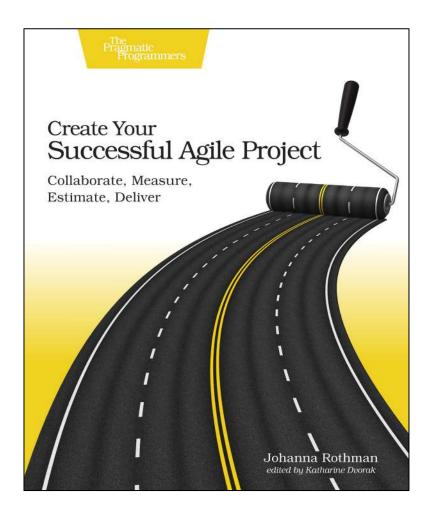
# **Supplemental Materials for**

Create Your Successful Agile Project: Collaborate, Measure, Estimate, Deliver



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See all my books at http://www.jrothman.com.

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# Supplemental Materials for

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Figure 1.1: General Agile Picture

General Agile Picture

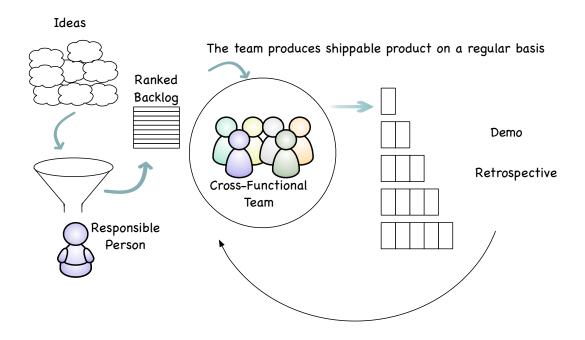


Figure 1.2: Iteration-Based Agile Approach

Iteration-Based Agile

Each timebox is the same size. Each timebox results in running tested features.

Figure 1.3: Flow Based Agile Approach

Flow-Based Agile

Feature: Clarify Req't, Analysis Design Build Test Release Deploy	Feature: Clarify Requirement, Analysis Design Build Test Release Deploy	Feature: Clarify Requirement, Analysis Design Build Test Release Deploy	Repeat as needed 	Feature: Clarify Requirement, Analysis Design Build Test Release Deploy	Feature: Clarify Requirement, Analysis Design Build Test Release Deploy
---	---	---	-------------------------	--	---

In flow, the team limits the number of features active at any time with WIP limits for each team activity.

There is no timeboxing built into flow.

Figure 1.4: Some Agile Approaches

Named Approach	How the Approach Works
Extreme Programming	Primarily a collection of technical practices guided by these values: communication, simplicity, feedback, courage, and respect.
Scrum	Timebox-based project-management framework for delivering working product often.
DSDM (Dynamic Systems Development Method)	Timeboxed approach to delivering functionality. Facilitated workshops to determine the requirements and gain agreement on them.
Crystal	Focus on the people. Depending on the size of the project team and the product criticality, select the approach that fits for the team, the business people, and customers.
Feature-Driven Development	Deliver functionality incrementally after creating a (low-fidelity) framework for the architecture or object modeling. Focus on building value for the customer.
Kanban	Visualize the flow of work, work by value, and manage the work in progress. Deliver incremental value as the team completes the value.

Figure 1.5: Build-Feedback-Learn Loop

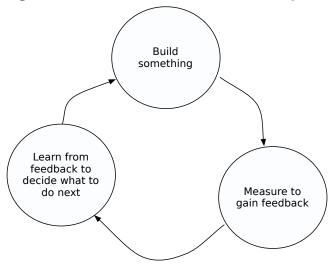
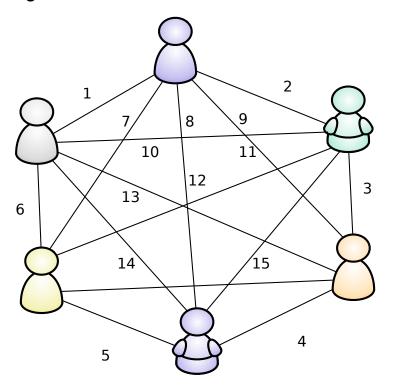


Figure 1.6 Fixed vs. Growth Mindset

Fixed Mindset	Growth Mindset
We are born with fixed skills or talents.	Skills arise from hard work. We can improve.
Avoid challenges. In the face of challenge, give up.	Challenges are an opportunity. Persist until we get it right.
Coast by, don't bother with effort.	Effort is essential to mastery.
Get defensive with feedback.	Learn from feedback.
Blame others for setbacks. Get discouraged by setbacks.	Setbacks are something we use to try harder the next time.
Feel threatened by others' success.	Find inspiration in others' success.

Figure 2.1: Six Person Team Communication Paths



Six-Person Team Requires 15 Unique Paths for Full Communication

Figure 2.2 Calculate Team Communications Paths

Team Members	Communication Paths
4 people	(4*3)/2=6
5 people	(5*4)/2=10
6 people	(6*5)/2=15
7 people	(7*6)/2=21
8 people	(8*7)/2=24
9 people	(9*8)/2=36
10 people	(10*9)/2=45

Figure 2.3: Adaptation of Hackman's Type of Teams

Adaptation of Hackman's Type of Teams

Who is Responsible for	Manager-Led Teams	Self-Directed Teams	Self-Managing Teams	Self-Governing Teams
Set overall direction	Manager	Manager	Manager	Team
Design the team and its organizational context	Manager	Manager	Team	Team
Monitor and manage work process and progress	Manager	Team, with the exception of hiring and firing	Team	Team
Execute team task	Team	Team	Team	Team

Figure 2.4: Tuckman's Diagram

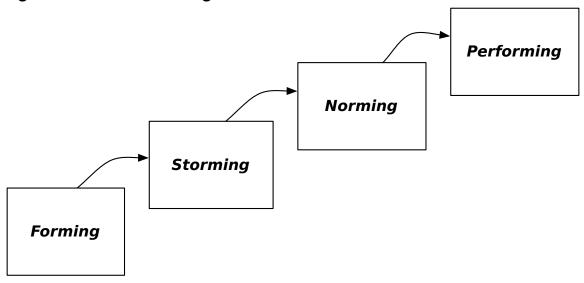


Figure 2.5: People and Their Capabilities

## People and Their Capabilities



Figure 2.6: Staggered Development and Testing

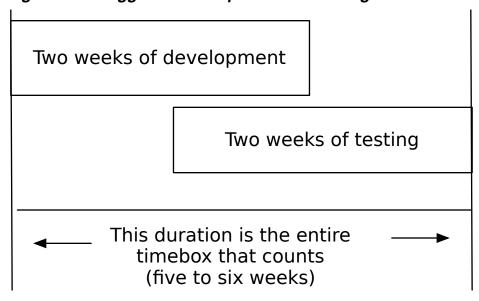


Figure 3.1: Possible Consulting Roles

Possible Consulting Roles

Coach: Counselor: Partner: "You did well; what would Responsibility for client's growth "You do it; I will be your "We will do it together and you do differently next sounding board." learn from each other." time?" Teacher: Facilitator: Modeler: "Here are some principles "I will do it; you watch so "You do it; I will attend to you can see to solve you can learn from me." the process." problems of this type." Hands-on Expert: Reflective Observer: Technical Advisor: "I will do it for you; I will tell "You do it; I will watch and "I will answer your you what to do." tell you what I see and questions as you go along." hear."

Responsibility for client's results

Possible Collaboration Board

Figure 3.2: Possible Collaboration Board

Blue Is Ask Red Is Offer

Ask/Offer Help A/O Person Tom Α A,O Dick 0 O, A A,O Susan 0 Sally O, A Trina 0 Thelma 1 2 3 5 7 10 Day

Figure 5.1: Possible Scenarios for Release Criteria

Type of Scenario	Example Description
Performance	For a given scenario ( <i>describe it in some way</i> ), the query returns results in a minimum of two seconds.
Reliability	The system maintains uptime under these conditions. ( <i>Describe them.</i> )
Scalability	The system is able to build up to 20,000 simultaneous connections and scale down to fewer than 1,000 connections.

Figure 5.2 Potential for Release Frequency

#### Potential for Release Frequency

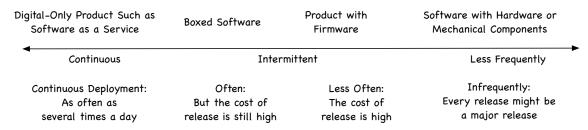


Figure 5.3 Project Pyramid

Project Pyramid: Tradeoffs and Potential Risks for Projects

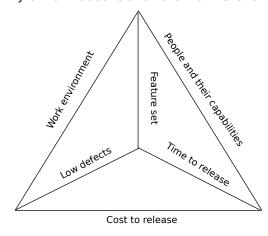


Figure 6.1: Agile Roadmap for a Product: Six-Quarter View

Agile Roadmap for a Product: Six-Quarter View

Q1	Q2	Q3	Q4	Q5	Q6
External Release Tulip	External Release Daisy	External Release Rose	External Release Carnation		
Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes		
Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes		
Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes	Feature Sets/ Themes		

Figure 6.2: Agile Roadmap: Six-Month View

Agile Roadmap for a Product: Six-Month View					
M1	M2 M3		М4	M5	M6
External Release Tulip			E	xternal Release Dai:	sy
Internal	Internal	Internal	Internal	Internal	Internal
Release 1	Release 2	Release 3	Release 4	Release 5	Release 6
Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/
Themes	Themes	Themes	Themes	Themes	Themes
Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/
Themes	Themes	Themes	Themes	Themes	Themes
Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/	Feature Sets/
Themes	Themes	Themes	Themes	Themes	Themes

Figure 6.3 Implement by Feature Through the Architecture

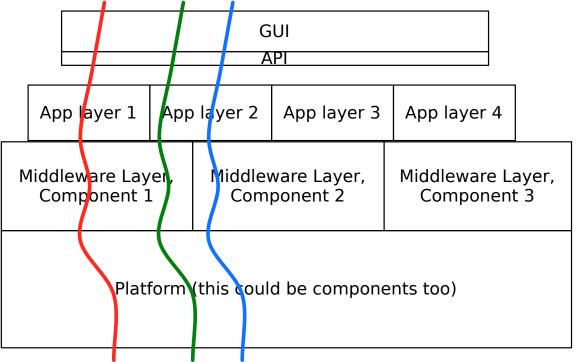


Figure 6.4: Contrasting Story Types

User Story	FDD Alternative
As a system, monitor race conditions so I can reboot the master processor.	Reboot the master when I discover a race condition between processors two and three.
As a buyer, I want to cancel a sale within three days of buying the car. (Note: some states require that a buyer can cancel a sale and return the car.)	Cancel a sale.
As a machine-learning system, generate a list of possibilities for the future so I can examine them later.	Generate list of possibilities and log them for future consideration.

Figure 6.5: Rolling Wave Example: One-Quarter Agile Roadmap

Rolling Wave Example: One-Quarter Agile Roadmap

Internal Release 1		Internal Release 2		Internal Release 3	
Secure Login, Part 1	Secure Login, Part 2	Secure Login, New ID	Text Transfer, Part 1	Text Transfer, Part 2	Secure Login, Part 3
Admin, Part 1	Diagnostics, Part 1	Admin, Part 2	Admin, Part 2	Admin, Part 3	Admin, Part 3
File Transfer, Part 1	File Transfer, Part 1	Engine, Part 1	Engine, Part 1	Engine, Part 2	Engine, Part 2
Secure Login 1, 2, 3 Secure Login 4, 5, 6 Admin 1, 2 File Transfer 1	Secure Login 7, 8, 9  Diagnostics 1, 2, 3  File Transfer 2, 3, 4   MVP for	Secure Login 10, 11 Admin 3, 4 Engine 1, 2, 3  MVP for			
MVP for release	release	release			

Figure 6.6: One-Month Agile Roadmap & Rolling-Wave Plan for Next Month

Example: One-Month Agile Roadmap & Rolling-Wave Plan for Next Month

Internal	Release 1	Internal Release 2			
Secure Login, Part 1	Secure Login, Part 1	Secure Login, New ID	Text Transfer, Part 1		
Admin, Part 1	Diagnostics, Part 1	Admin, Part 2	Admin, Part 2		
File Transfer, Part 1	File Transfer, Part 1	Engine, Part 1	Engine, Part 1		
Secure Login 1, 2, 3 Secure Login 4, 5, 6 Admin 1, 2 File Transfer 1  MVP for release	Secure Login 7, 8, 9 Diagnostics 1, 2, 3 File Transfer 2, 3, 4   MVP for release	Secure Login 10, 11  Admin 3, 4  Engine 1, 2, 3   MVP for release			

Figure 6.7: Original Sequence: Two Months

Original Sequence: Two Months

Internal F	Release 1	Internal Release 2		
Secure Login, Secure Login, Part 1 Part 1		Secure Login, New ID	Text Transfer, Part 1	
Admin, Part 1	Diagnostics, Part 1	Admin, Part 2	Admin, Part 2	
File Transfer, Part 1	File Transfer, Part 1	Engine, Part 1	Engine, Part 1	

# Changed Sequence After One Iteration/Cadence: Plan for Remainder of Time

Internal F	Release 1	Internal Release 2		
Secure Login, Secure Login, Part 1 Part 1		Text Transfer, Secure Login, New Part 1		
Admin, Part 1 Diagnostics, Part 1		Diagnostics, Part 2	Admin, Part 2	
File Transfer, Part 1 File Transfer, Part 1		Engine, Part 1	Engine, Part 1	

Figure 6.8: Feature Parking Lot

Idea	Date Added	Value to Us	Why
Engine automation at scale	January 12	Might be able to capture the vertical we keep talking about	No one else does this
Cloud-based search	February 2	??	Danny, CTO, wants us to do this
Calendar integration	June 15	Need to integrate calendar and email at some point	Customers have been requesting this

Figure 6.9: Eric Ries' Build-Measure-Learn Feedback Loop

Eric Ries's Build-Measure-Learn Feedback Loop

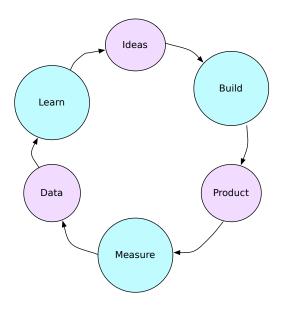


Figure 7.1 Cost of Delay

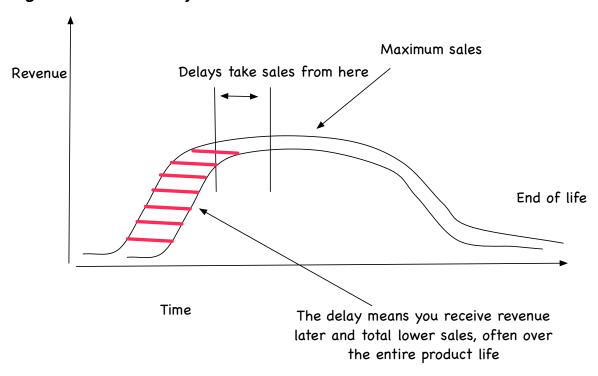
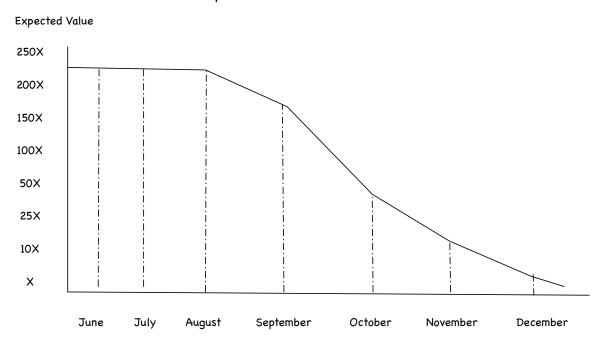


Figure 7.2: Expected Value Over Time

## Expected Value Over Time



Date

Figure 8.1: Scrum Board

## Scrum Board

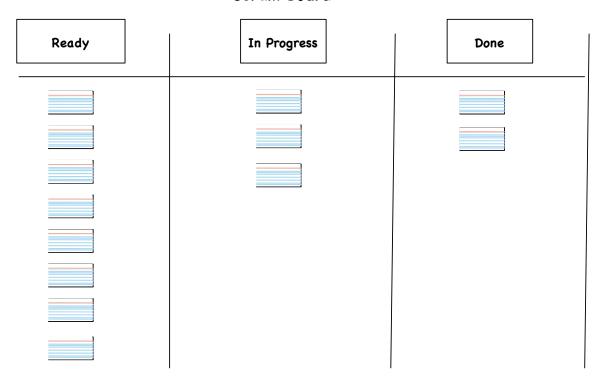


Figure 8.2: "ScrumFlow" Board

# "ScrumFlow" Board

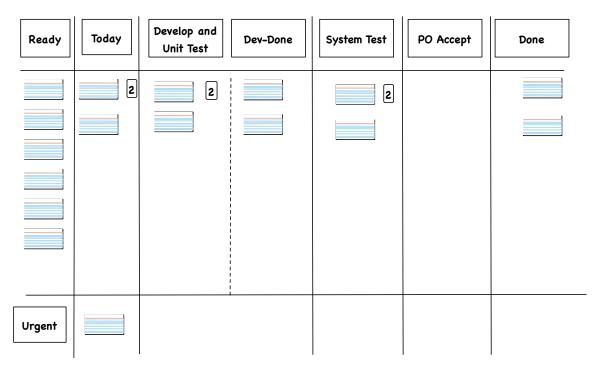


Figure 8.3: Possible Kanban Board

#### Possible Kanban Board

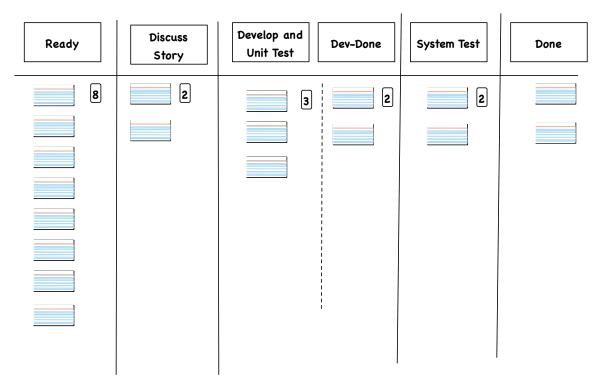


Figure 8.4: (Overloaded) Scrum Board

# (Overloaded) Scrum Board

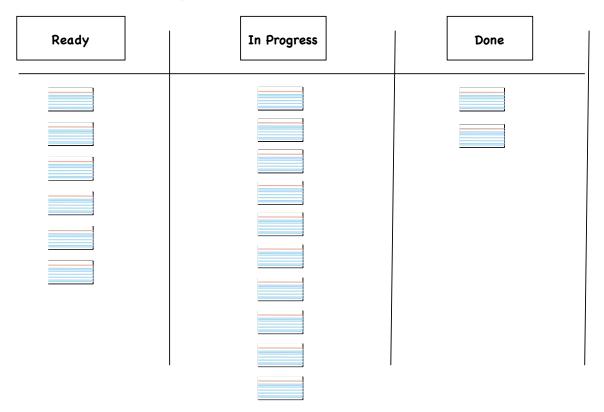


Figure 8.5: Overloaded/Full Kanban Board

## Overloaded/Full Kanban Board

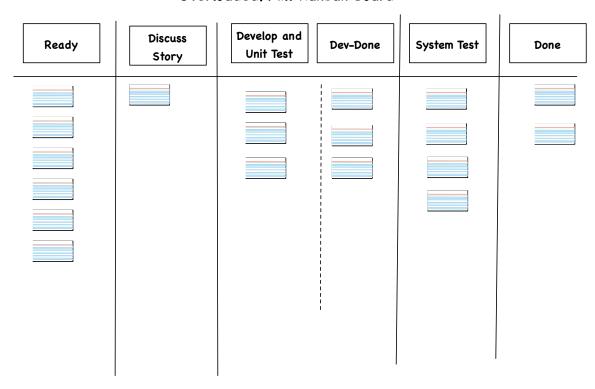


Figure 8.6: Possible Kanban Board

#### Possible Kanban Board

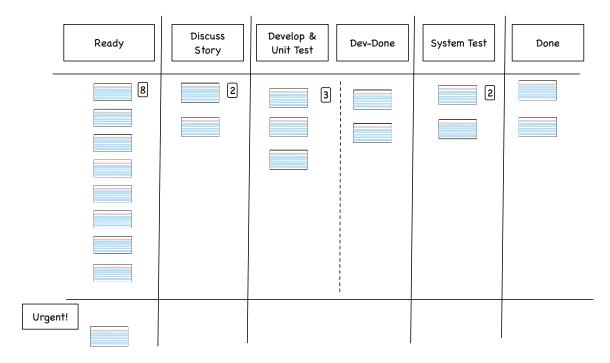


Figure 8.7: Risk/Problem/Obstacle Board

## Risk/Problem/Obstacle Board

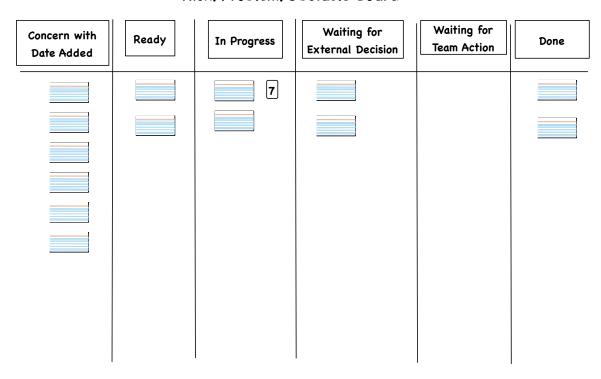
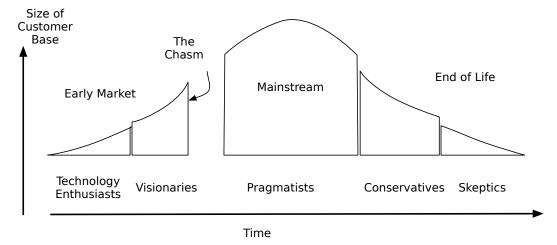


Figure 9.1: Quality over Product Lifetime



What Customers Care About at Different Times:

Enthusiasts:	Visionaries:	Pragmatists:	Conservatives:	Skeptics:
1. Time to Release 2. Low Defects 3. More Features	1. Time to Release 2. More Features 3. Low Defects	2. Time to Release	Low Defects     More Features     Time to Release	Low Defects     More Features     Time to Release

Figure 9.2: Initial Agile Practice Chart

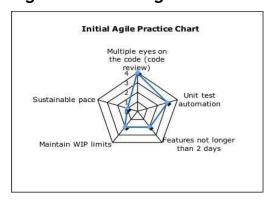


Figure 9.3: Agile Practice Chart Three Months Later

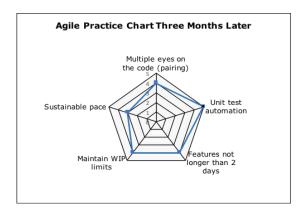


Figure 10.1: How to Use Cycle Time for Estimation

How to Use Cycle Time for Estimation

Story	Story Start Day	Story End Day	Story Duration
1	Day 1	Day 3	2 days
2	Day 3	Day 4	1 day
3	Day 4	Day 6	3 days
4	Day 7	Day 8	2 days
5	Day 8	Day 10	2 days
Totals:			
5 Stories	10 days	Average Cycle Time:	2.4 days

Figure 10.2: One Team's Varying Cycle Time

One Team's Varying Cycle Time

Story	Story Start Day	Story End Day	Story Duration
1	Day 1	Day 3	2 days
2	Day 3	Day 7	4 days
3	Day 7	Day 15	8 days
4	Day 15	Day 16	1 day
5	Day 16	Day 19	3 days
Totals:			
5 Stories 19 days		Average Cycle Time:	3.6 days

Figure 10.3: One Team's Project Estimate

One Team's Project Estimate

Feature Set	# Stories	Relative Estimate for Stories	Total Story Estimate	Confidence Level
1	16	2 or 3 for each story	40	High
2	8	1	8	High
3	12	2 or 3 for each story	30	High
4	15	5 or 8?	120	Medium
5	12	13?	156	Low
Totals:				
5 Feature Sets	63 Stories	Unclear	354 points	Medium

Figure 12.1: Burndown Chart

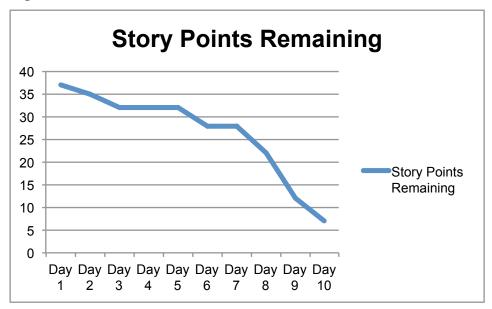


Figure 12.2: Burndown Chart with Ideal Line

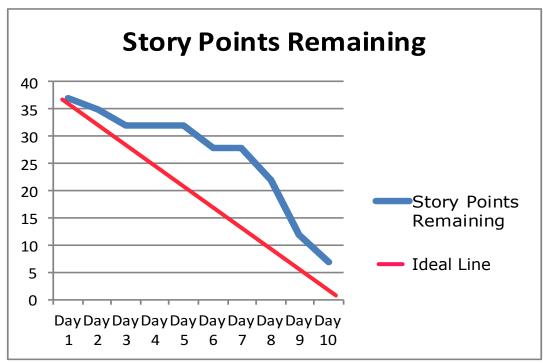


Figure 12.3: Burnup Chart

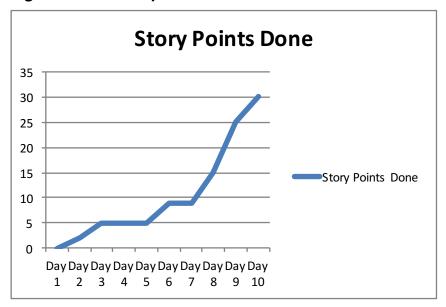


Figure 12.4: Burnup with Ideal Line

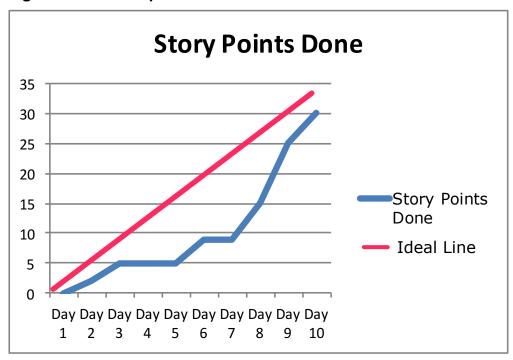


Figure 12.5: Cumulative Story Points Completed: Hockey Stick

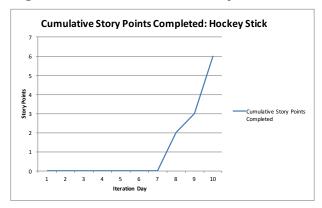


Figure 12.6: Cumulative Story Points Completed: Steady Progress

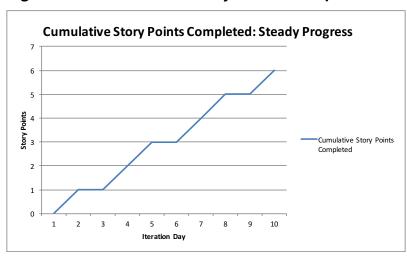


Figure 12.7: Hockey Stick: story Points vs. Stories Completed

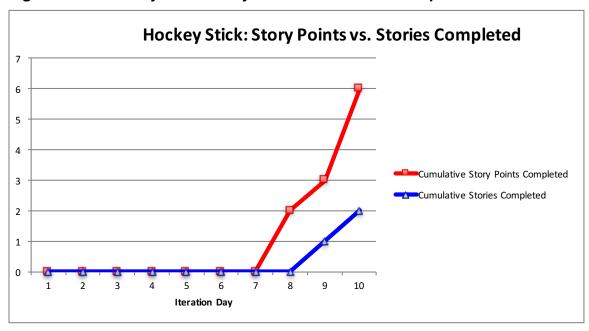


Figure 12.8: Steady Progress: Story Points vs. Stories Completed

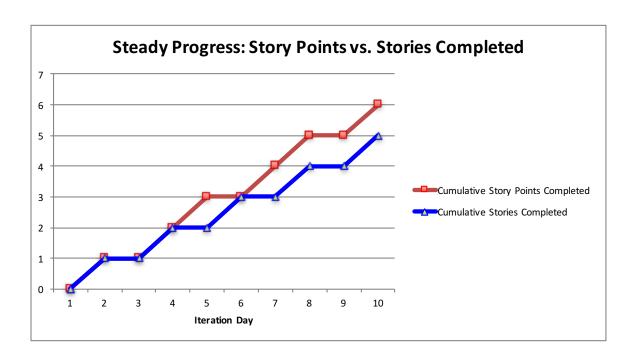


Figure 12.9: Iteration Contents

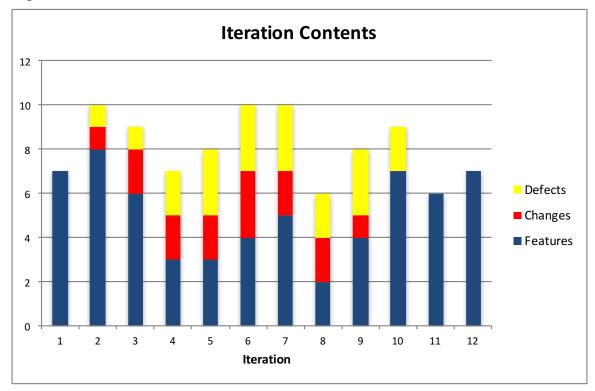
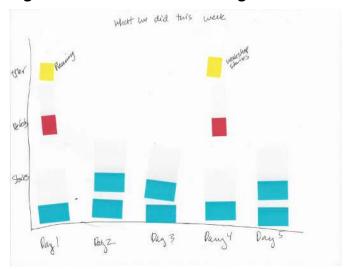
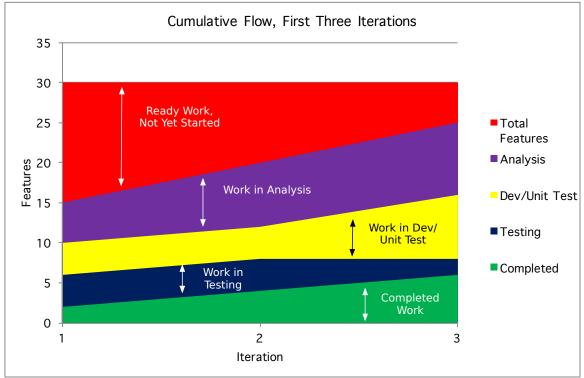


Figure 12.10: Hand-Drawn Progress Chart









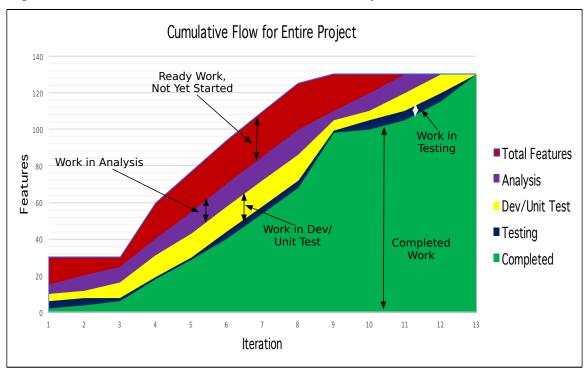


Figure 12.13: Difference between lead time and cycle time

#### Possible Kanban Board

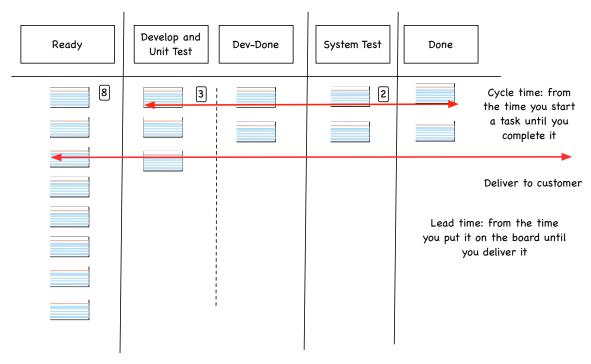


Figure 12.14: How One Team Tracked Its Progress Through Their Board

Team 1 Kanban Board

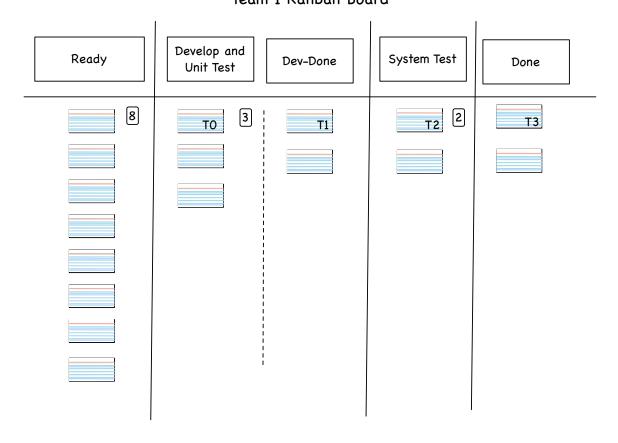
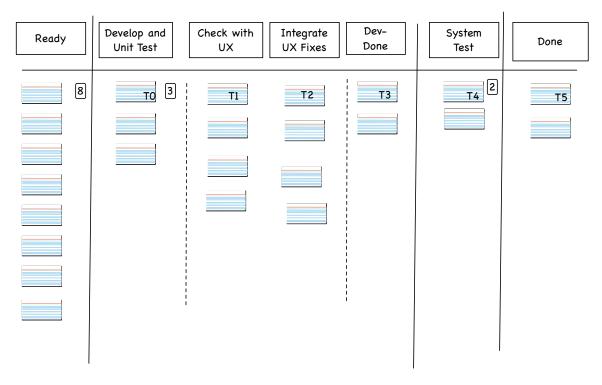


Figure 12:15: That Team's Cycle Time for One Iteration
One Team's Cycle Time, One Iteration

Story	Duration		
Story 1	1 Day		
Story 2	2 Days		
Story 3	3 Days		
Story 4	3 Days		
Story 5	Started, not done		
Story 6	Started, not done		
Story 7	Not started, not done		
Story 8	Not started, not done		

Figure 12.16: Updated Board, Showing Dependencies

Team 1 Kanban Board



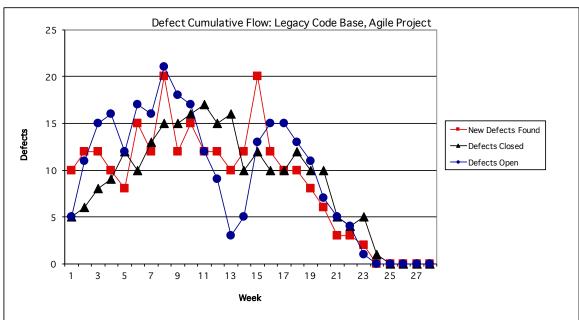


Figure 12.17 Defect Cumulative Flow, Line Chart



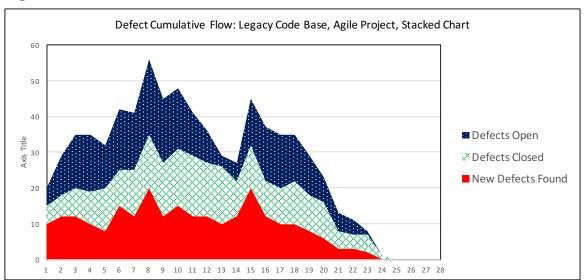


Figure 13.1: Single-Loop Learning

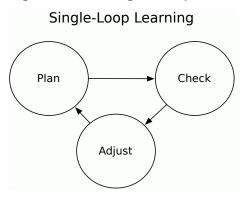


Figure 13.2: Double-Loop Learning

Double-Loop Learning

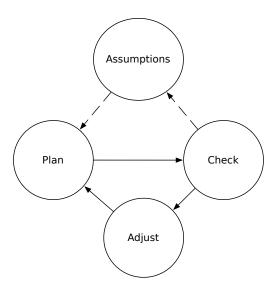


Figure 13.3: Possible Improvement Parking Lot

Idea	Date Added	Value to Us	Notes	Progress	
Figure out how to build learning into our normal week.	Feb. 10	We would have time to learn.	We are so full of WIP and new work we don't seem to have time to do this. If not started by Aug. 10 (six months) do something different.	Goal: Some kind of learning every week	
Smoke test automation from API.			Goal: For all new features, another 10% every two weeks		
Full system test automation from API.	May 2	We would have support for frequent changes.	Start with engine, add email, admin ASAP.	Goal: For all new features, another 10% every two weeks	
Mob.	Mob. June 15 Improve throughput?		Mary to learn and explain.	None yet.	
Track cycle time as well as velocity.			Just talking about it made some progress.	Need to change board. Tool doesn't allow us to do both.	

## Figure 13.4: ROTI Ratings

## **ROTI** Ratings

- 0: No benefit received for time invested.
- 1: A little better than 0. Some benefit, but not commensurate with time invested.
- 2: Value received equal to time invested.
- 3: A little better than even return.
- 4: High benefit. Value received greater than time invested.

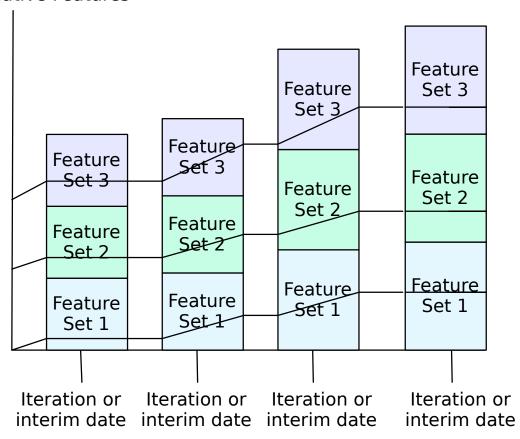
Figure 13.5: ROTI Histogram

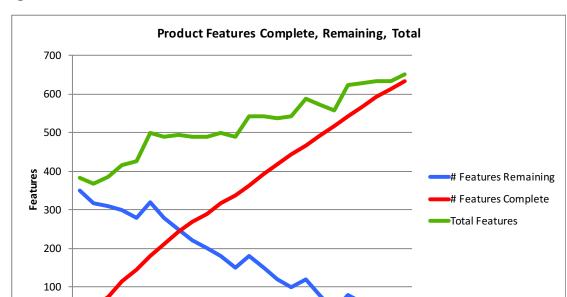
# **ROTI Histogram**

Figure 14.1: Product Backlog Burnup Chart

# Product Backlog Burnup Chart

#### **Cumulative Features**





Time

Figure 14.2: Product Features Chart

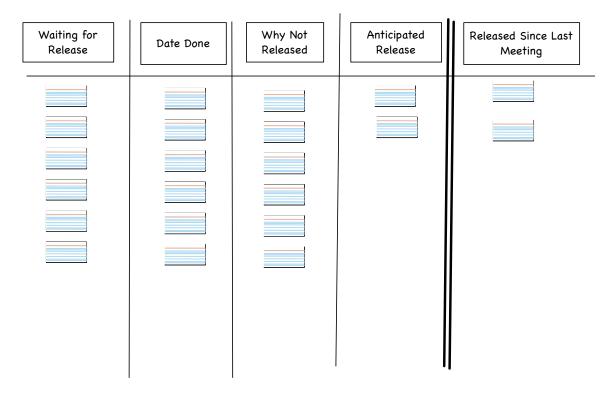
Figure 14.3: Other Requests to the Team

0

Day	Number of Requests	Individual or Team?	Notes	
Day 1	2	Individual and team	Sandy for Project B and the team for support	
Day 2	1	Individual	Sandy for Project B	
Day 5	5	Individual	Each person for a different project	
Day 6	2	Individual	Sandy for Project B again	
Day 8	1	Individual	Sandy for Project B again	

Figure 14.4: Work That's Done and Not Yet Released

#### Work That's Done and Not Yet Released



T0: Item selected

Figure 14.5: Organizational Lead and Cycle Time

## Organizational Lead and Cycle Time

for organization T1: On a team's backlog T2: Some people on team 1 start to work on it T3: Other people work on it T4: Everyone agrees it's done T5: Release to consumers **T1** Т3 **T4** T0 **T5** Time Cycle Time **Lead Time** 

Figure 14.6: Calculating the Cost of Delay for Each of Three Features

Feature	Estimated Duration Estimated Value		CD3
Feature 1	2 weeks	\$5,000	\$5,000/2=\$2,500/week
Feature 2	5 weeks	\$10,000	\$10,000/5=\$2,000/week
Feature 3	8 weeks to an MVP	\$100,000	\$100,000/8=\$12,500/week

Figure 15.1: Possible Work Group (Support) Kanban with WIP Limits

Tickets	Ready for Ranking	Ready to Start	In Progress	Escalate to R&D	Escalate to Product Mgmt	Test	Deploy	Done
			3	3		2	2	
Urgent Queue								

Figure 15.2: Possible Kanban Board for Functional Team, Such as HR

Possible Kanban for a Functional Team, Such as HR

Ranked Backlog		Action Item	Risk Management or Mitigation	Decision Needed Post-Action	Waiting: Stuck Items	Done
	Item and date started. Who is working the item.	Resolution				
Recruiting		 				
Benefits		 				
Performance		 				

Ranked In Progress Risk Decision Needed Waiting: Done Backlog Management Post-Action Stuck Items or Action Item Action Item Mitigation Analysis Resolution Item and date started. Who is working the item. Facilities Issues HR Issues Compensation **Issues** Internal Prod. Dev't Issues

Figure 15.3: Possible Management Kanban Board

Figure 16.1: Resource Efficiency

Resource Efficiency

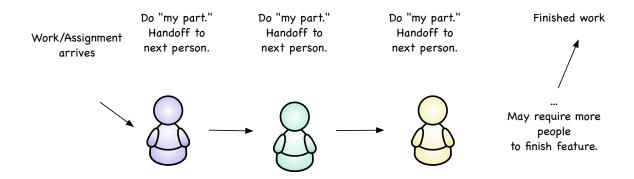
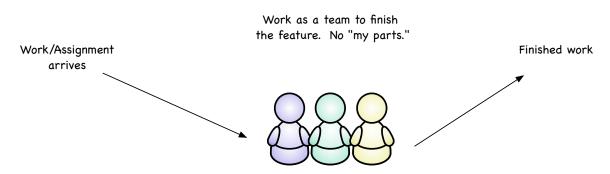


Figure 16.2: Flow Efficiency

### Flow Efficiency



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