

Strategies for Portfolio Management Agile 2011 August 9, 2011 Salt Lake City, Utah by Kenny Rubin

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Background of Kenny Rubin

Author



Trainer/Coach

Trained more than 16,000 people in Agile/Scrum, SW dev and PM

Provide Agile/ Scrum coaching to developers and executives



Experience



Where Does Portfolio Management



Portfolio Management Strategies



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Discussion Questions – Scheduling/Prioritization Variables

When prioritizing your portfolio, what are the principal variables that you use?

How do you compare variables to make economically sensible tradeoffs?



K Focus on Lifecycle Profits

- Reasonable measure of business performance
- Provides common unit for comparing effects of key variables

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Source: Donald Reinertsen

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Discussion Question – Cost of Delay

If you delay shipping your current project/ product one month, what would be the cost of that delay (in lifecycle profits)?





* Which project should we do first?

	Project A	Project B
Return on Investment	20%	15%
Cost of Delay (1 month)	\$5,000	\$75,000

₩ Why?

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Discussion Question – Accuracy Versus Precision

Scenario:

- Organization does nine-month release cycles
- * 100 candidate applications for each release cycle
- Marketing asks IT to produce LOEs (level of effort estimates) for all applications
- IT spends considerable time trying to make each LOE very precise
- Oh yeah, the organization will only include 50 projects in next release

- $\pi = 3.1$
- π = 3.1415926535897 932384626433832 795028841971693

What are your thoughts on this scenario?



Effort Versus Accuracy When Estimating



T-shirt Size Estimating

Size	Rough Cost Range
Extra Small (XS)	\$10k to \$25k
Small (S)	\$25k to \$50k
Medium (M)	\$50k to \$125k
Large (L)	\$125k to \$350k
Extra Large (XL)	>\$350k



Discussion Question – Arrival Rate

What is the effect on a restaurant if a tour bus of hungry patrons unexpectedly arrives at dinner time?







Annual Strategic Planning

- An annual strategic planning event will be highly disruptive to flow
 - Drop all projects for the next year into the portfolio at the same time
- What would you do to solve this problem?





Discussion Questions – Emergent Opportunities

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How quickly are you able to exploit an emergent opportunity?

How disruptive are such opportunities to your portfolio-management process?





- Emergent opportunities arrive continuously and randomly
- * They are perishable their values decay over time (frequently exponentially)





Discussion Questions – Project Sizes

How does project size affect overall portfolio performance?

What happens if you get behind the large farm vehicle on a single lane country road?

How do the lifecycle profits of a product compare between one large release and multiple, smaller releases?





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% Multiple Releases



Evaluating Return on Single Release Strategy

- Feature Value:
 - # All features = \$300K/month
 - # 1/2 features = \$200k/month
 - # 1/3 features = \$150k/month
- Features begin earning money 1 month after release
- # Each month of development costs \$100K
- # Each release costs \$100K



Annual Release Return on Investment

Example based on prior work by Jeff Patton

Single Release

12 months

Evaluating Return on Semi Annual Release Strategy

Feature Value:



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Evaluating Return on Quarterly Release Strategy

- Feature Value:
 - All features = \$300K/month
 - # 1/2 features = \$200k/month
 - # 1/3 features = \$150k/month
- Features begin earning money 1 month after release
- # Each month of development costs \$100K
- # Each release costs \$100K





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Discussion Question – Addressing Available Capacity

We have started working on projects in our portfolio, but we have some team members who are not yet at 100% capacity. Should we start more projects from the portfolio to get them to 100% capacity?

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Focus on Idle Work Not Idle Workers

Watch the Baton Not the Runners[†]





Discussion Question – WIP Limit

Why should a good restaurateur not seat paying customers at an available table if 30% of the servers called in sick that evening?



What is a WIP Limit?

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- A work-in-process (WIP) limit would dictate how many projects we are willing to have in-flight at the same time
- The goal is to match WIP with available capacity









Wait Until Complete Team is Available

- Don't start a new project with a partial team
- Wait until you have at least one full team
- Preferably wait until you have all necessary teams



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