



Speeding Innovation to Market: More Projects in Less Time Using Project Management Execution

Cambridge Technology Organizations (CTO) Peer 2 Peer Network Communitech

October 18, 2011 Cambridge Mill

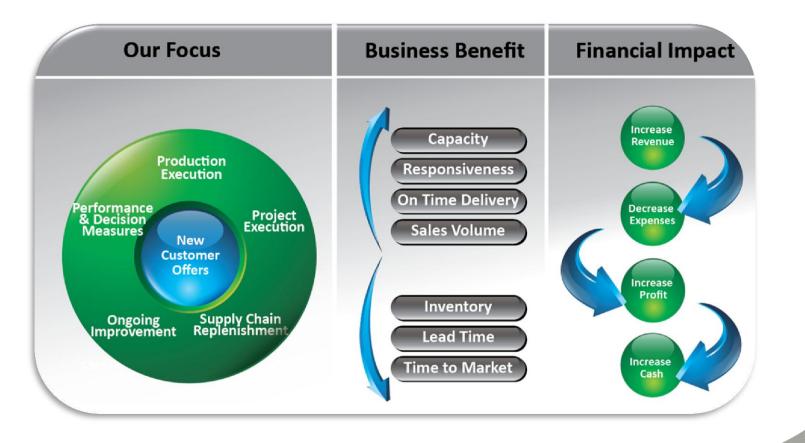




Who is CMS Montera?

CMS RoadRur

• CMS Montera provides management solutions and software to improve operational performance and sales.



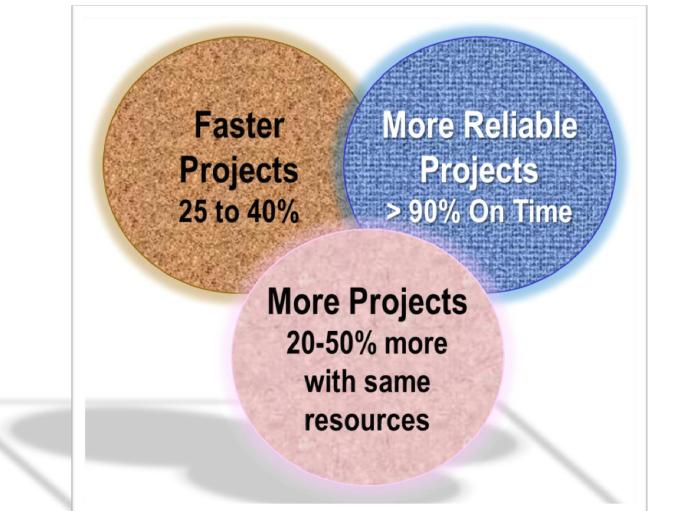


Critical Chain gets Results

ms monterg.		After
	Before	92% on time, 13 projects
Northern Digital	50% on time, 10 projects Throughput of 300 bays	Throughput increased 450 havs per year
ABB AG. Power Technologies Division	per year 6.9 projects per year	10 proejcts in the first 8
Alcan Alesa Technologies Material Handling Solutions	400 active projects	Throughput up by 45% per person, LT down 25%
Alcatel Lucent Telecom Switches Design	300 – 400 active point with over 30 per month 476 engines per year	586 engines per year. 50%
Delta Air Lines Inc. Aircraft Engine Repair	lounched / year	15 Cameras launched / year
HP Digital Camera Group – Product Development	1 out of 6 launched on and	64 days cycle time 22 machines in 5 months
Ismeca Semiconductor - ETO	15 machines in 6 months	80% OTD
Dr. Reddy's Laboratories	 20% OTD 85 product launches / yea 	CMS Roo



CCPM Gets Results - Summary







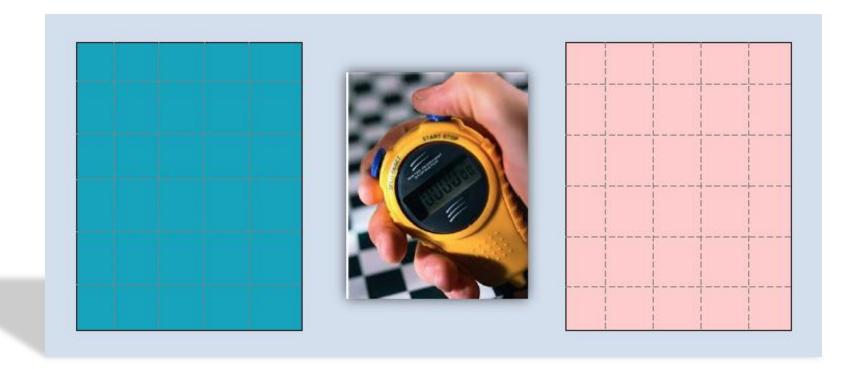
True or False ...

We will finish a project sooner if we start it sooner The best way to deliver a project on time is by completing each task / milestone on time





The Paper Game







- Two Projects Two pieces of paper of different colour
- Tear each piece of paper into 5 strips and then 6 pieces
 How many pieces of paper should we end up with?
- After three tears of one paper colour (Project 1), switch to the other paper colour (Project 2), and then switch back
- Measures
 - Cycle Time Time to complete each project
 - Good Quality 30 pieces of each colour





- Measures
 - Range
 - Good Quality
- How many more projects can you handle within the same time frame?
- Did the colour of the paper matter?





- 1 Project at a time
- 5 Strips and 6 Pieces
- Same measures





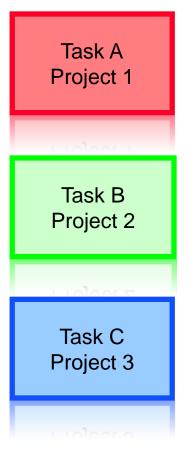
Observations

- Round 1
 - Busy, bad quality
- Round 2
 - Reduced variability
 - Increased quality
 - $\frac{1}{2}$ the time









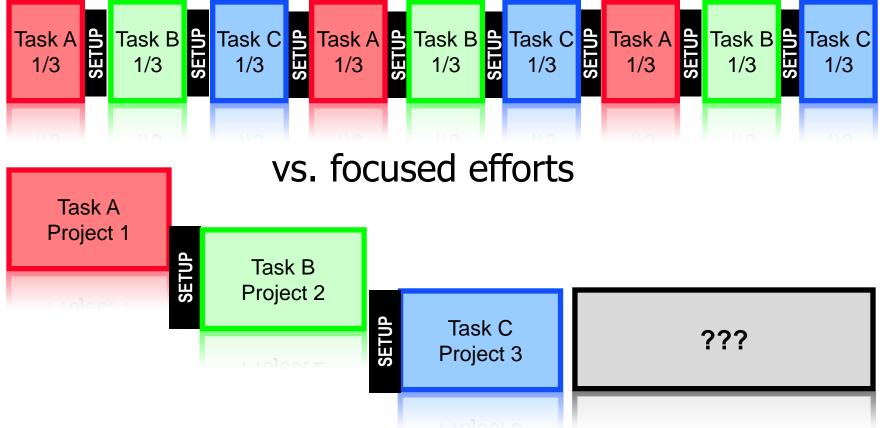
Three tasks arrive at the same time for the same resource. All projects are essential for success of the program – what does the resource do?







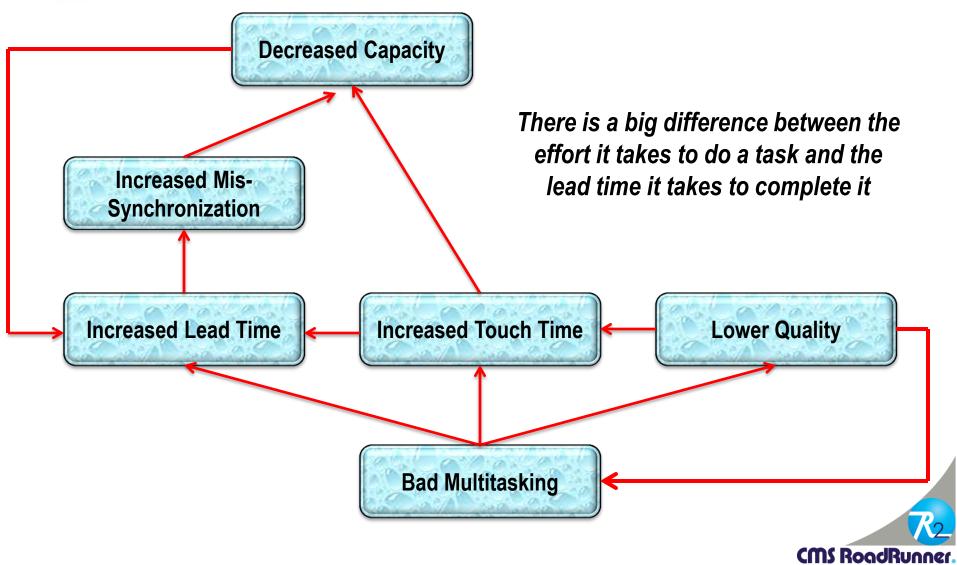
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The real damage is not only the waste of set-ups but also the significant increase in the lead time of each task, and ...



Bad Multi-Tasking





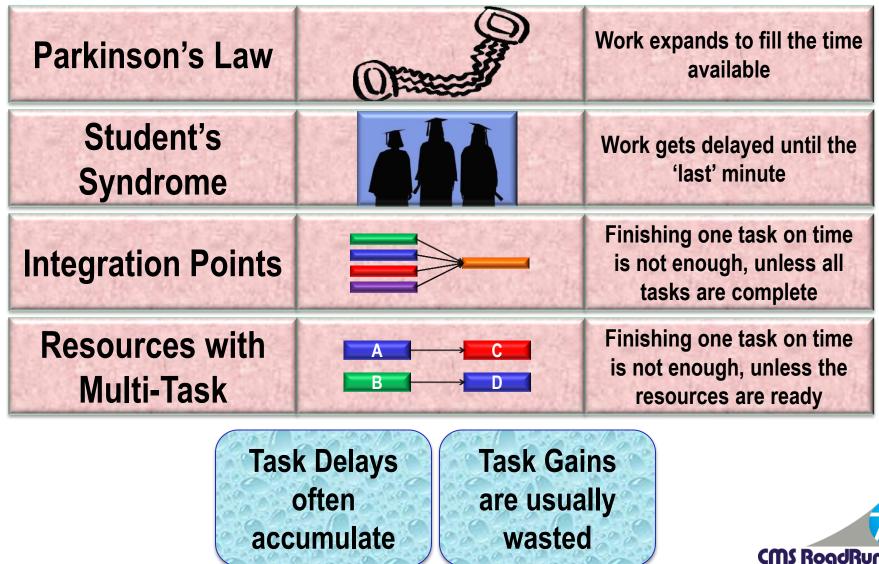
True or False ...

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Because of ...







The typical Project Management approach creates three significant issues ...



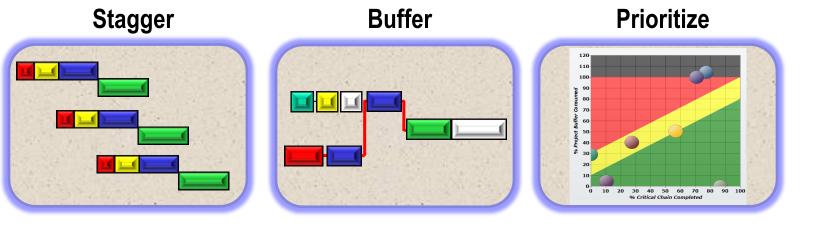
... Which causes most projects to be late, over budget and / or under scope





Critical Chain Project Management

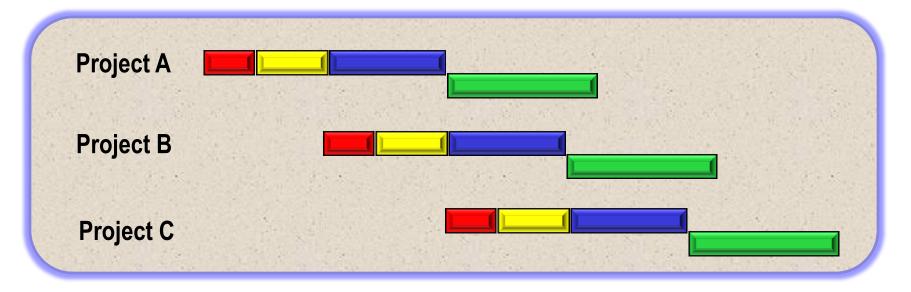
- **Stagger** the release of projects into execution
- Create aggressive project schedules with 50% **buffers**
- Drive execution **priorities** based on buffer consumption







Stagger – Choke the Release



- Identify the staggering point / resource
- Establish the maximum load / number of projects to be released
- Release a new project ONLY when another project is completed through the staggering point





A6

Buffer – CCPM Network

Critical Chain – the longest chain of task and resource dependencies

• Cut task estimates in half

D16

B10

- Push tasks as late as possible
- Resolve resource contentions
- Identify Critical Chain (CC)
- Protect with 50% Buffers Project (PB) and Feeding (FB)

C16

C16

Projects progress is based on the ratio of the CRITICAL CHAIN complete to the PROJECT BUFFER consumed (Flow Index)

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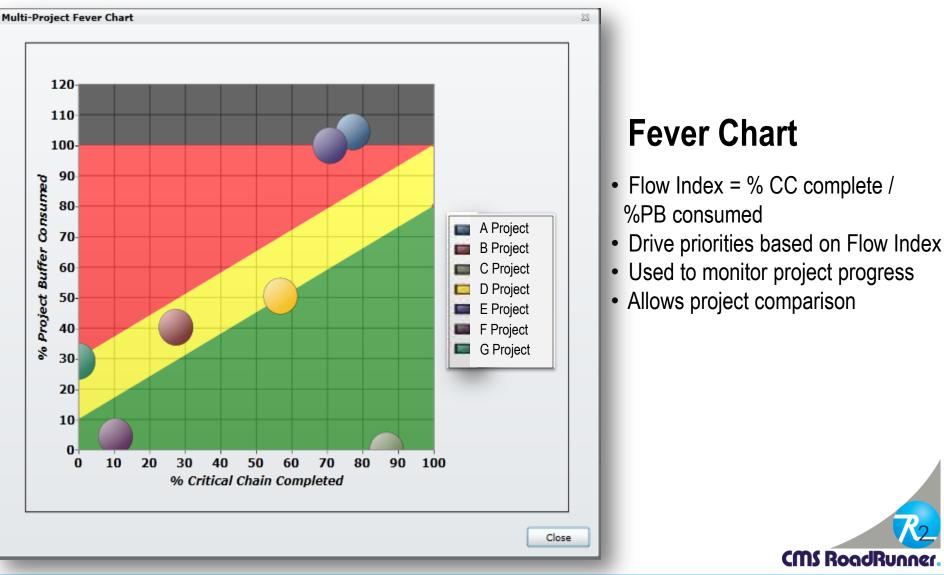


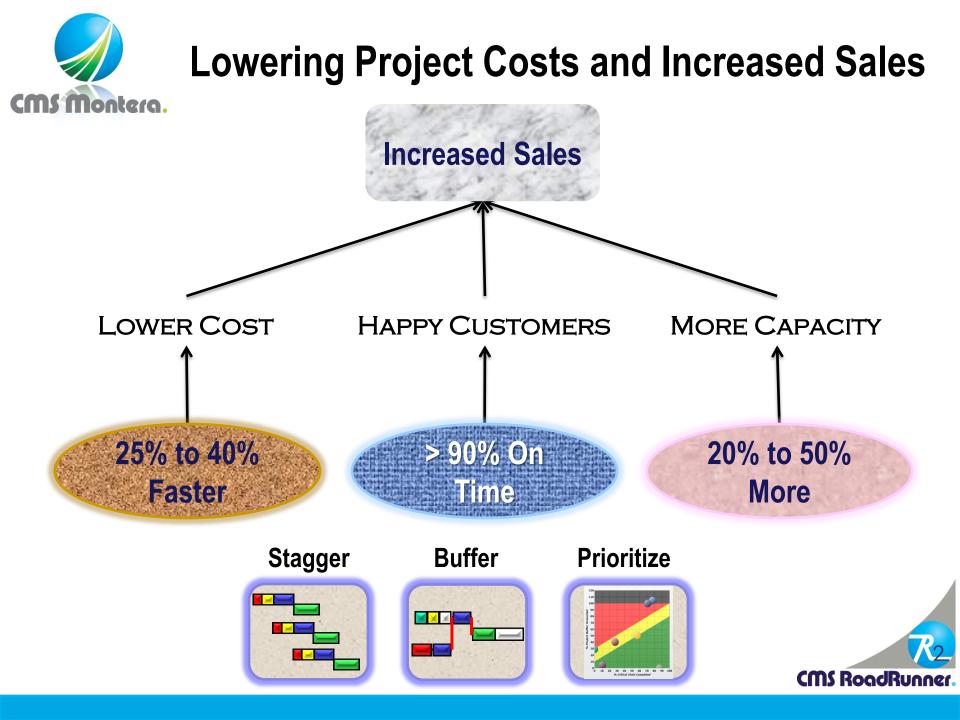
E20

- IT IS NOT IMPORTANT TO COMPLETE EACH TASK ON TIME
- IT IS CRITICAL TO COMPLETE THE PROJECT ON TIME



Prioritize – Projects







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