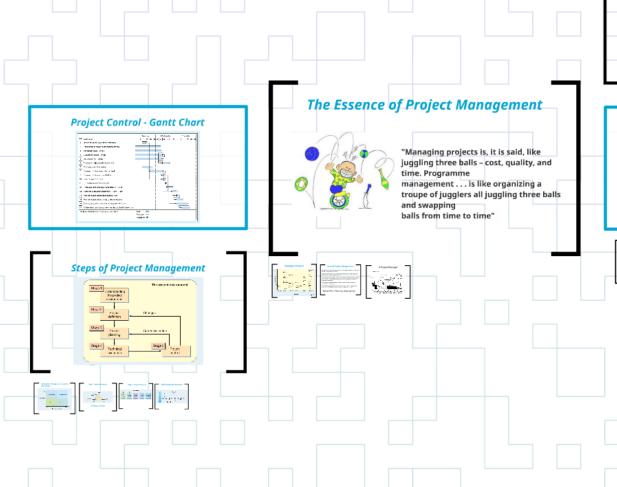




MGT 314 - Project Planning and Scheduling



Critical Path Method

Activity	Immediate predecessors	Activity duration (in days)
Remove furniture	None	1
Prepare bedroom	a	2
Paint bedroom	ь	3
Prepare kitchen	8	1
Paint kitchen	ď	2
Replace furniture	c, e	1

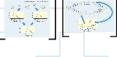
PERT

Project Evaluation and Review Technique



where

- t_o = the expected time for the activity
- t_0 = the optimistic time for the activity
- t_l = the most likely time for the activity
- t_0 = the most fixely time for the activity t_0 = the pessimistic time for the activity.





The Essence of Project Management



"Managing projects is, it is said, like juggling three balls – cost, quality, and time. Programme management . . . is like organizing a troupe of jugglers all juggling three balls and swapping balls from time to time"



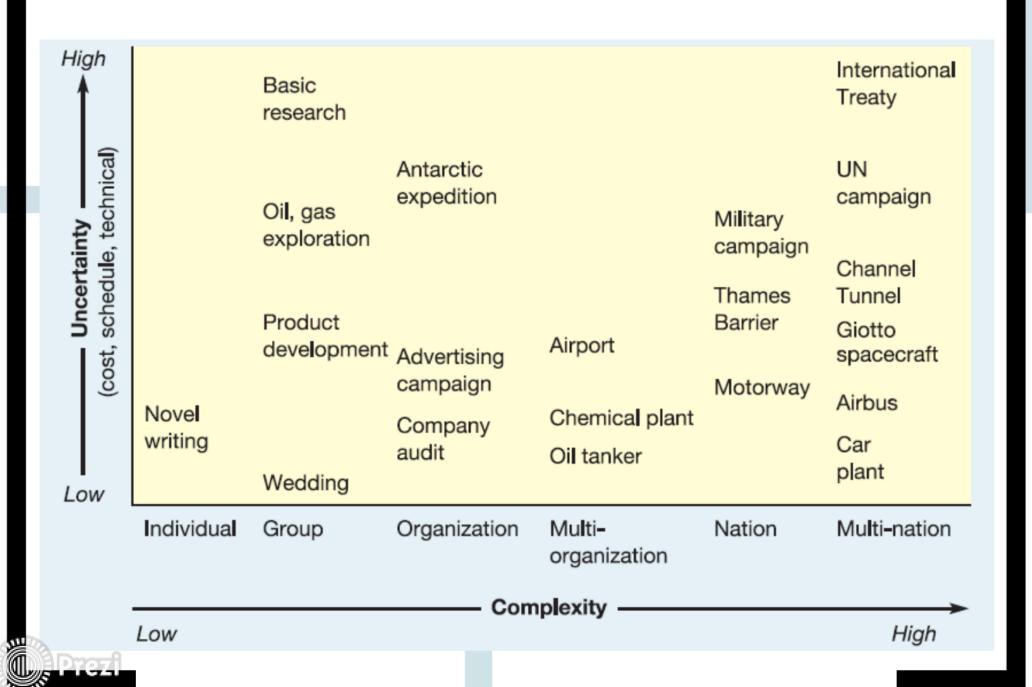
Laws of Project Management:)

Things project in one tracked in the wides height, which is new sold that carried. You will be heare sold that carried. You will be in the first.

This begins project party of the fig fences by or and complete. Our they formed by the control of the first party and the sending of the control of the control



Typology of Projects



Laws of Project Management:)

No major project is ever installed on time, within budget, or with the same staff that started it. Yours will not be the first.

Projects progress quickly until they become 90 per cent complete, then they remain at 90 per cent complete for ever.

When things are going well, something will go wrong. When things just cannot get any worse, they will. When things appear to be going better, you have overlooked something.

If the project content is allowed to change freely, the rate of change will exceed the rate of progress.

A carelessly planned project will take three times longer to complete than expected; a carefullyplanned project will take only twice as long.

Bottomline: Planning Uncertainty!!



A Project Manager

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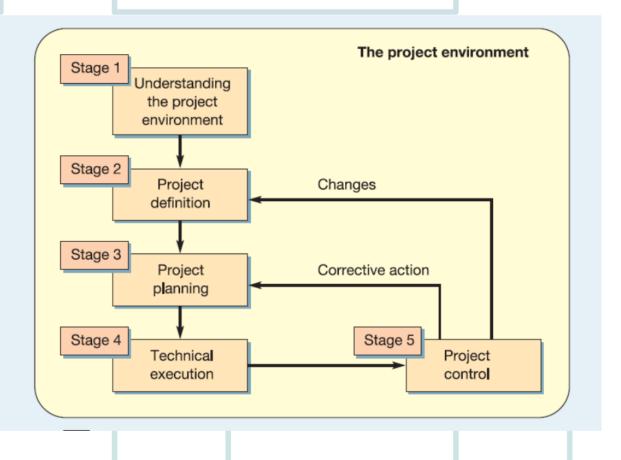


"This is a major project of utmost importance, but it has no budget, no guidelines, no support staff, and it's due in 15 minutes.

At last, here's your chance to really impress everyone!"



Steps of Project Management



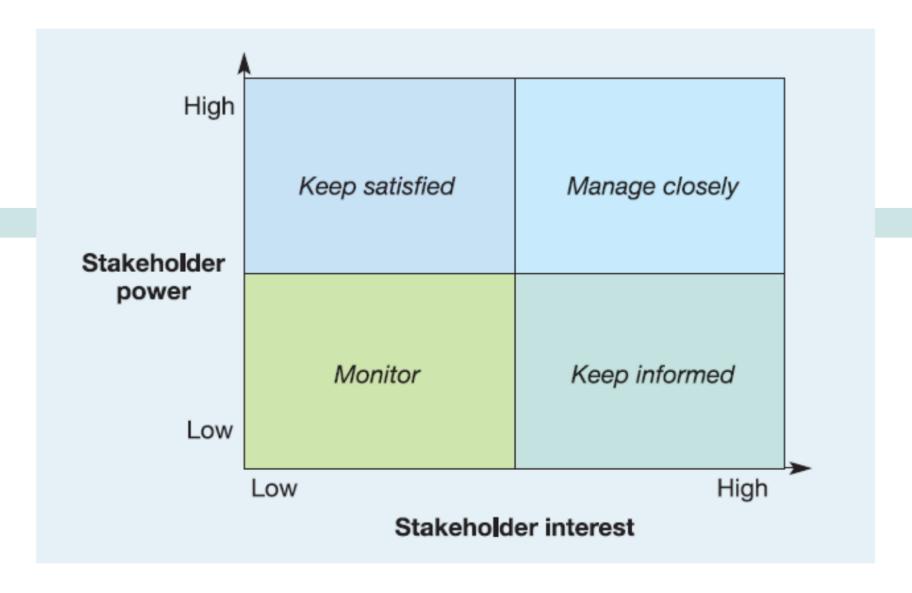






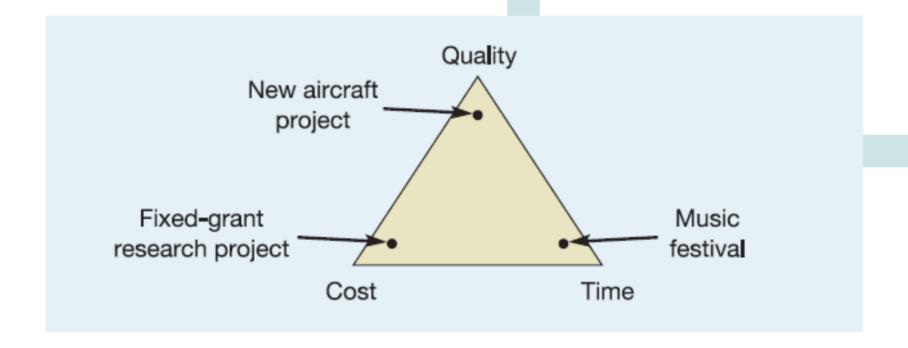


Stakeholder Management - Important Part of Step 1





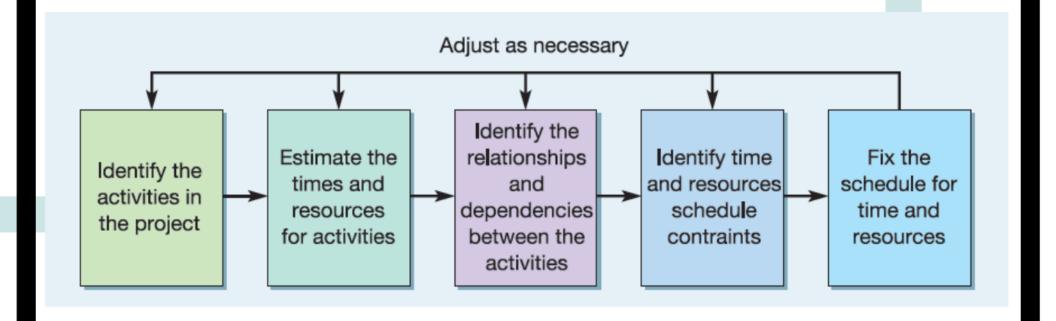
Step 2 - Defining Projects



Strategy and Scope

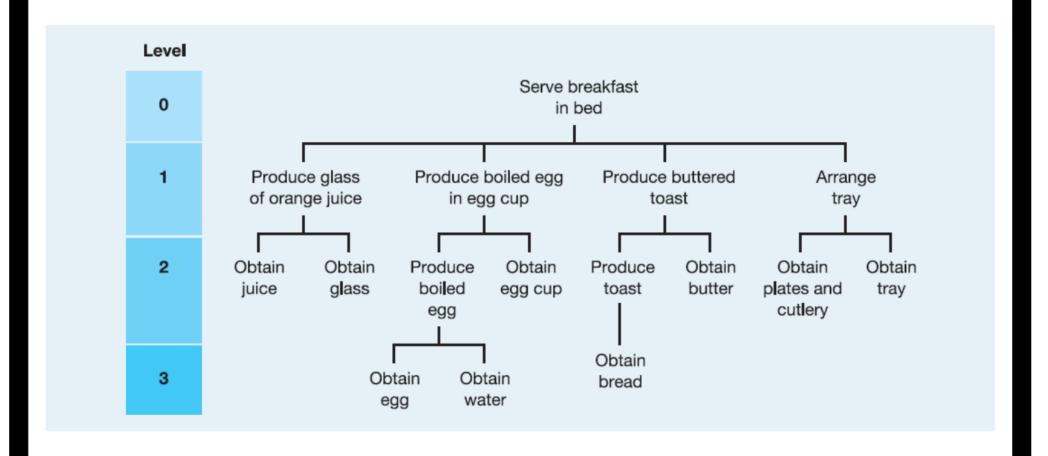


Step 3 - Project Planning



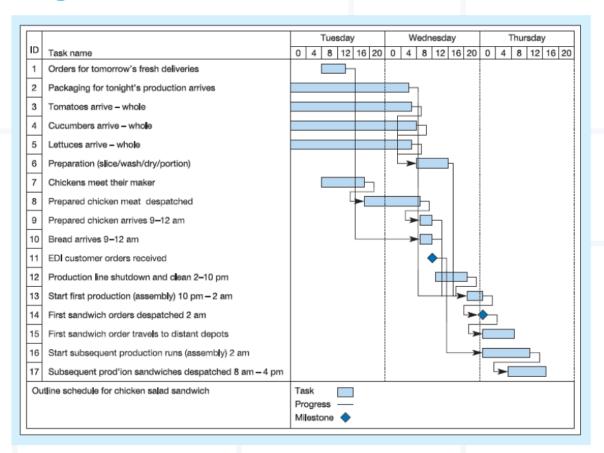


Work Breakdown Structure





Project Control - Gantt Chart





_											_				
		Т	uesd	ay			W	edn	esda	ay			Thur	sday	
ID	Task name	0 4	8 1	2 1	16 20	0	4	8	12	16 20	0 (4	8	12	16 20
1	Orders for tomorrow's fresh deliveries			Н											
2	Packaging for tonight's production arrives]							
3	Tomatoes arrive - whole					_									
4	Cucumbers arrive - whole							Ь							
5	Lettuces arrive - whole														
6	Preparation (slice/wash/dry/portion)					L	>			7					
7	Chickens meet their maker				Ь										
8	Prepared chicken meat despatched			┡	-		_	Ь							
9	Prepared chicken arrives 9-12 am						-		Н						
10	Bread arrives 9-12 am			L			->		H						
11	EDI customer orders received							◀	+						
12	Production line shutdown and clean 2-10 pm								Щ]				
13	Start first production (assembly) 10 pm - 2 am								-+	[_]]			
14	First sandwich orders despatched 2 am									<u>-</u>	*				
15	First sandwich order travels to distant depots									Ļ					
16	Start subsequent production runs (assembly) 2 am								L						
17	Subsequent prod'ion sandwiches despatched 8 am - 4 pm											> [
O	itline schedule for chicken salad sandwich	Task													
CIII)		Progres		_											
i	ADresi	Milesto	ne <												
3	THE HEALTH														

Critical Path Method

Activity	Immediate predecessors	Activity duration (in days)
a Remove furniture	None	1
b Prepare bedroom	а	2
c Paint bedroom	b	3
d Prepare kitchen	а	1
e Paint kitchen	d	2
f Replace furniture	c, e	1



Table 16.3 Road construction activities

Activity	Duration (days)	Preceding activities
A	5	_
В	10	_
С	1	-
D	8	В
E	10	В
F	9	В
G	3	A, D
Н	7	A, D
1	4	F
J	3	F
K	5	C, J
L	8	H, E, I, K
M	4	C, J



PERT

Project Evaluation and Review Technique

$$t_{\rm e} = \frac{t_{\rm o} + 4t_l + t_{\rm p}}{6}$$

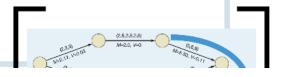
where

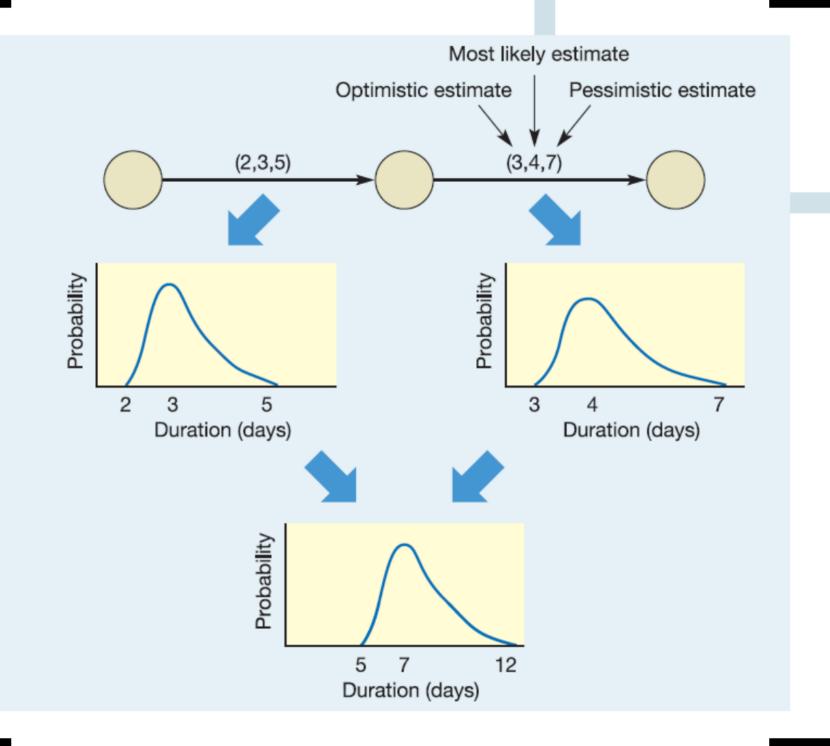
 $t_{\rm e}$ = the expected time for the activity

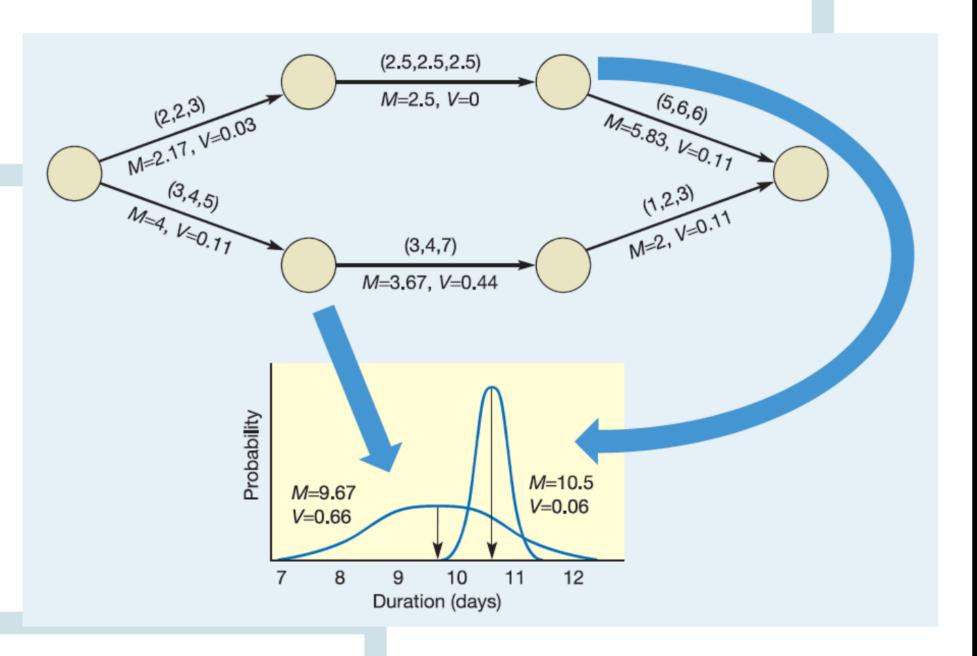
 t_0 = the optimistic time for the activity

 t_l = the most likely time for the activity

 $t_{\rm p}$ = the pessimistic time for the activity.

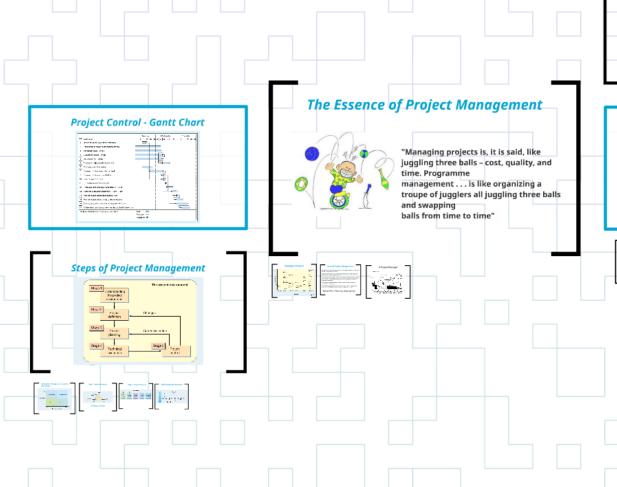








MGT 314 - Project Planning and Scheduling



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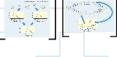
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End of Lecture

