

Strategies for Portfolio Management Agile 2012 Grapevine, TX August 14, 2012 by Kenny Rubin

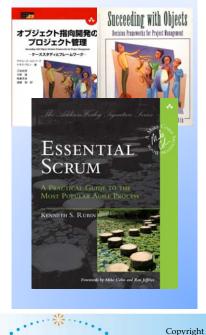
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Background of Kenny Rubin

Author



Trainer/Coach

Trained more than 18,000 people in Agile/Scrum, SW dev and PM

Provide Agile/ Scrum coaching to developers and executives

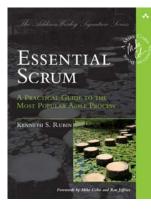


Experience



🔆 Book Giveaway

At end of presentation I will give away two copies of the Essential Scrum Book



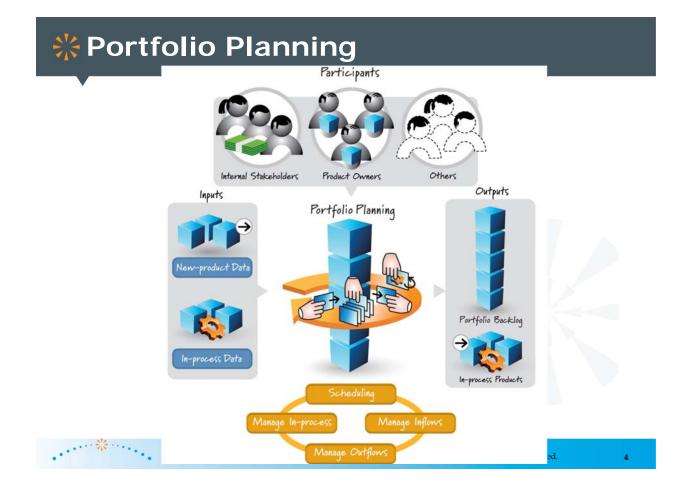
One to the person with the best tweet of session-relevant content

One to the most prolific tweeter of session-relevant content

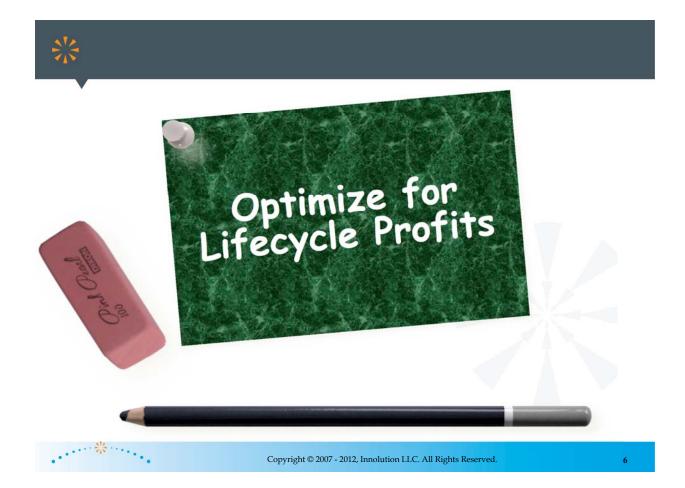
Must include: @krubinagile and #agile2012 in each tweet



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Portfolio Planning Strategies Scheduling Portfolio backlog Inflows Outflows Product A Product B Product C Emergent opportunities Product D -omplete engaged teams Smaller, more frequent releases * rved. 5 In-process



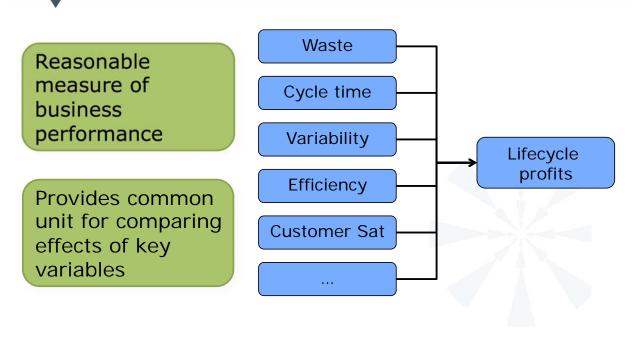
Discussion Questions – Scheduling/Prioritization Variables

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

How do you compare variables to make economically sensible tradeoffs?



***** Focus on Lifecycle Profits



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Source: Donald Reinertsen



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Portfolio backlog Product A Product B Product C Product C Product C Product C Product C Product C Product B Product B

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Discussion Question –

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



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% Issues with Cost of Delay

Rarely quantified (<15% of the time)

Helps us decide if we should trade money for cycle time

Helps us decide if we should trade cycle time for variability

*

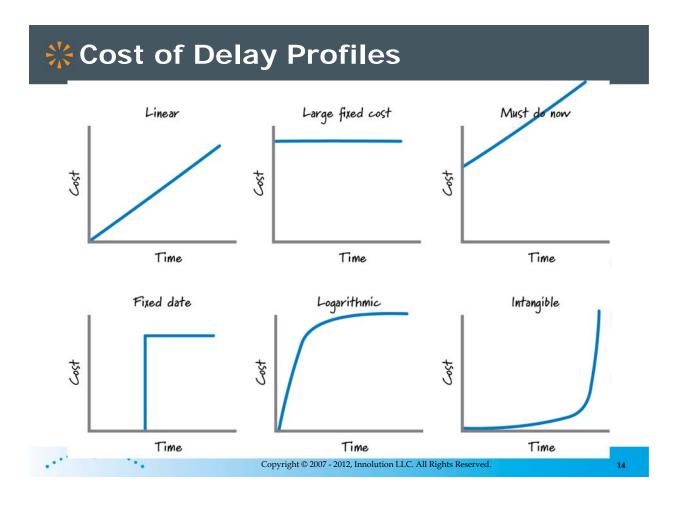
* Which project should we do first?

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

* Why?

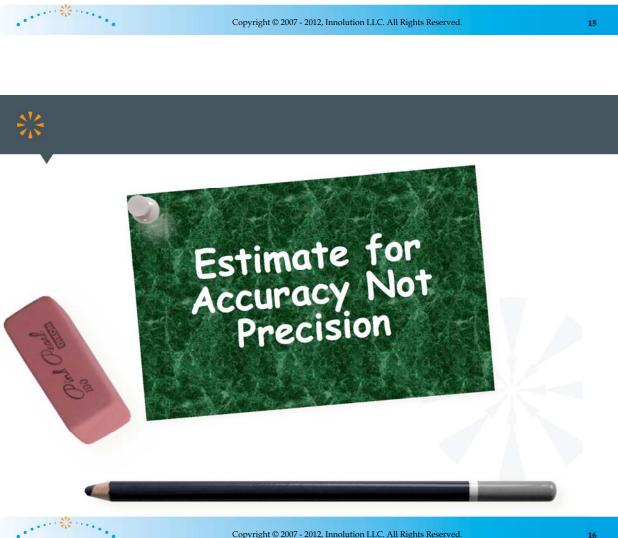


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Cost of delay is not the only factor to consider when prioritizing items in the portfolio

It is the time dimension that must be considered because it affects all other prioritization variables such as cost, benefit, knowledge, and risk



$\begin{array}{l} & \underset{\text{Curacy Versus Precision}{\leftarrow} \\ & \underset{\text{Curacy Versus Precision}}{\leftarrow} \\ & \underset{\text$

include 50 projects in next release

What are your thoughts on this scenario?

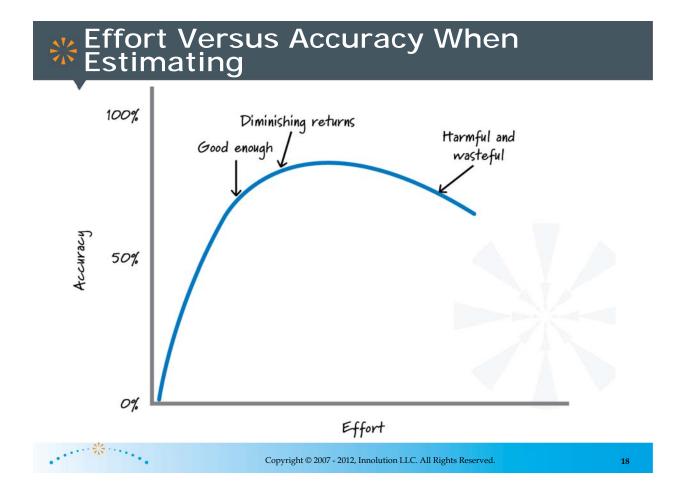
(level of effort estimates) for all

IT spends considerable time trying to make each LOE very precise
Oh yeah, the organization will only

applications

*

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* 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

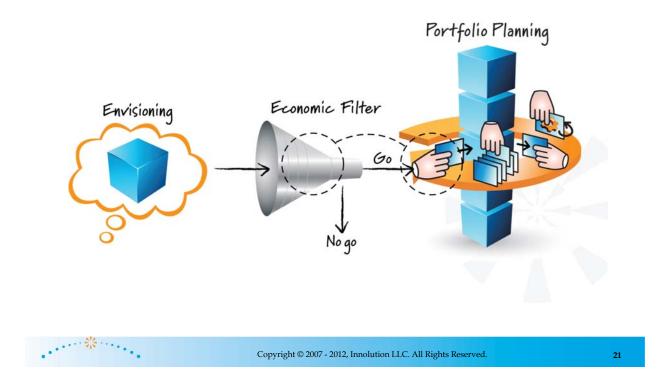
(an example)



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Applying the Economic Filter



Discussion Question – Economic Filtering

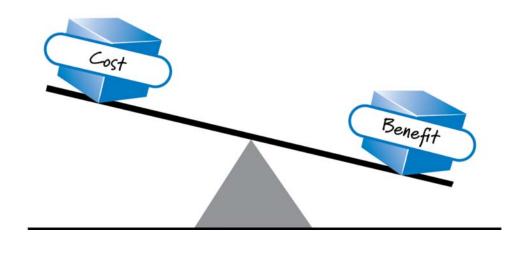
Scenario

- A company is trying to decide if a development effort should be approved
- * They are debating whether it will cost \$70k or \$75k. Apparently at \$70k it would be approved, at \$75k it would not

What is your assessment of this situation?



Simple Economic Filter—Benefit Should Far Exceed Cost





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Discussion Question – Arrival Rate

What happens to a restaurant if a tour bus of hungry seniors unexpectedly arrives at dinner time?

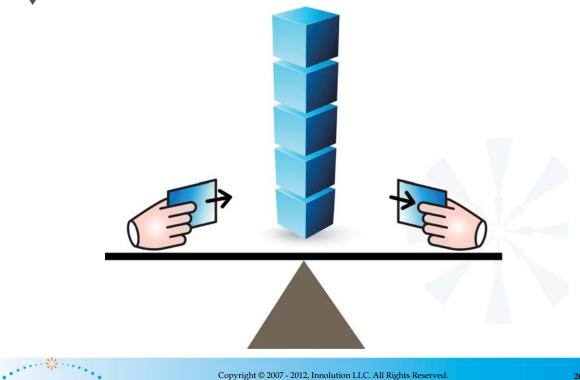


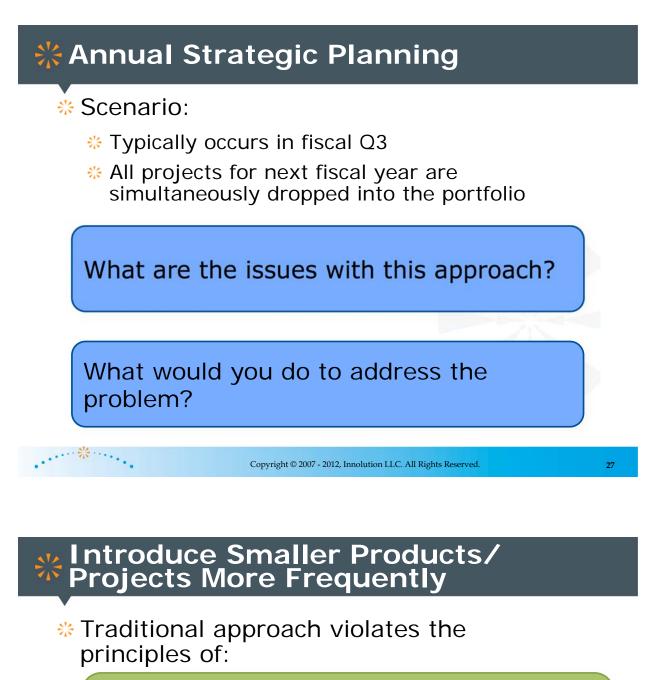
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Want To Balance Portfolio Inflow and Outflow Rates



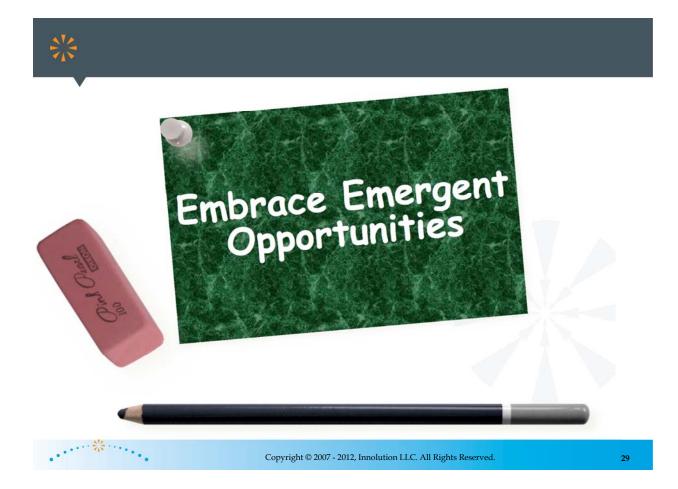


Keeping planning options open until the last responsible moment

Using economically sensible bath sizes

***** Addressed by:

Introducing smaller products to the portfolio on a more frequent basis



Discussion Questions – Emergent Opportunities

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How quickly are you able to exploit an emergent opportunity?

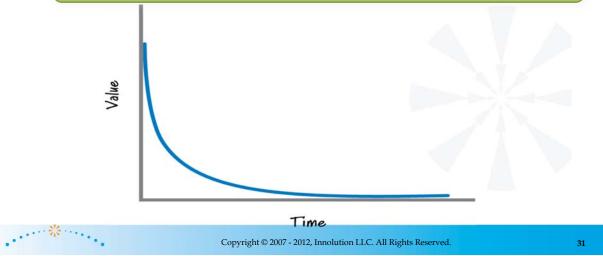
How disruptive are such opportunities to your portfolio-management process?



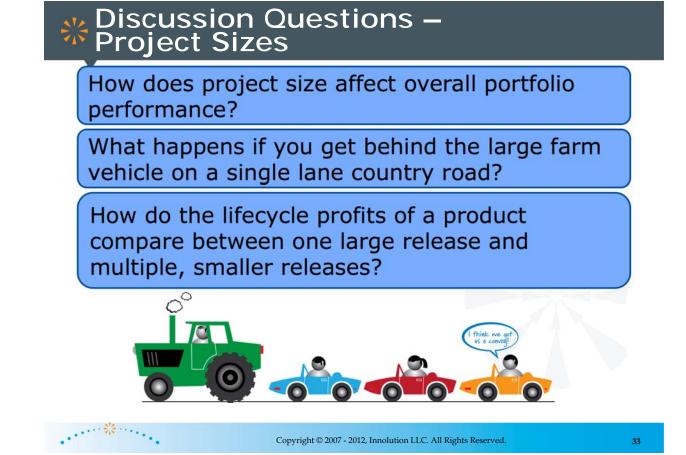
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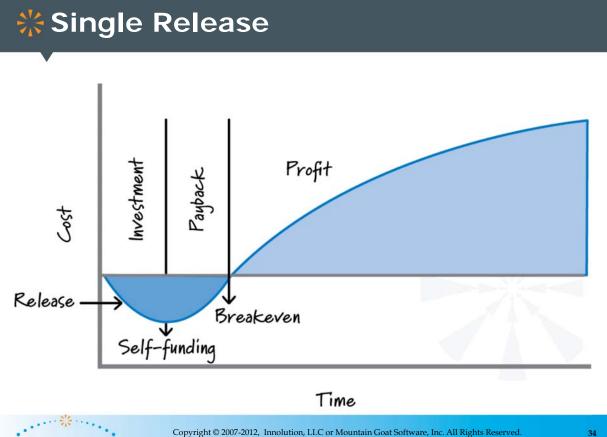
Emergent opportunities arrive continuously and randomly

They are perishable—their values decay over time (frequently exponentially)

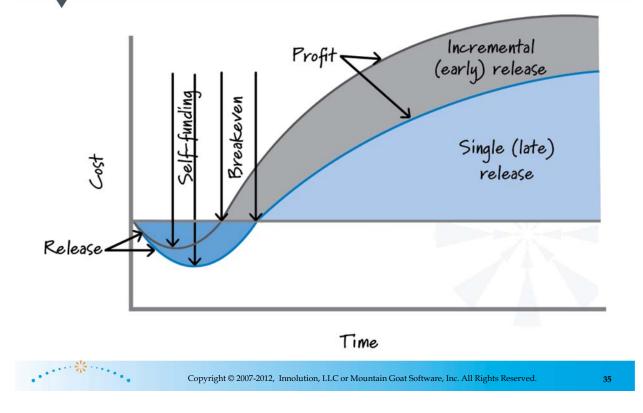








* Multiple Releases



Evaluating Return on Single Release Strategy

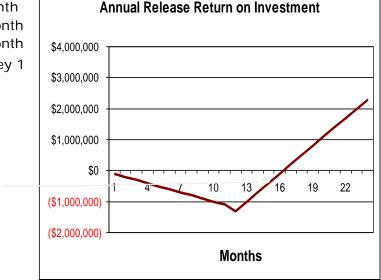
- Feature Value:
 - # All features = \$300K/month
 - # 1/2 features = \$200k/month

total cost: \$1.3 M

total 2 year return: <u>\$3.6 M</u> net 2 year return: **\$2.3 M**

Cash Investment: \$1.3 M Internal Rate of Return: **9.1%**

- # 1/3 features = \$150k/month
- Features begin earning money 1 month after release
- Each month of development costs \$100K
- Each release costs \$100K



Example based on prior work by Jeff Patton

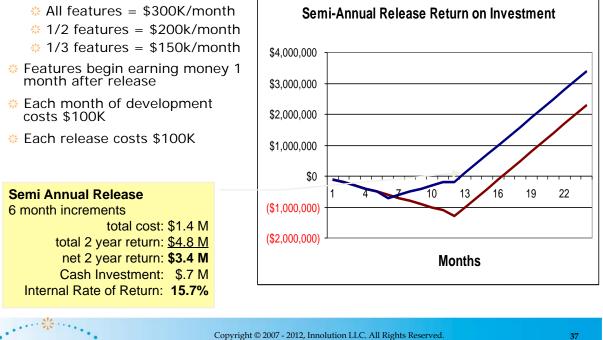


Single Release

12 months

Evaluating Return on Semi Annual Release Strategy

Feature Value:



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Evaluating Return on Quarterly Release Strategy

Feature Value:

\$<u>|</u>\$

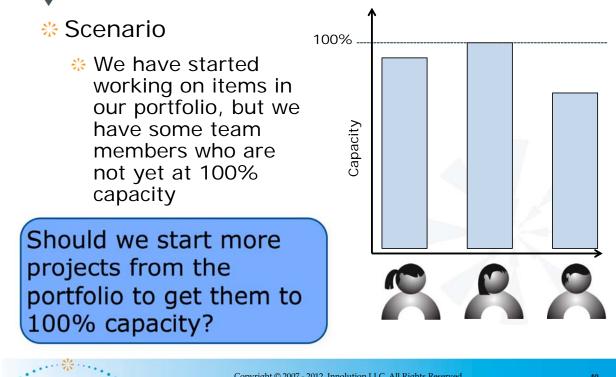
- All features = \$300K/month
- # 1/2 features = \$200k/month
- # 1/3 features = \$150k/month
- Features begin earning money 1 month after release
- Each month of development costs \$100K
- # Each release costs \$100K





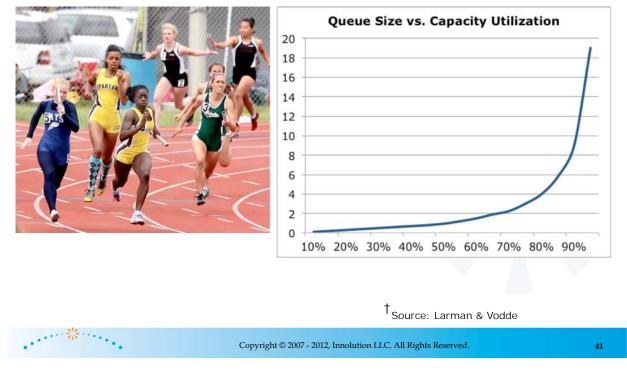


Discussion Question – Addressing Available Capacity



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?



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What is a WIP Limit?

A work-in-process (WIP) limit would state how many projects we are willing to have active at the same time

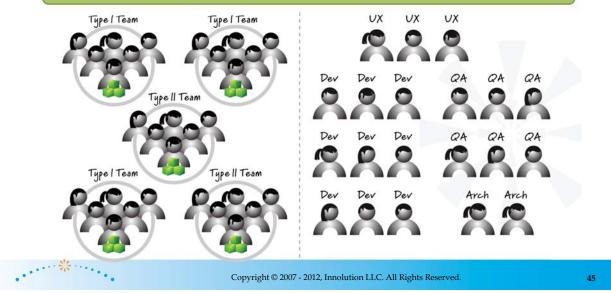
Goal is to match WIP with available capacity

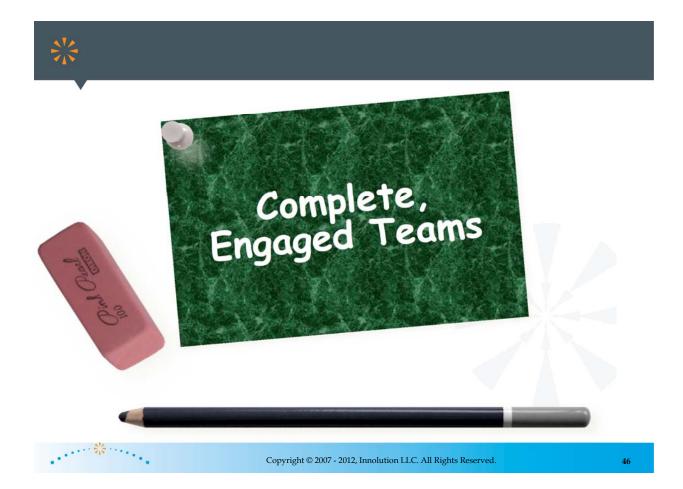


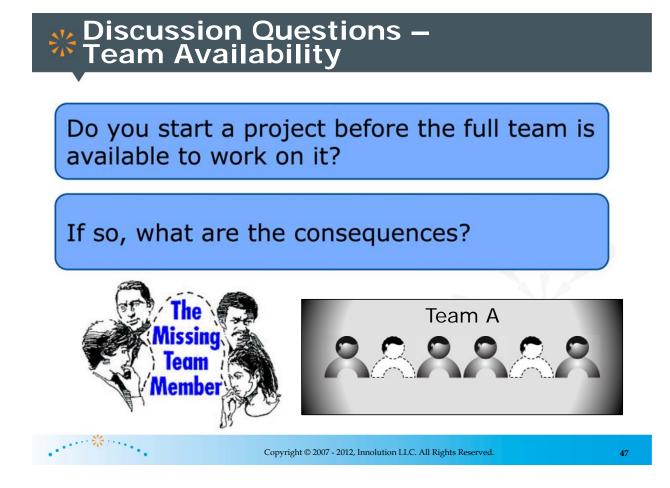
In Agile Portfolio Management, the Unit of Capacity is the Team

We favor long-lived teams that as a unit have a known capacity to deliver value

Determine capacity in terms of teams







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

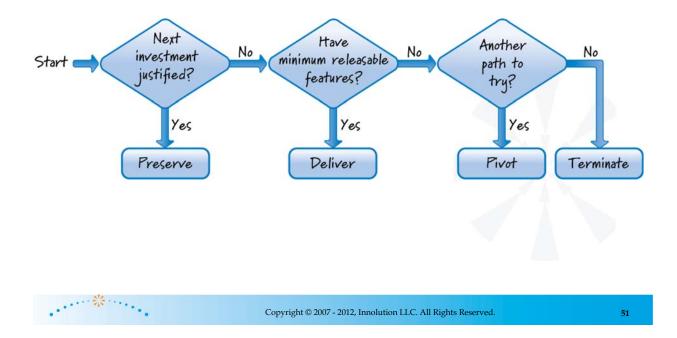
Preferably wait until you have all necessary teams

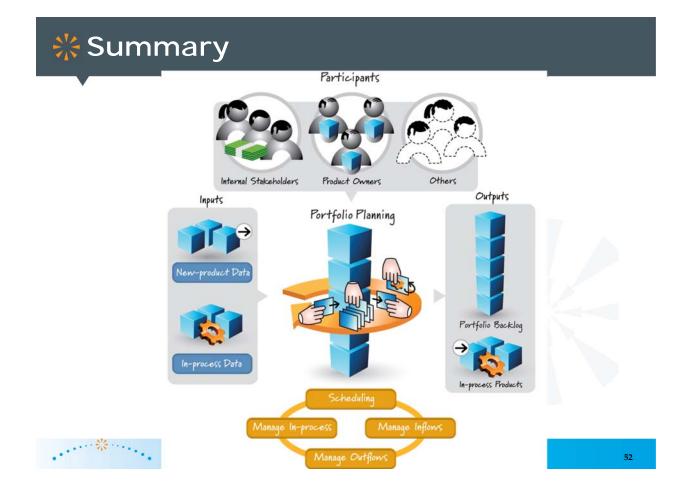


Discussion Question – Would You Keep Spending?

If you spend the first dollar on developing a product, is there any circumstance under which you would terminate development?

Marginal Economics





Based on Chapter 16 of the Book Essential Scrum, by Kenny Rubin

Chapter 16 PORTFOLIO PLANNING

Most organizations want or need to produce more than one product at a time. These multiproduct organizations need a way to make economically sound choices regarding how to manage their product portfolios. They also need their portfolio management or governance processes to align well with core agile practices; otherwise, there will be a fundamental disconnect with the agile approach being used at the individual product level. This chapter lays out 11 strategies for portfolio planning, grouped by scheduling, product inflow, and product outflow. It ends with a discussion of how to determine whether or not more work should be invested in in-process products.

Overview

Portfolio planning (or portfolio management) is an activity for determining which portfolio backlog items to work on, in which order, and for how long. A portfolio backlog item can be a product, a product increment (one release of a product), or a project (if your organization prefers to plan work around projects). In this chapter I use the word *product* generically to mean all types of portfolio backlog items.

In my experience, most organizations (agile or otherwise) do a very poor job of portfolio-level planning. Many have portfolio-level planning processes that are fundamentally at odds with core agile principles. When this happens, decisions are made at the portfolio level that disrupt the fast, flexible flow of work. In this chapter I discuss how to avoid this disconnect by performing portfolio planning in a manner that is well aligned with core agile principles.

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Comparative Agility Website	www.comparativeagility.com	

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