Intro to Agile: DevPoint Labs

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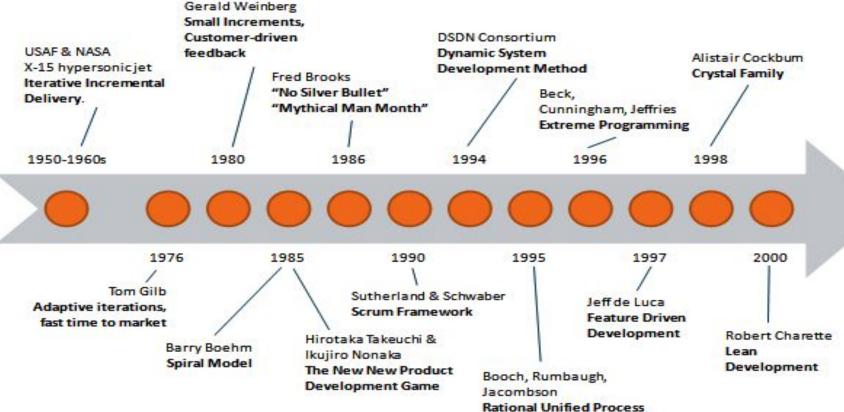
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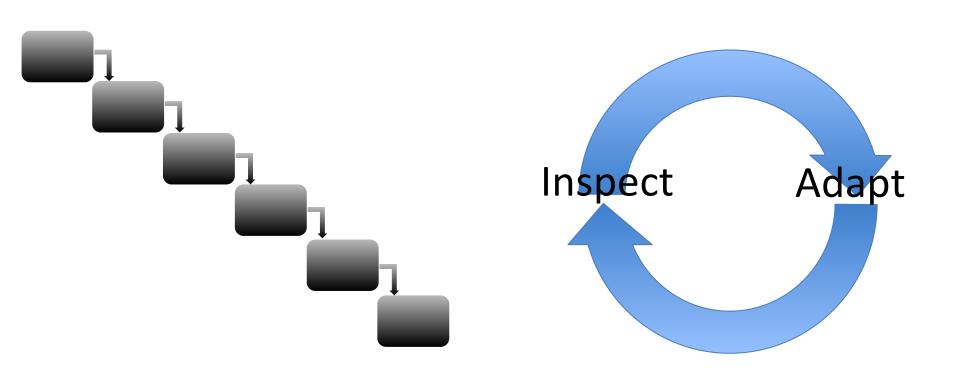
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AGILE: HISTORY & DACKEDOLIND



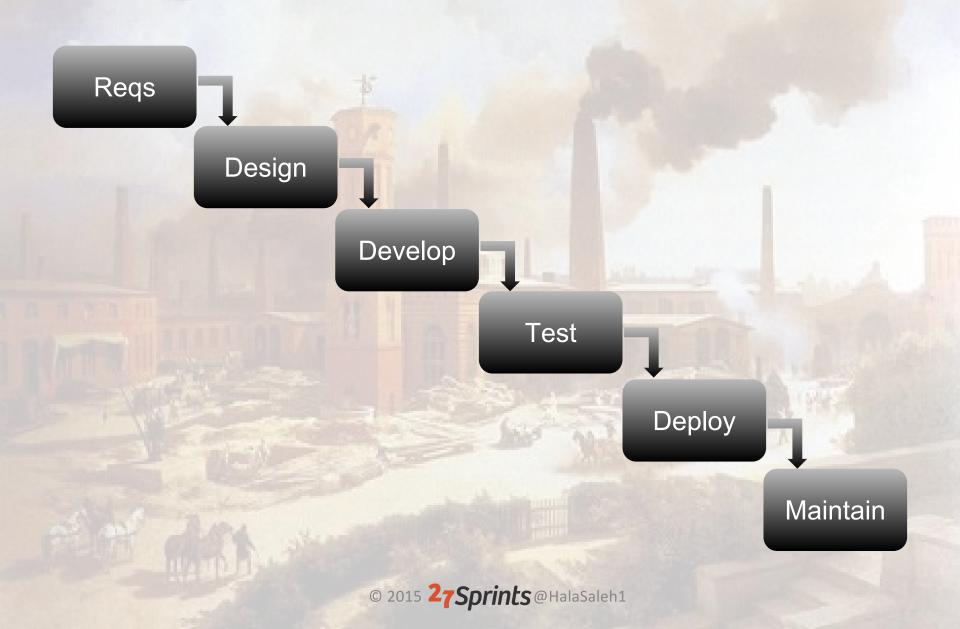
Process Control Models



Linear/ Defined

Empirical

Waterfall Product Development





In the 1960 and 70s, the software development industry inherited the manufacturing process model

Today: A New Environment

- One constant: Requirements, Technologies, & Customer Preferences now change faster than ever.
- Businesses are in a race to be first to market.

- Teams need to be able to adapt and respond to change to be competitive and fast to market.
- Organizations need to be able to reduce waste to meet their goals.

Agile & Lean: Software & Beyond

- Organizations started focusing on reducing waste.
 (Toyota, MIT, Lean thought leaders)
- Software experts and business thought-leaders started exploring frameworks that were more lightweight and responsive to change.
- The result: Agile, Lean, & Value-Driven Approaches

Agile: The Values (Software)

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

While we value the items on the right, we value the items on the left more

*Source: agilemanifesto.org

Agile: The Principles

The Agile Manifesto is based on 12 Principles*

Collaboration

Timeboxing

Continuous Feedback & Improvement

SELF-ORGANIZING TEAMS

Retrospectives

Frequent & Continuous Delivery

Inspect-Adapt Cycle

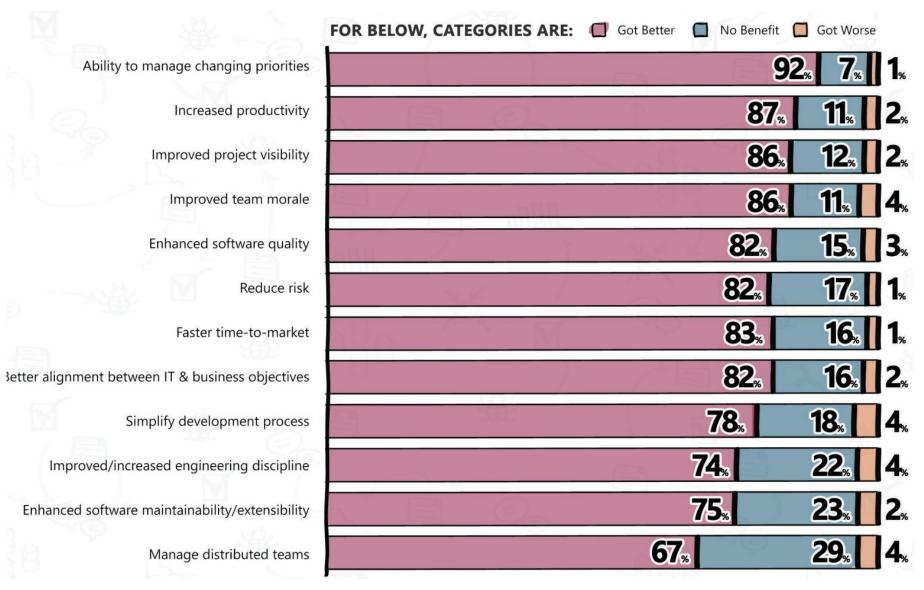
SUSTAINABLE PACE

^{*} Source: agilemanifesto.org/principles.html

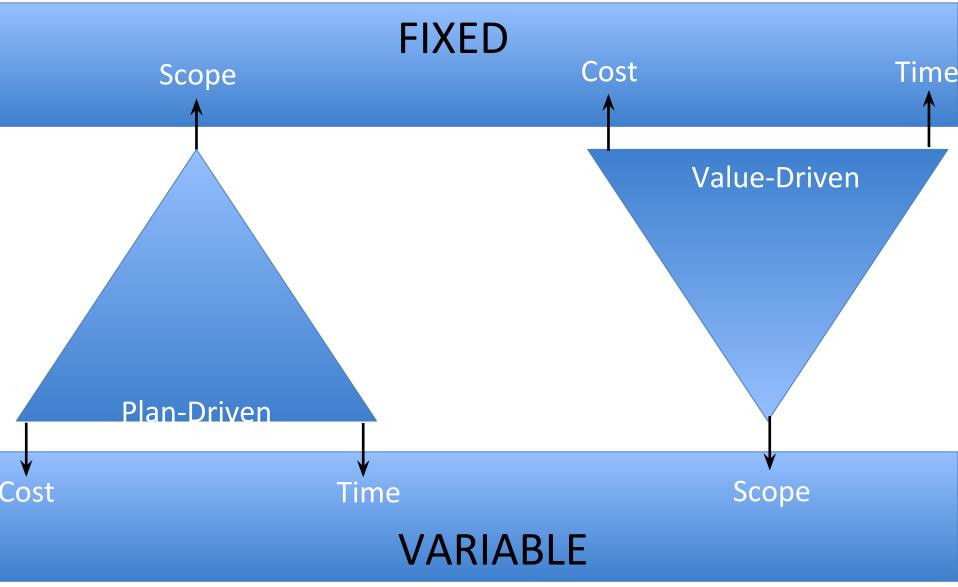


AGILE: BENEFITS & DELIVERING VALUE

Agile: What Are The Benefits?

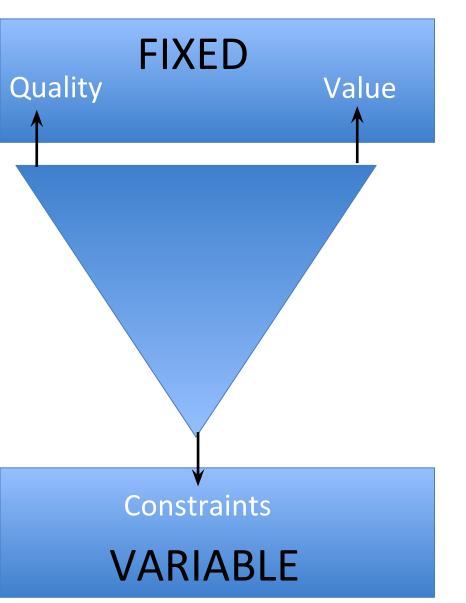


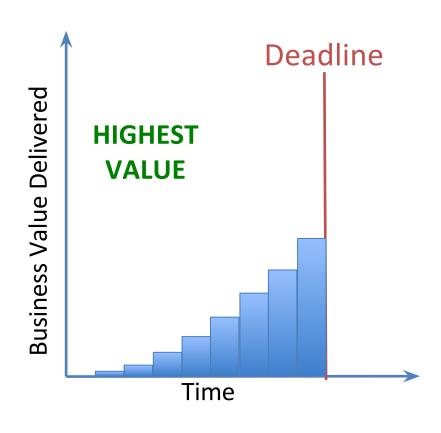
Plan-Driven vs. Value-Driven



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Agile Value Triangle

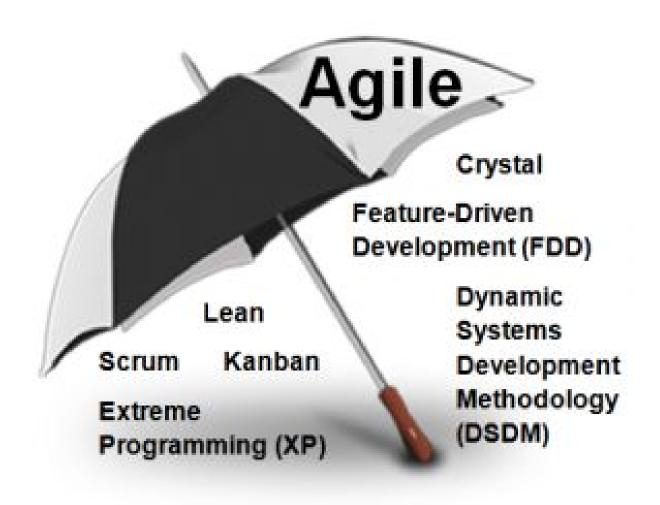






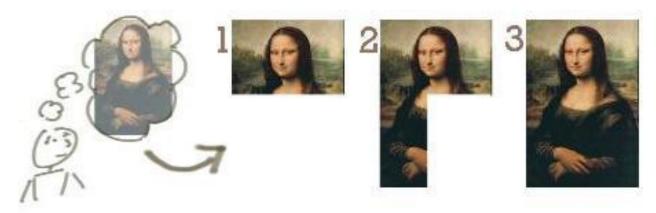
AGILE: COMMON FRAMEWORKS

Common Agile Frameworks



Iterative & Incremental

Incremental



Iterative

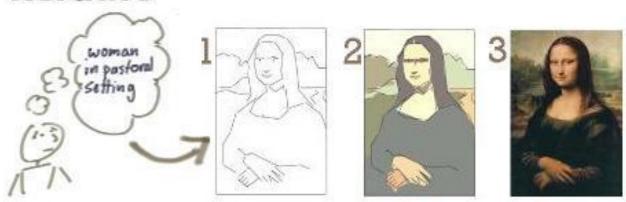


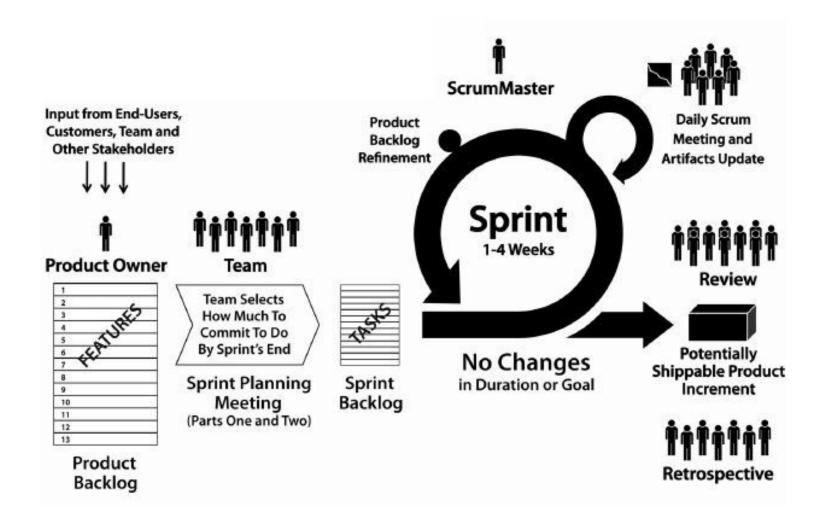
Image source: InfoQ: Jeff Patton Iterative & Incremental Mona Lisa

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SCRUM: AN INTRODUCTION

Scrum Framework



How Do I Incrementally + Iteratively Build Functionality?

| Bare | Nece | ssity |
|------|------|-------|
|------|------|-------|

what is essential functionality necessary to demonstrate the simplest use of the feature?

Capability, Flexibility

what would make this feature useful in more situations? What would allow the feature to be used in alternative ways?

Safety

what would make this feature safer for me to use for the user or other stakeholders? These are characteristics that help prevent errors or validate data to prevent bad information from entering the system.

Usability, Performance, Sex Appeal

what would make this feature more desirable to use? This includes adjustments to improve usability, visual and interaction design improvements to esthetic appeal, and improvements that help users do their work faster including architectural improvements or features such as short cuts or speed keys.

Scrum Framework: An Overview

Roles

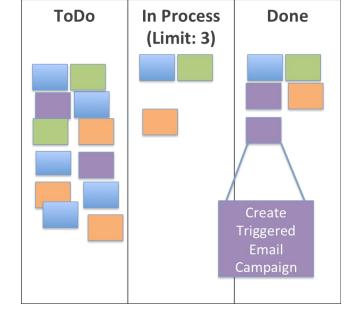
- Scrum Master
- Product Owner
- Team

Activities

- Release planning
- Sprint planning
- Daily scrum
- Sprint review
- Sprint retrospective
- Backlog refinement

Artifacts

- Product backlog
- Sprint backlog
- Burndown charts
- Product increments
- Team Task
 Board

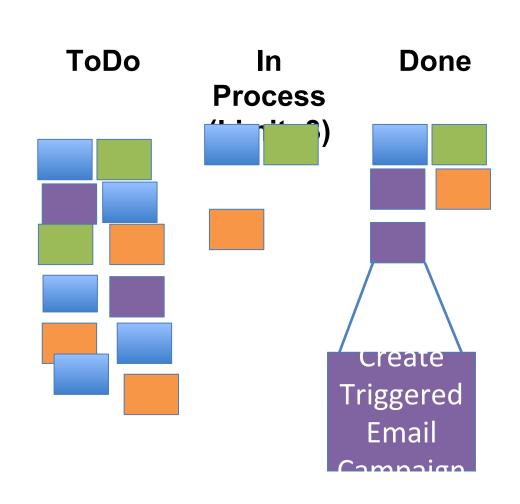


KANBAN: AN INTRODUCTION

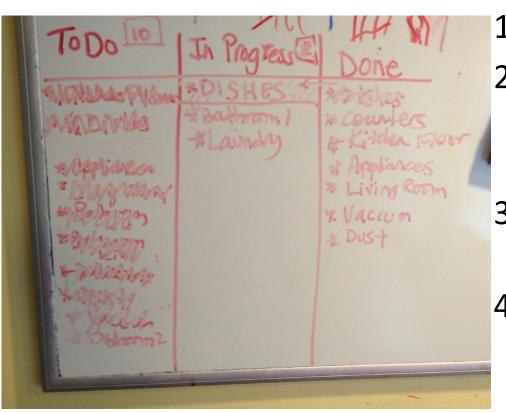
Kanban: A Flow System

Kanban Principles:

- 1. Visualize Workflow
- Limit Work in Process
- 3. Focus on Flow
- Continuous Improvement



Visualize: Why?



- Transparency
- See bottlenecks: Wasteful processes, Procrastination
- 3. Focus: Focus on tasks vs. remembering
- 4. COLLABORATION!

Exercise: Sources of Waste

What are some sources of waste and ineffectiveness for businesses?

Limit WIP: Why?



- Multitasking: It doesn't work.
- Getting to "Done":
 Putting limits on "Doing" actually leads more stuff to get to "Done"

Keys For Successful Visual Tools

- Simple: Visual tools should be simple with low overhead
- Make key information visible to all: Easy to view the key information (avoid information-overload or not enough information)
- Identify impediments to progress: Easy to see where there are issues (use color-coding, placement of postits or other tools/ methods)
- 4. Keep team focused on outcome
- 5. Make a difference: If the tool doesn't increase effectiveness, efficiency, or quality (or other goals you have for using it), should be modified.

Is Agile For Me/ Us?

1. Delivery vs. Discovery

- a) Agile is about Predictable delivery when you're mostly confident you're building the right thing
- b) If your biggest risk is determining whether you're building the right thing, focus on fast learning cycles.

Focus on Agile Values, & Process Will Follow

Example: Nordstrom Innovation Lab

Agile Lessons Learned

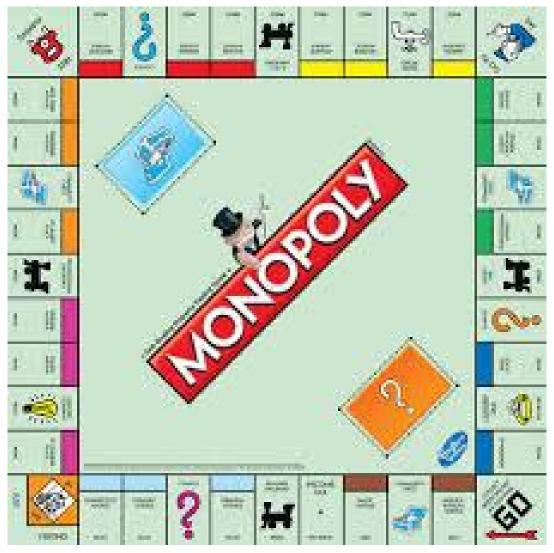
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#1: There is NO Silver Bullet



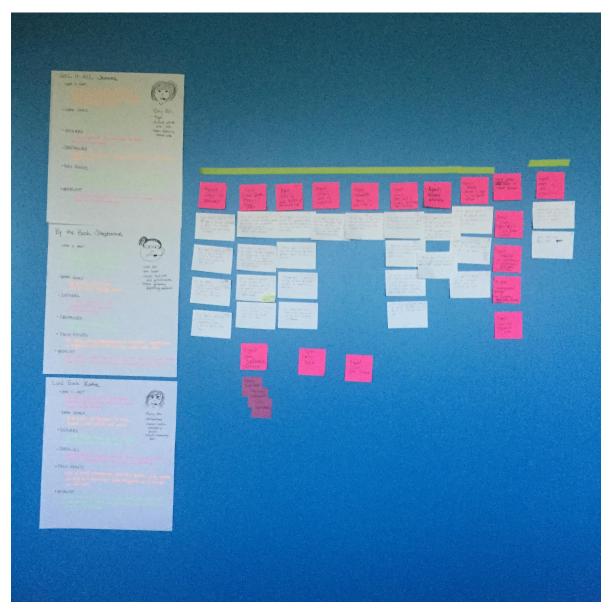
#2: There is NO Monopoly on Good Ideas



#3: People != Resources



#4: Visualize #FTW



#5: Timeboxing solves EVERYTHING



#6: Multitasking is a Myth

