Deep Agile:
November 23 - 24, 2013
Breaking down the silos

Creating a Culture of Quality
Cambridge, MA

Story Slicing and Collaborative Analysis

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Steve Vance
www.vance.com
Lisa Crispin
www.lisacripin.com
Ellen Gottesdiener
www.ebgconsulting.com
www.DiscoverToDeliver.com

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1

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discover   deliver

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"The most efficient and effective method of conveying info to and within the development team is face-to-face conversation…"

The Agile Manifesto

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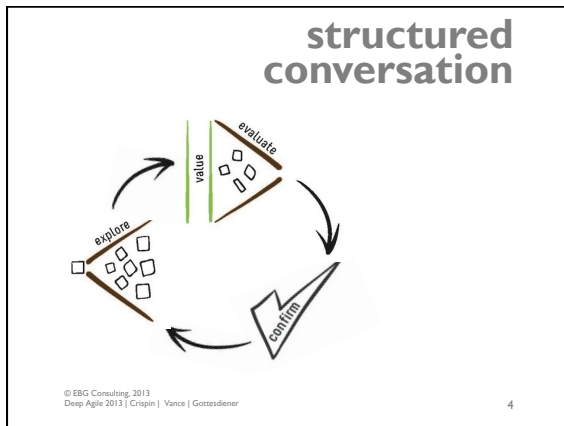Deep Agile 2013 | Crispin | Vance | Gottesdiener

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structured conversation

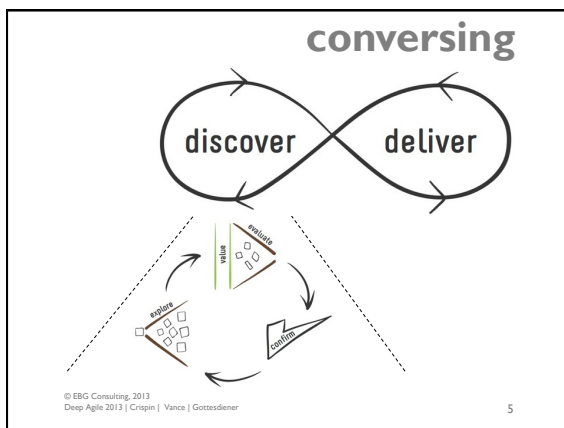© EBG Consulting, 2013
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conversing

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7 product dimensions

functional

| User | Interface | Action | Data | Control | Environment | Quality Attribute |

nonfunctional

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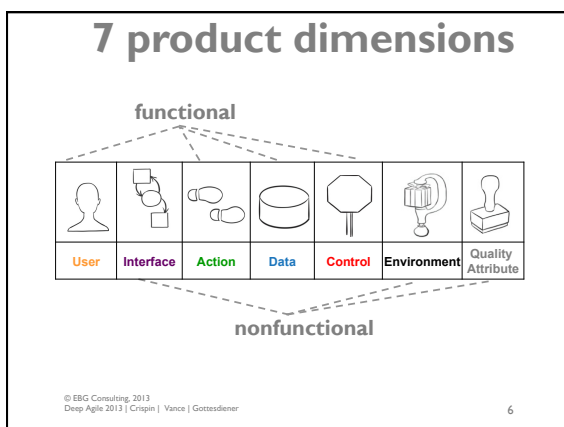
product options

alternatives, choices, possibilities…

*to achieve a goal or solve a problem
for its stakeholders.*

Adapted from: Gottesdiener, *Software Requirements Memory Jogger*

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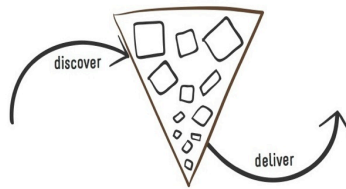Deep Agile 2013 | Crispin | Vance | Gottesdiener

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product backlog
un-validated options

discover

deliver

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explore each D

	User	Interface	Action	Data	Control	Environment	Quality Attribute
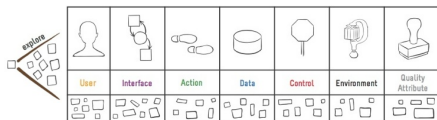
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evaluate each D

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confirm each D

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explore, evaluate, confirm w models

User	Interface	Action	Data	Control
persona user role map	context diagram prototype relationship map	business process diagram capability map dependency graph story, story map use case value stream map	data model state diagram	business policies, rules decision table, tree

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slice for value
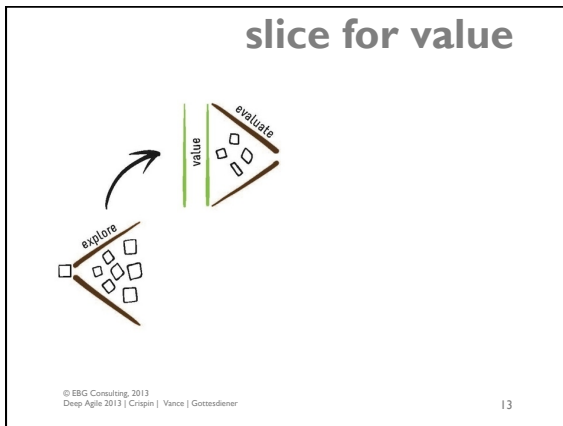
evaluate

value

explore

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together…

explore and evaluate

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slice for value

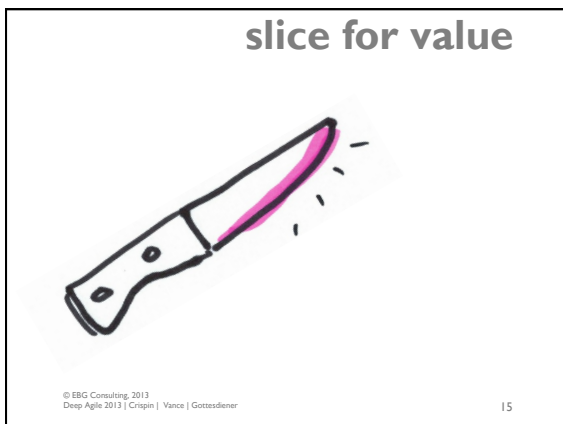© EBG Consulting, 2013
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As an attendee
I need to manage
my Agile 2014 registration
so ...

16

so far...

User

As a new attendee
I need to register
as an individual to get
the super early bird discount
so I can save money

Action

Data

Register online

Environment

17

your turn...
continue slicing

18

action

Action: *Register*	
Options	**Value**
enter personal information	
verify personal information	

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19

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business rules

BR-ID	Business Rule Options	Value
BR-01	*The Super Early Bird discounted registration fee is limited to the first 200 individual registrations*	
BR-02	*A Super Early Bird registration must be submitted on or before the specified deadline date*	
BR-03	*Payment must be secured by conference bureau by the Super Early Bird deadline date in order to qualify for the discounted registration fee*	

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quality attribute
a sampling…

Quality Attribute Options		Value
Availability	*Registration up time*	
Interoperability	*With credit bureau systems*	
Performance	*Completing a registration*	
Reliability	*Probability of failure*	
Security	*Customer and payment data*	
Usability	*Customers, Sales Staff*	

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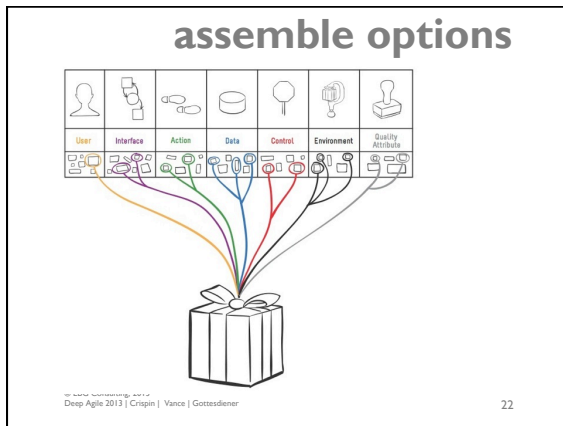Deep Agile 2013 | Crispin | Vance | Gottesdiener

21

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assemble options

steel rod

Smallest possible combination of options that delivers value, core functionality

User	Interface	Action	Data	Control	Environment	Quality Attribute

state, role   type, state

7Ds

As a *new attendee*
I need to *register*
as an *individual* to get
the *super early bird discount*
so I can save money

back of card
Verify *availability*
    BR-01: Super Early Bird.. limited…
Verify *submission date*
    BR-02: Super Early Bird… must be
        submitted on…
Receipt printed from screen
Register online
Completed in xx secs

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rod & threads

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threads

As a *new attendee*
I need to *register*
  with my group
so it is convenient to pay

As an *alumni of the conference*
I need to *register*
so I save time entering data.

As a *registerer*
I need to *print my receipt*
so I can have a record of my payment.

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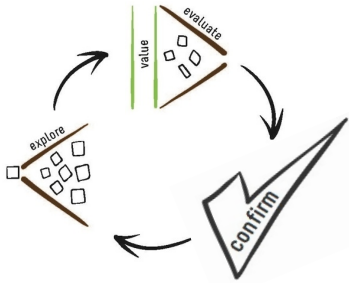Deep Agile 2013 | Crispin | Vance | Gottesdiener
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structured conversation

evaluate
value
explore
confirm

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confirm to learn
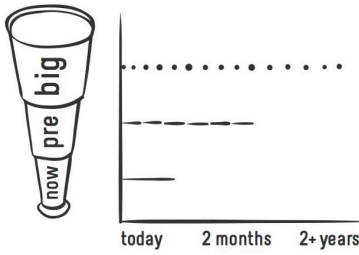
28

views

today   2 months   2+ years

29

scenario z pattern

feature, epic — scenario 1 / scenario 2 / scenario 3

MMF, story — scenario 4 / scenario 5

story — scenario 6 / scenario 7

test
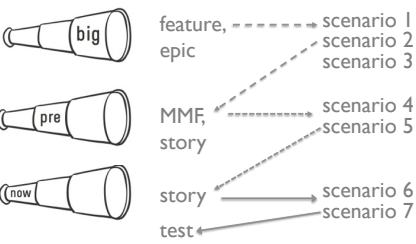
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functional scenario

Describes instance of use

May be specific to
  User (state and role)
  Actions
  Data (type and state)
  Business rules

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31

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functional scenarios

As a new attendee
I need to register
as an individual to get
the super early bird discount
paying by credit card

BR-01 *The Super Early Bird discounted registration fee is limited to the first 200 individual registrations*

Scenarios
  Discounted fee is available
  Discounted fee is sold out

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your turn…
scenarios

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functional testing

story +

    scenario +

        business rule

↓

test

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**pattern:
one clear purpose**

"Express tests and examples focused
on a single clear purpose …
derived from one BR

…

for each BR create at least one test

…

base single test on BR, but no more…"

Markus Gaertner's ATDD Pattern
publicly available on the Europlop site
Agile Alliance Functional Testing Tools (AAFTT)
Pattern Writing Workshop 1st October 2010

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35

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given-when-then

	Story
	Scenario
	business rule(s)
context of system	Given
	pre-condition(s), state
	fixed data
what will be tested	When
	action
	input data
result	Then
	observable outcome: message, output data
	post-condition, state

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given-when-then

Story	As an *new attendee* I need to register
Scenario	*Discounted fee is sold out*
business rule(s)	*BR-01 The Super Early Bird discounted registration fee is limited to the first 200 individual registrations*
Given	
pre-condition(s), state	*n/a*
fixed data	*number of Super Early Bird registrations: 200*
When	
action	*Verify availability of discounted registration fee*
input data	*number of registrations: 1*
Then	
observable outcome: message, output data	*The Super Early Bird discounted registration fee is sold out*
post-condition, state	*n/a*

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your turn…
confirming

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given-when-then

Story	As an *attendee* I need to *cancel* my registration
Scenario	*Successful cancellation*
business rule(s)	*BR-56 Cancellation must be requested before 23 August in order to receive full refund*
Given	
pre-condition(s), state	
fixed data	
When	
action	*Verify cancellation date*
input data	
Then	
observable outcome: message, output data	
post-condition, state	

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nonfunctional testing

story +
    scenario +
        interface,
      environment,
        QA
      ↓
      test

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40

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planguage*

Gist	Brief description summarizing requirement
Scale	Unit of measure used to quantify the statement
Meter	Process or device used to establish location of scale
Benchmark	Point of reference; standard used to measure results
Minimum	Lowest possible level that must be achieved
Plan	Level at which good success can be claimed
Wish	Desirable level, may not be attainable through available means

*Adapted from: Tom Gilb

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together…
confirming

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planguage*

Gist	Response Time to confirm registration
Scale	seconds
Meter	elapsed time between pressing 'enter' to confirm registration details and beginning of display of confirmation
Benchmark	
Minimum	
Plan	
Wish	

*Adapted from: Tom Gilb

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43

story ◄------------► tests

As a *new attendee*
I need to *register*
as an *individual* to get
the *super early bird discount*
so I can save money

back of card
Verify availability
  BR-01: Super Early Bird.. limited...
Verify submission date
  BR-02: Super Early Bird... must be submitted on...
Receipt printed from screen
Register online
Completed in xx secs

functional
GWT

+

nonfunctional
planguage

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collapse V&V

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45

Options Board Kit

Discover To Deliver™
7 Product Dimensions
Options Board

value
customer   business   technology

<<<<<<<<<<<<<<< white board or poster paper >>>

Download Kit at http://www.discovertodeliver.com/visual-language.php

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your turn…
one word/phrase

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47

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48

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email ellen@ebgconsulting.com

twitter @ellengott

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As an attendee
I need to manage
my Agile 2014 registration
so ...

Options Board
Action – Environment – Data - User

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50

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action

ellen

Action Options	Value
register to attend	☆
cancel my registration	
transfer my registration to another person	
change my registration	
select tutorials and classes	

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51

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environment

ellen

Users	Location Options	Value
Attendee	Online	⭐
Conference staff	Online	⭐
	Office	

52

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data model- start with
conference-registration

ellen

data type

Add subtypes to registration
Add entity: Discount (rel to Conf), add types
Add entity: Payment (rel to registration), add types

Data: *Registration Type*	
Type Options	**Value**
group	
individual	⭐

Data: *Payment Type*	
Type Options	**Value**
credit card	⭐
purchase order	
pay pal	
electronic funds transfer	

Data: *Discount Type*	
Type Options	**Value**
early bird	
super early bird	⭐
agile alliance member	
government	

53

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user

ellen

User: *Attendee*	
State Options	**Value**
new	⭐
alumni	

54

55

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business rules

BR-ID	Business Rule Options	Value
BR-01	The Super Early Bird discounted registration fee is limited to the first 200 individual registrations	
BR-02	A Super Early Bird registration must be submitted on or before the specified deadline date	
BR-03	Payment must be secured by conference bureau by the Super Early Bird deadline date in order to qualify for the discounted registration fee	

56

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interface

ellen

draw context diagram

Conference registration bubble
external entities:
    attendee w interfaces submission, receipt
    credit bureau

Interface Name: *Receipt*	
Options	**Value**
email	
print from screen	★
download as pdf	

57

Not used

58

"ready" checklist

7 Product Dimensions

scenarios

Ux wireframes

x… analysis models
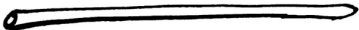
x… documentation

acceptance criteria via ….

59

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this slide or the next one?

steel rod

Smallest possible combination of options that delivers value

Core functionality, minimal:

User (state and role)

Interfaces

Actions

Data (type and state)

Business rules

Environment

Quality attributes

60