

Strategies for Portfolio Management Scrum Australia April 11, 2013 by Kenny Rubin

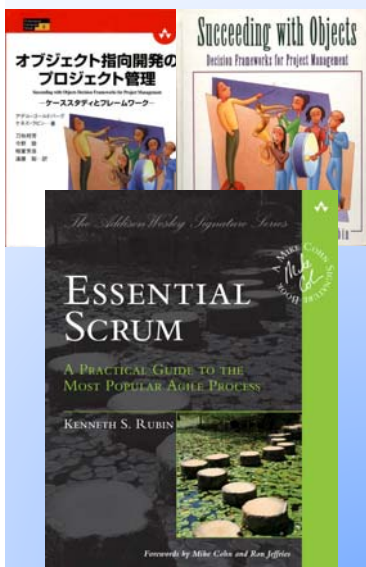
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Background of Kenny Rubin

Author



Trainer/Coach

Trained more than **19,000** people in Agile/Scrum, SW dev and PM

Provide Agile/Scrum coaching to developers and executives



Experience

Former Managing Director



My first Scrum project was in 2000 for bioinformatics

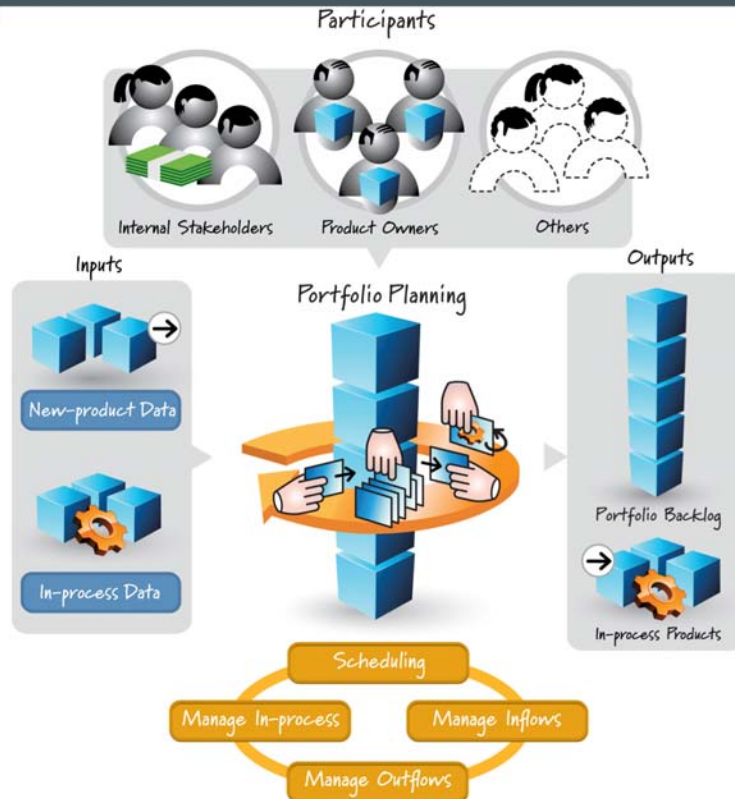
GENOMICA



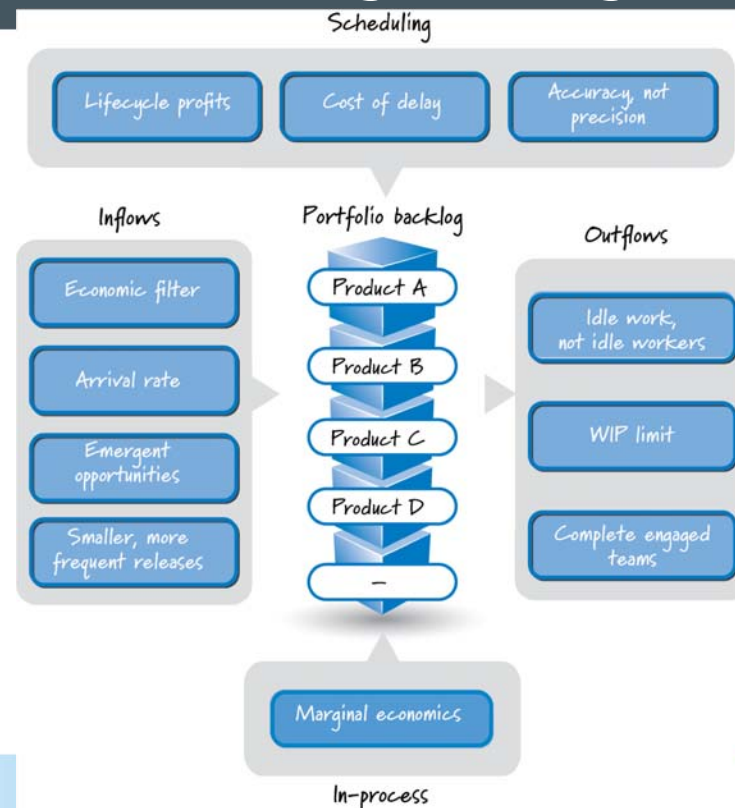
Executive



Portfolio Planning



Portfolio Planning Strategies





Discussion Questions – Scheduling/Prioritization Variables

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

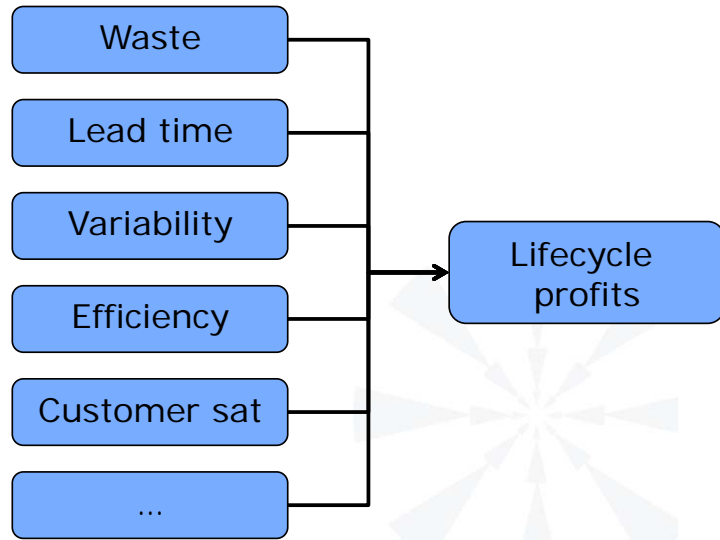
How do you compare variables to make economically sensible tradeoffs?



Focus on Lifecycle Profits

Reasonable measure of business performance

Provides common unit for comparing effects of key variables

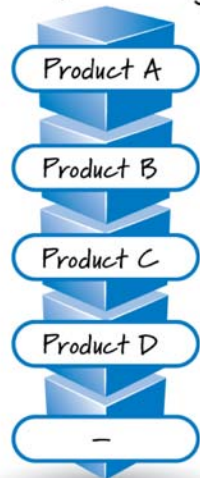


Source: Donald Reinertsen



Order Portfolio to Maximize Portfolio-Wide Lifecycle Profits

Portfolio backlog



Portfolio Lifecycle Profit = X

Portfolio backlog



Portfolio Lifecycle Profit = 3X





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)?



✦ 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



✦ Cost of Delay Example

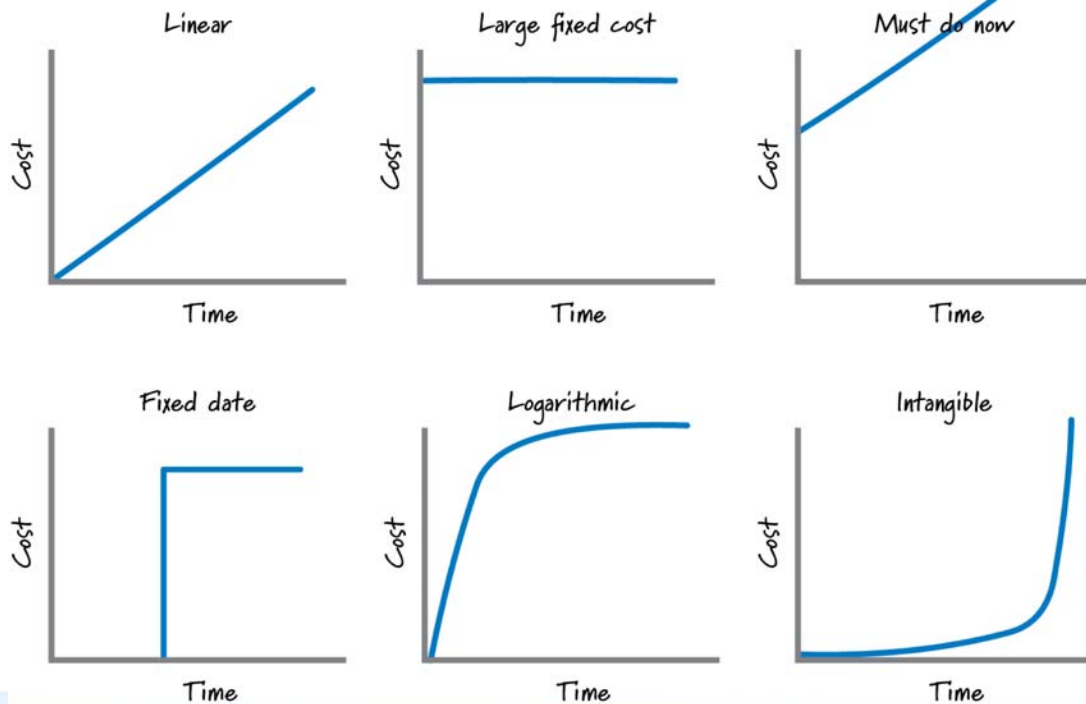
✦ Which project should we do first?

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

✦ Why?



Cost of Delay Profiles



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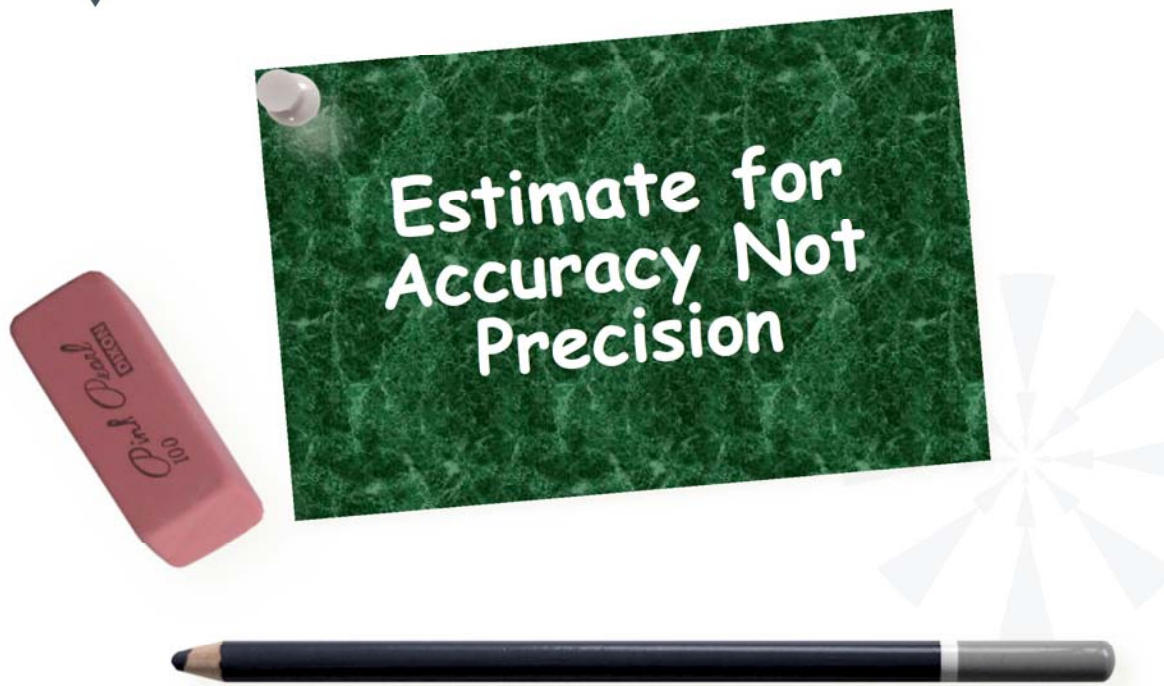
Cost of Delay is the Time Dimension

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

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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



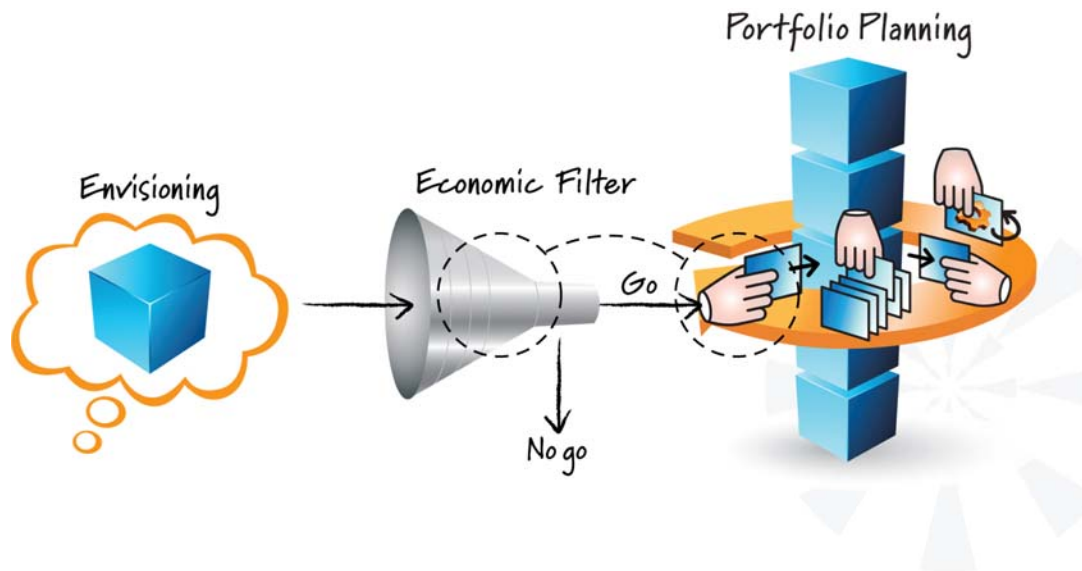
T-shirt Size Estimating

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)



✱ Applying the Economic Filter



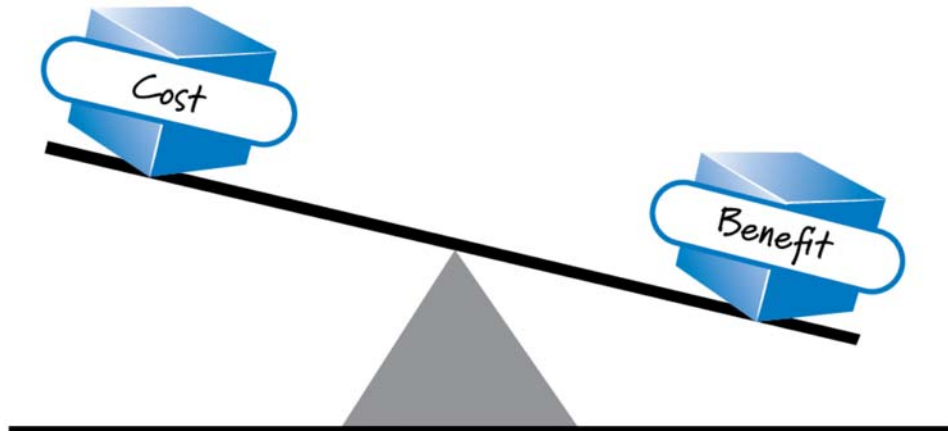
✱ Economic Filtering

✱ 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



Simple Economic Filter—Benefit Should Far Exceed Cost



Discussion Question – Arrival Rate

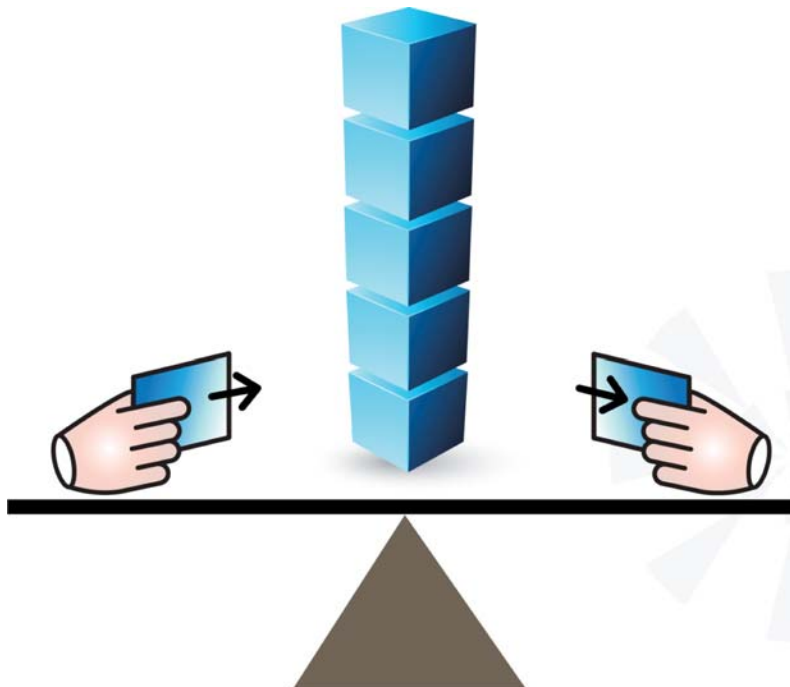
What happens to a restaurant if a tour bus of hungry seniors unexpectedly arrives at dinner time?



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Want To Balance Portfolio Inflow and Outflow Rates



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Annual Strategic Planning

Scenario:

- Typically occurs in fiscal Q3
- All projects for next fiscal year are simultaneously dropped into the portfolio

What are the issues with this approach?

What would you do to address the problem?



Introduce Smaller Products/ Projects More Frequently

Traditional approach violates the principles of:

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





Questions – Emergent Opportunities

How quickly are you able to exploit an emergent opportunity?

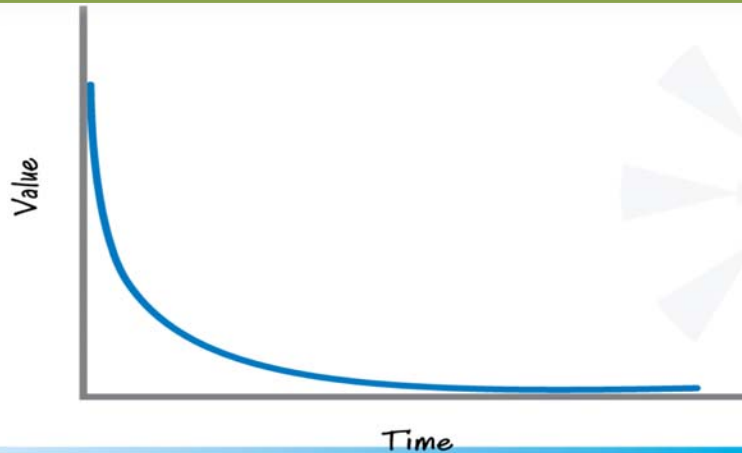
How disruptive are such opportunities to your portfolio-management process?



Deal with Emergent Opportunities Quickly

Emergent opportunities arrive continuously and randomly

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



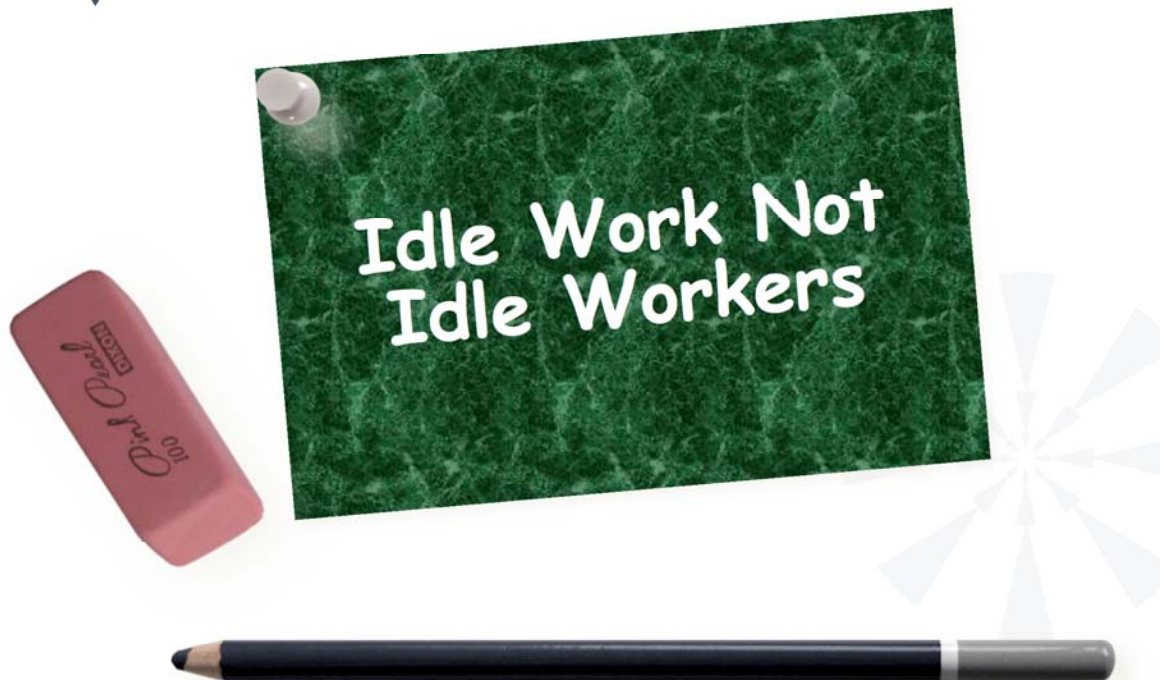
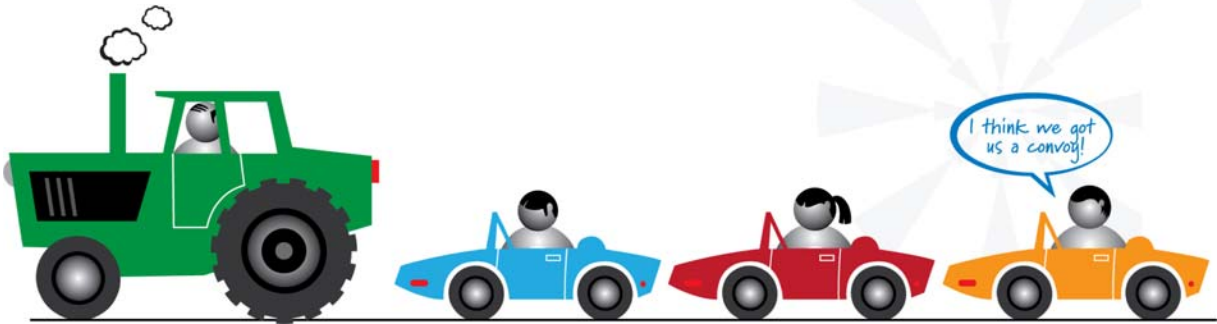
Smaller More
Frequent Releases



☀ 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?

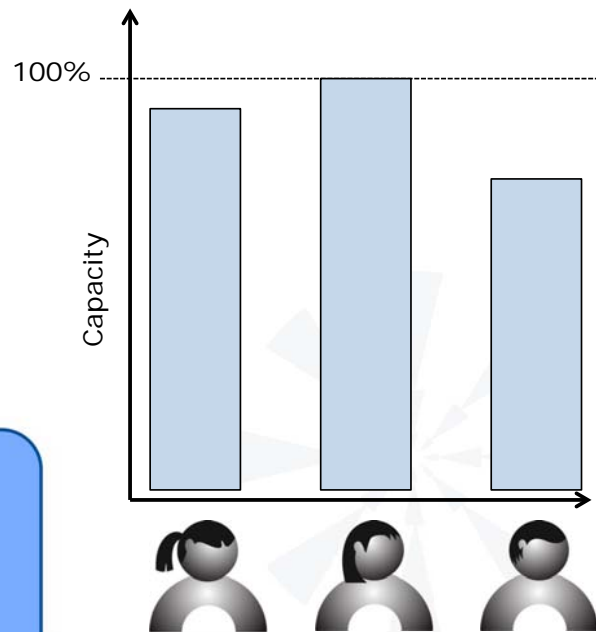


Discussion Question – Addressing Available Capacity

Scenario

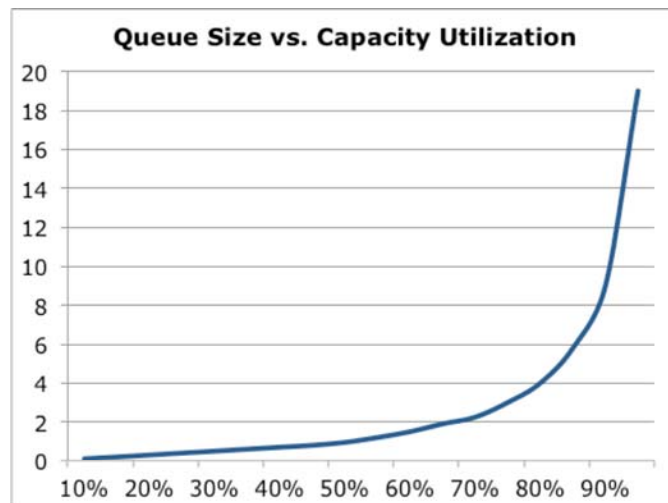
- We have started working on items in our portfolio, but we have some team members who are not yet at 100% capacity

Should we start more projects from the portfolio to get them to 100% capacity?



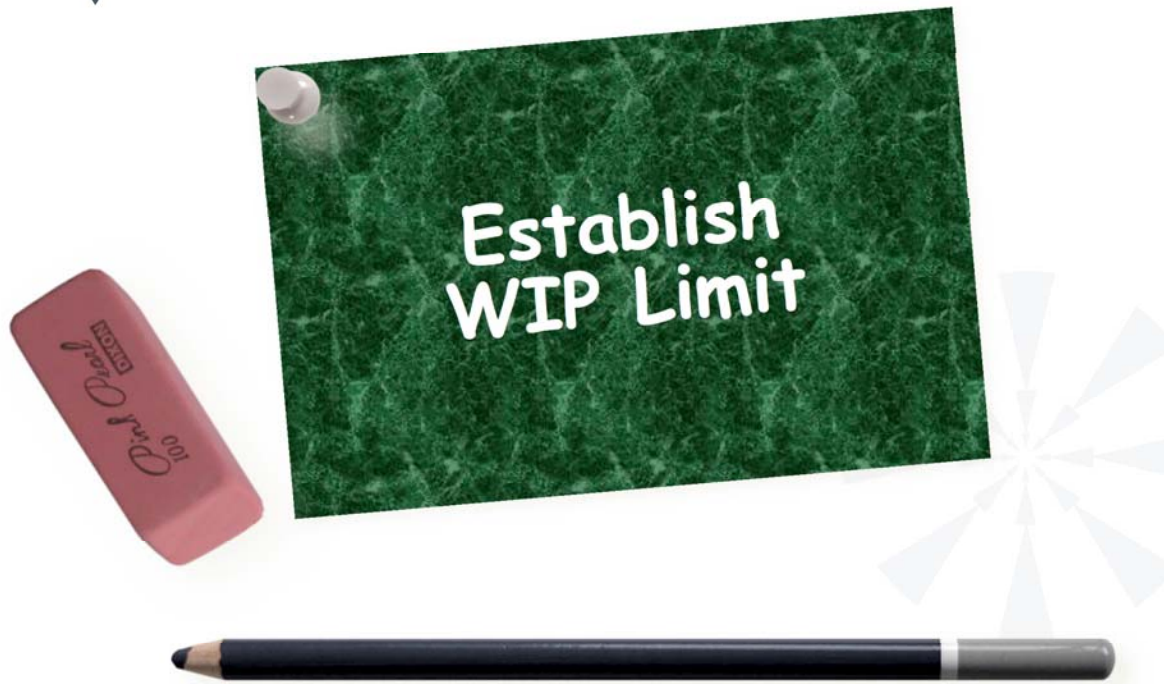
Focus on Idle Work Not Idle Workers

Watch the Baton Not the Runners[†]



[†]Source: Larman & Vodde





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?

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

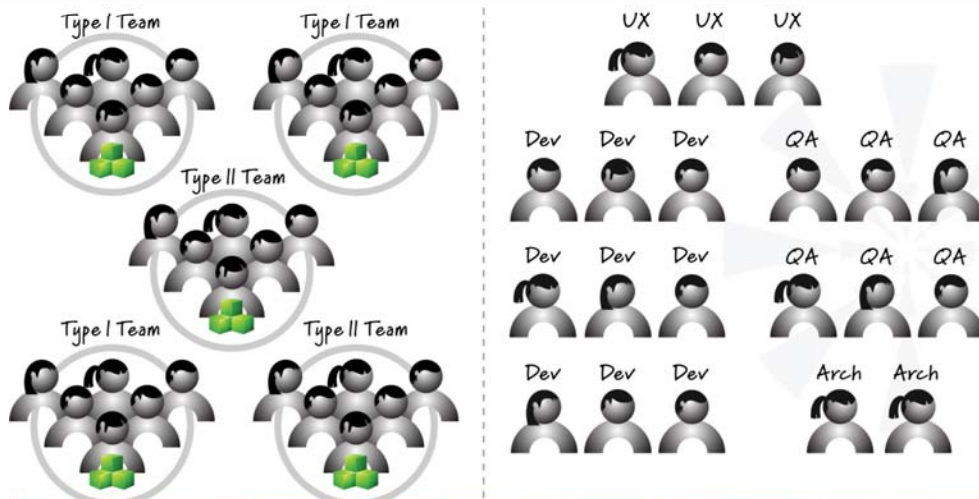
Goal is to match WIP with available capacity



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

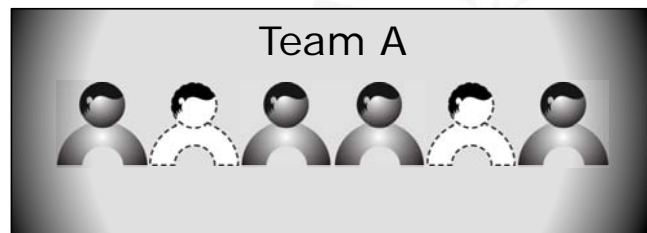




Discussion Questions – Team Availability

Do you start a project before the full team is available to work on it?

If so, what are the consequences?





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

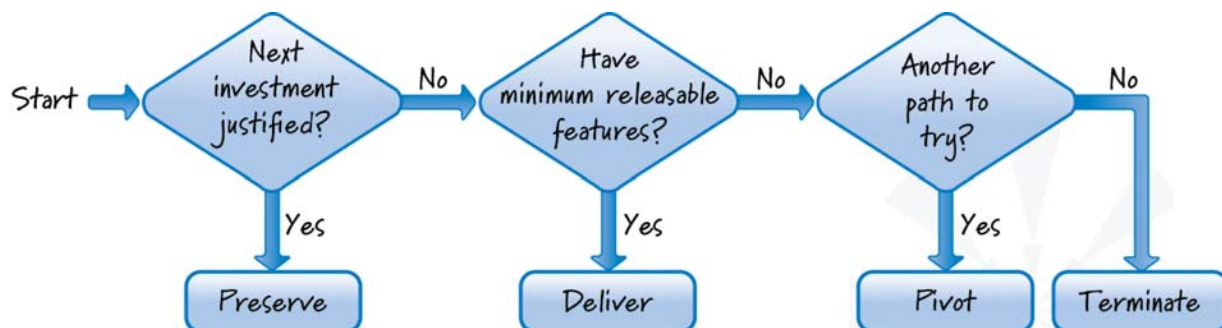


Discussion Question – Would You Keep Spending?

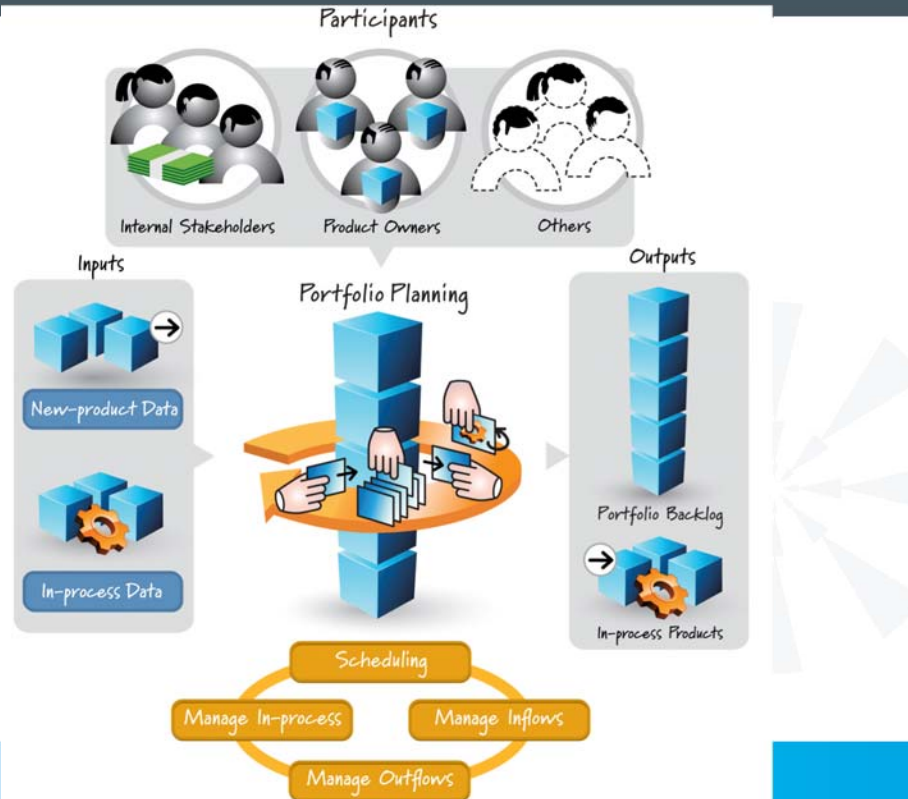
If you spend the first dollar on developing a product, is there any circumstance under which you would terminate development?



Marginal Economics



Summary



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