

Driving Development with Acceptance Tests

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Agenda

- × What is ATDD?
- × Why use ATDD?
- × Introducing an example
- × Demo



What is ATDD?



It's about...

- × ...beginning with the end in mind
- × ...collaboration & communication
- × ...managing expectations
- × ...avoid doing the wrong **it**,
and avoid doing the **it** wrong



ATDD in the Agile Cycle

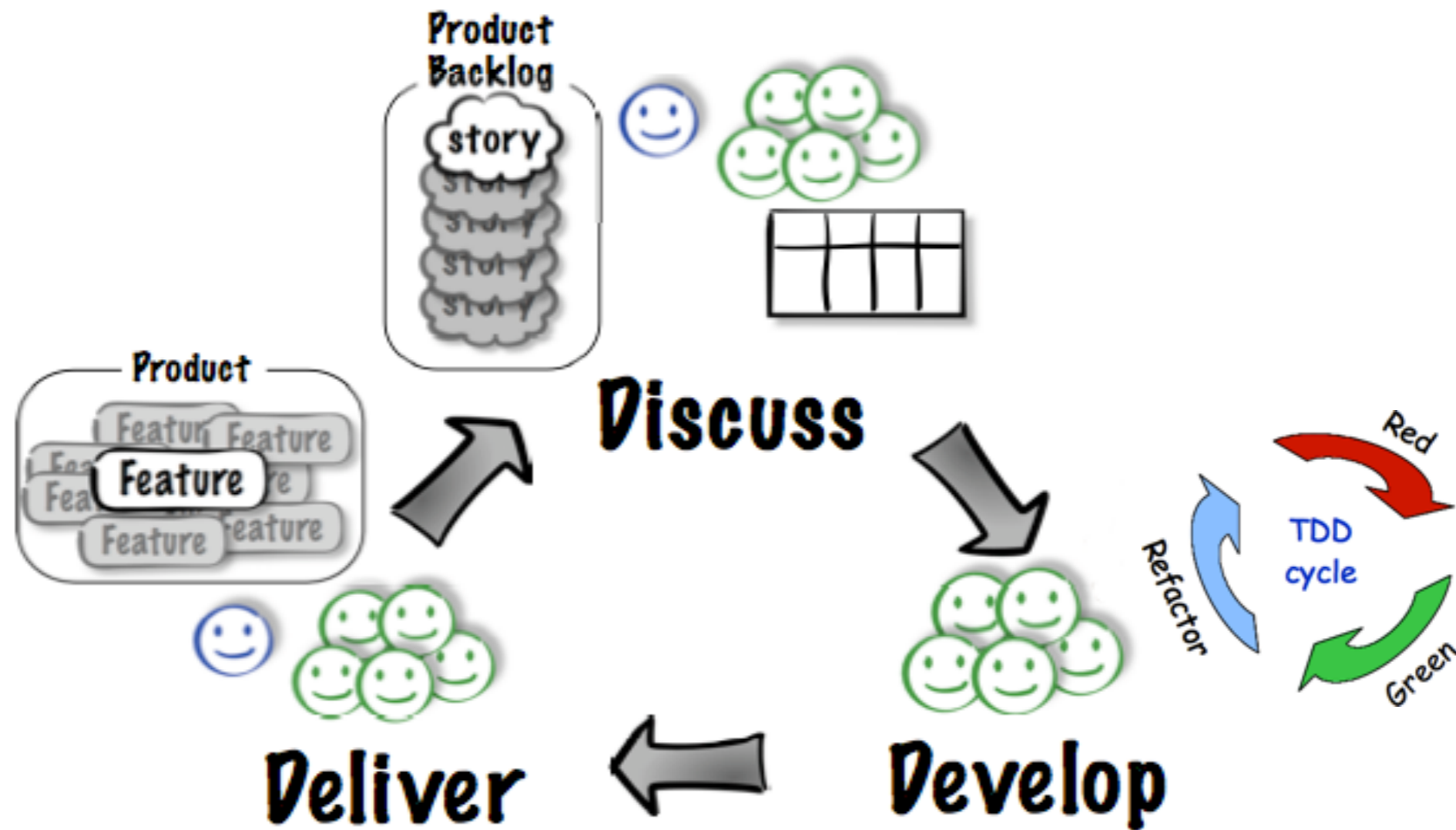


Image courtesy Elisabeth Hendrickson, www.qualitytree.com



ATDD: *discuss*

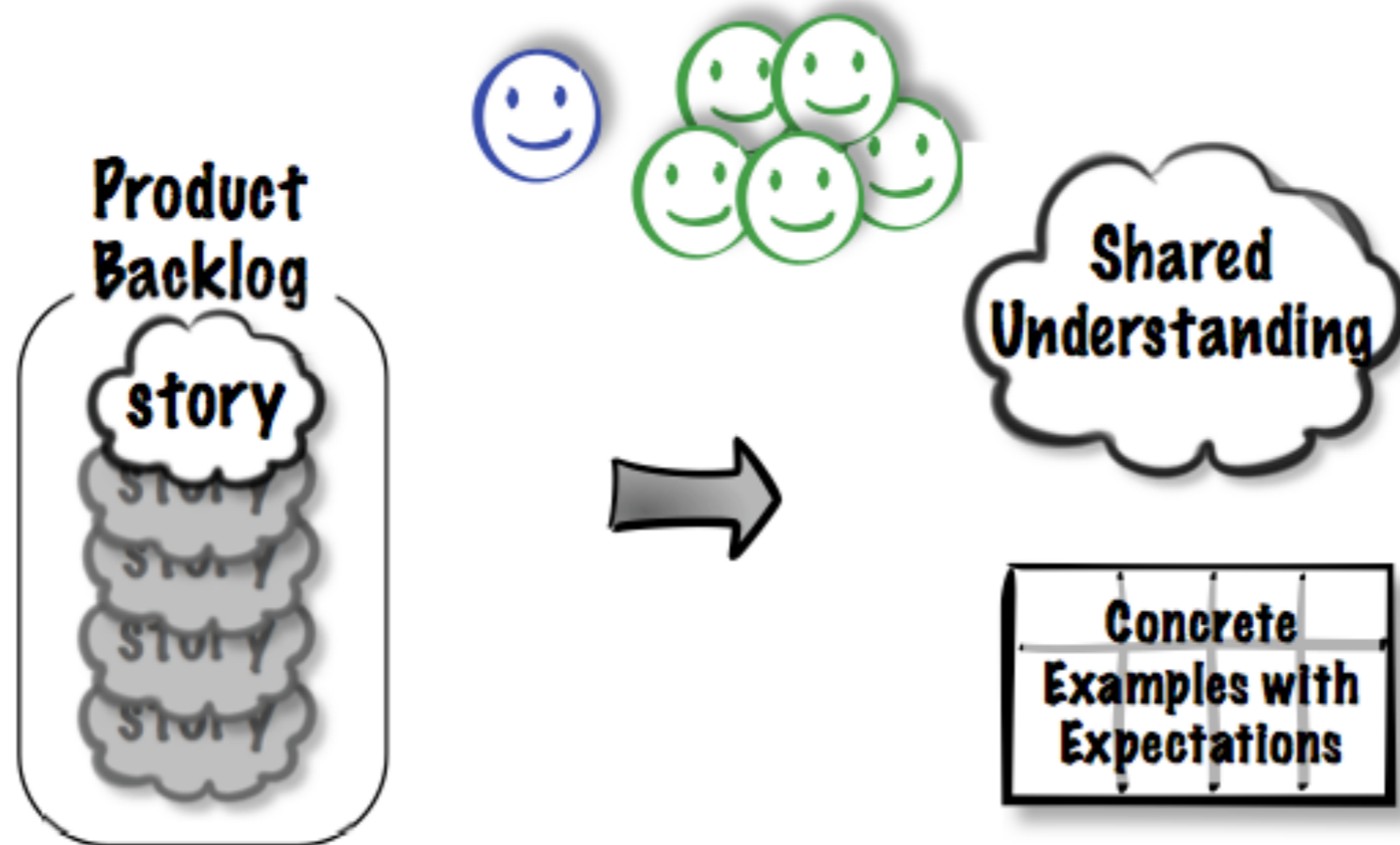


Image courtesy Elisabeth Hendrickson, www.qualitytree.com



ATDD: *develop*

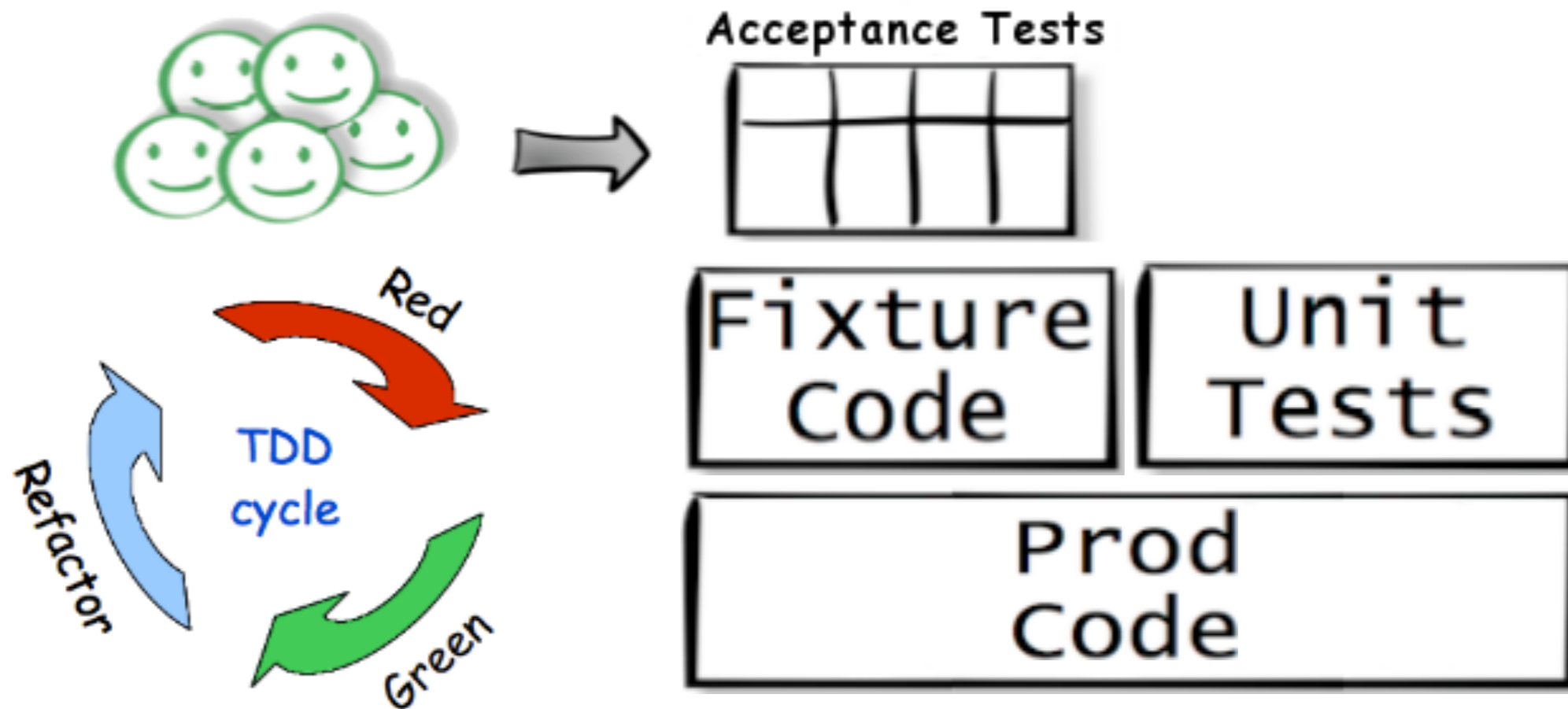


Image courtesy Elisabeth Hendrickson, www.qualitytree.com



ATDD: *deliver*

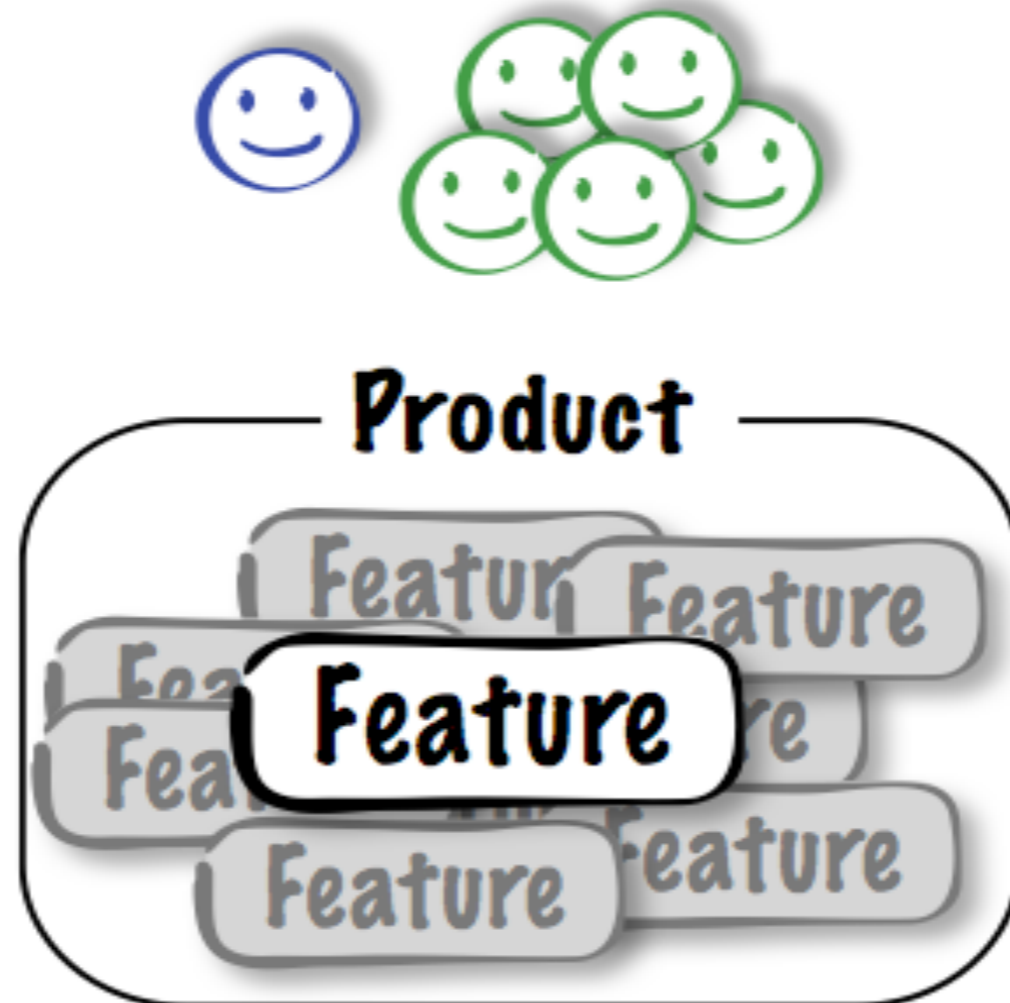
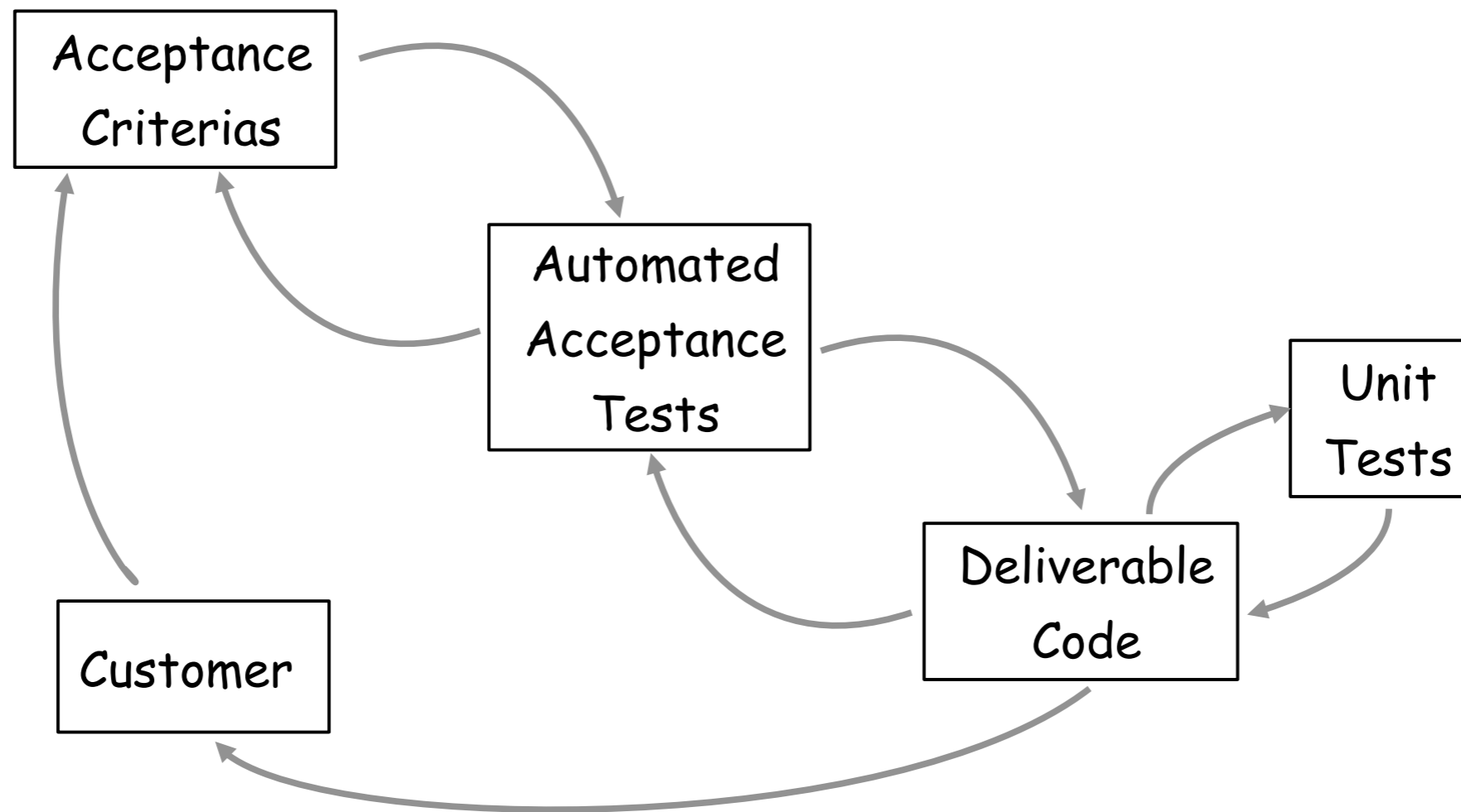


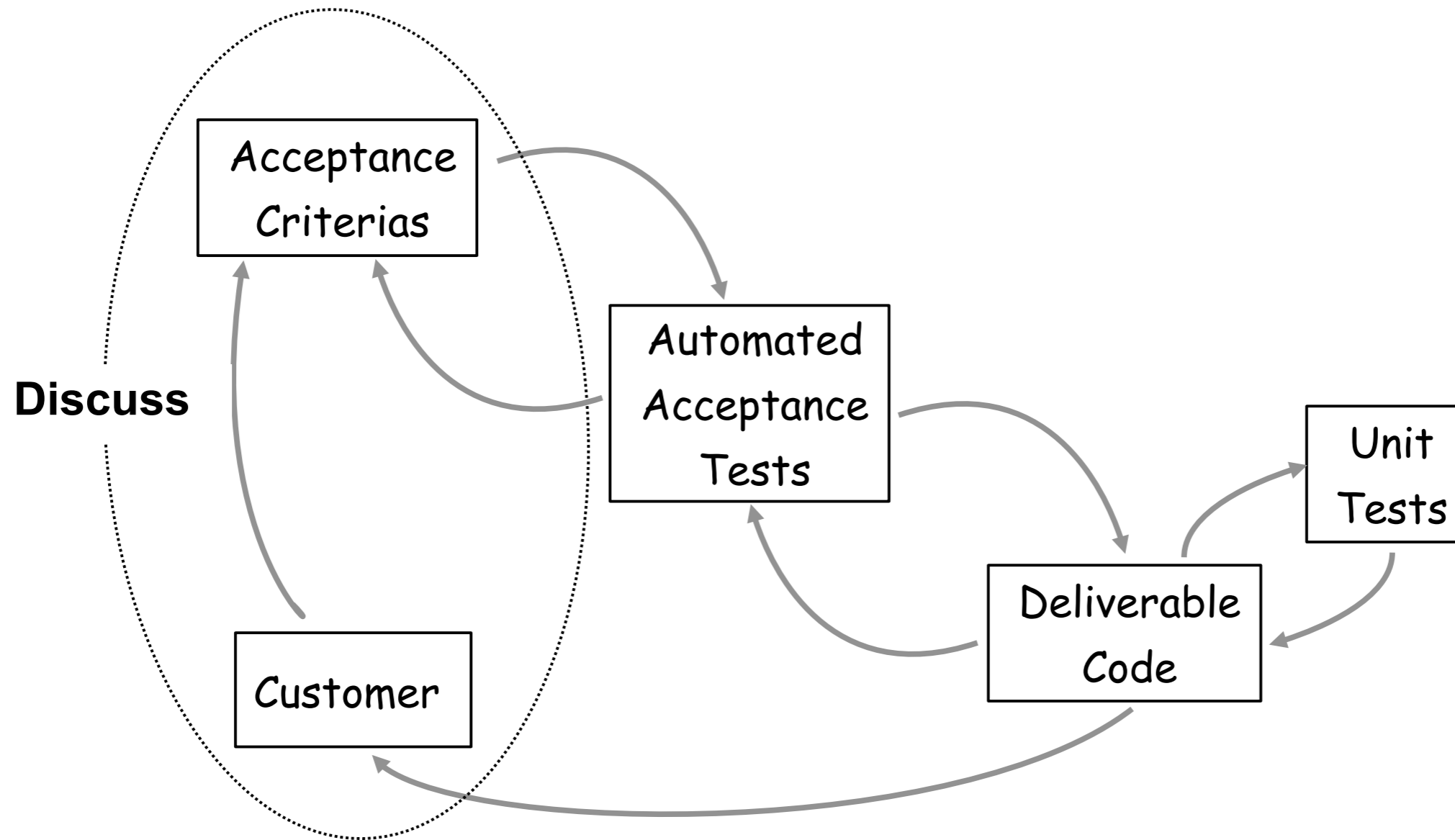
Image courtesy Elisabeth Hendrickson, www.qualitytree.com



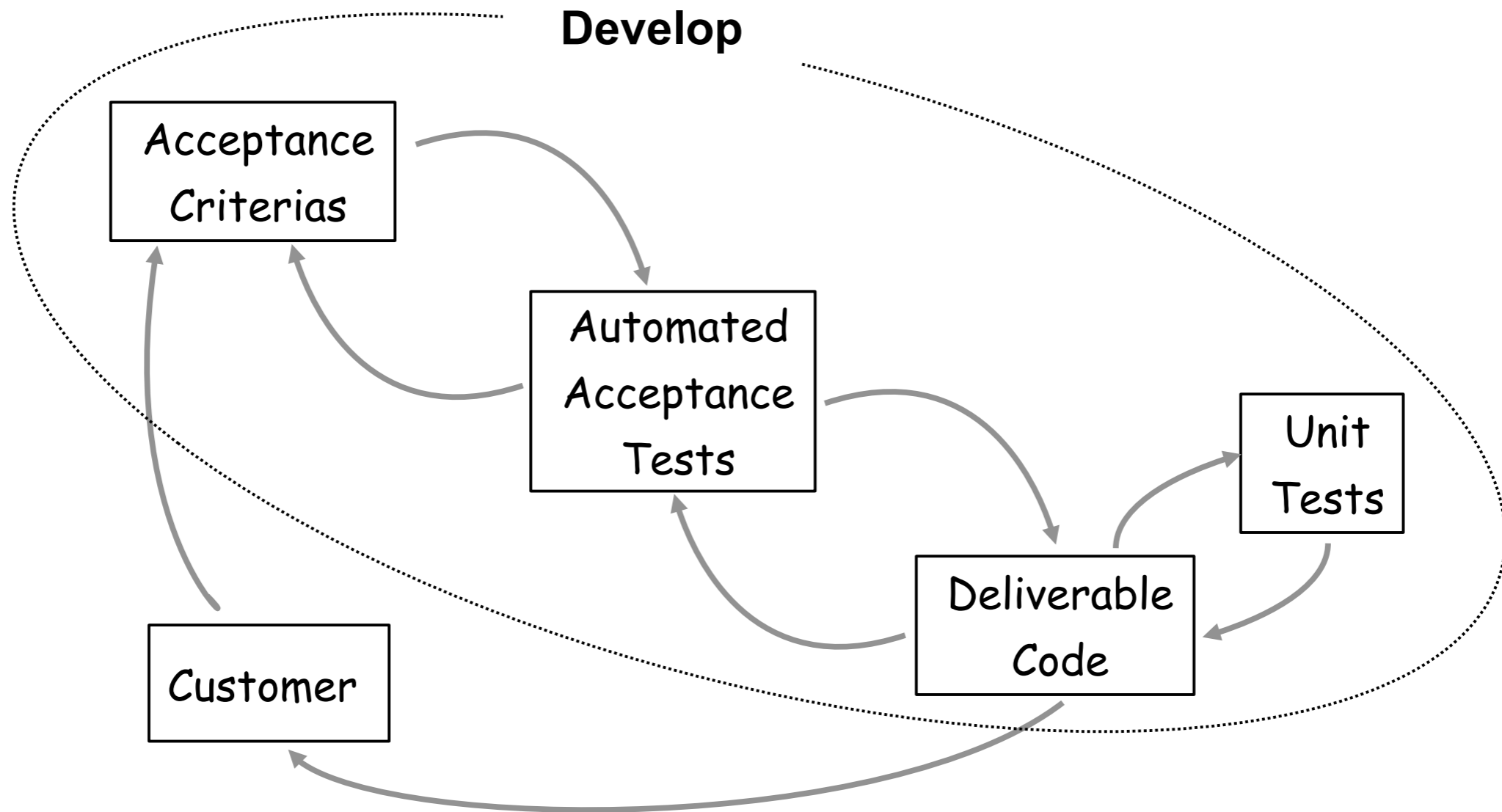
ATDD: *step-by-step*



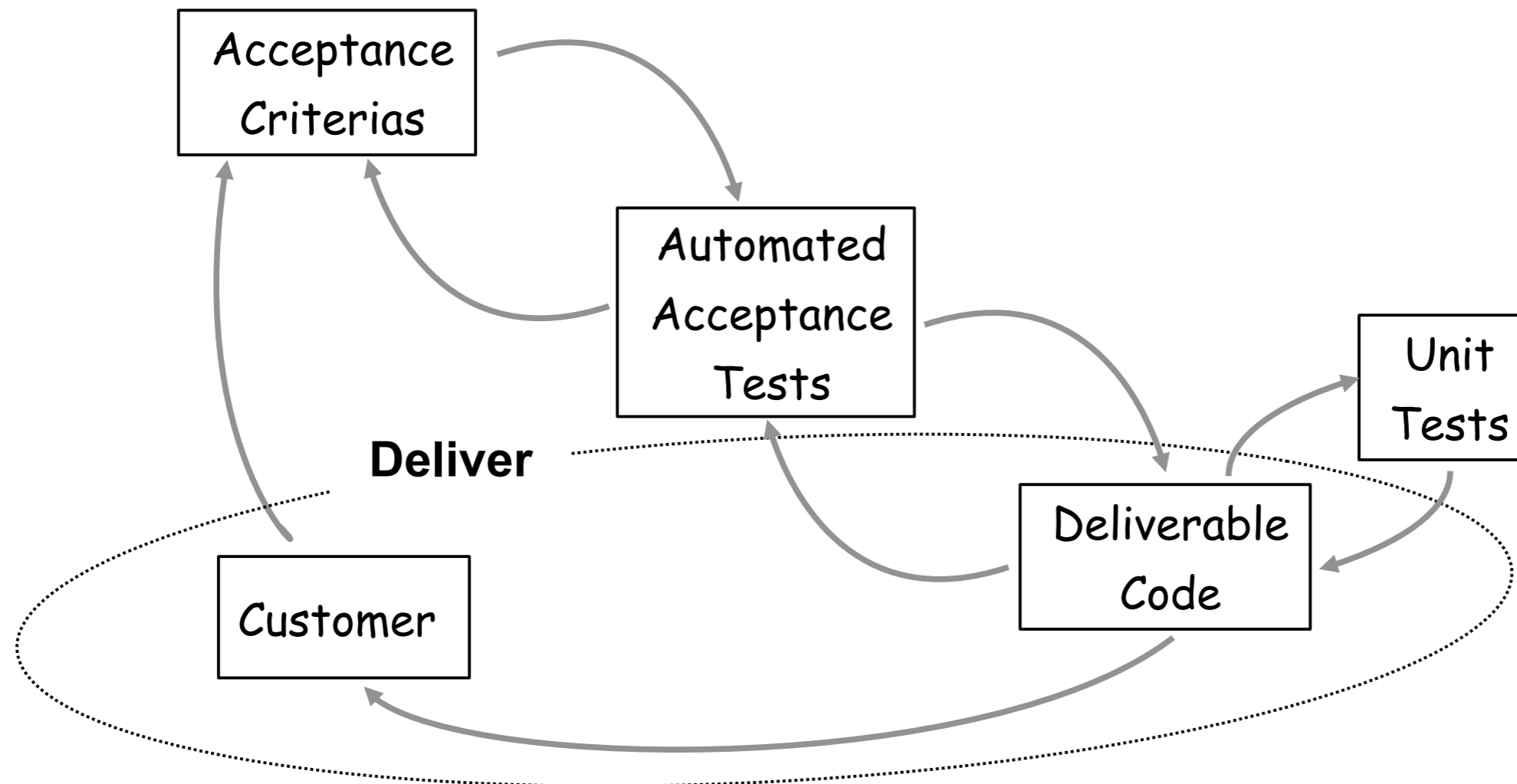
ATDD: *step-by-step*



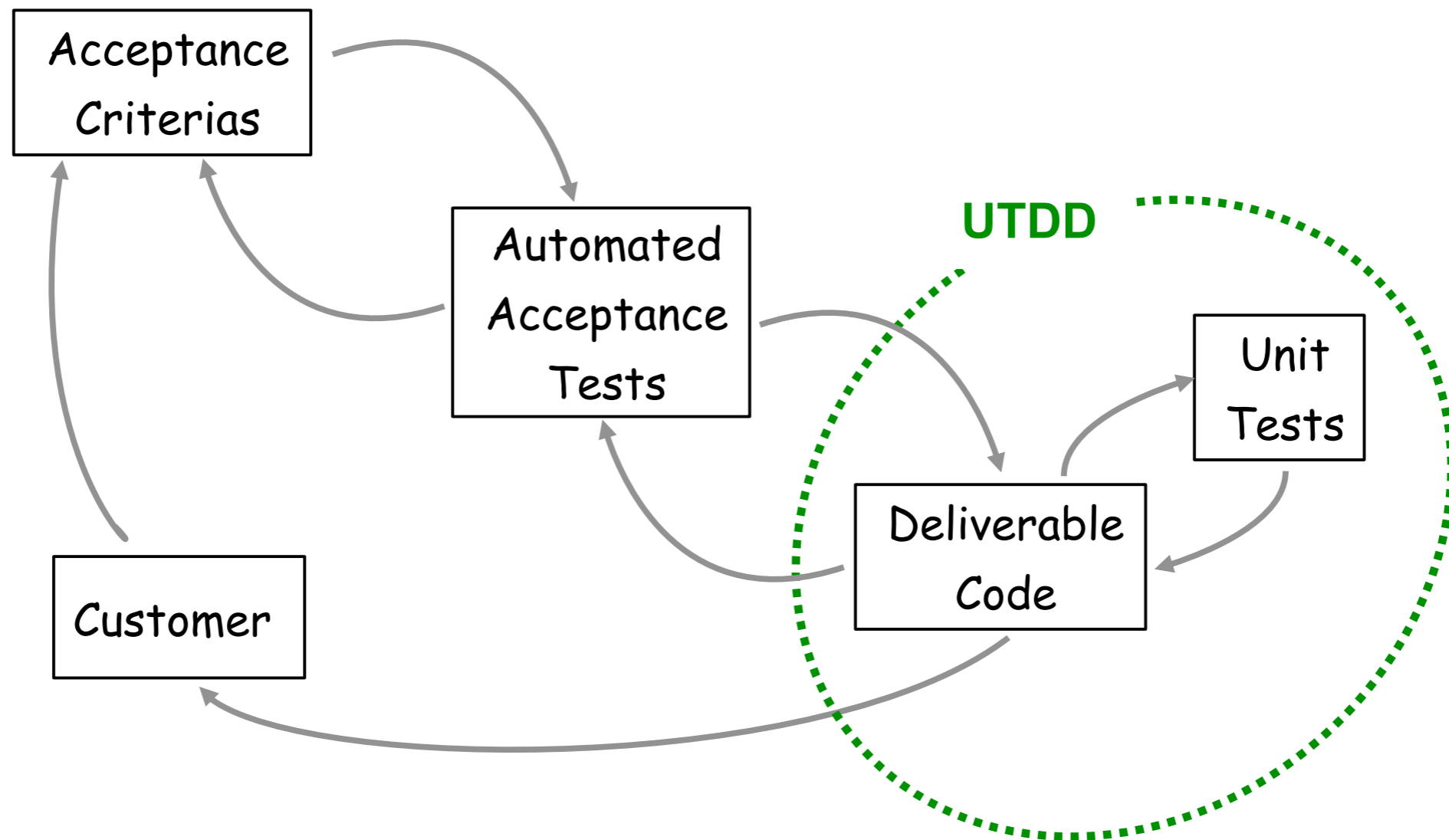
ATDD: *step-by-step*



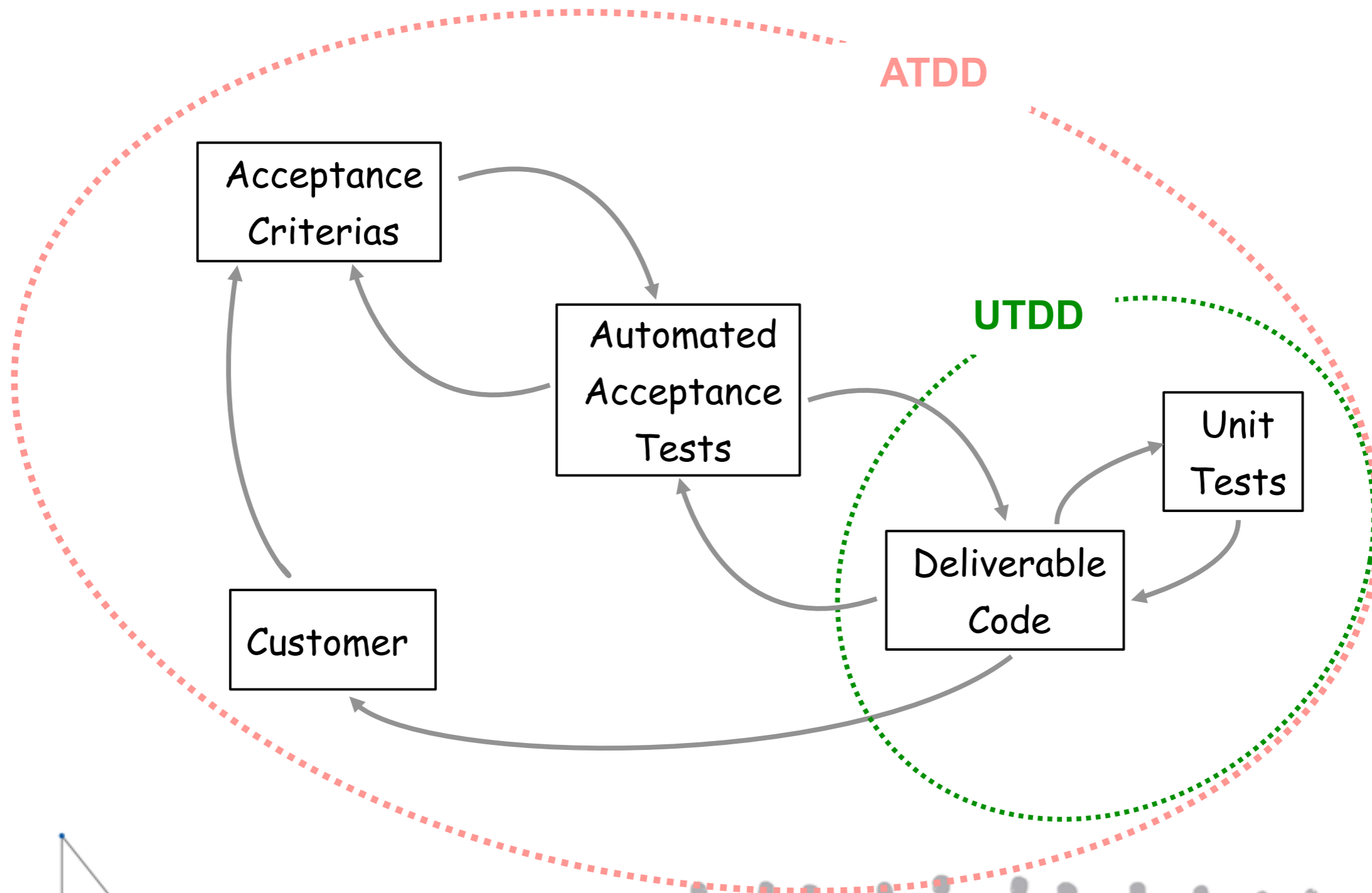
ATDD: *step-by-step*



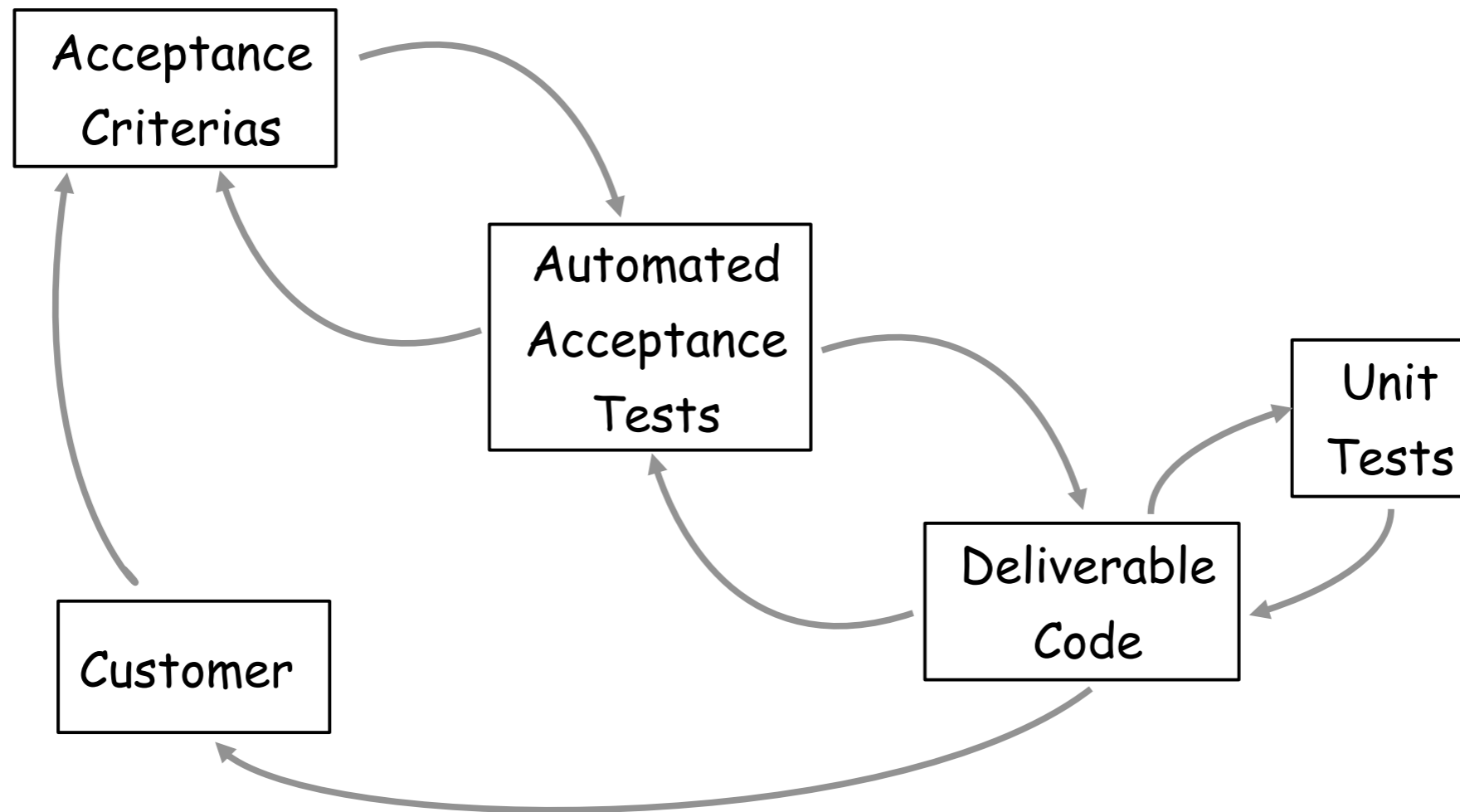
ATDD: *step-by-step*



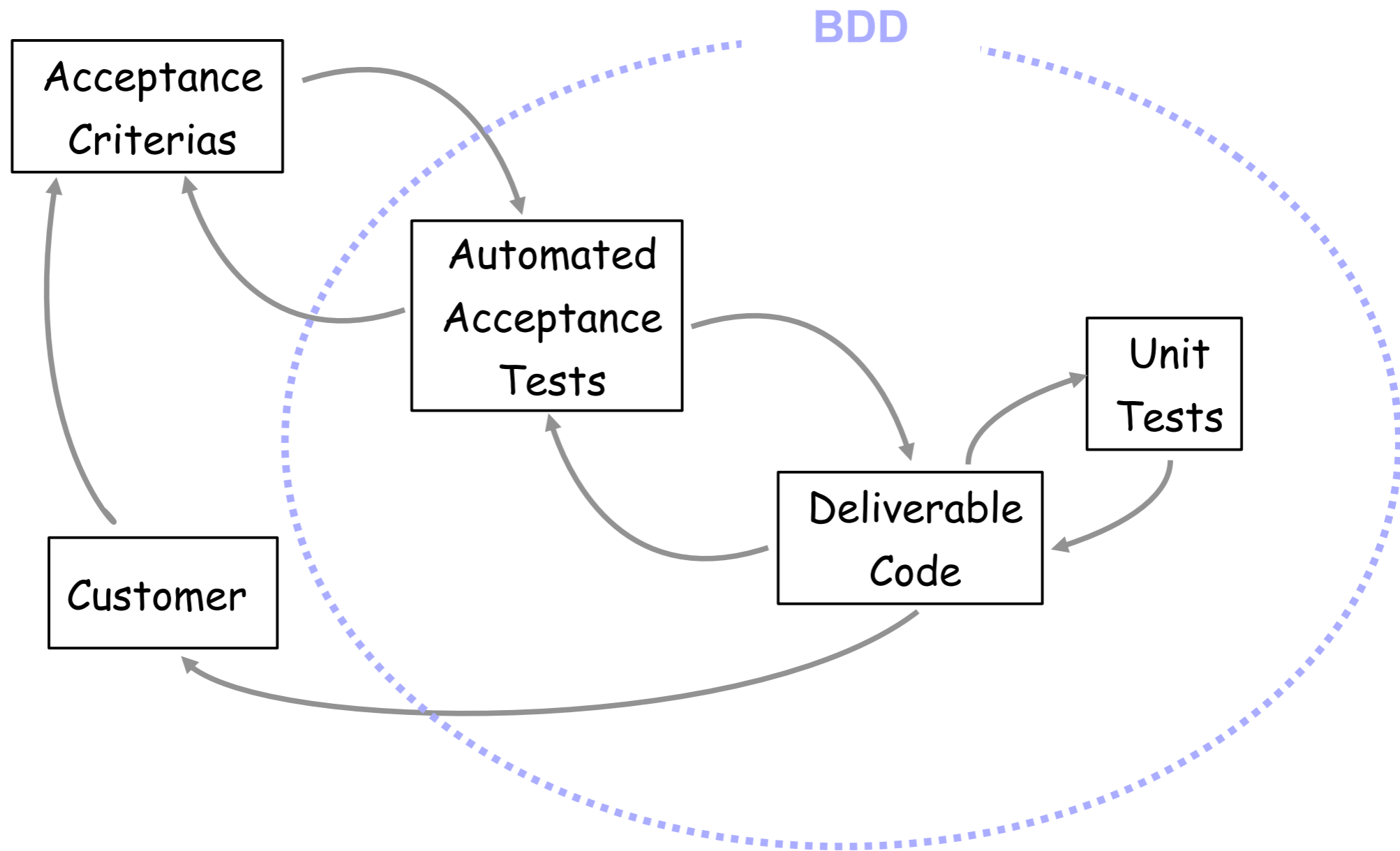
ATDD: *step-by-step*



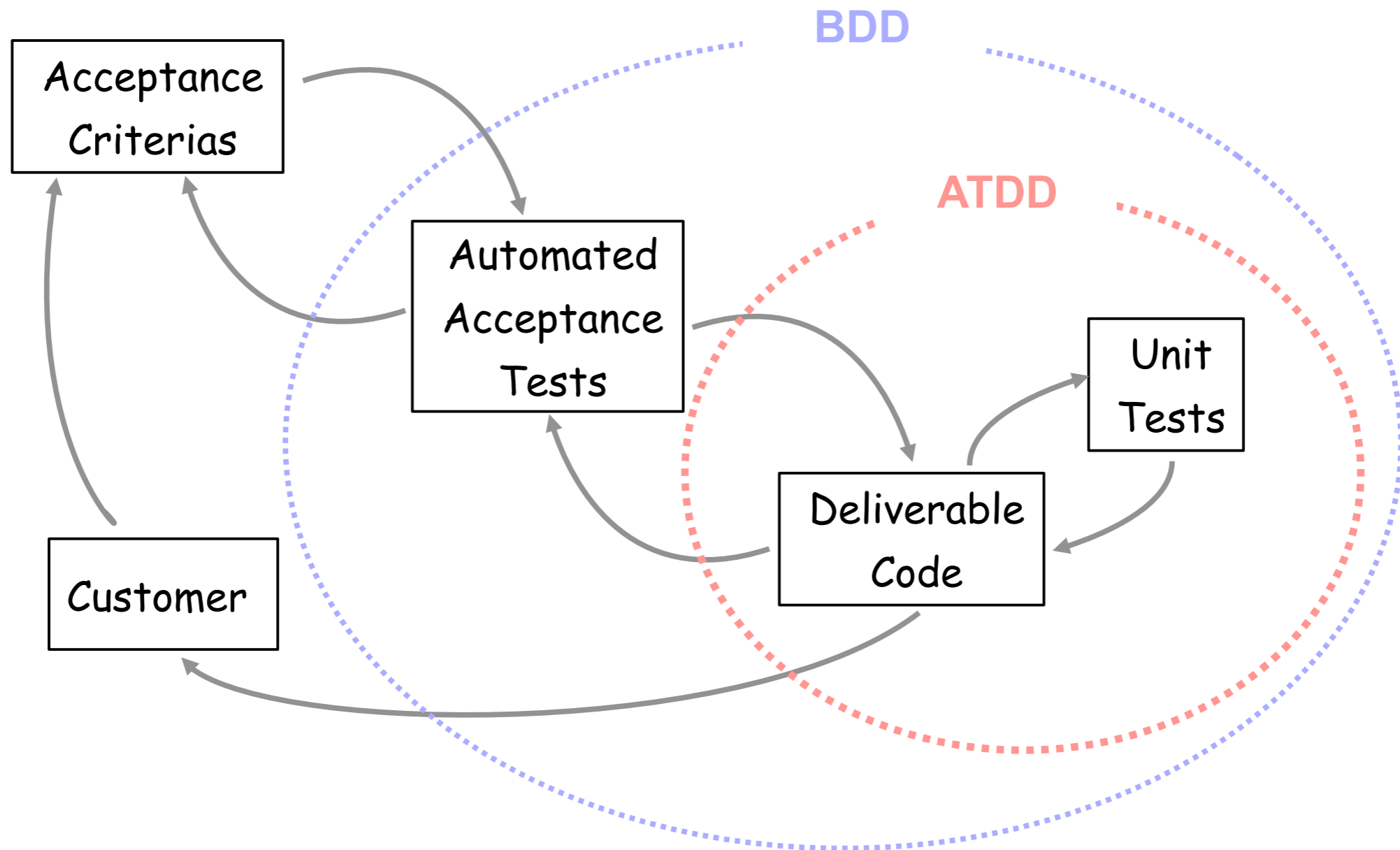
ATDD vs BDD: *developer role*



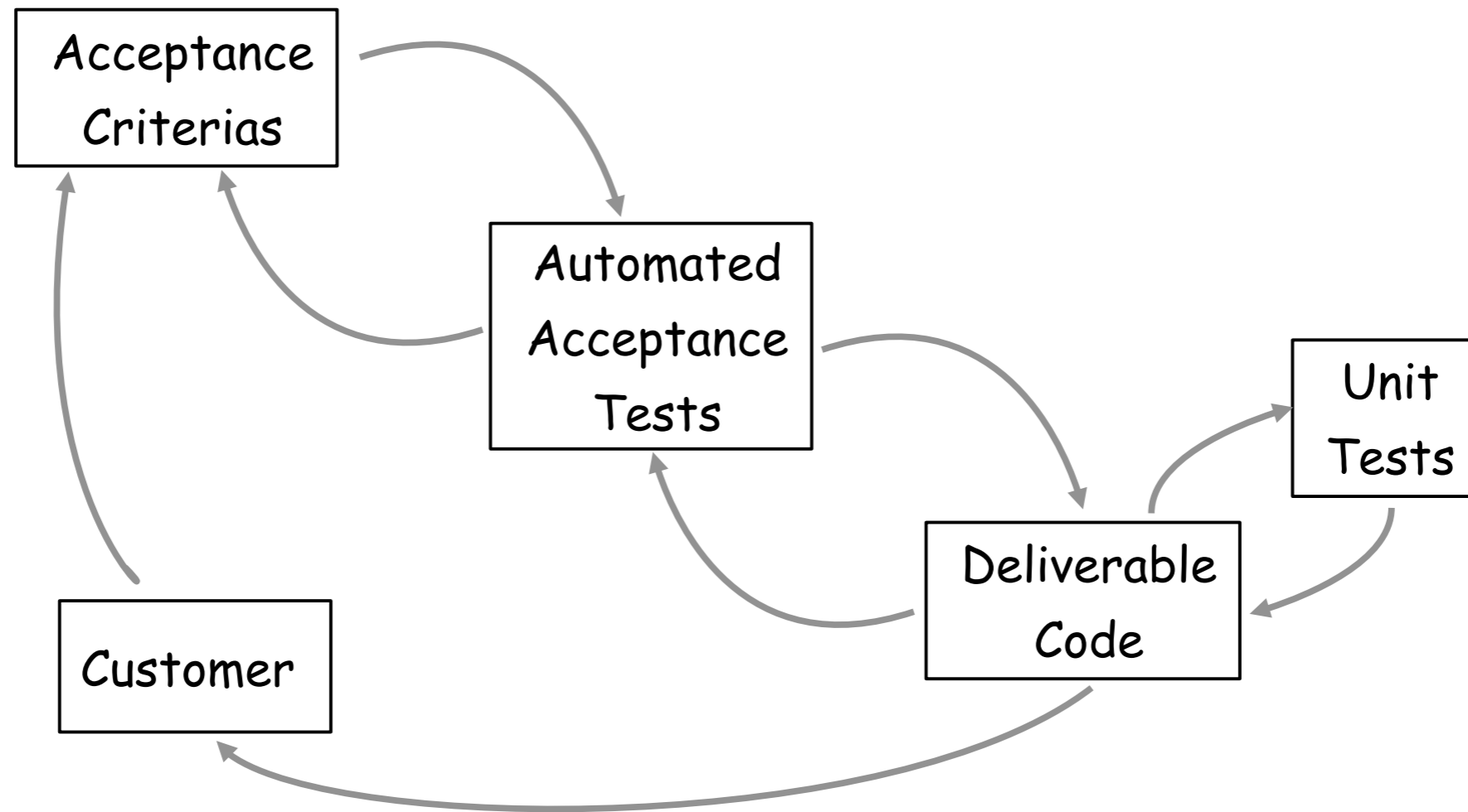
ATDD vs BDD: *developer role*



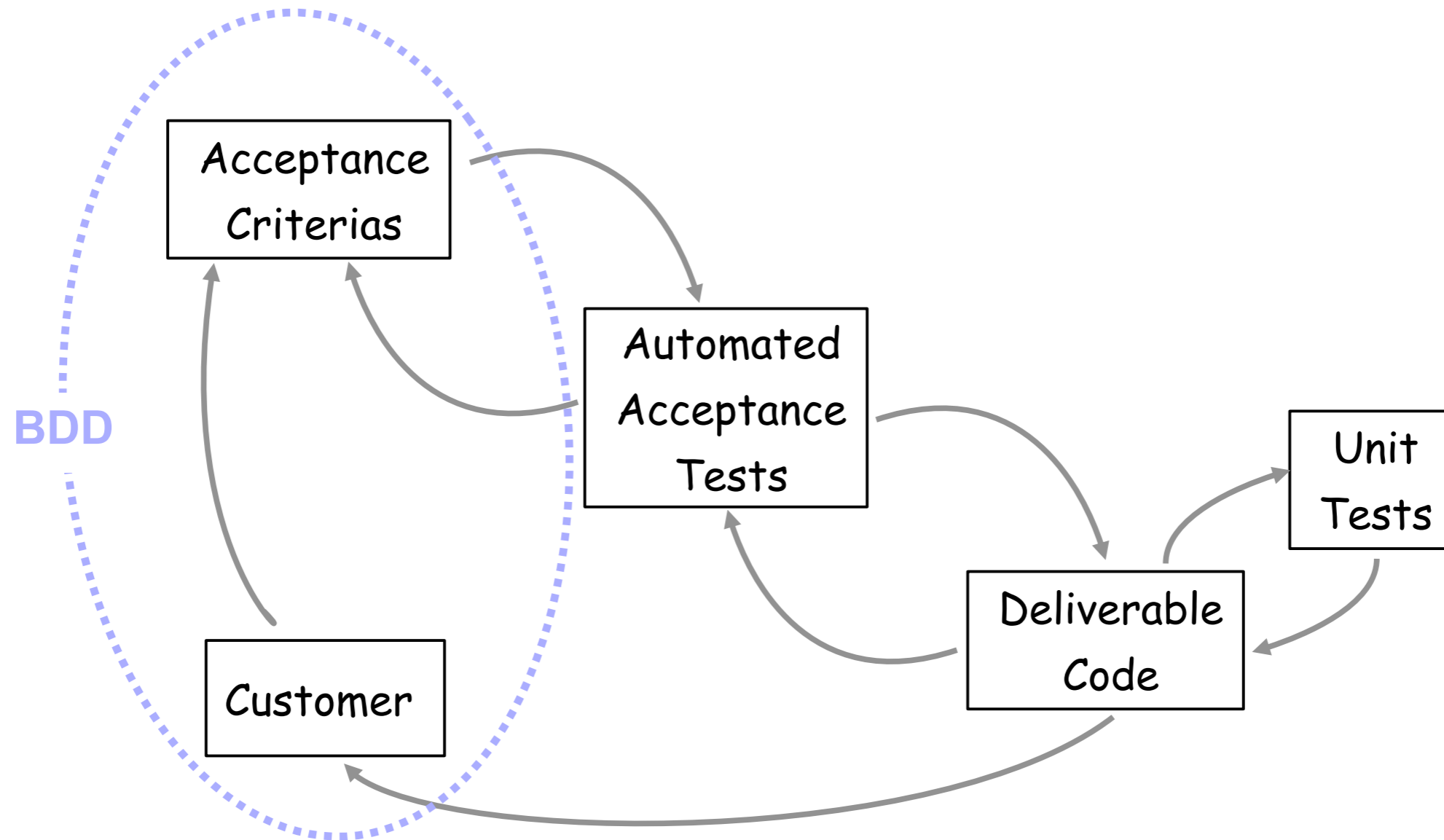
ATDD vs BDD: *developer role*



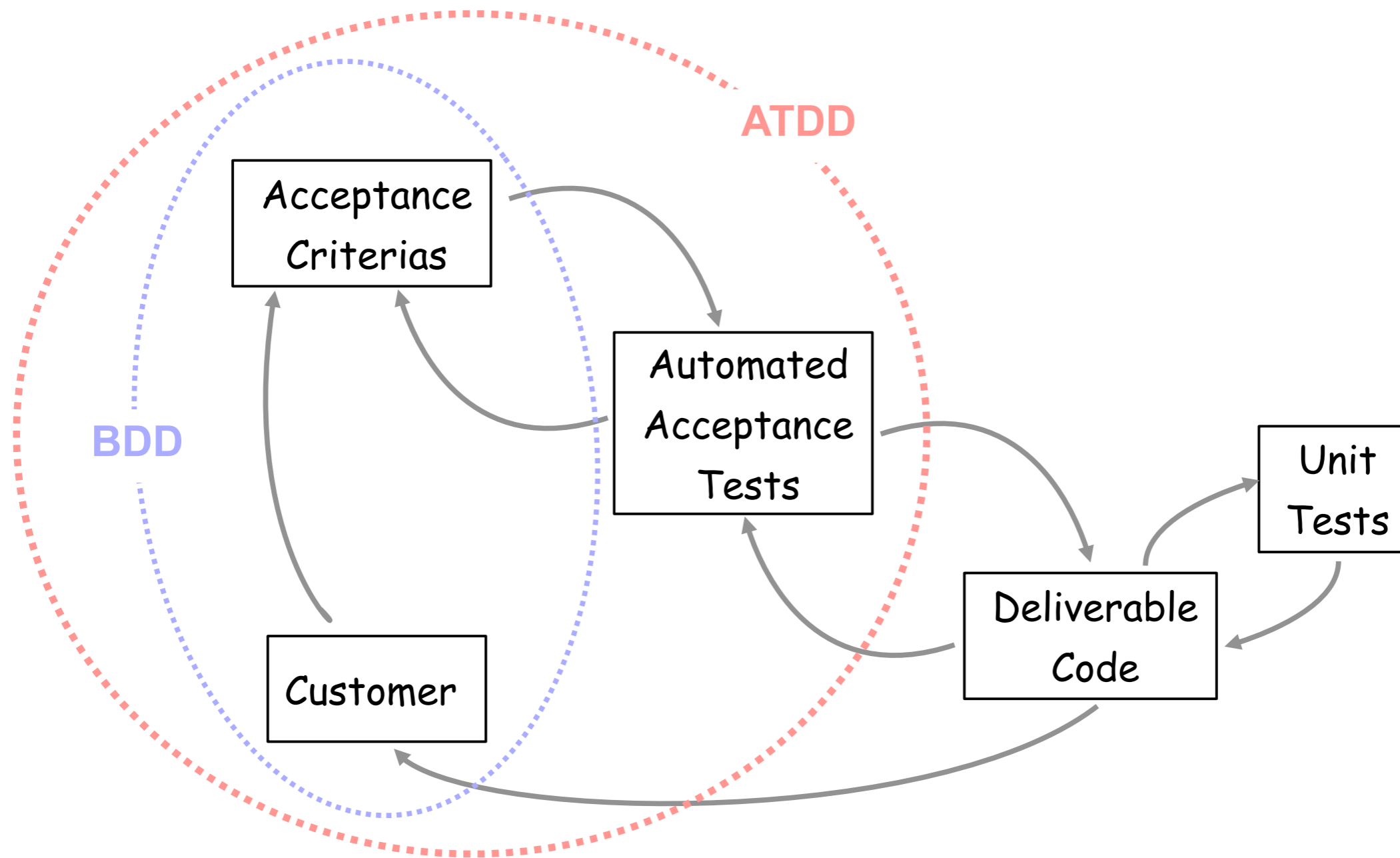
ATDD vs BDD: *tester role*



ATDD vs BDD: *tester role*



ATDD vs BDD: *tester role*



Why ATDD?

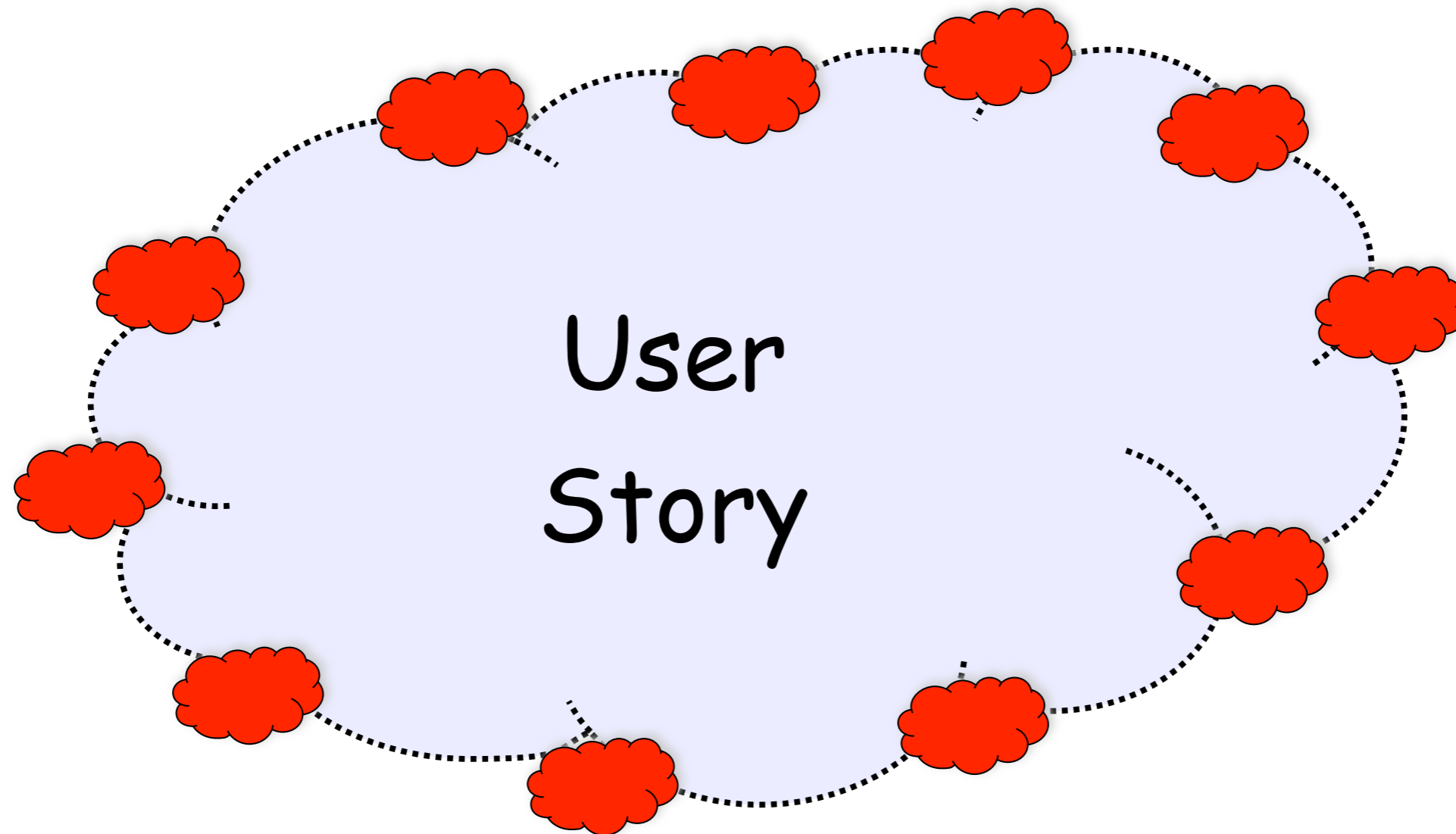
Reason #1:

Drive Out Ambiguity and Clarify Expectations



Acceptance Tests

Define Scope



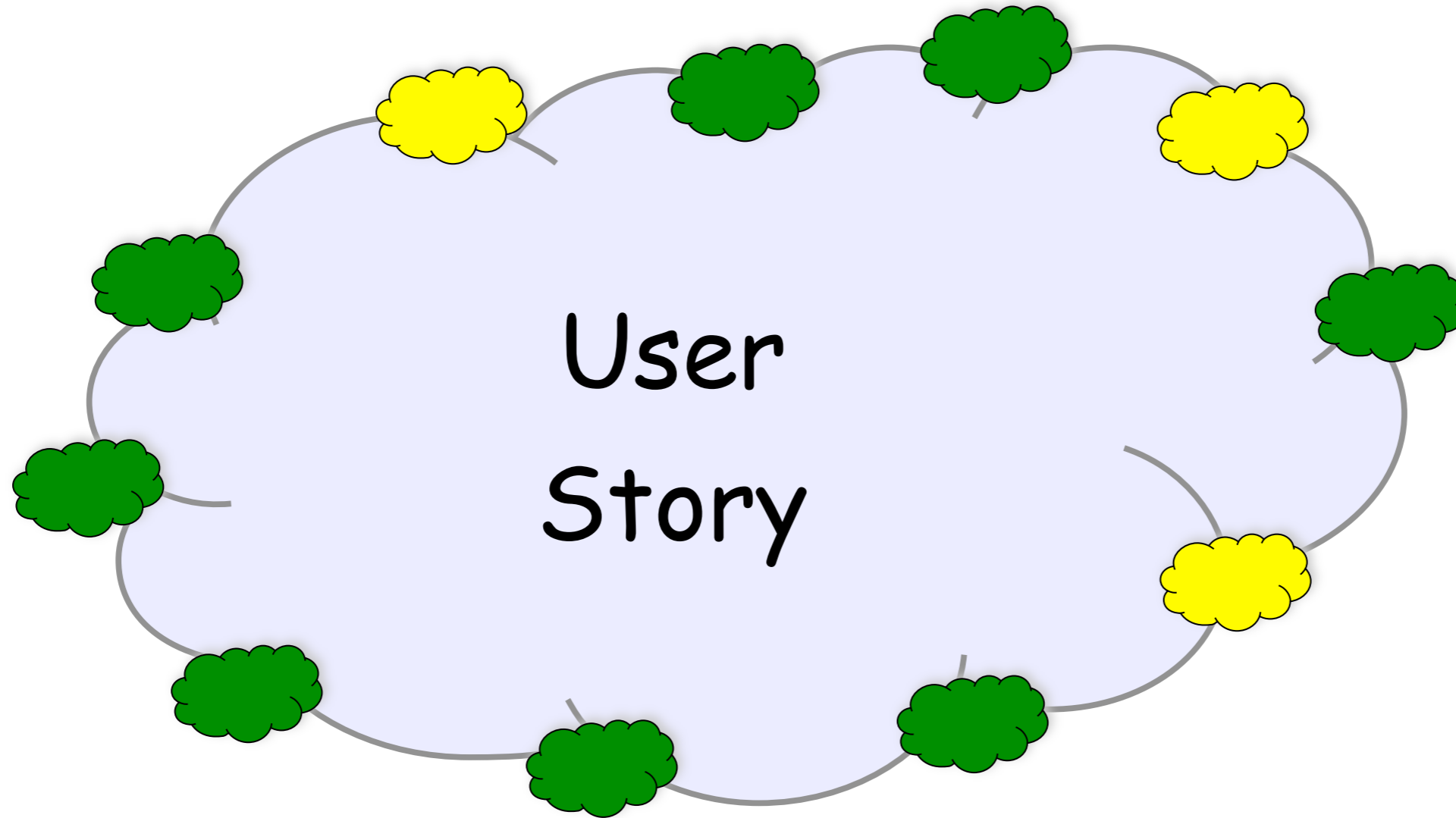
Why ATDD?

Reason #2:

Make Progress Visible



Has story been implemented yet?



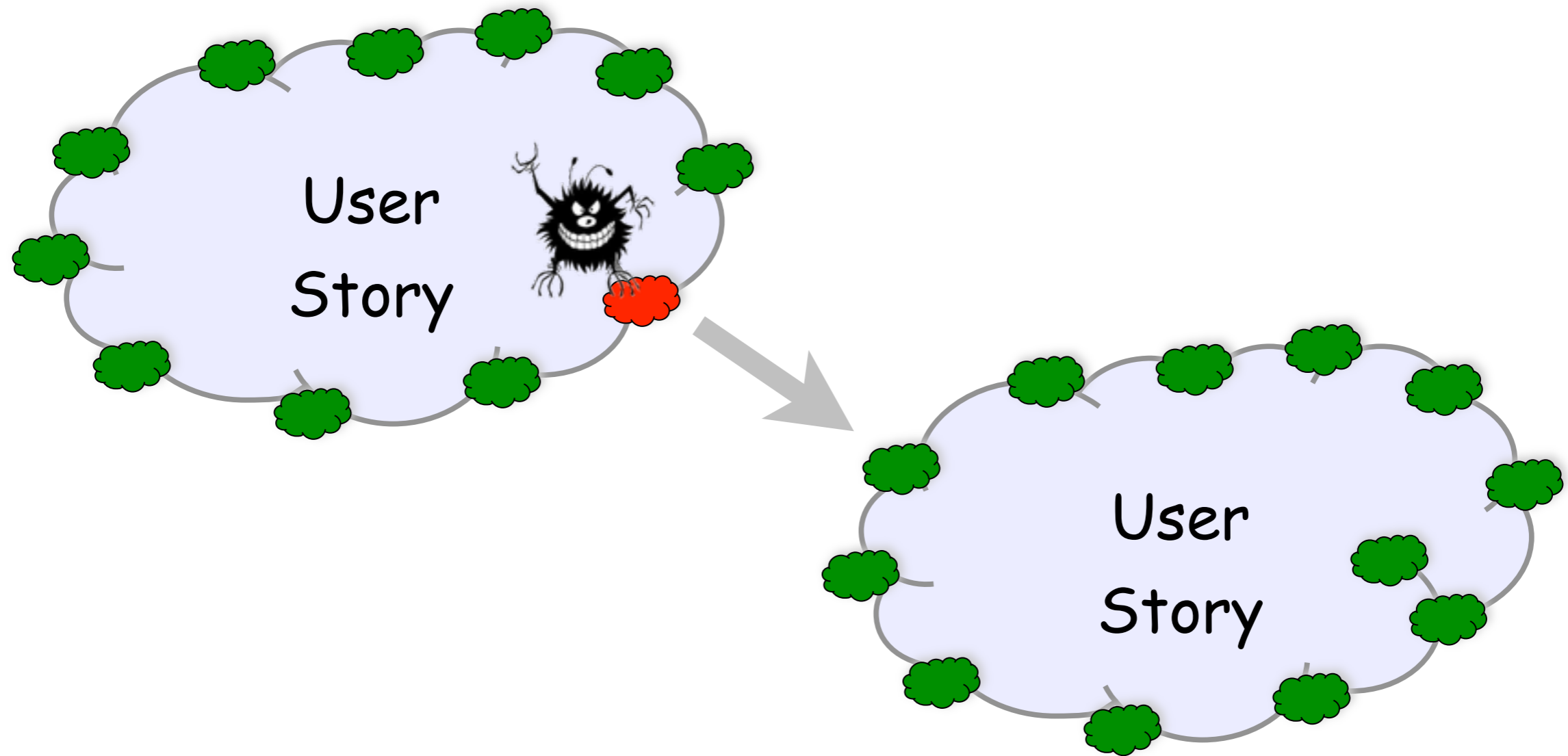
Why ATDD?

Reason #3:

No More Bugs...



Zero Tolerance for Bugs



Where does Acceptance Tests fit in?



Acceptance Tests should be part of your testing strategy

	Support	Critique
Business-facing		
Code-facing		

Matrix courtesy Elisabeth Hendrickson, www.qualitytree.com



Acceptance Tests should be part of your testing strategy

	Support	Critique
Business-facing		
Code-facing	Unit Tests	

Matrix courtesy Elisabeth Hendrickson, www.qualitytree.com



Acceptance Tests should be part of your testing strategy

	Support	Critique
Business-facing	Acceptance Tests	
Code-facing	Unit Tests	

Matrix courtesy Elisabeth Hendrickson, www.qualitytree.com



Acceptance Tests should be part of your testing strategy

	Support	Critique
Business-facing	Acceptance Tests	Exploratory Testing
Code-facing	Unit Tests	Reviews, inspections, pairing, code quality metrics

Matrix courtesy Elisabeth Hendrickson, www.qualitytree.com



Introducing an example

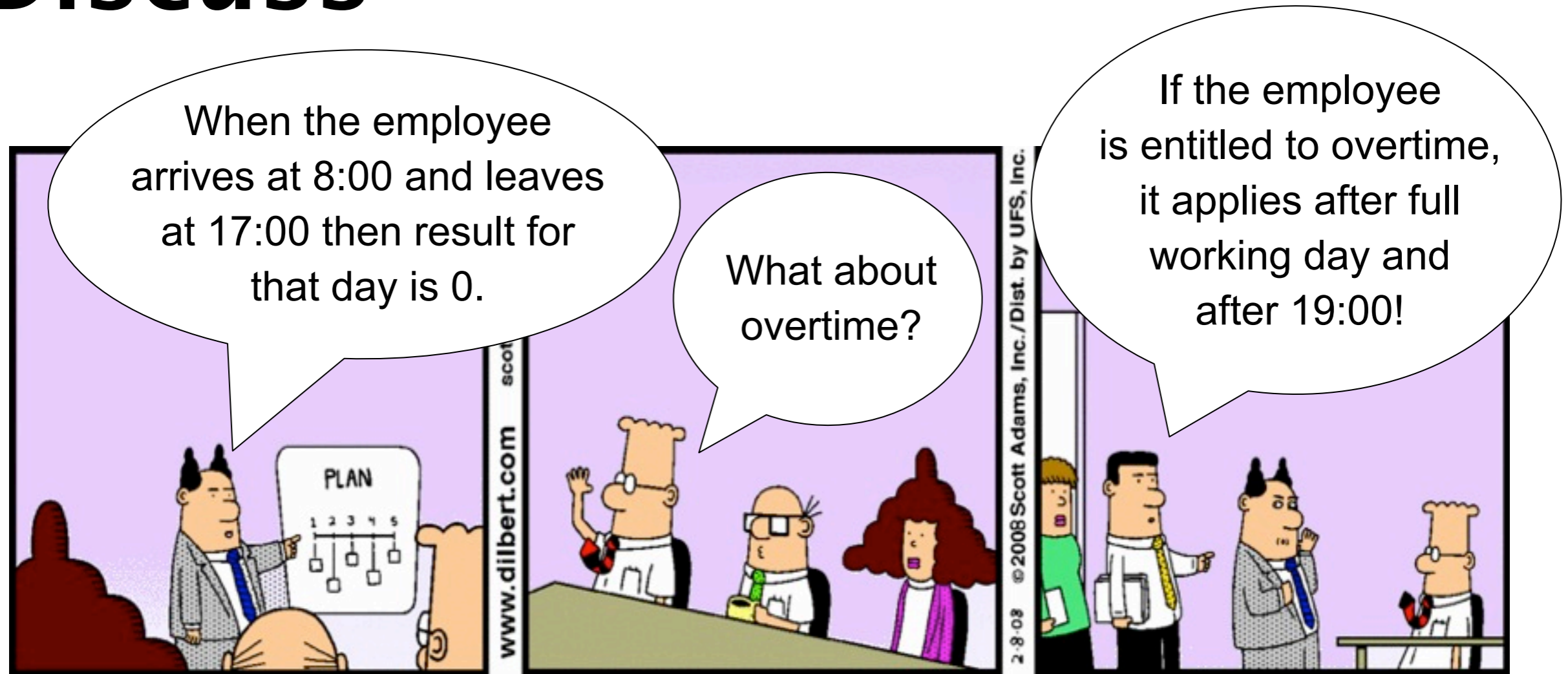


Start with a story

As a white-collar employee,
I want to record my working
time so that I get correctly
calculated salary.



Discuss



Who's in the room?

Product Owner, Business Expert, Testers, Developers and anyone else who will touch the story.



Capture expectations using examples

HasOvertime	ArriveAt	LeaveAt	Flex?	Overtime?
No	08:00	17:00	0	0.0
No	08:00	18:00	60	0.0
No	08:00	16:00	-60	0.0
Yes	09:00	19:01	60	0.5
Yes	09:00	19:30	60	1.0

Can be expressed in tables

Or other formats depending on the test framework



DEMO



What is FitNesse? It's a...

- × Software development collaboration tool
- × Software testing tool
- × Wiki
- × Web server



...and it's a...

Table-driven framework that uses a wiki for displaying and editing tests.

In FitNesse there are many types of tables to use, in the demo we will work with decision tables.



..and also a...


Tool for testing the business logic.

*It's **not** a tool for testing the user interface.*

FitNesse is not interested in making sure that the input boxes only accept digits, for example.





A cartoon illustration of a man with a large head, wearing a blue suit, white shirt, and blue tie. He has a speech bubble coming from his mouth. The background is a light blue gradient.

Move the
deadline up!

Kill all documentation!

Keep coding till the day of
release!

**This
is
not
Agile**

Thanks for listening!

Questions?

