founder of effective agile.
- Trainer and Engagement Manager with  Scrum.org
Improving the Profession of Software Development

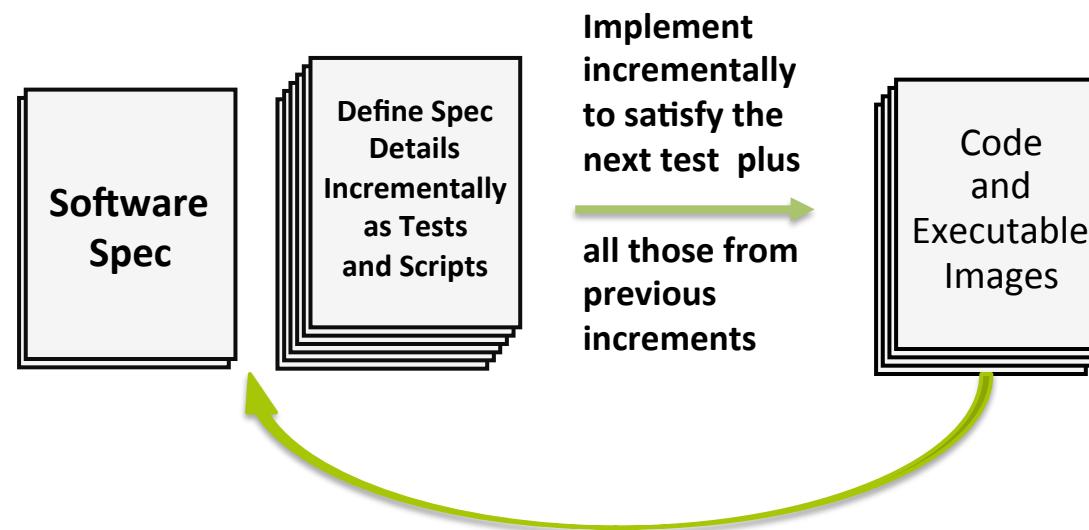


Right Quality – No!



(source: Mary Poppendieck)

Right Quality - Yes!



If you want effective programmers, you will discover that they should not waste their time debugging – they should not introduce bugs to start with (Edger W. Dijakstra 1972)

(source: Mary Poppendieck)

What is the Product Backlog

The Product Backlog lists all features, functions, requirements, enhancements, and bug fixes that constitute the changes to be made to the product in future releases. Product Backlog items have the attributes of a description, order, and estimate.

Scrum Guide Page 12



What is a Sprint Backlog

The Sprint Backlog is the set of Product Backlog items selected for the Sprint, plus a plan for delivering the product Increment and realizing the Sprint Goal.

Scrum Guide Page 14



Roles, Artifacts and Events in Action

Roles

Product Owner
Development Team
Scrum Master

Artifacts

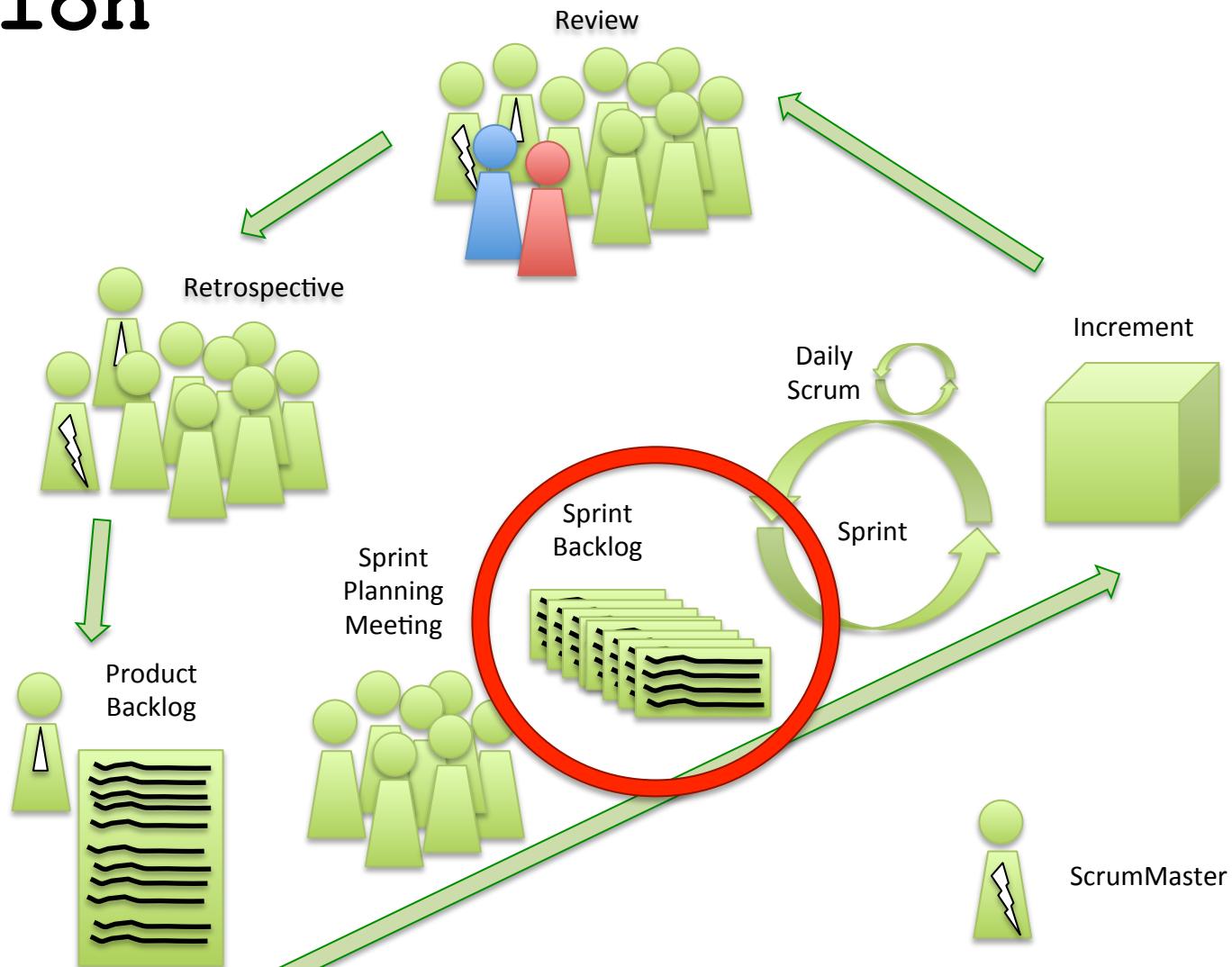
Product Backlog
Sprint Backlog
Increment

Events

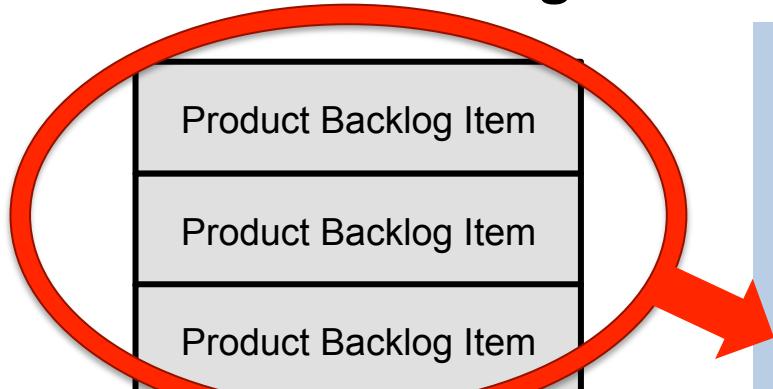
Sprint Planning
Sprint
Daily Scrum
Sprint Review
Retrospective

(source: ADM)

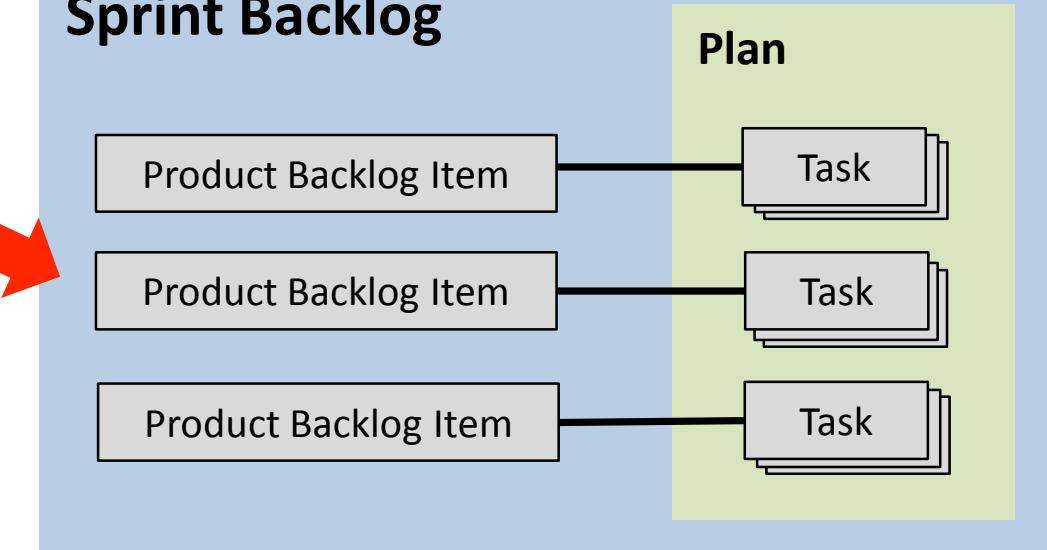
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Product Backlog

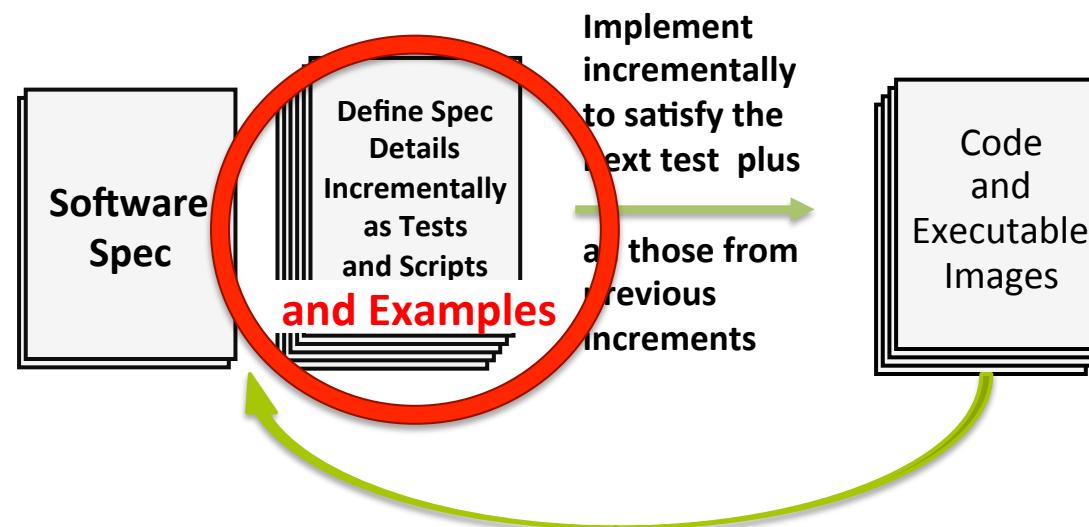


Sprint Backlog





Right Quality - Yes!



(source: Mary Poppendieck)

3 C's



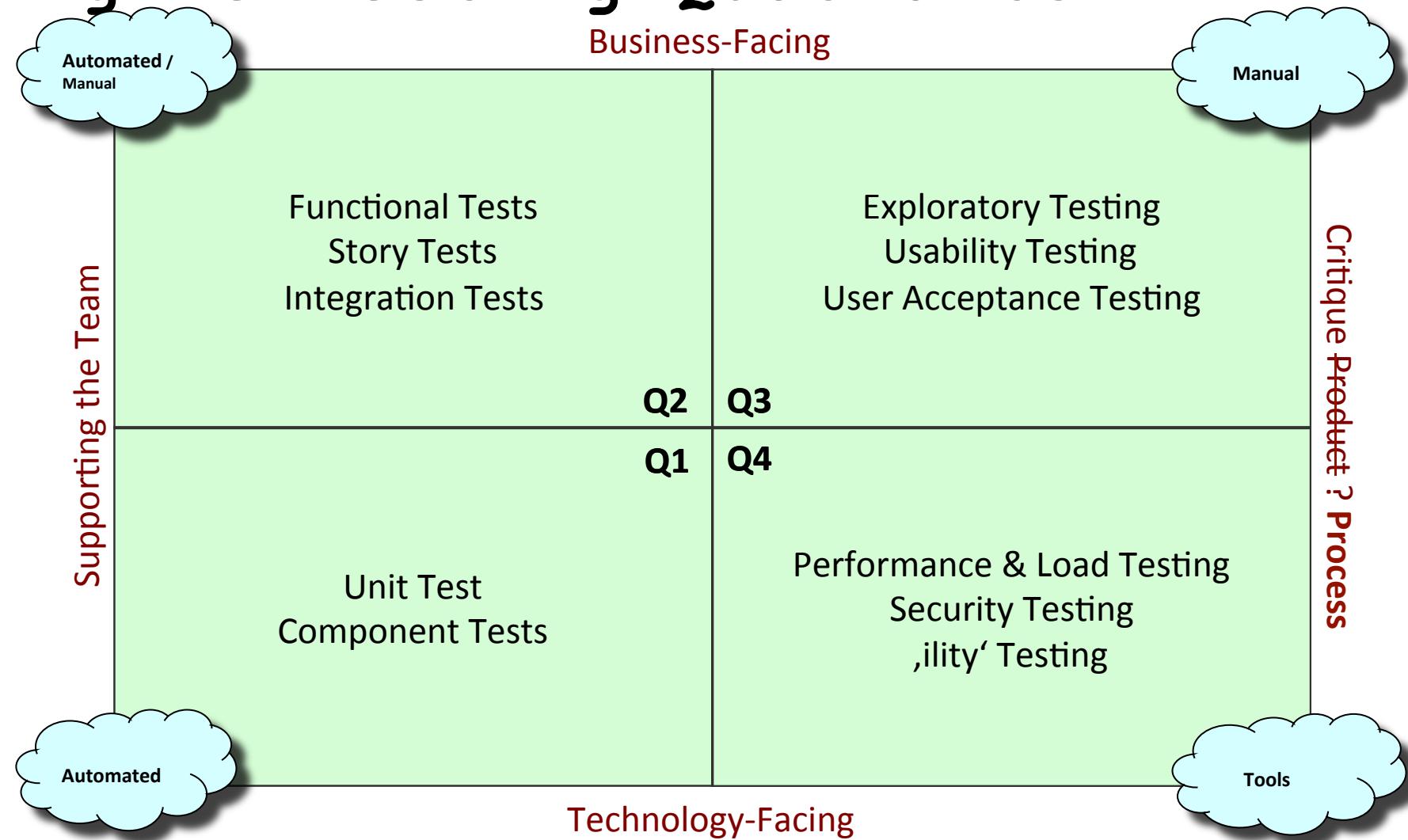
Card

Conversation (Understand the Why)

Confirmation

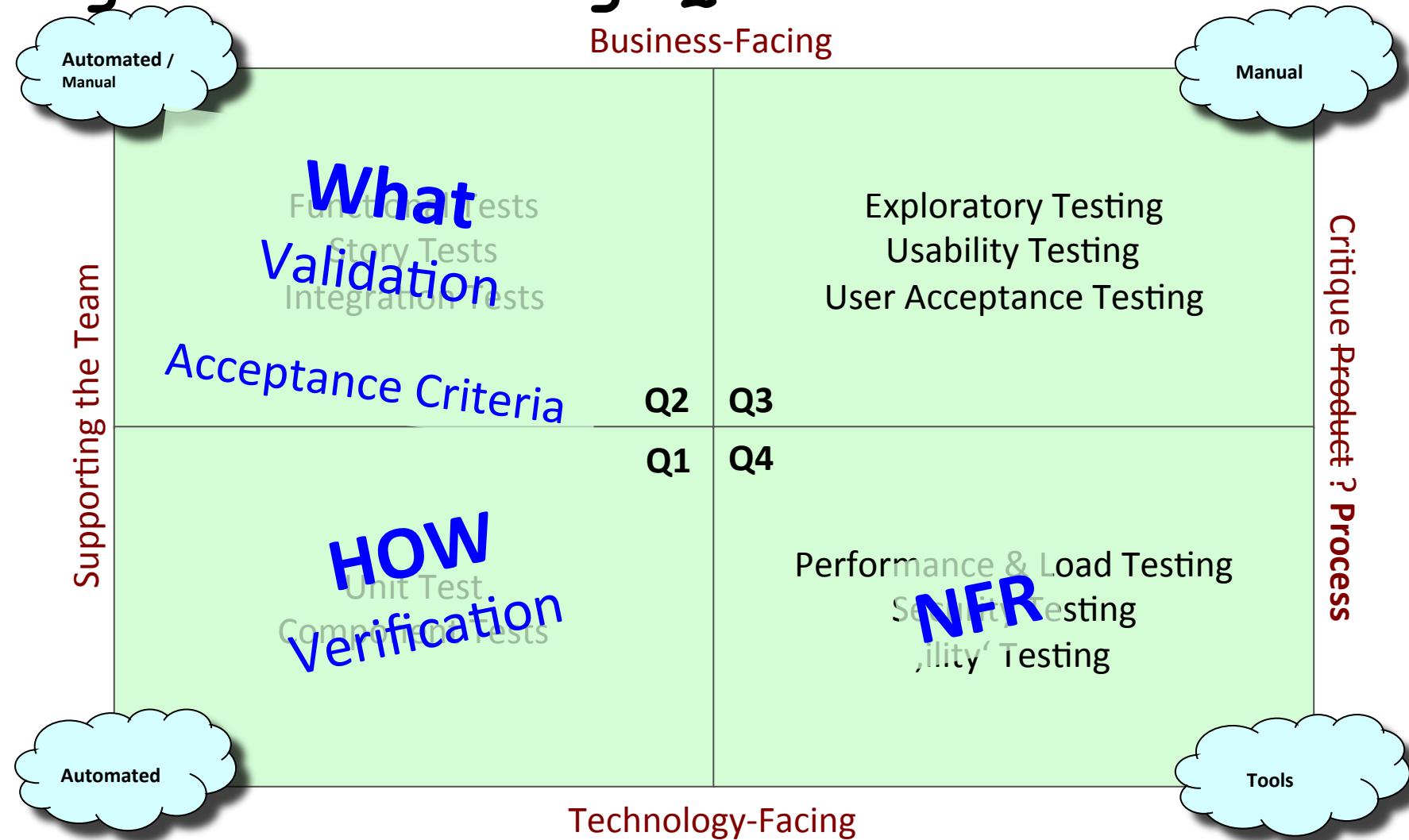
Ron Jeffries, <http://xprogramming.com/articles/expcardconversationconfirmation/>

Agile Testing Quadrants



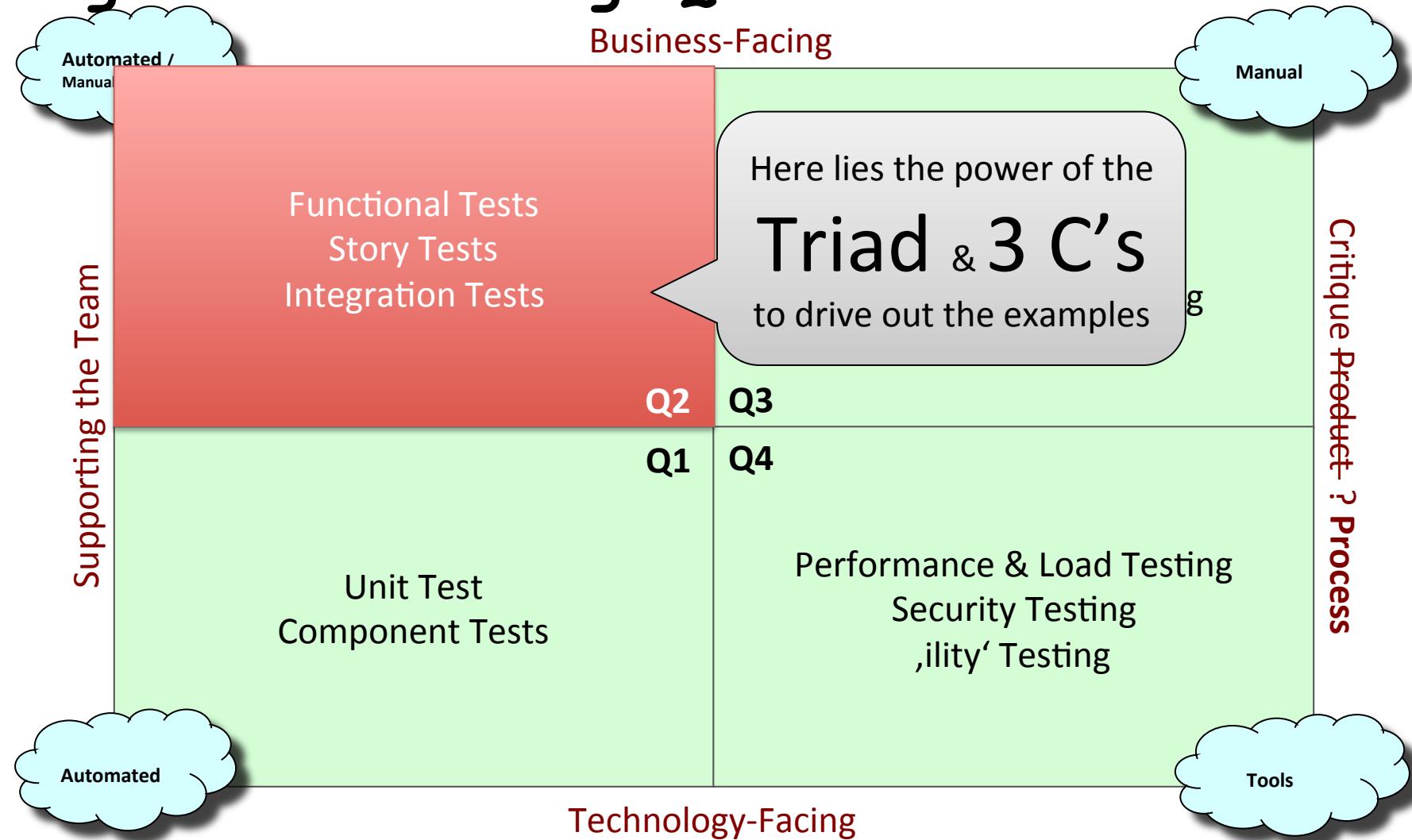
(source: Brian Marick)

Agile Testing Quadrants



(source: Brian Marick)

Agile Testing Quadrants



(source: Brian Marick)



How to get there

Refinement

Title: Derive race time for new
distance from other distance

Title: Derive race time for new distance from other distance

3

As a runner

I want to be able to derive the race time for a new distance based on the time of another distance

So that I can get a feeling for what time to expect and to better plan my training

Title: Derive race time for new

3

Acceptance Criteria:

A
I
S

- Calculated time is correctly rounded to 1 second for all distances of less than 1 hour racing time
- Calculated time is correctly rounded to 10 seconds for all distances of more than 1 hour racing time
- Time of calculation is < 1 second



Title: Derive race time for new

5

Acceptance Criteria:

A

- Calculated time is correctly rounded to 1 second for all distances of less than 1 hour racing time
- Calculated time is correctly rounded to 10 seconds for all distances of more than 1 hour racing time
- Time of calculation is < 1 second
- *Maximal allowed extrapolated distance is Marathon*
- *McMillan is the used algorithm*
- *We have a license agreement with McMillan*

I

S



5

Title: Derive race time for new

Acceptance Criteria:

Examples:

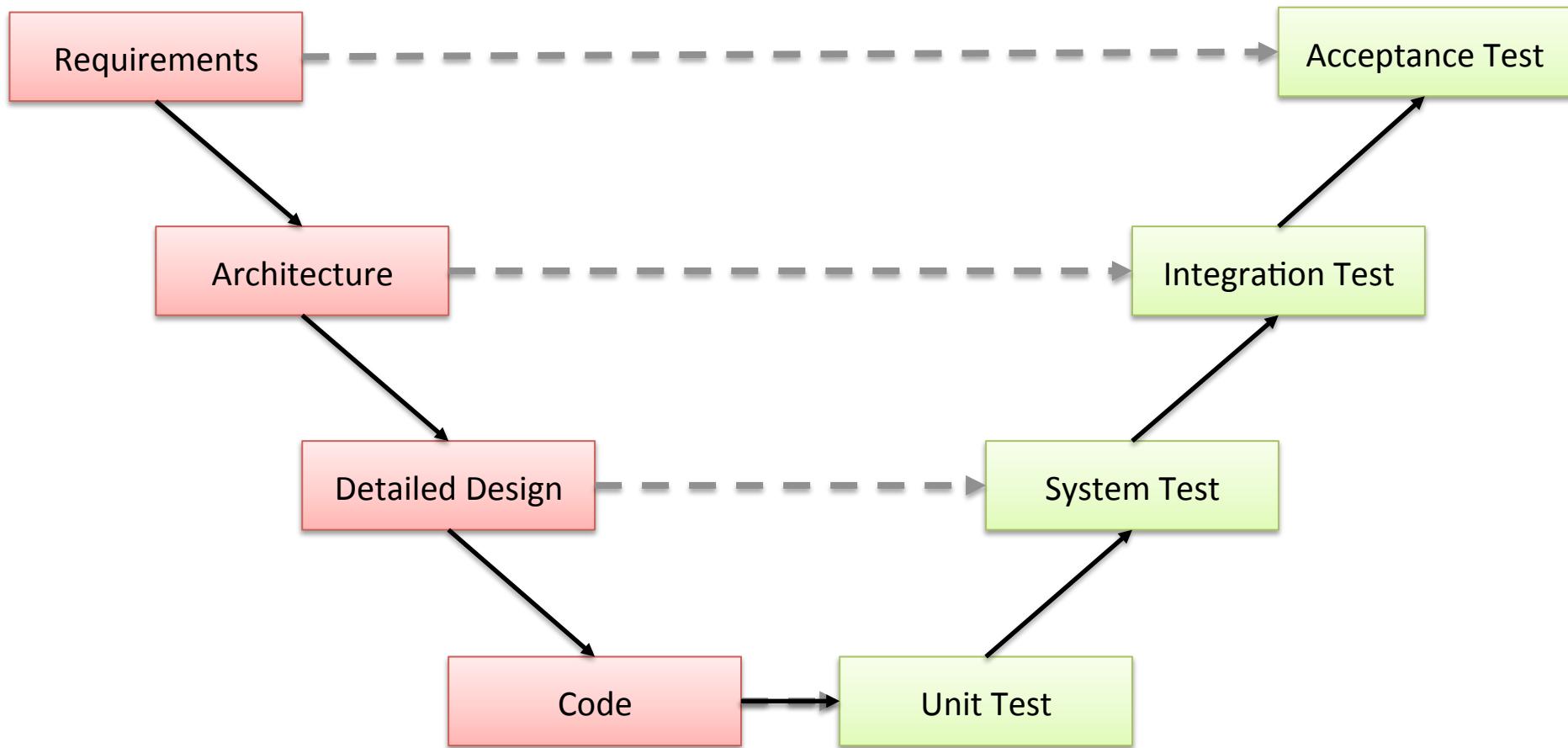
Formula Examples

5K	2K	3K	5K	10K	15K	20K	½ M	25K	30K	1M
0:15.00	0:05.29	0:08.33	0:15.00	0:31.09	0:48.16	1:05.40	1:09.30	1:23.30	1:41.30	2:26.10
0:20.00	0:07.19	0:11.23	0:20.00	0:41.32	1:04.30	1:27.40	1:32.40	1:51.20	2:15.20	3:15.00
0:30.00	0:10.50	0:17.04	0:30.00	1:02.20	1:36.40	2:11.20	2:19.00	2:47.00	3:23.00	4:52.20
10K	2K	3K	5K	10K	15K	20K	½ M	25K	30K	1M
0:35.00	0:06.09	0:09.35	0:16.51	0:35.00	0:54.14	1:13.50	1:18.10	1:33.50	1:54.00	2:44.20
0:40.00	0:07.03	0:10.58	0:19.16	0:40.00	1:02.00	1:24.20	1:29.10	1:47.10	2:10.20	3:07.40
0:50.00	0:08.48	0:13.42	0:24.05	0:50.00	1:17.30	1:45.30	1:51.30	2:14.00	2:43.00	3:54.40

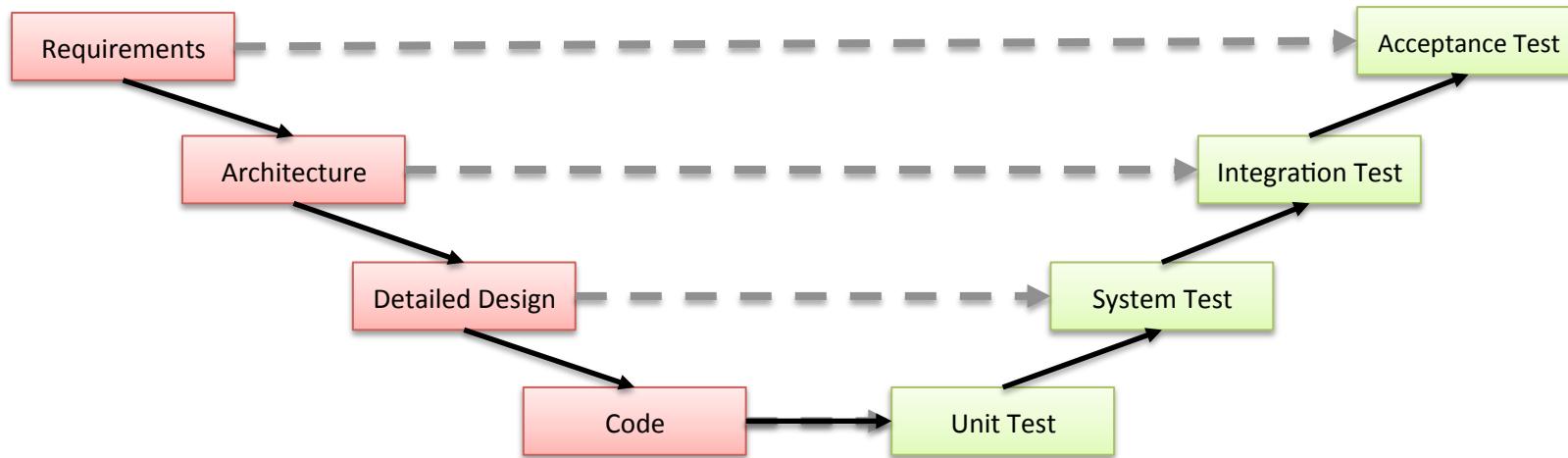
Error Examples

5K	-10K	0K	42.195K	42.196K	5000K
0:15.00	F: negative	F: zero	2:26.10	F: too long	F: too long
-1K	OK	42.196K			
F: negative	F: zero	F: negative			

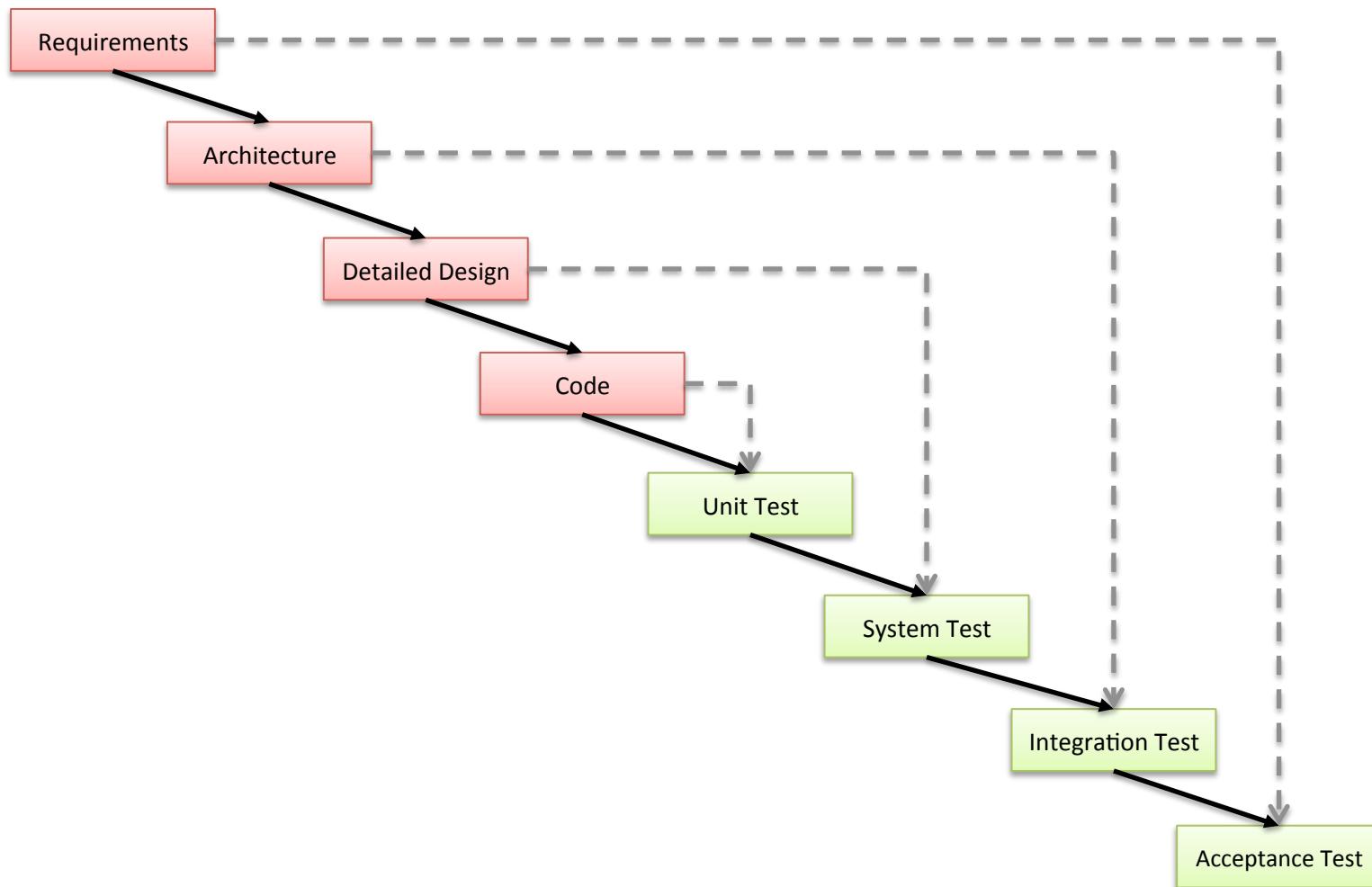
V-Model



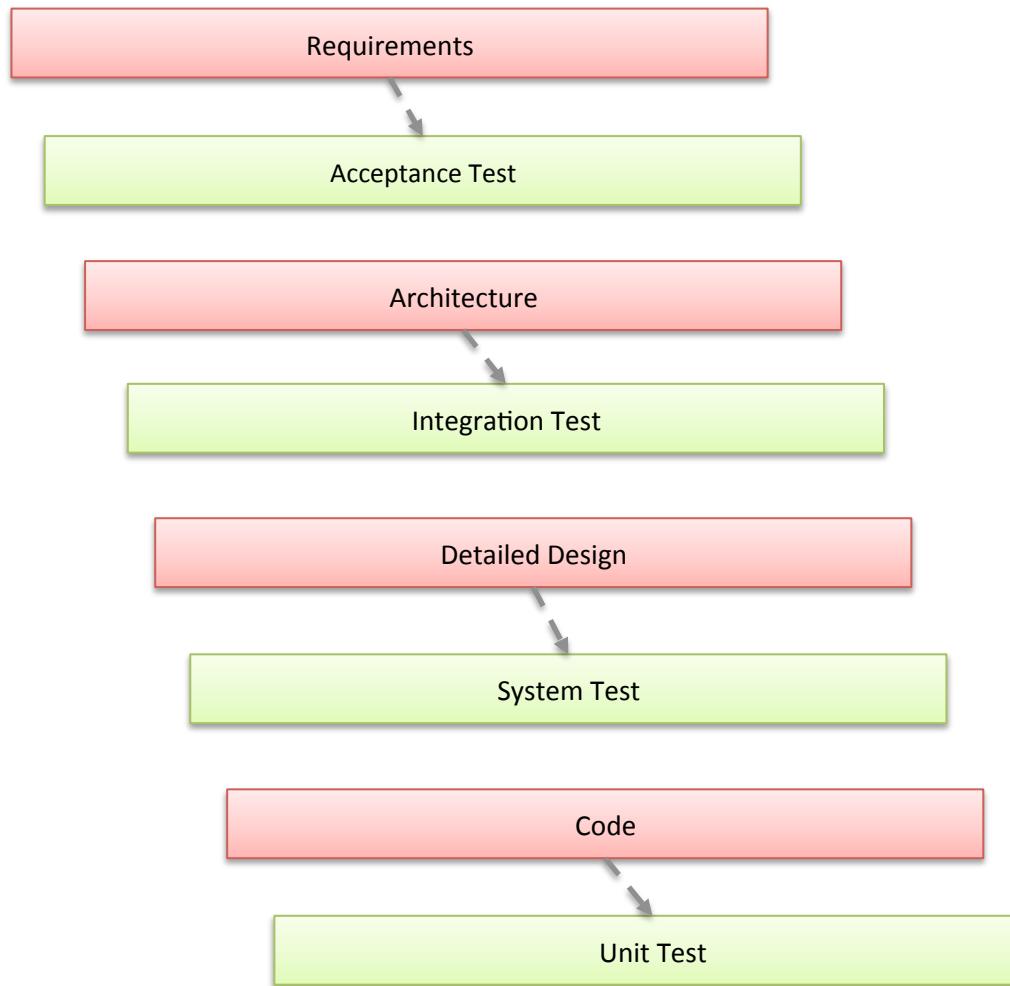
V-Model?



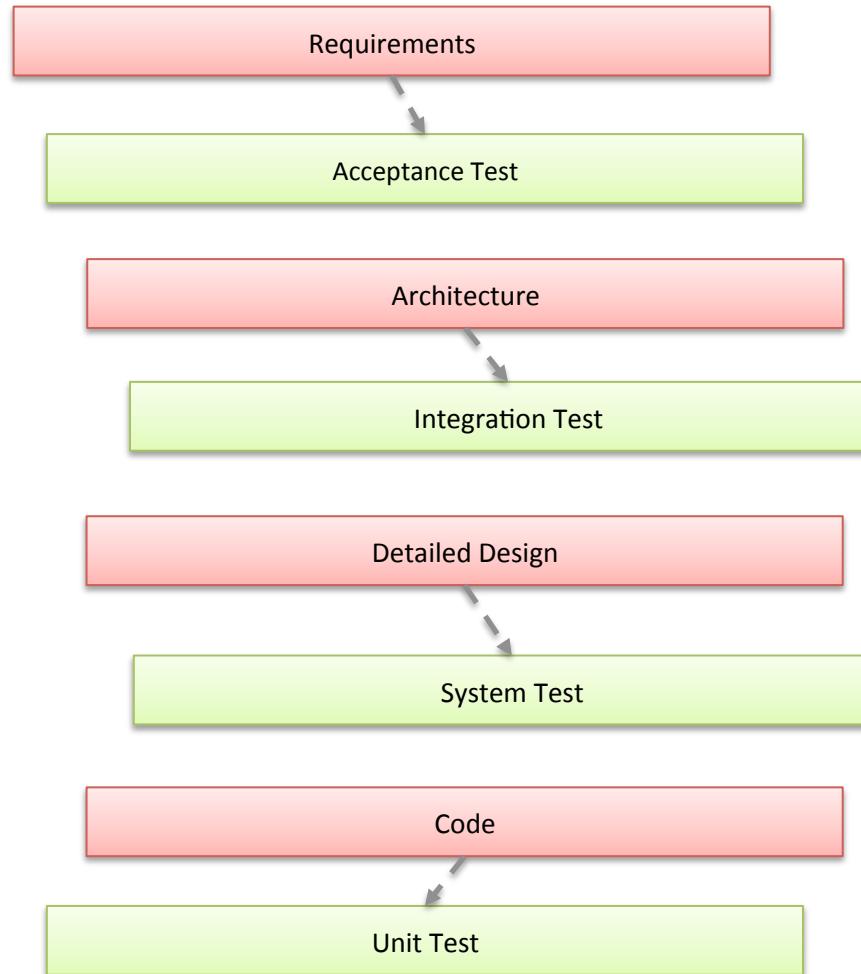
V-Model?



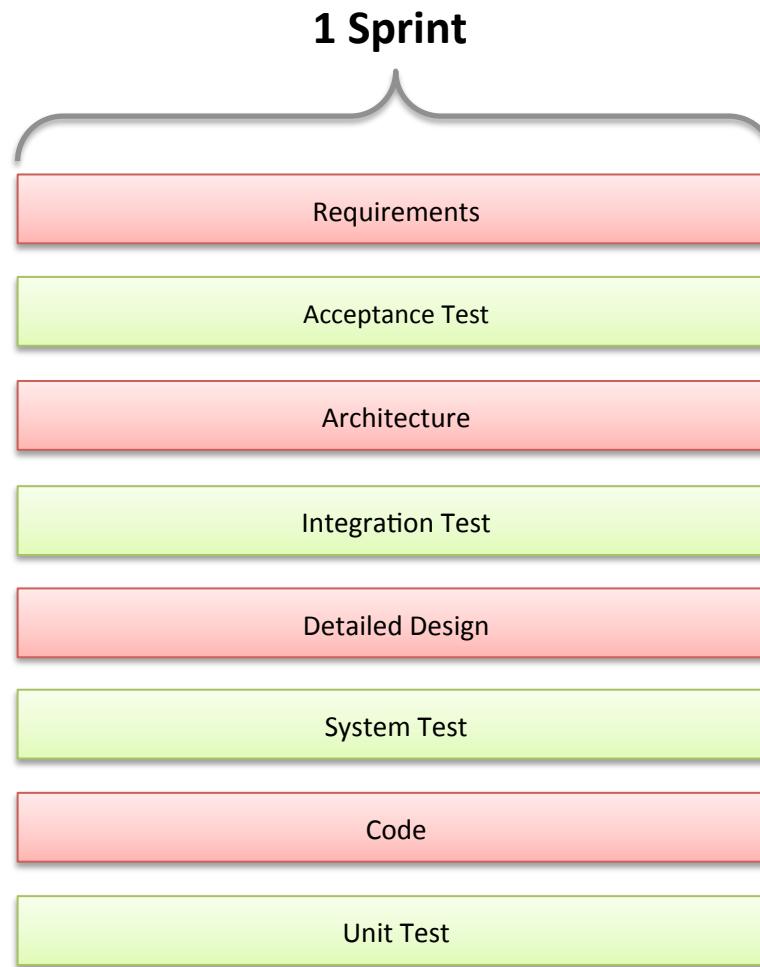
V-Model Logically Applied



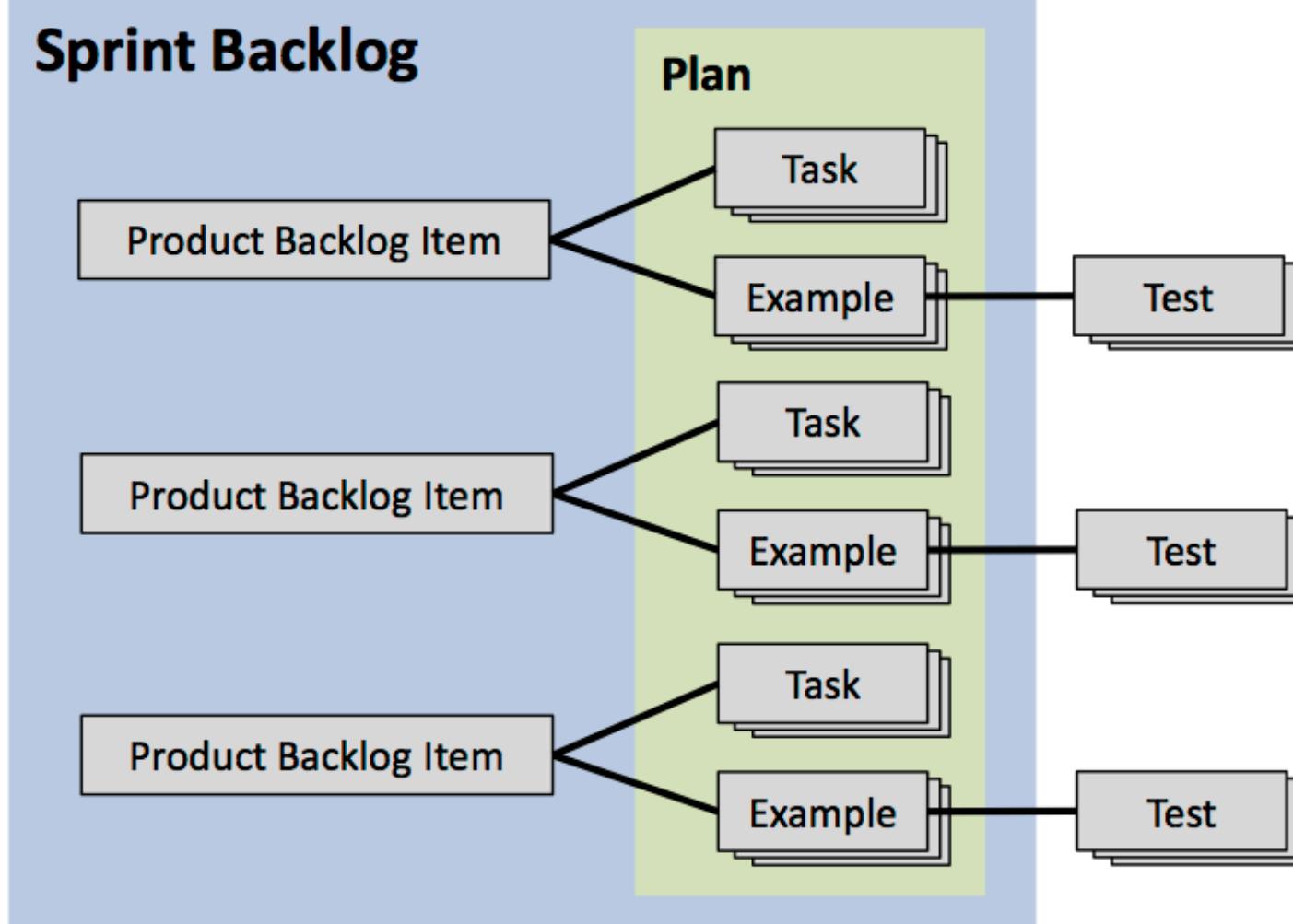
V-Model Timely Applied

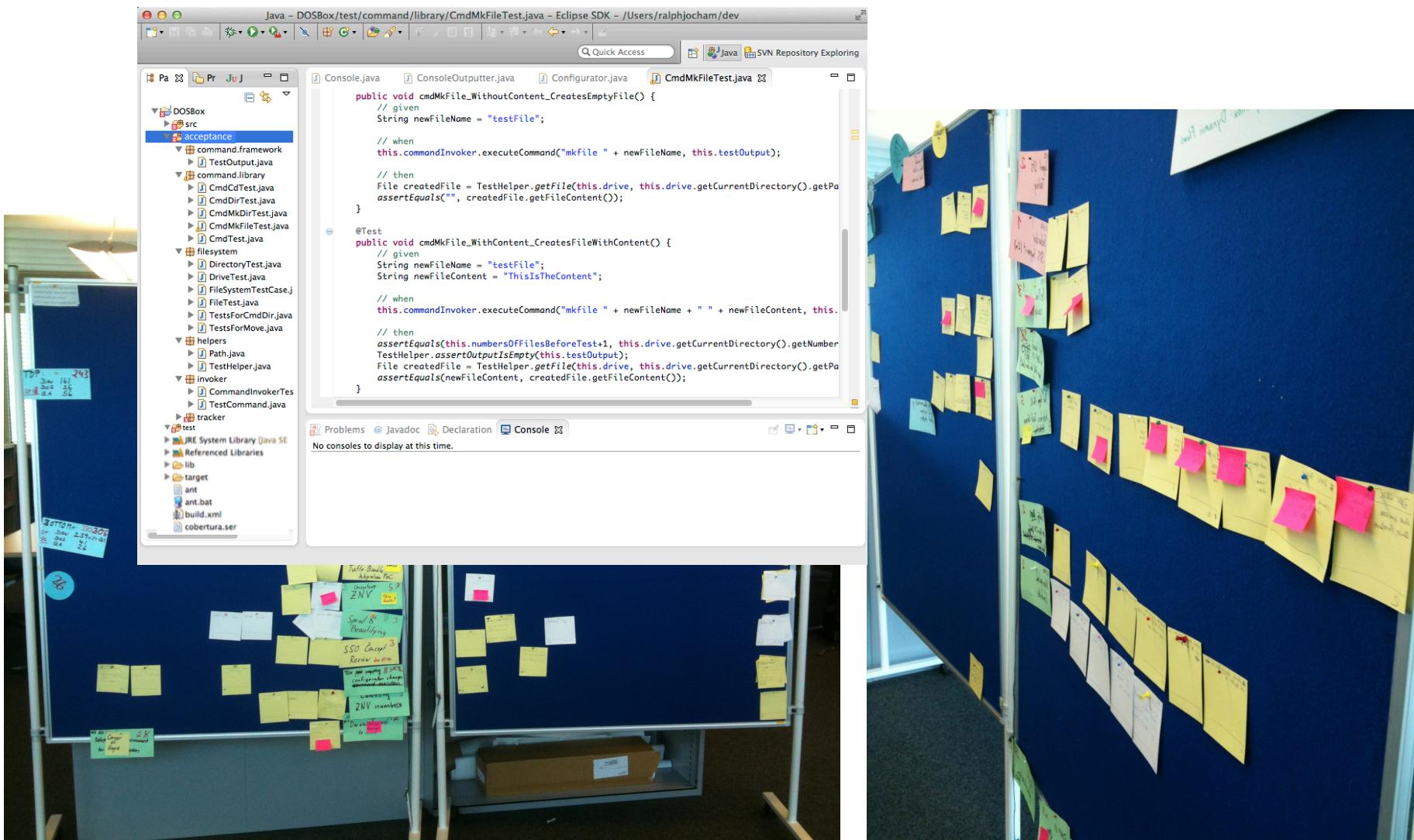


V-Model Timely Applied in Sprint



Sprint Backlog





Validation Workflow. Automated.TM



Simplify & Standardize Validation



Validation
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Biosystems

As the world's first commercially available automated validation software solution, VALID™ Software is designed to help support, simplify and standardize validation studies while meeting SWGDAM/DAB recommendations. VALID™ Software dramatically reduces the amount of time and labor required to validate new technologies and:

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- Automates data analysis and reduces time to interpret results
- Creates validation reports
- Stores results in a central location

VALID™ Software also manages quality assurance and control activities including performance checks, material modification testing, and qualifying testing.

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effective agile.

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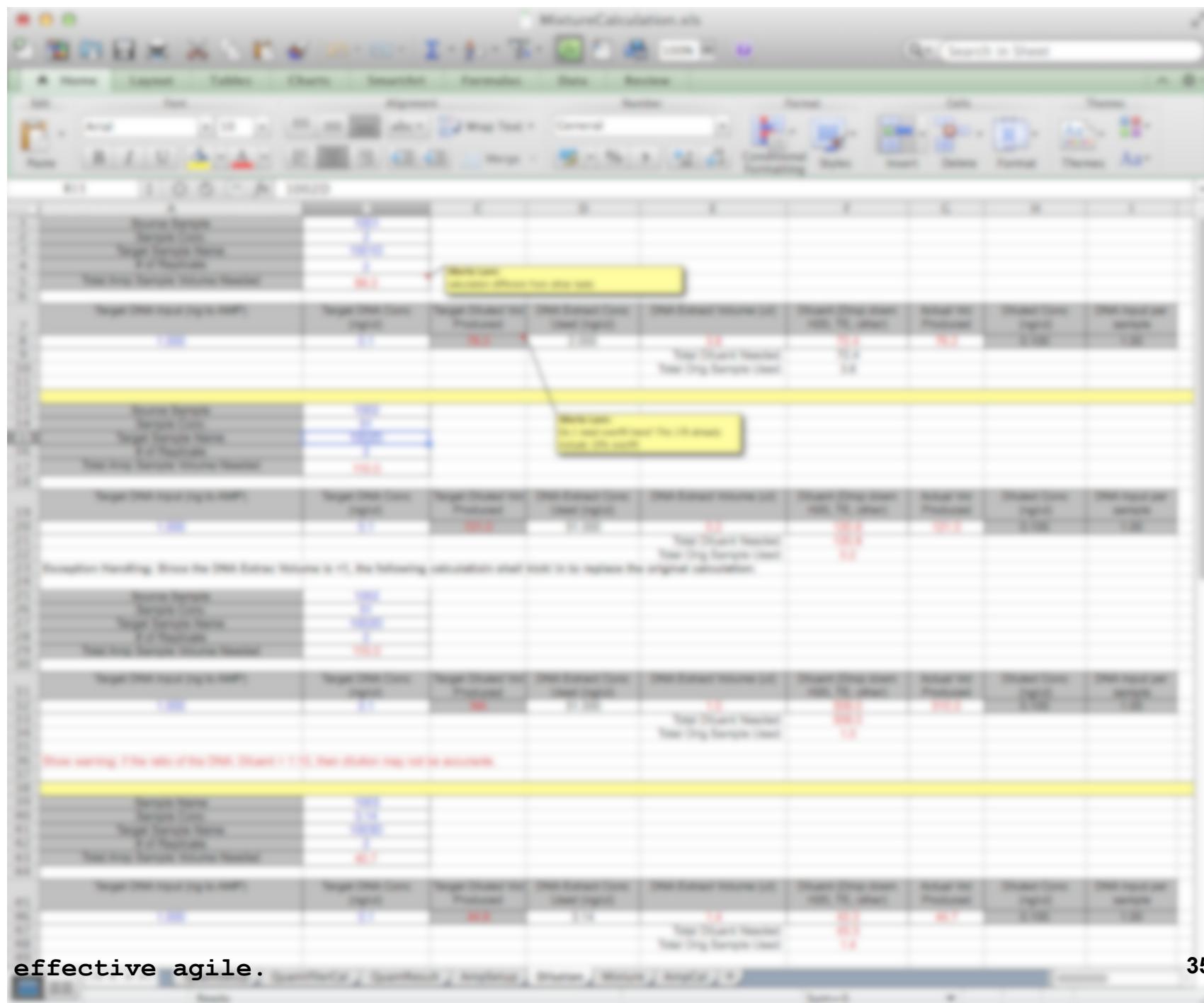
Refer a Colleague

- [Notify a colleague](#) 

A screenshot of a Microsoft Excel spreadsheet titled "createNewProg.xls". The table has columns labeled "ID", "Name", "Age", "Address", "Phone", "Email", "Salary", "Hire Date", "Last Pay Date", "Last Pay Amount", "Last Pay Type", and "Last Pay Date". The last row of the table is selected, indicated by a blue horizontal bar at the bottom of the table area.

ID	Name	Age	Address	Phone	Email	Salary	Hire Date	Last Pay Date	Last Pay Amount	Last Pay Type	Last Pay Date
1001	John Doe	30	123 Main St	555-1234	john.doe@example.com	\$50000	2023-01-01	2023-06-30	\$25000	Full Pay	2023-06-30
1002	Jane Smith	28	456 Elm St	555-2345	jane.smith@example.com	\$50000	2023-01-01	2023-06-30	\$25000	Full Pay	2023-06-30
1003	Bob Johnson	32	789 Oak St	555-3456	bob.johnson@example.com	\$50000	2023-01-01	2023-06-30	\$25000	Full Pay	2023-06-30
1004	Sarah Williams	29	567 Pine St	555-4567	sarah.williams@example.com	\$50000	2023-01-01	2023-06-30	\$25000	Full Pay	2023-06-30
1005	David Miller	34	987 Cedar St	555-5678	david.miller@example.com	\$50000	2023-01-01	2023-06-30	\$25000	Full Pay	2023-06-30

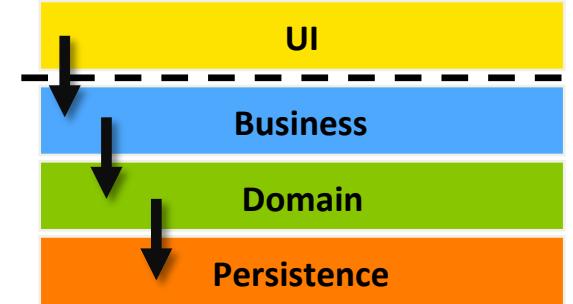
effective agile.



“As formality increases, tests and requirements become indistinguishable. At the limit, tests and requirements are equivalent.”

Robert C. Martin, Grigori Melnik: Tests and Requirements, Requirements and Tests: A Mobius Strip. IEEE Software 25 (1): 54-59 (2008)

Tooling

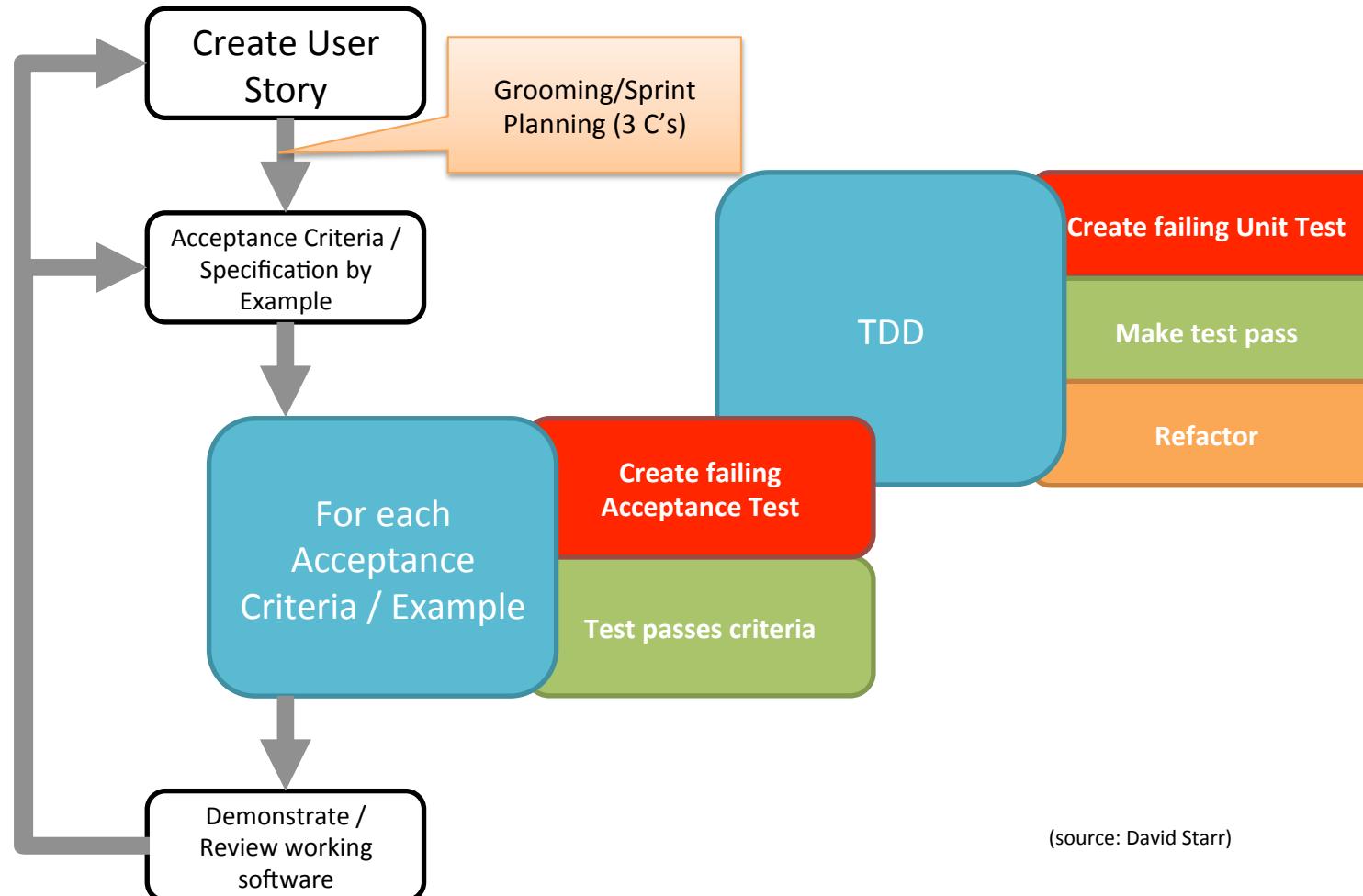


- JUnit for Unit Testing
- JUnit Acceptance Testing
- FitNesse for Acceptance Testing
- Excel and POI in combination with JUnit for Acceptance Testing

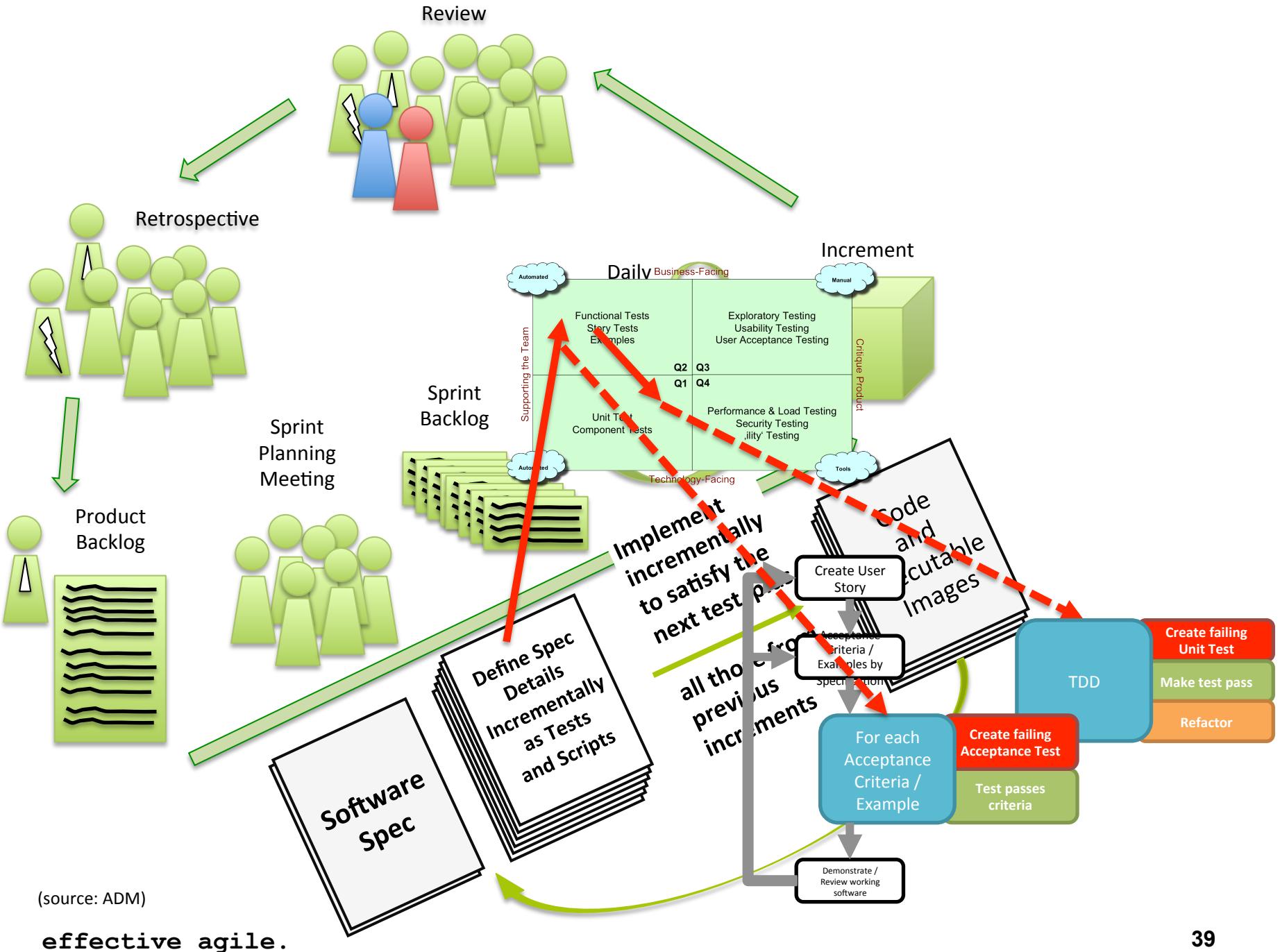
Q2	Q3
Q1	Q4

Q2	Q3
Q1	Q4

ATDD to TDD



(source: David Starr)



Questions?

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