

Agile Principles: The Foundation Underlying Successful Agile Development

March 25, 2015
by Ken Rubin

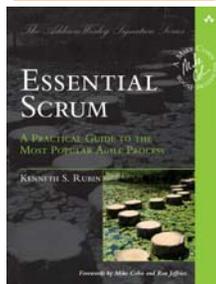
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Essential Scrum in Six Languages

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French



German



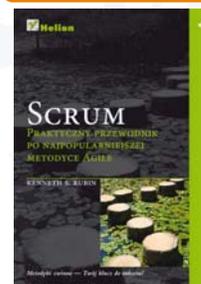
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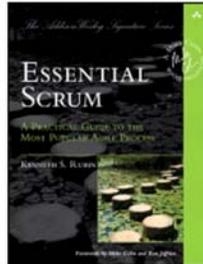
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Essential Scrum: A Practical Guide to the Most Popular Agile Process

By: Kenneth S. Rubin

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US Airdrops and Cargo Staging



☀ Cargo Cult



☀ Cargo Cult Issues...

Imitating actions alone produces desired results

Correlation implies causation

Process is more important than core principles

No need to know the foundational **"why"**



Agile Principles Provide Context for Inspecting & Adapting

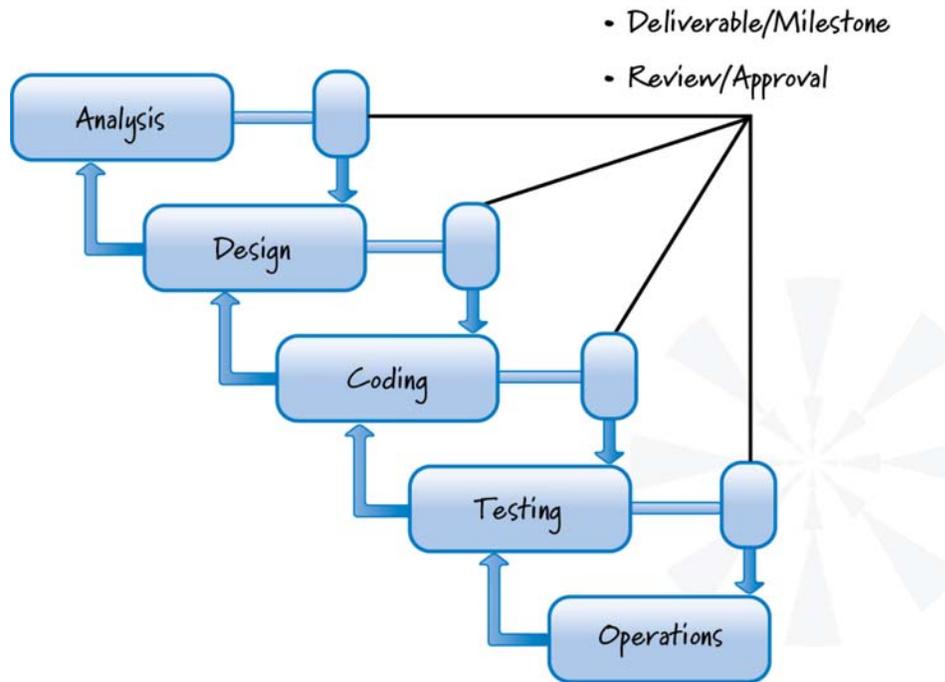
People who apply Scrum without understanding its underlying principles lack the necessary context to understand why they are doing things and when and how best to inspect and adapt their approaches



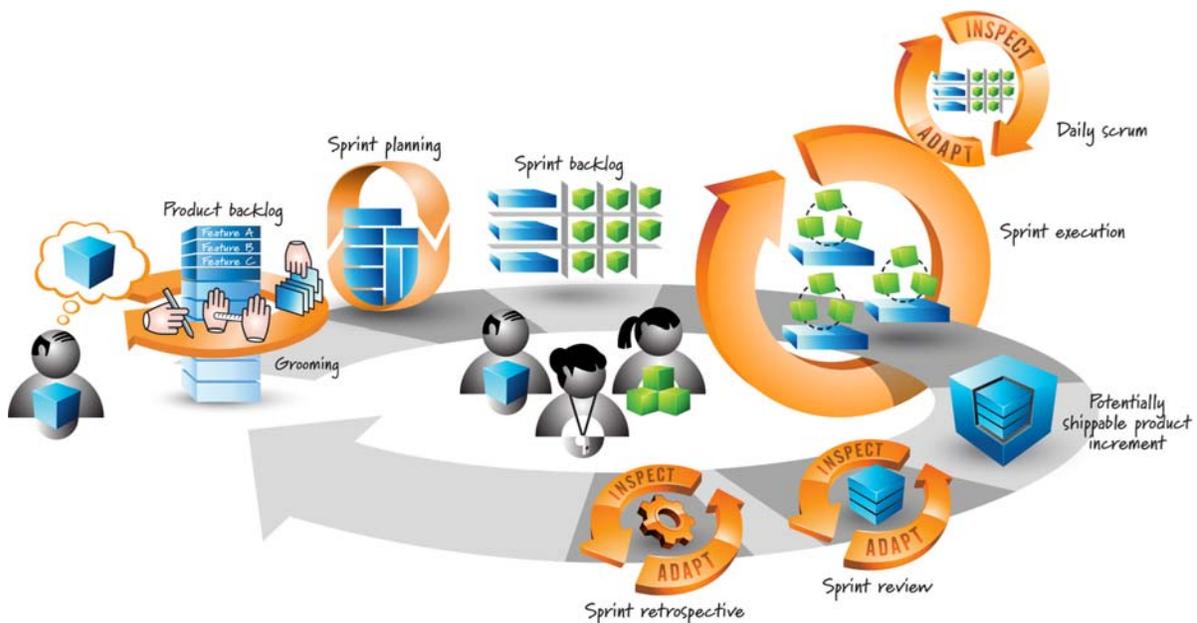
Waterfall and Agile – Two Tools in the Toolbox



Traditional, Phased-based, Plan-driven Development (aka Waterfall)

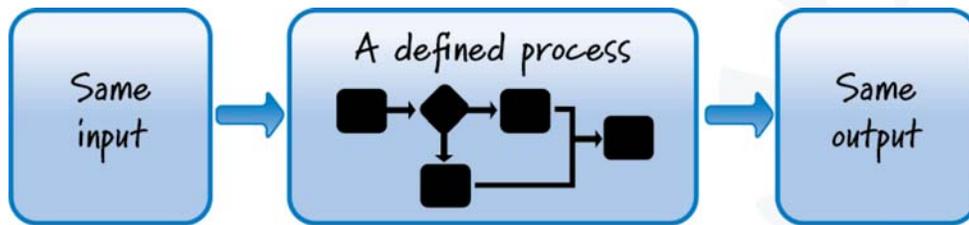


Agile Development – The Scrum Framework

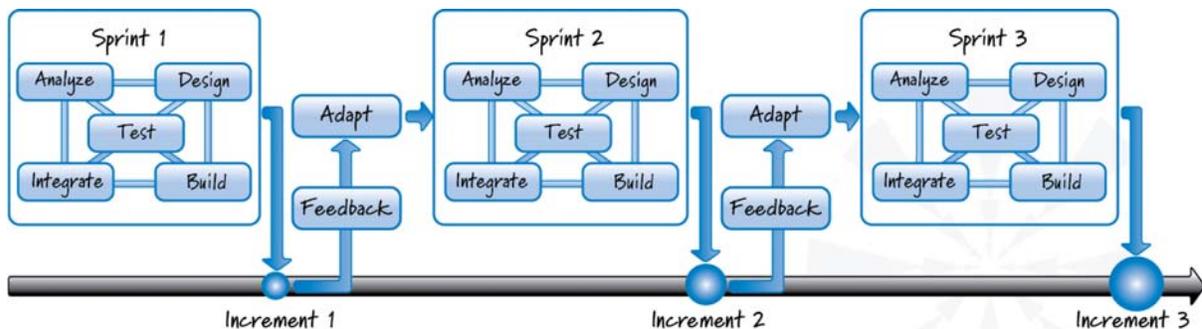


Development Isn't Manufacturing

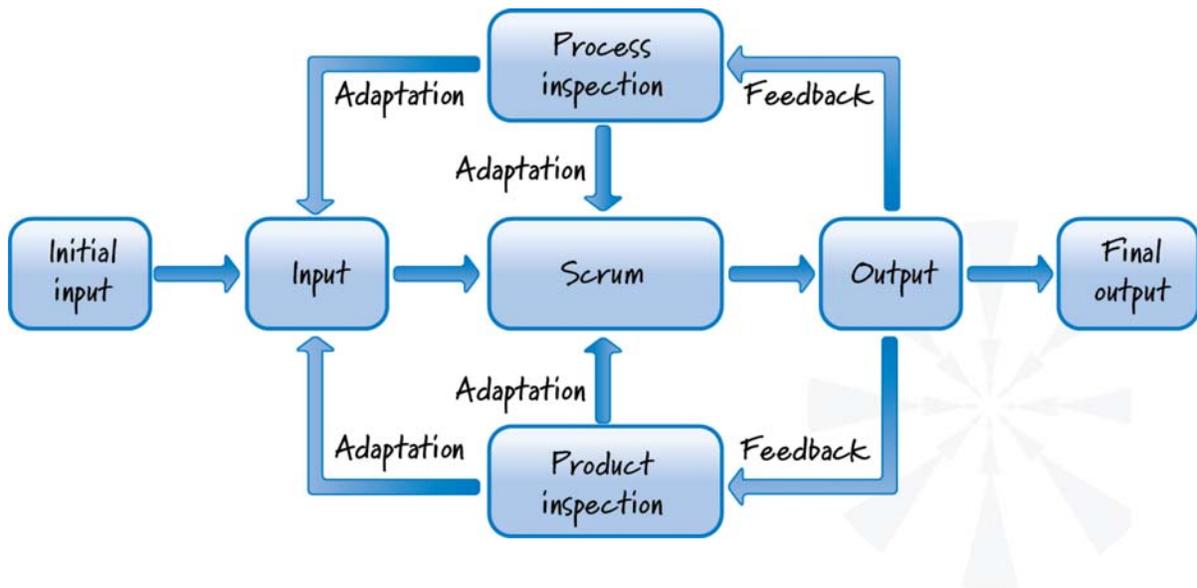
- ✧ In manufacturing our goal is:
 - ✧ Take a fixed set of requirements
 - ✧ Follow a sequential set of well-understood steps
 - ✧ Manufacture a finished product that is the same every time



Agile is Iterative & Incremental



✦ Agile is an Empirical Process Model



✦ Comparison of Plan-Driven and Agile Processes

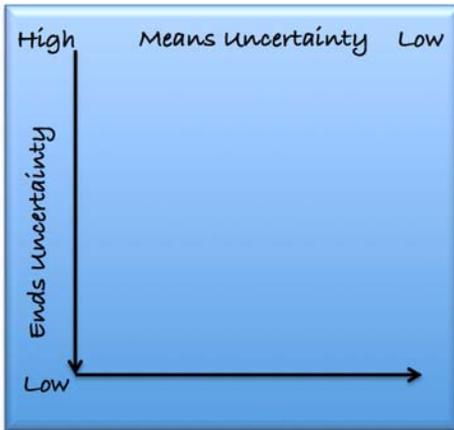
Dimension	Plan-driven	Agile
Degree of process definition	Well-defined set of sequential steps	Complex process that would defy a complete up-front definition
Randomness of output	Little or no output variability	Expect variability because we are not trying to build the same thing over and over
Amount of feedback used	Little and late	Frequent and early



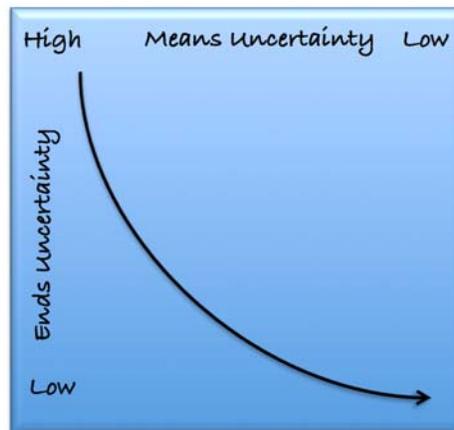
☀ Uncertainty Management

Waterfall

Agile



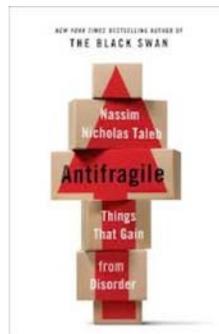
Defined



Empirical



☀ Fragile, Robust, Antifragile



Waterfall

Agile

Fragile

Robust

Antifragile

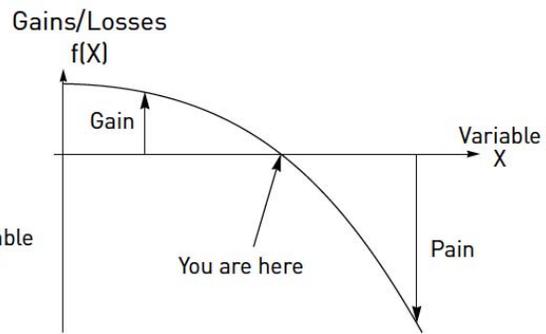
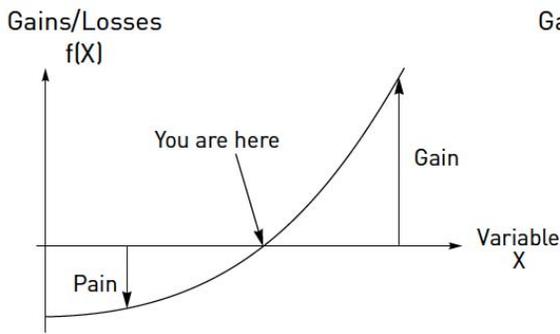
Harmed by disorder

Resilient to disorder

Benefits from disorder



Asymmetric Payoffs Create Economic Value or Harm

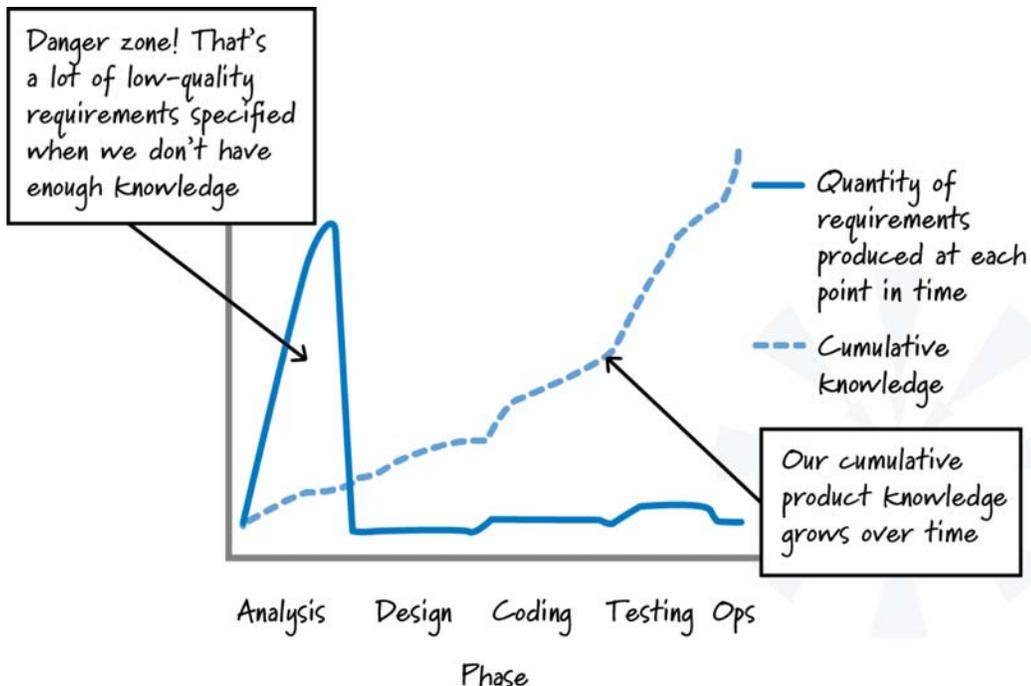


Positive asymmetric payoff (**antifragile**) anything that has more upside than downside from random events (variability)

Negative asymmetric payoff (**fragile**) anything that has more downside than upside from random events (variability)

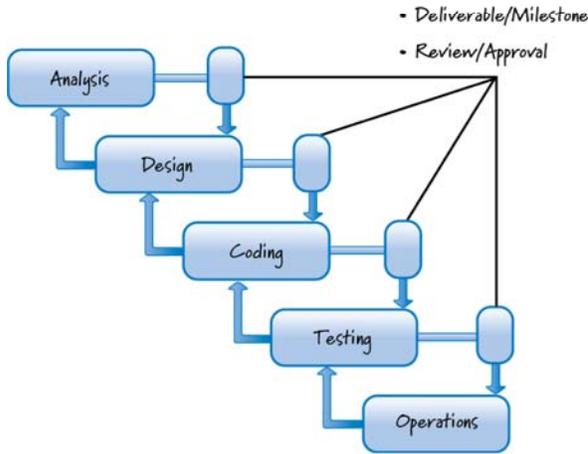
Source: Taleb, Nassim, Antifragile: Things That Gain from Disorder, Random House, 2012.

Getting Right Up-front

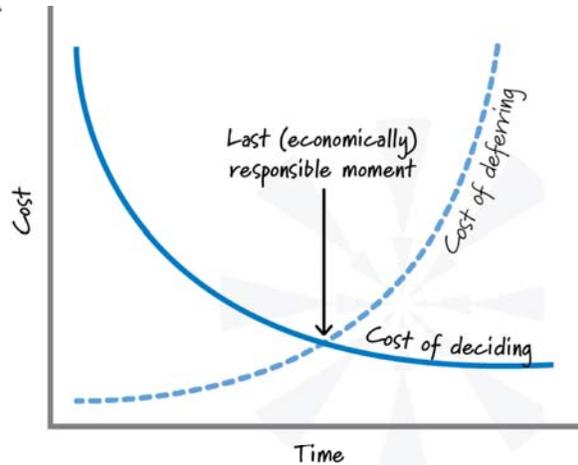


Decision Making

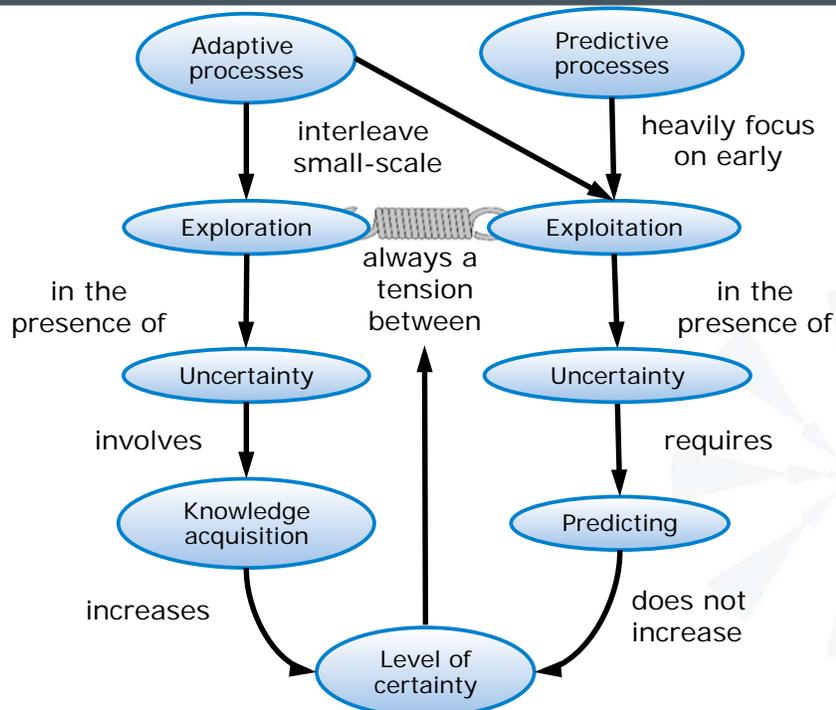
Make each decision in its proper phase



Make important decisions at the last responsible moment

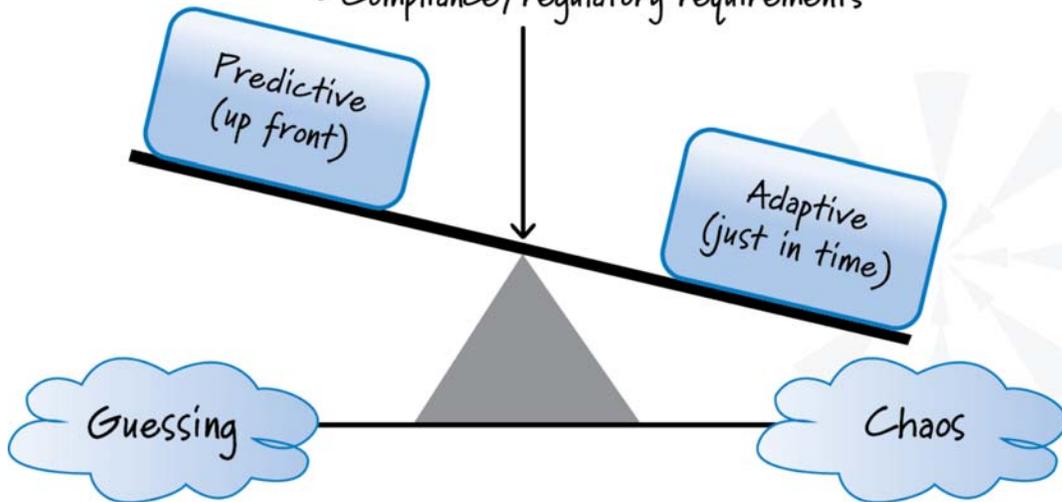


Exploration vs. Exploitation

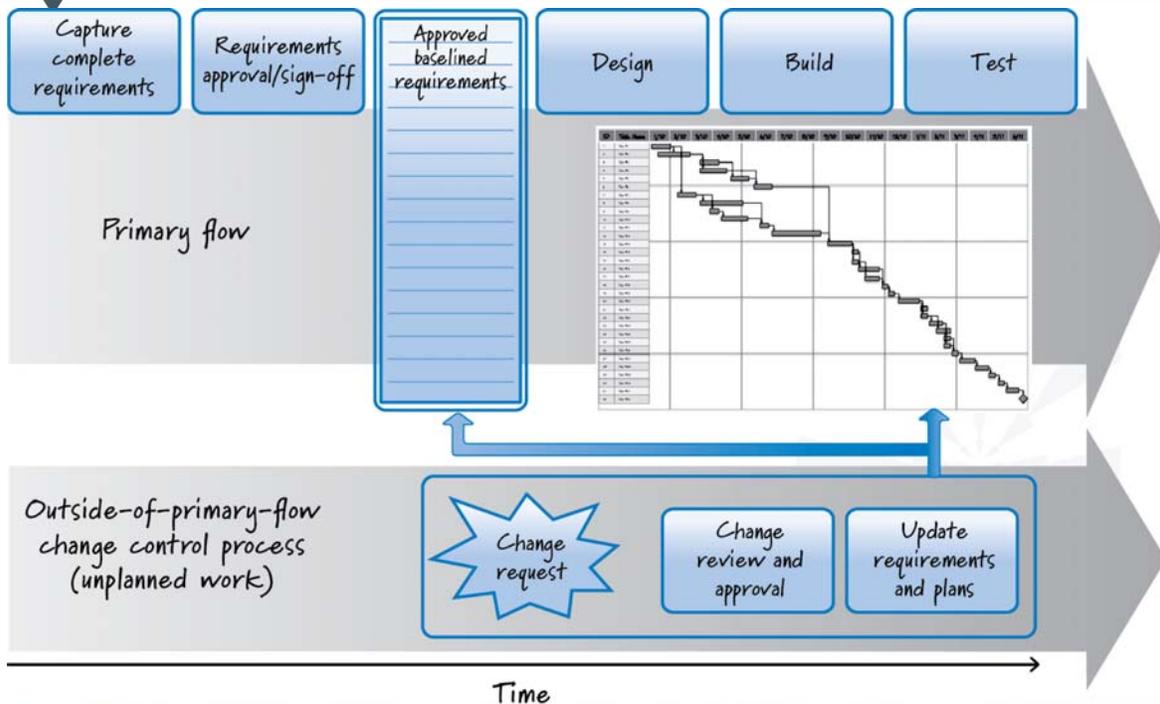


Balance between Predictive and Adaptive

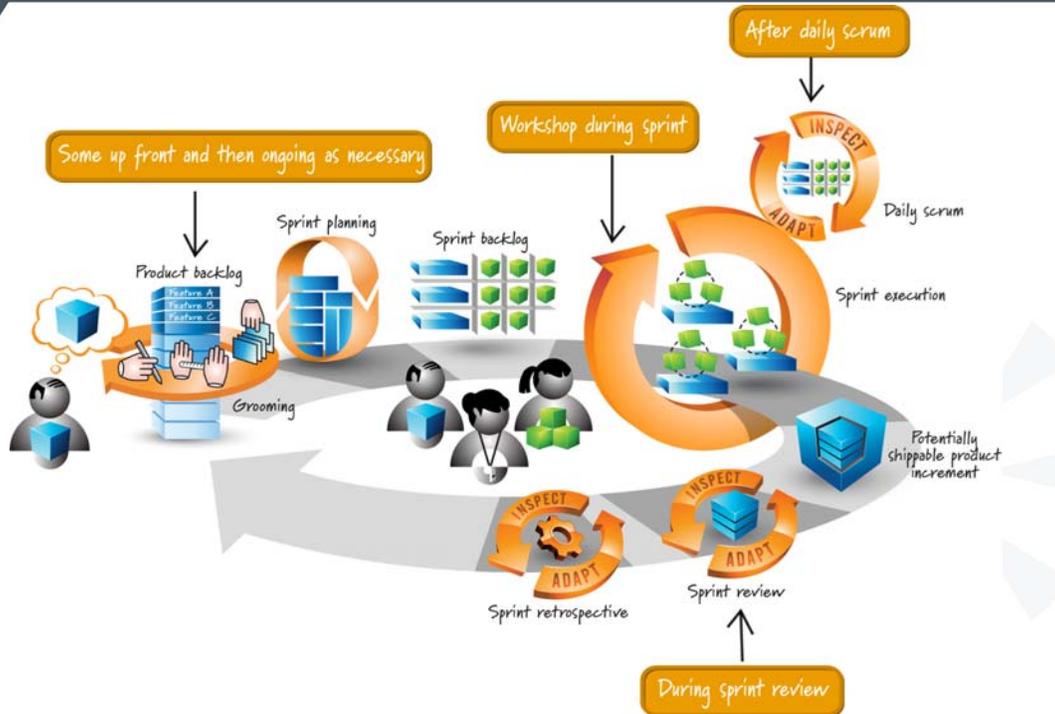
- Type of product
- Degree of end uncertainty
- Degree of means uncertainty
- Constraints on development
- Compliance/regulatory requirements



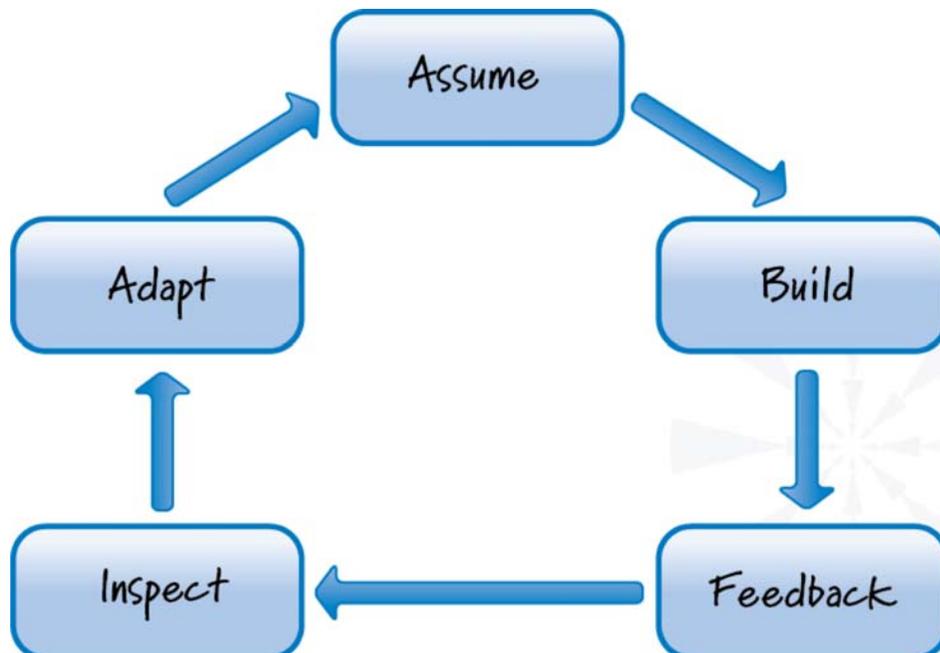
Managing Change Risk During a Traditional Development Project



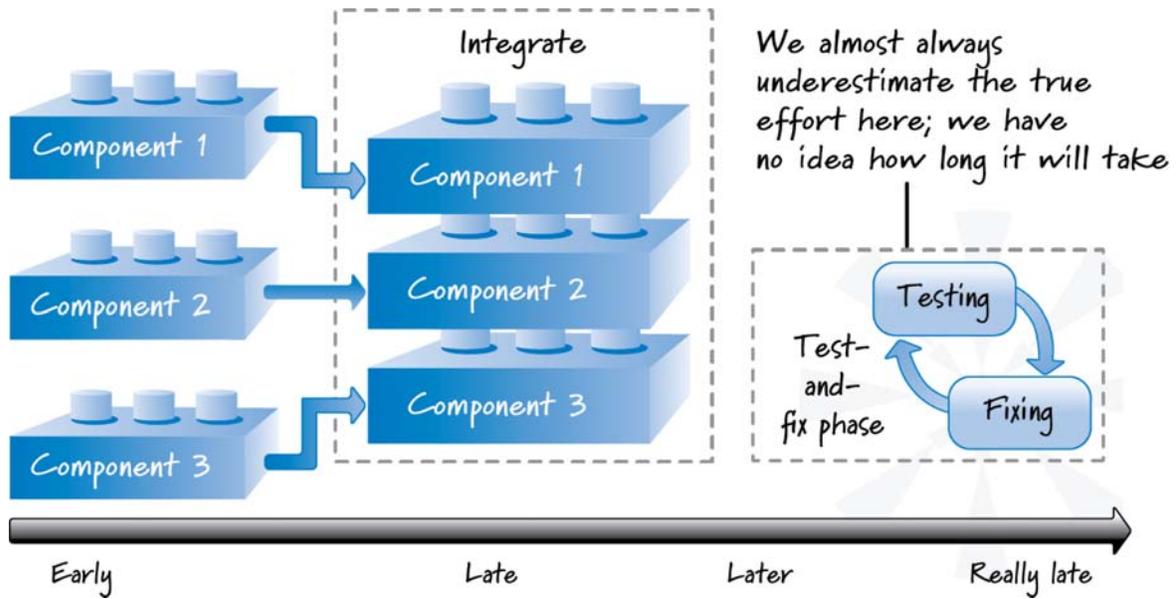
Managing Change Risk Using Scrum



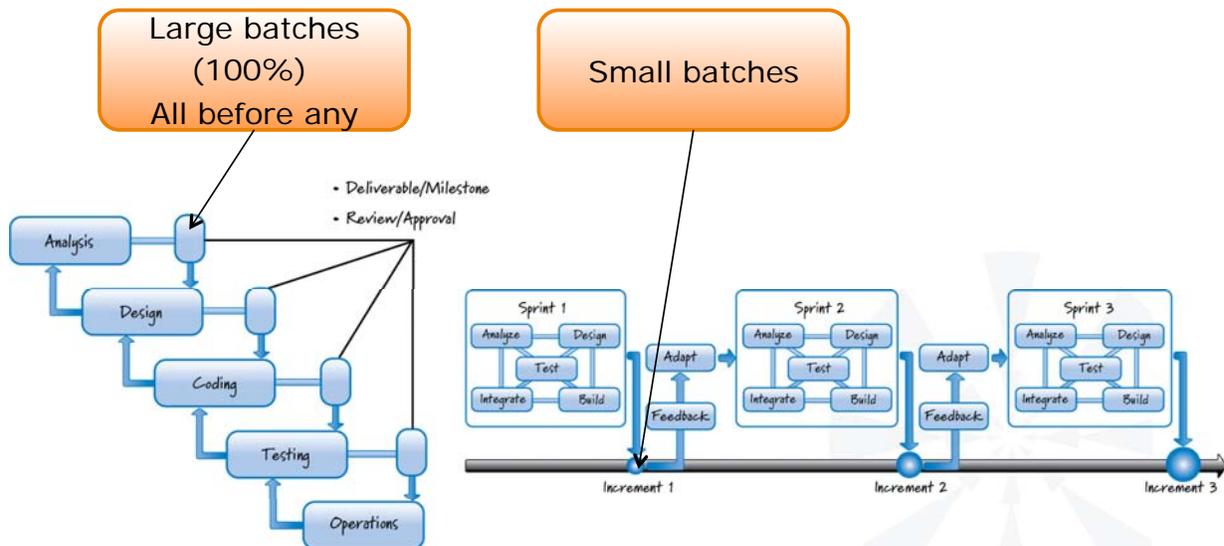
Leverage Multiple Concurrent Learning Loops



Organize Flow of Work for Fast Feedback



Large vs. Small Batch Sizes



Benefits of Small Batch Sizes in Product Development

Reduced cycle time

Reduced flow variability

Accelerated feedback

Lower risk of failure

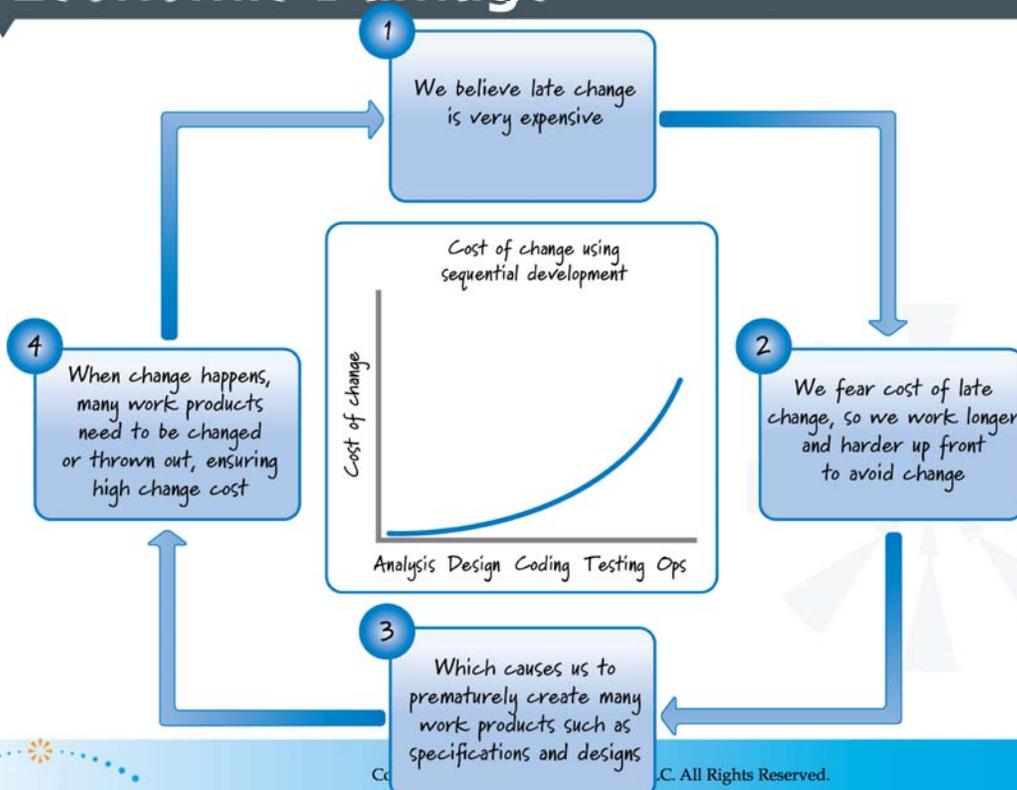
Reduced overhead

Increased motivation & urgency

Reduced cost and schedule growth



Poorly Managed Inventory Causes Economic Damage

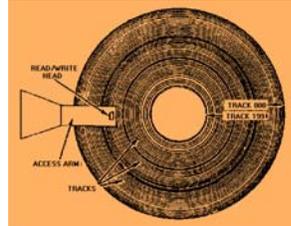


Recognize Inventory (WIP) and Manage it for Good Flow

Manufacturing inventory is both physically and financially visible

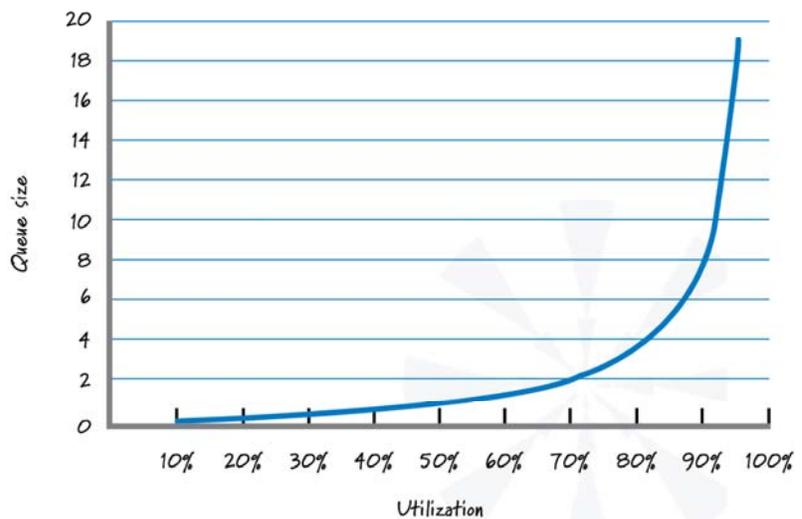


Product-development inventory are knowledge assets that aren't visible in the same way as physical parts

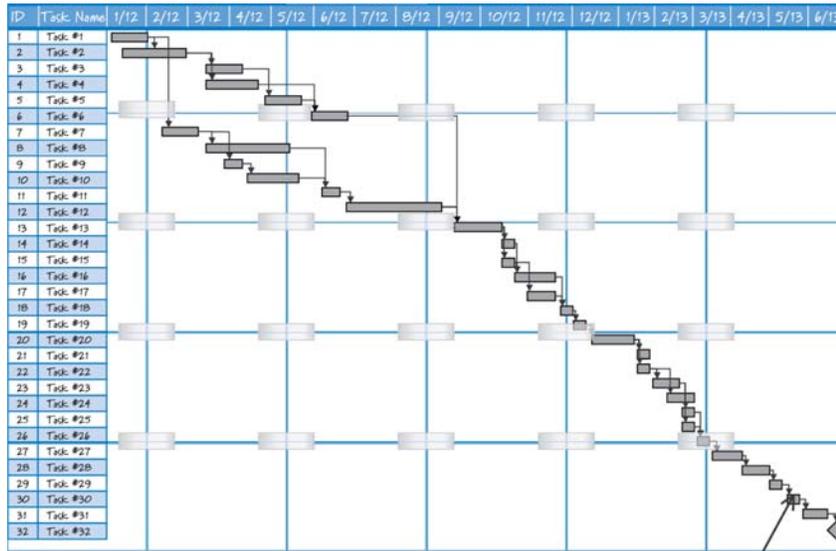


Focus on Idle Work Not Idle Workers

Watch the Baton Not the Runners



Waterfall is Conformance to Plan



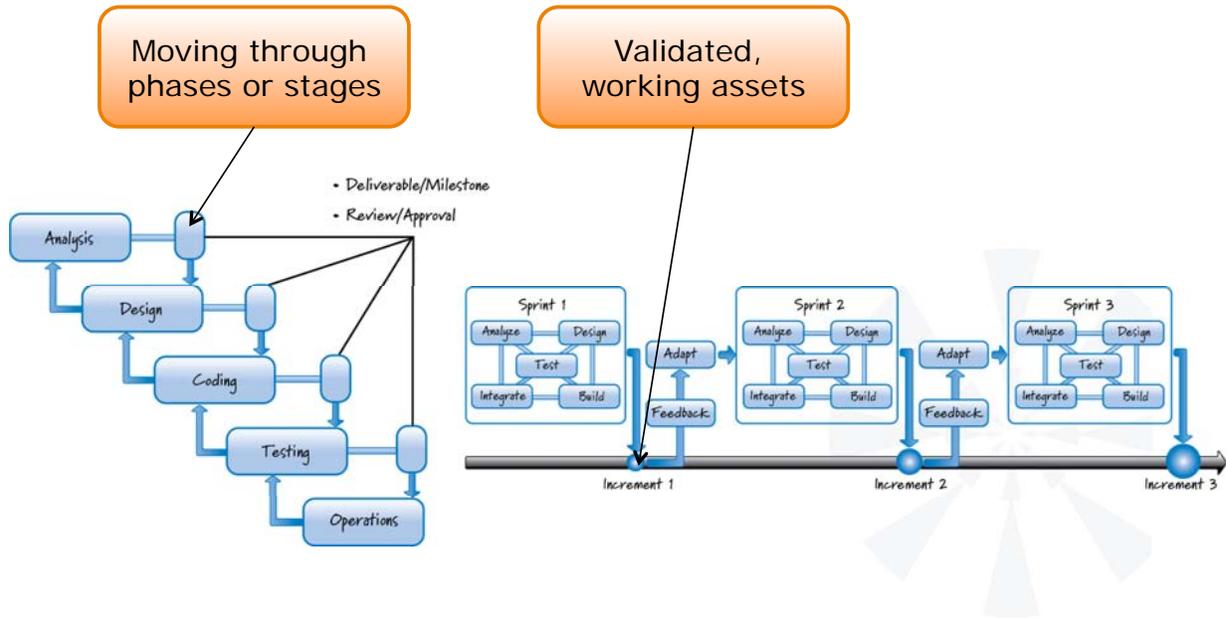
George 18 months from today



Agile is Replanning and Adapting



Progress

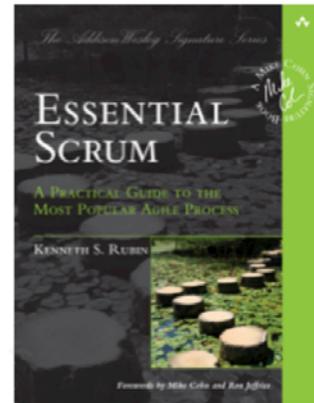


Summary: Principles are the Foundational Why



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— John F. Bauer III, veteran of technical solution delivery in large corporate IT shops

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