Introduction to Agile


advanced product delivery
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Has this happened to your project?
Insanity: doing the same thing over and over again and expecting different results.  
Albert Einstein
Process Complexity

Far from Agreement

Requirements

Close to Agreement

Simple

Complicated

Complex

Far from Certain

Technology

Emergent Understanding

Anarchy
A different (scientific) approach

• Iterative
• Incremental
• Fast Feedback
• Frequent checks with the consumer (user)
• Focus on solving the problem, not documenting it
Agility

Definition of agile adjective
• able to move quickly and easily
adverb
• agility
from Latin agilis - 'do'

Quickly and deliberately respond to change while managing risk

“Do, or do not ... there is no try”

Yoda
What is important?
Agile is a mindset
The CHAOS Manifesto (2015)

Waterfall

- Successful: 60%
- Challenged: 29%
- Failed: 11%

Agile

- Successful: [VALUE]
- Challenged: 52%
- Failed: 39%

Agile Frameworks share 3 pillars

- Transparency
- Inspection
- Adaptation
Act on the Feedback

• Measure
• Understand
• Act
Continuous Improvement
Lean Principles

- Customer Value
- Respect and engage the people
- Improve Flow
- Eliminate waste
- Pull not Push
- Continuous Improvement
- See the whole
Agile Manifesto...

... we have come to value:

- **Individuals and interactions** over processes and tools
- **Working software** over comprehensive documentation
- **Customer collaboration** over contract negotiation
- **Responding to change** over following a plan

Frameworks Overview

Plan Driven
Predictive
Prince 2
PMBOK
CMMI

Iterative

Value Driven
Empirical
Scrum
XP
Kanban
Range of Agile Frameworks

Prescriptive

RUP 120+
DSDM 12
XP 11
Scrum 11
Kanban 3
None 0

Subtractive

Additive

Adaptive
Focus is on Delivering Business Value

• Adaptive to demands of the Business
• Put the business in the Driving Seat
  • Business own the “What”
  • IT own the “How”
• Focus on delivering a working product
However beautiful the strategy, you should occasionally look at the results.

Winston Churchill
Focus on flow
Kanban (Signal Flow)

• Visualise the work
• Limit Work In Progress
• Measure and Manage flow
• Make process and policies explicit
• Implement Feedback loops
• Improve collaboratively, evolve experimentally
Flow – 2 main metrics

Lead Time
• The time from concept to customer
• Can be measured across lanes

Cycle Time
• How frequently your product is finished

Do you know this for your products?
Would it help?
XP (eXtreme Programming)

Comes from an engineering perspective

- Simplicity
- Communication
- Feedback
- Respect
- Courage
Scrum is ...

• An framework for Agile software development
• A set of rules defined in the Scrum Guide
• Easy to learn but difficult to master

http://scrumguides.org/
Roles

Scrum Master

Product Owner

Development Team

Stakeholders
The Product Backlog

Iceberg

1-3 Sprints

Release

Other stories waiting to be worked on. Not refined yet.

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Working with Big Data

• Data is Different
• But not that much!

• How to implement Agility with Big Data

…
Key aspects

• Team Practices – Communicate
• Iterative, Incremental – “Chunking”
• Focus on user visible Value
• Be “Done”
• Document continuously
• Test and deploy automatically
• Bring the end users closer - Collaborate
“Done” with Big Data

• Built/Coded
• Tested at volume
• Deployed
• Rollback tested
• Performance tested
• Security tested
Done();

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