

Deltek

Acumen: Predicting Project Timelines & Recovering Delays

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Deltek Acumen

S1//S5 Project Maturity Framework



Introduction to Project Acceleration

Why do Projects Need This?

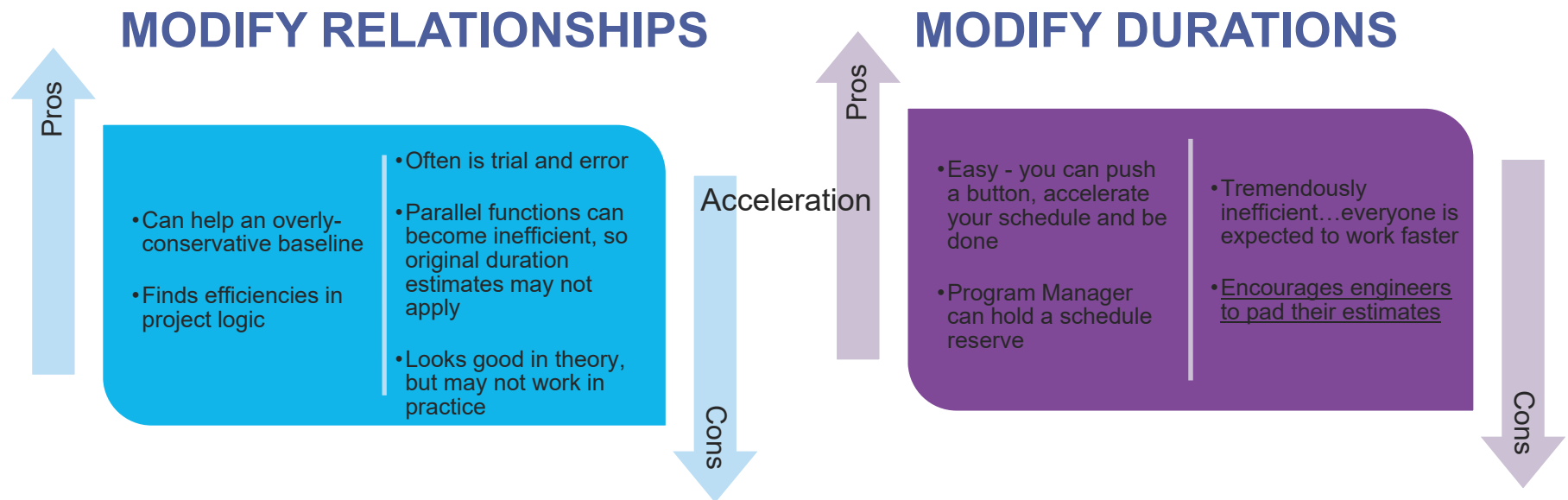
- Risk mitigation options exhausted
- Illogical project baseline, wrong/missing logic, hard constraints, other quality issues
- Stuff happens

Typical Acceleration Methods...

- Apply a brute force approach
- Are not targeted
- Cost more than they should
- Do not produce realistic results
(accelerated areas become un-accelerated in execution)



Common Failures in Accelerating a Schedule



A More Effective Approach

Target Acceleration

- ✓ Respects original schedule relationships
- ✓ Affects the mathematically fewest number of activities in the schedule
- ✓ Encourages only accurate estimating
- ✓ Outcome is typically very affordable
- ✓ User controls the parameters to be utilized so that the acceleration remains reasonable

The screenshot displays the 'Script Editor - Extreme Acceleration' window. It shows a sequence of three steps:

- Step 1:** Remove all Constraints (Remove All Constraints)
- Step 2:** Reduce Predecessor Lag by 50% (Reduce Predecessor Lags by 50%)
- Step 3:** Reduce Successor Lag by 50% (Reduce Successor Lags by 50%)

Below the script editor is the 'Step Editor - Remove all Constraints' window, which shows a table of activities. The table has columns for Timeline, Id, Description, Start, Finish, Remaining, Calibration, Remaining Cost, Total, and Gantt. The data is as follows:

Timeline	Id	Description	Start	Finish	Remaining	Calibration	Remaining Cost	Total	Gantt
0150		In-House scenario	1/1/2010	1/22/2010	15d		\$600,000		
	0160	Bid B review	2/15/2010	5/10/2010	60d		\$2,400,000		
	0170	Bid A review	1/1/2010	1/29/2010	20d		\$2,400,000		
	0180	Technical review	1/1/2010	2/5/2010	12d		\$500,000		
	0190	Commertical review	5/3/2010	9/7/2010	68d		\$0		
	0200	Comms design	3/12/2010	4/6/2010	8d		\$680,000		
	0210	Civil design	2/26/2010	3/19/2010	15d		\$1,800,000		
	0220	Mechanical design	3/5/2010	4/9/2010	25d		\$1,000,000		
	0230	Electrical design	1/29/2010	2/26/2010	20d		\$800,000		

Demonstration

Q&A

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