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Queues in Acquisition

Or, don't let a good leading indicator go to waste

Bill Wiltschko Deloitte Consulting, Federal Practice May 12, 2010

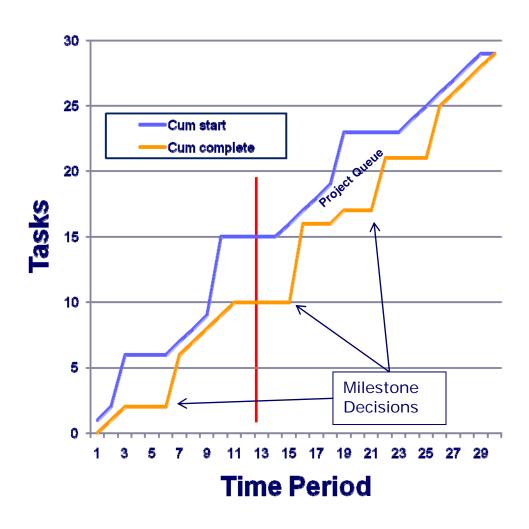
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We Know Visible Queues Well



See a Project Queue



Calculate Queue Size - v1

Queue size (man-hrs) =
$$\sum_{t} Actual \ manhours(t)$$

t is a started but incomplete task

Pro: accurate

Cons

- ■raw data may not be timely
- ■not all projects enter man-hours by task

Calculate Queue Size – v2

Queue size (task-periods) =
$$\sum_{t} Actual \ periods \ from \ start(t)$$

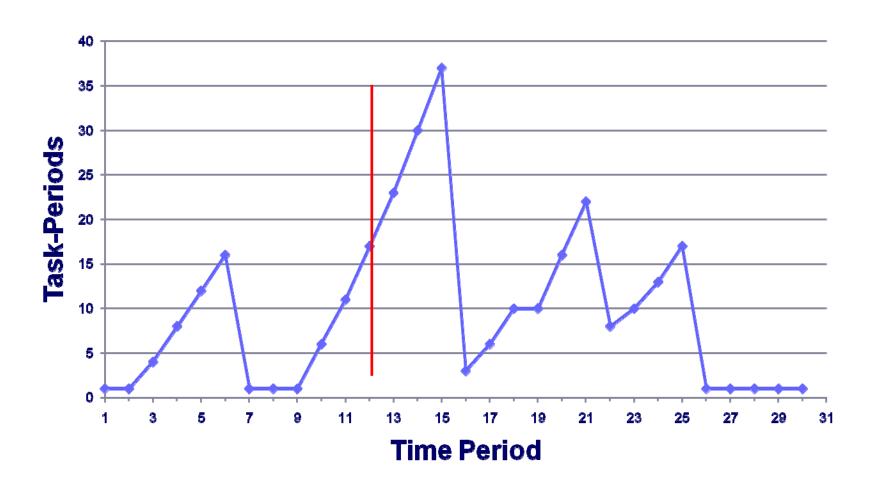
t is a started but incomplete task

Pros

- Fast
- Available from simple IMS data
- All projects enter task finish dates

Con: not as accurate as man-hr calculation

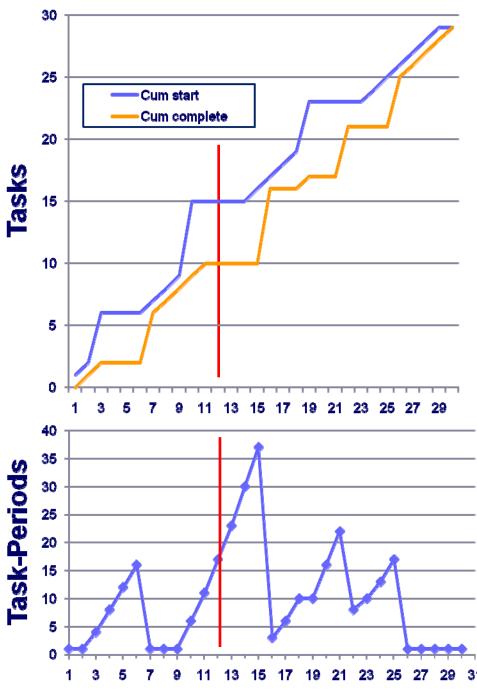
Queue Metric, Task-Periods



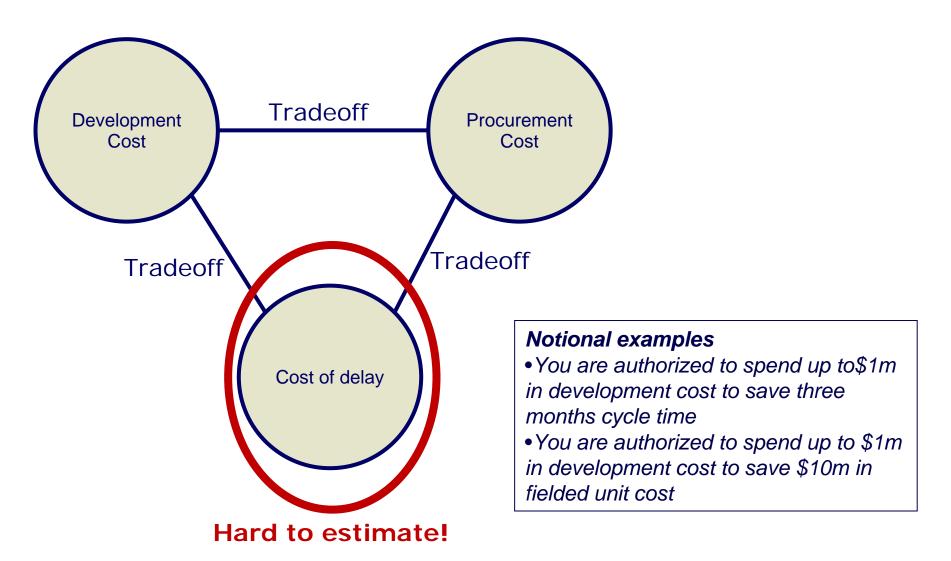
Comparison

Project overview

• Queue metric



Control Queues with Economics



References

- Lean Advancement Institute, MIT http://lean.mit.edu/
- <u>Factory Physics</u> by W. Hopp and Mark L. Spearman
- <u>Toyota Product Development System</u> by Morgan and Liker
- The Principles of Product Development FLOW: Second Generation Lean Product Development by Donald G. Reinertsen
- Maneuver Warfare Handbook by William S. Lind

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