

# Agile Overview

August, 2013

# What is Agile?

Quickness, lightness, and ease of movement;

Nimble

Dictionary definition (<http://www.thefreedictionary.com/agile>)

# What is agile software development?

- Software development methods
- Iterative and incremental development
- Self-organizing, cross-functional teams
- Time-boxed approach (most, not all)

Wikipedia ([http://en.wikipedia.org/wiki/Agile\\_software\\_development](http://en.wikipedia.org/wiki/Agile_software_development))

# Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work 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

That is, while there is value in the items on the right, we value the items on the left more.

<http://agilemanifesto.org/>

# Principles behind the Agile Manifesto

There are 12 principles agile developers follow.

These principles are found at:

<http://agilemanifesto.org/principles.html>

1<sup>st</sup> - Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.

2<sup>nd</sup> - Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.

7<sup>th</sup> - Working software is the primary measure of progress.

10<sup>th</sup> - Simplicity--the art of maximizing the amount of work not done--is essential.

# Agile project management ?!

## Declaration of Interdependence

Agile and adaptive approaches for linking people, projects and value.

We are a community of project leaders that are highly successful at delivering results. To achieve these results:

- We increase return on investment by making continuous flow of value our focus.
- We deliver reliable results by engaging customers in frequent interactions and shared ownership.
- We expect uncertainty and manage for it through iterations, anticipation, and adaptation.

# Agile project management ?!

## Declaration of Interdependence

- We unleash creativity and innovation by recognizing that individuals are the ultimate source of value, and creating an environment where they can make a difference.
- We boost performance through group accountability for results and shared responsibility for team effectiveness.
- We improve effectiveness and reliability through situationally specific strategies, processes and practices.

<http://pmdoi.org/>

# Agile methodologies

## LEAN

Maximize **customer value** while minimizing waste

Toyota Production System (TPS) is world-renowned lean system

*More to come*



# Agile methodologies

## Kanban

- Visualize workflow
- Limit Work In Progress (WIP)

*More to come*

# Agile methodologies

## Scrum

- Iterative & incremental
- Time-boxing

*More to come*

# Agile methodologies

## eXtreme Programming (XP)

- Pair coding
- Simplicity
- Communication
- Courage
- Respect

# Agile methodologies

## Crystal Clear

- Frequent delivery
- Reflective improvement
- Osmotic communication

# Agile methodologies

## Feature Driven Development (FDD)

- Development driven from a client-valued functionality (feature) perspective

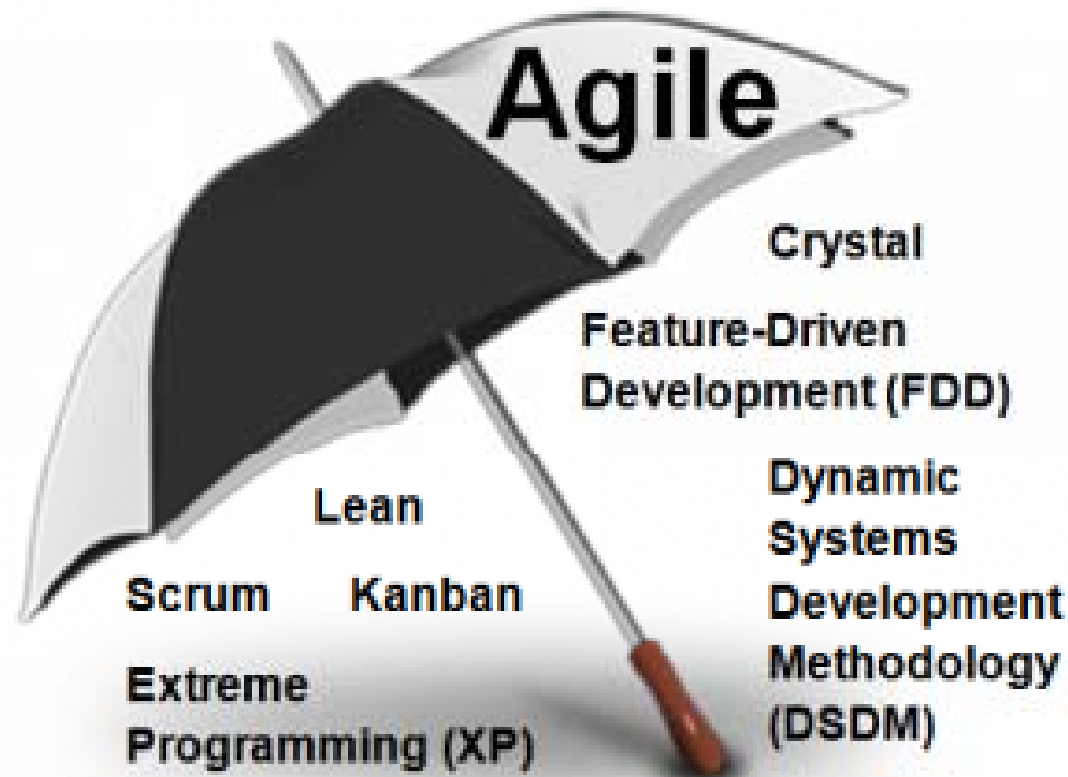
# Agile methodologies

## Dynamic systems development method (DSDM)

- Rapid Application Development (RAD)
- MoSCoW prioritization

MoSCoW - **m**usts, **s**houlds, **c**oulds and **w**on't have

# Agile methodologies



# Agile Overview

**The End**

***Next speaker***