

MGT 314 - Project Planning and Scheduling

Project Control - Gantt Chart

Steps of Project Management

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"

Critical Path Method

Activity	Immediate predecessor	Activity duration (in days)
a. Research literature	None	1
b. Prepare literature	a	2
c. Meet literature	b	3
d. Prepare lecture	a	1
e. Present lecture	c	2
f. Receive feedback	c, e	1

PERT

Project Evaluation and Review Technique

$$t_e = \frac{t_o + 4t_l + t_p}{6}$$

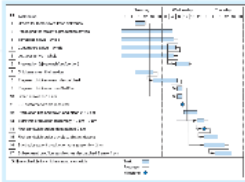
where:

- t_e = the expected time for the activity
- t_o = the optimistic time for the activity
- t_l = the most likely time for the activity
- t_p = the pessimistic time for the activity.



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Critical Path Method

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

PERT

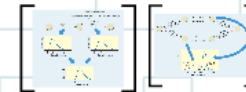
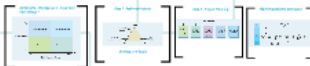
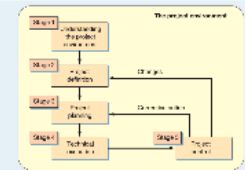
Project Evaluation and Review Technique

$$t_e = \frac{t_o + 4t_l + t_p}{6}$$

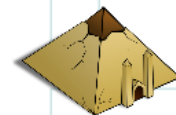
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- t_e = the expected time for the activity
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Steps of Project Management



End of Lecture



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"

Typology of Projects

Laws of Project Management :

A Project Manager

No major project is ever finished on time, within budget, or with the same staff that started it. You're not real to the first.

Project progress quickly stalls as they become 90 per cent complete, then they complete at 90 per cent complete for ever.

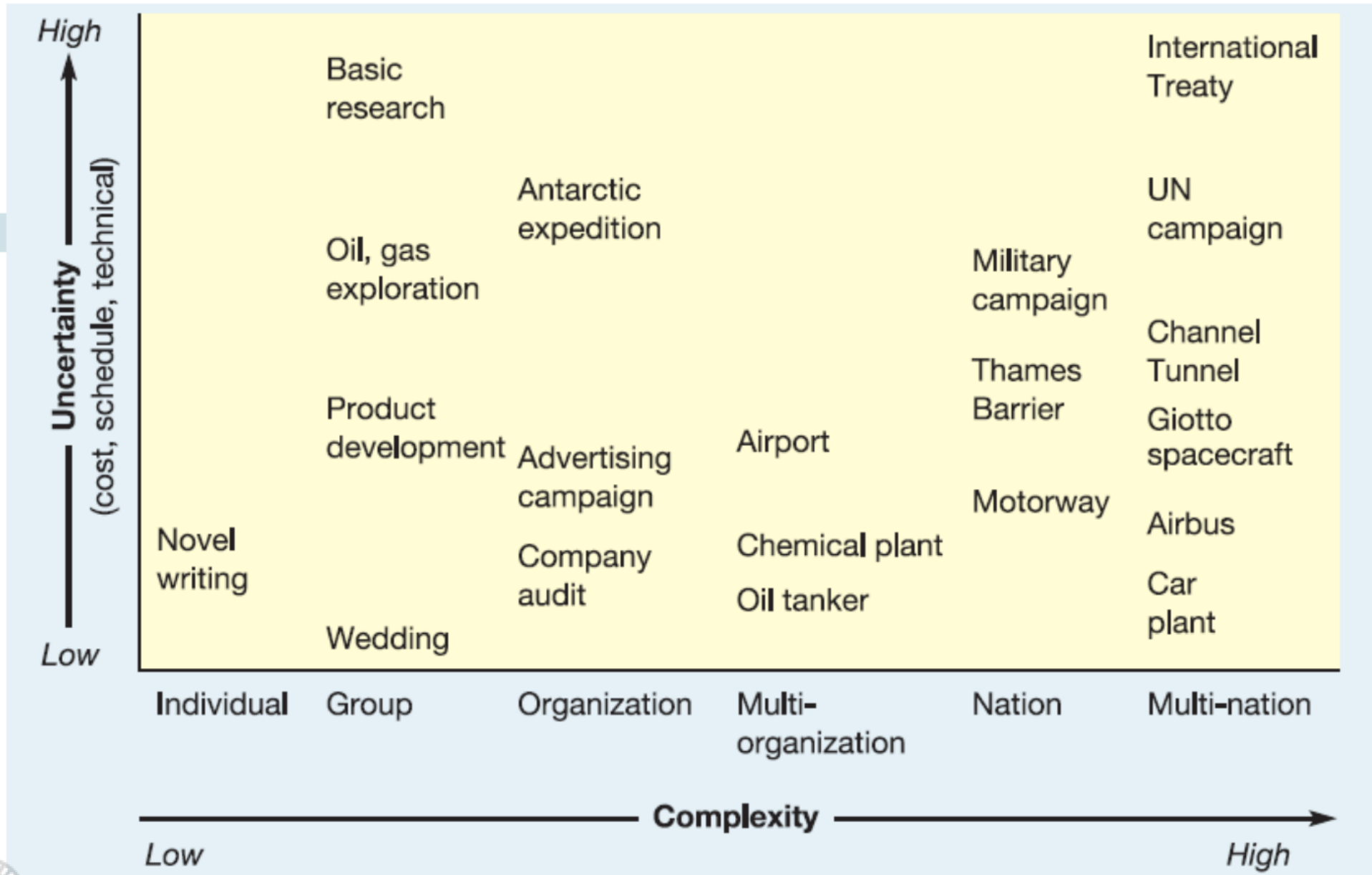
When things are going well, something will go wrong. When things just cannot get any worse, they will. When things appear to be going better, you have been misled by the numbers.

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

A carefully planned project will take three times longer to complete than expected, a completely planned project will take only twice as long.



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 carefully planned project will take only twice as long.

Bottomline : Planning Uncertainty!!

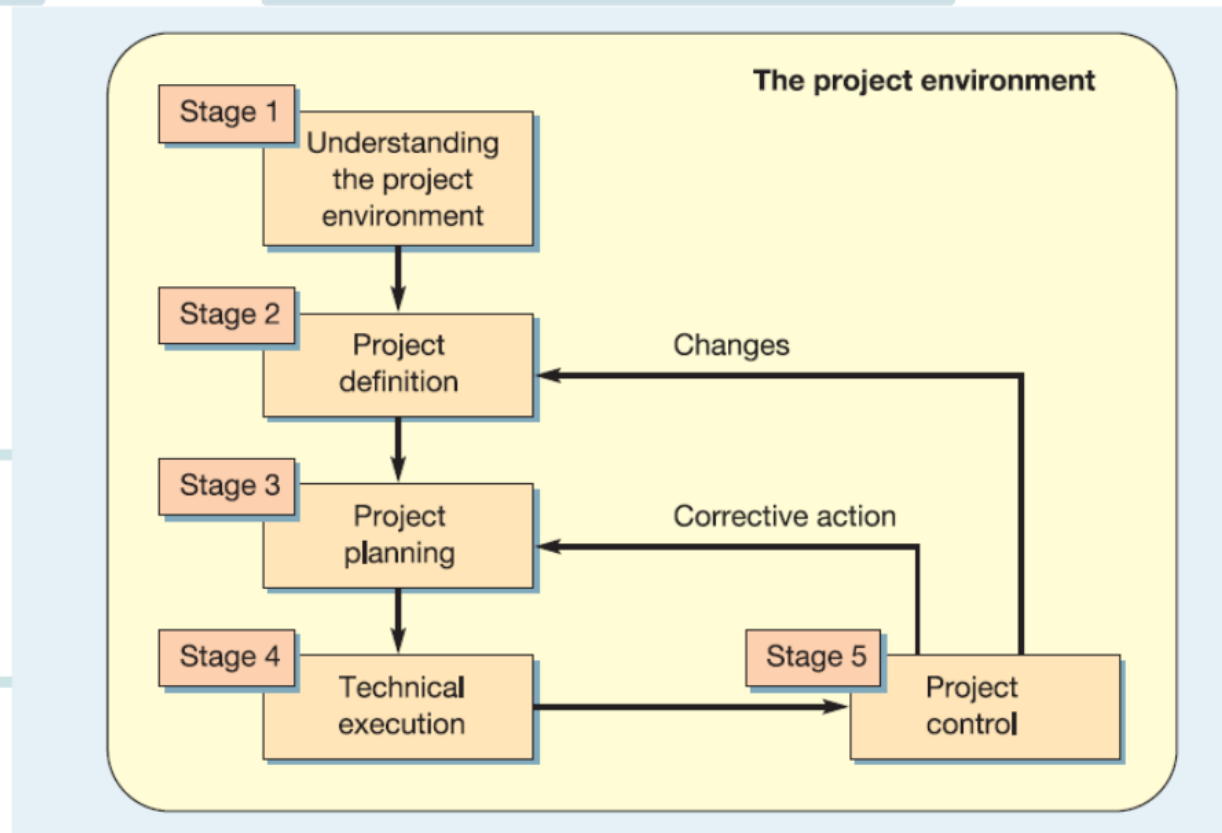
A Project Manager

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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



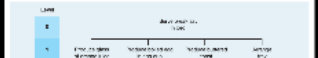
Step 2 - Defining Projects



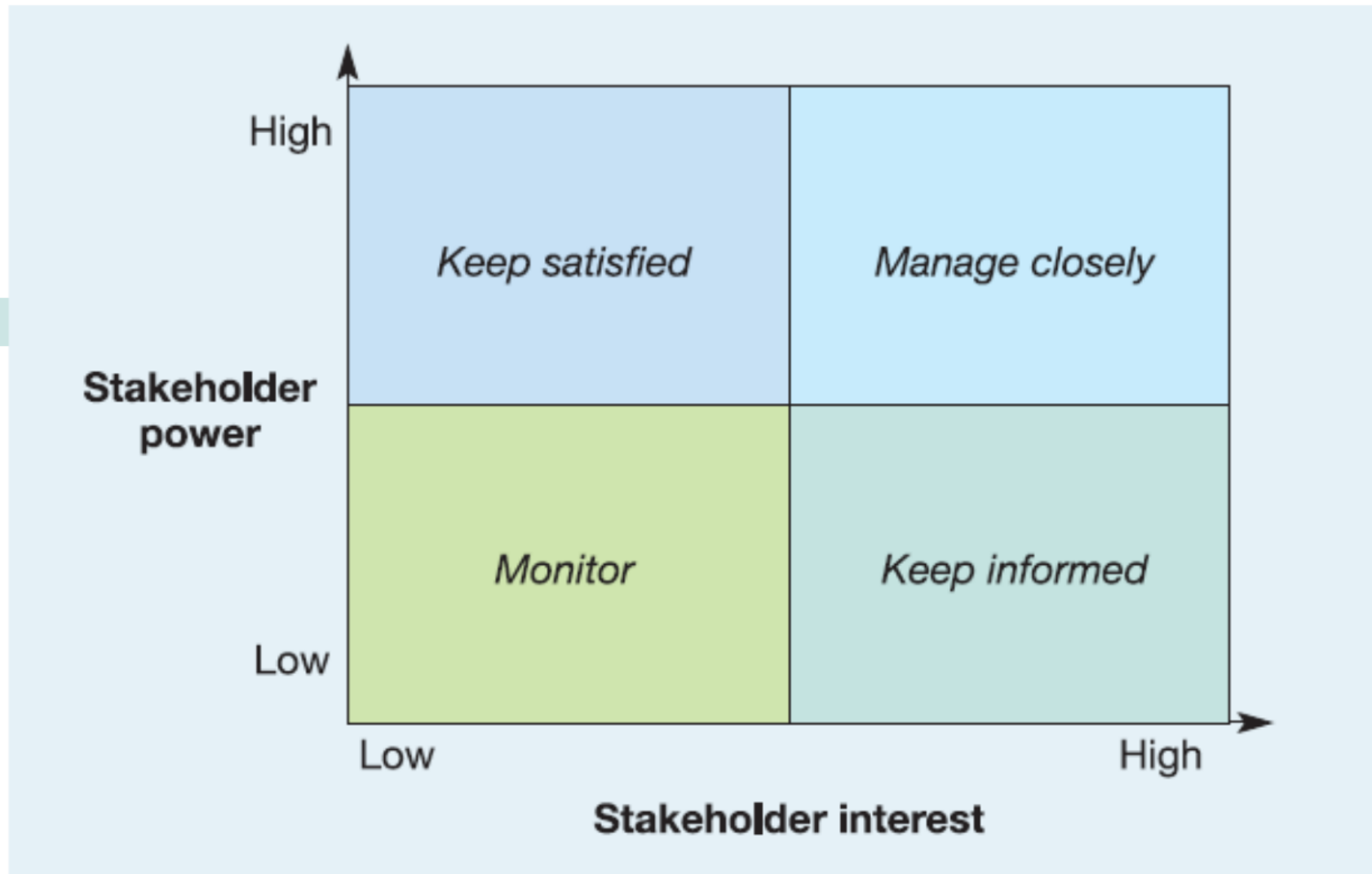
Step 3 - Project Planning



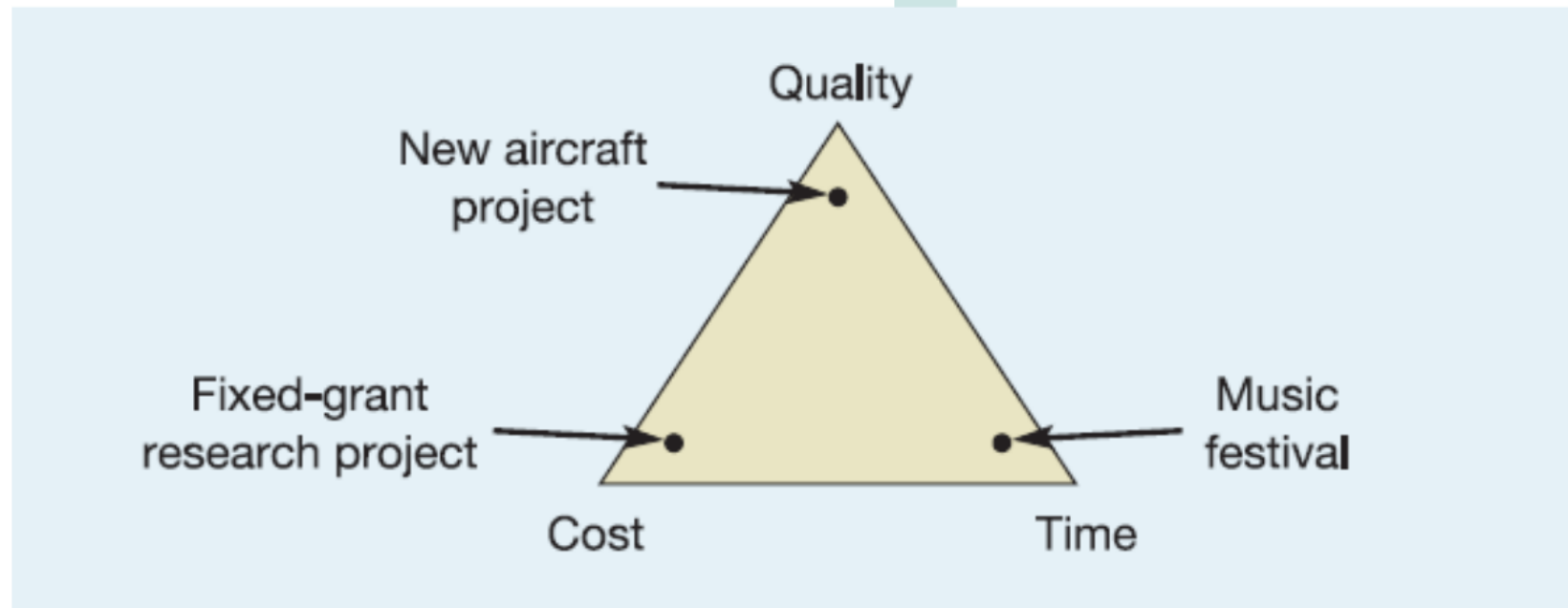
Work Breakdown Structure



Stakeholder Management - Important Part of Step 1



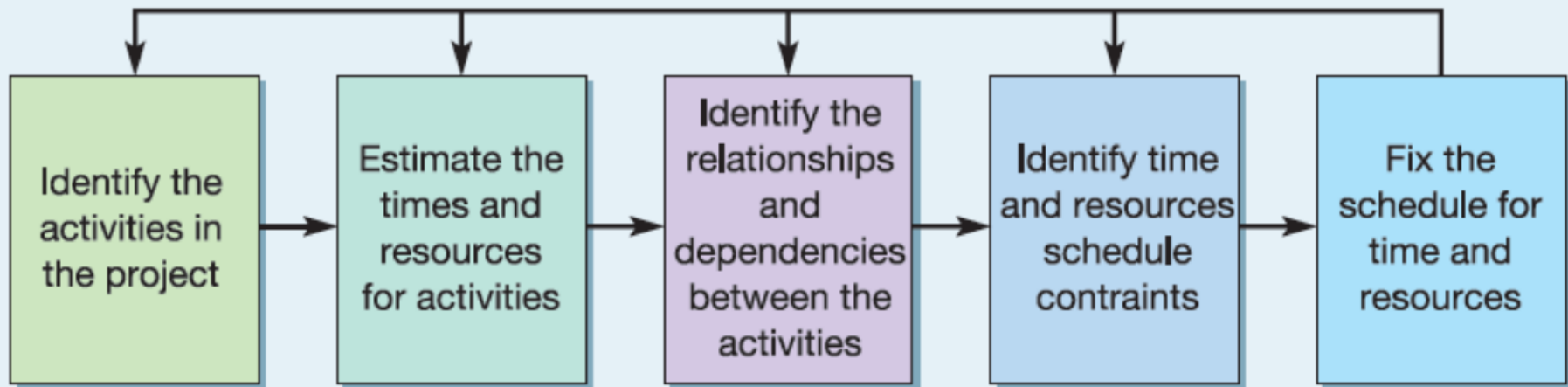
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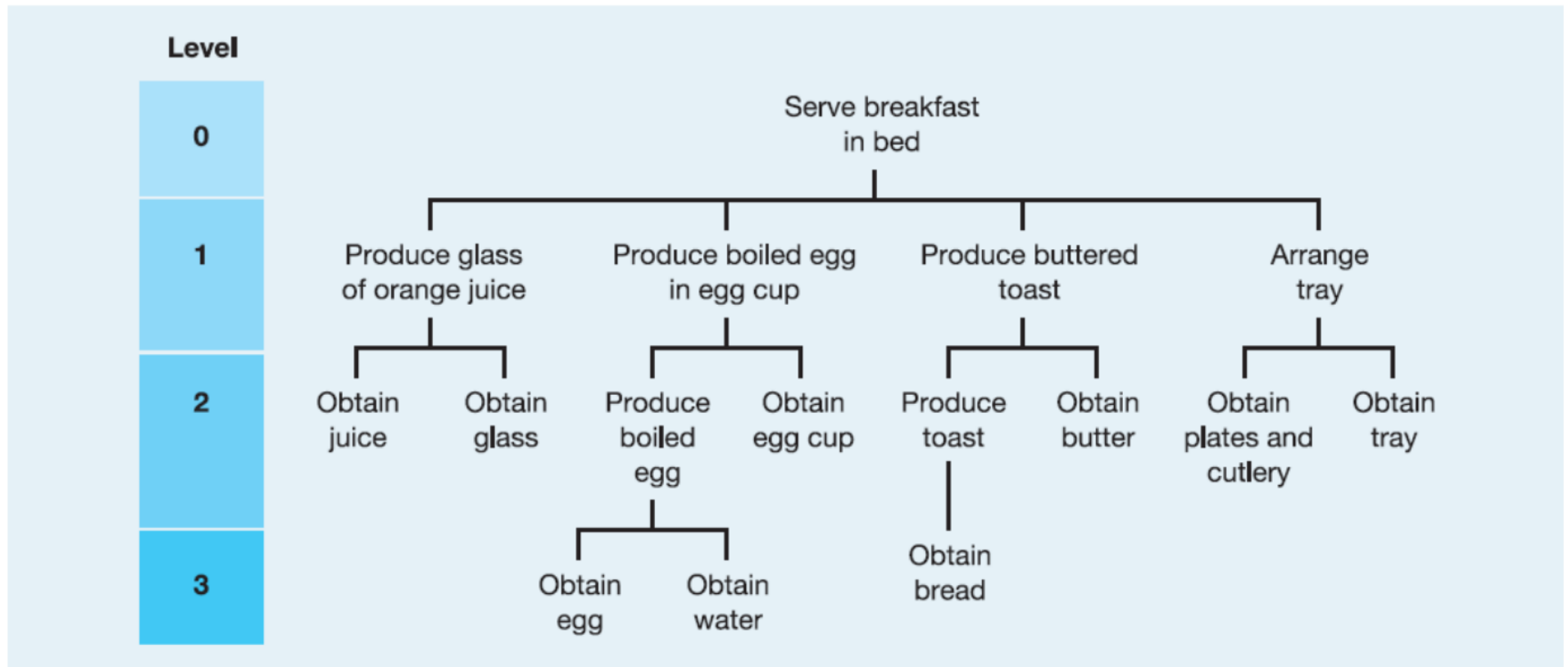
Strategy and Scope

Step 3 - Project Planning

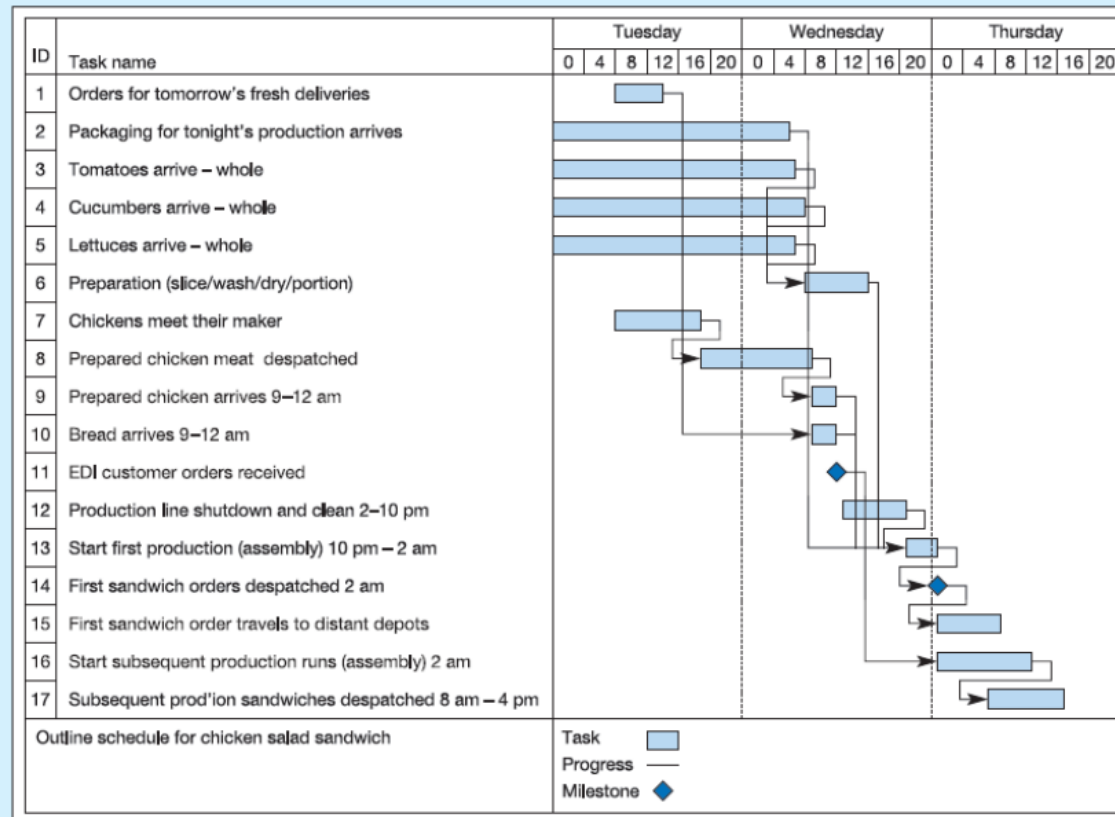
Adjust as necessary

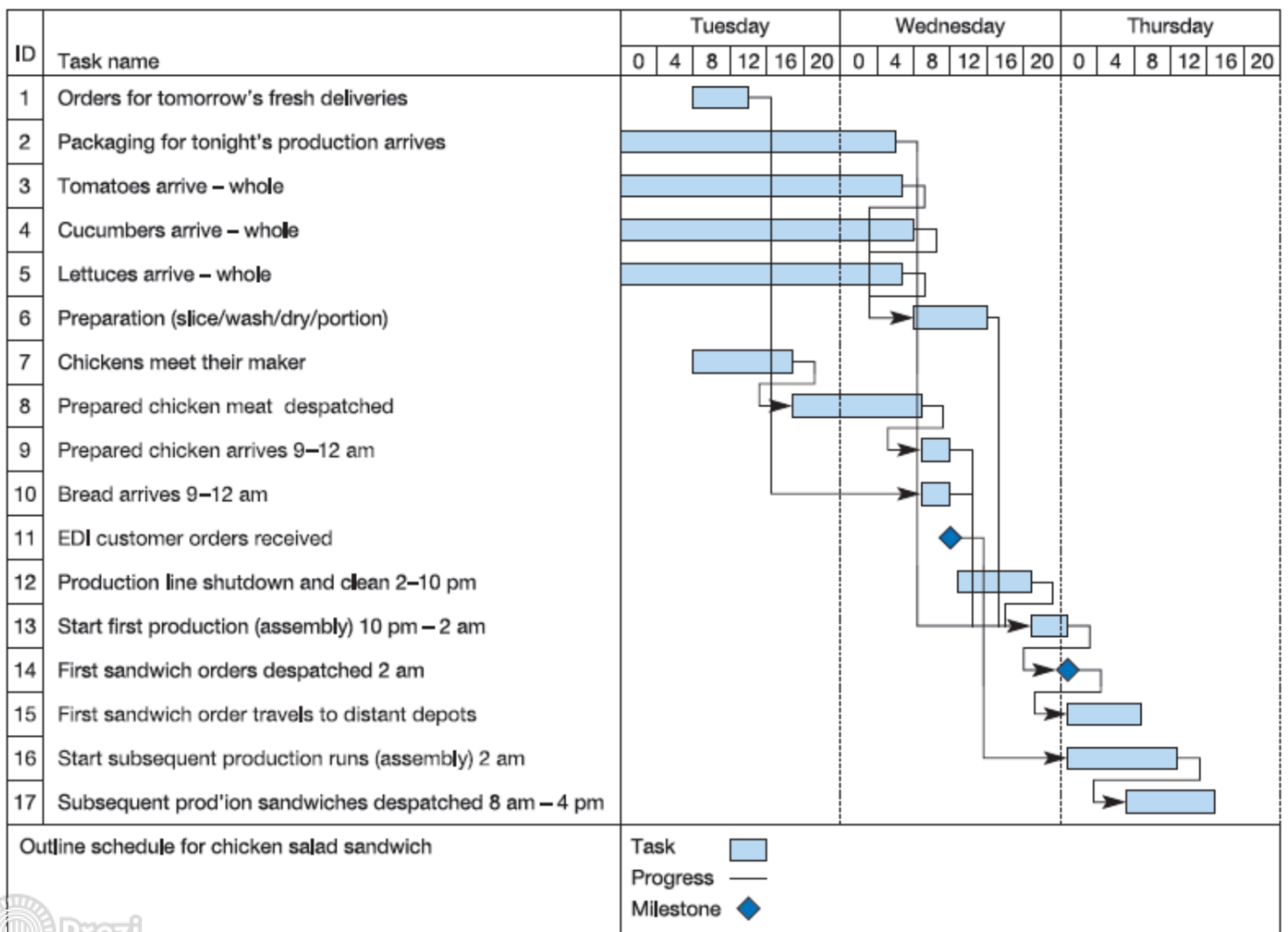


Work Breakdown Structure



Project Control - Gantt Chart





Critical Path Method

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

Table 16.3 Road construction activities

<i>Activity</i>	<i>Duration (days)</i>	<i>Preceding activities</i>
A	5	–
B	10	–
C	1	–
D	8	B
E	10	B
F	9	B
G	3	A, D
H	7	A, D
I	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

$$t_e = \frac{t_o + 4t_l + t_p}{6}$$

where

t_e = the expected time for the activity

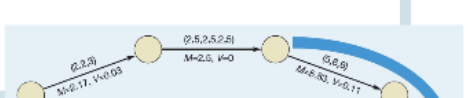
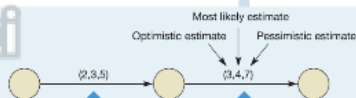
t_o = the optimistic time for the activity

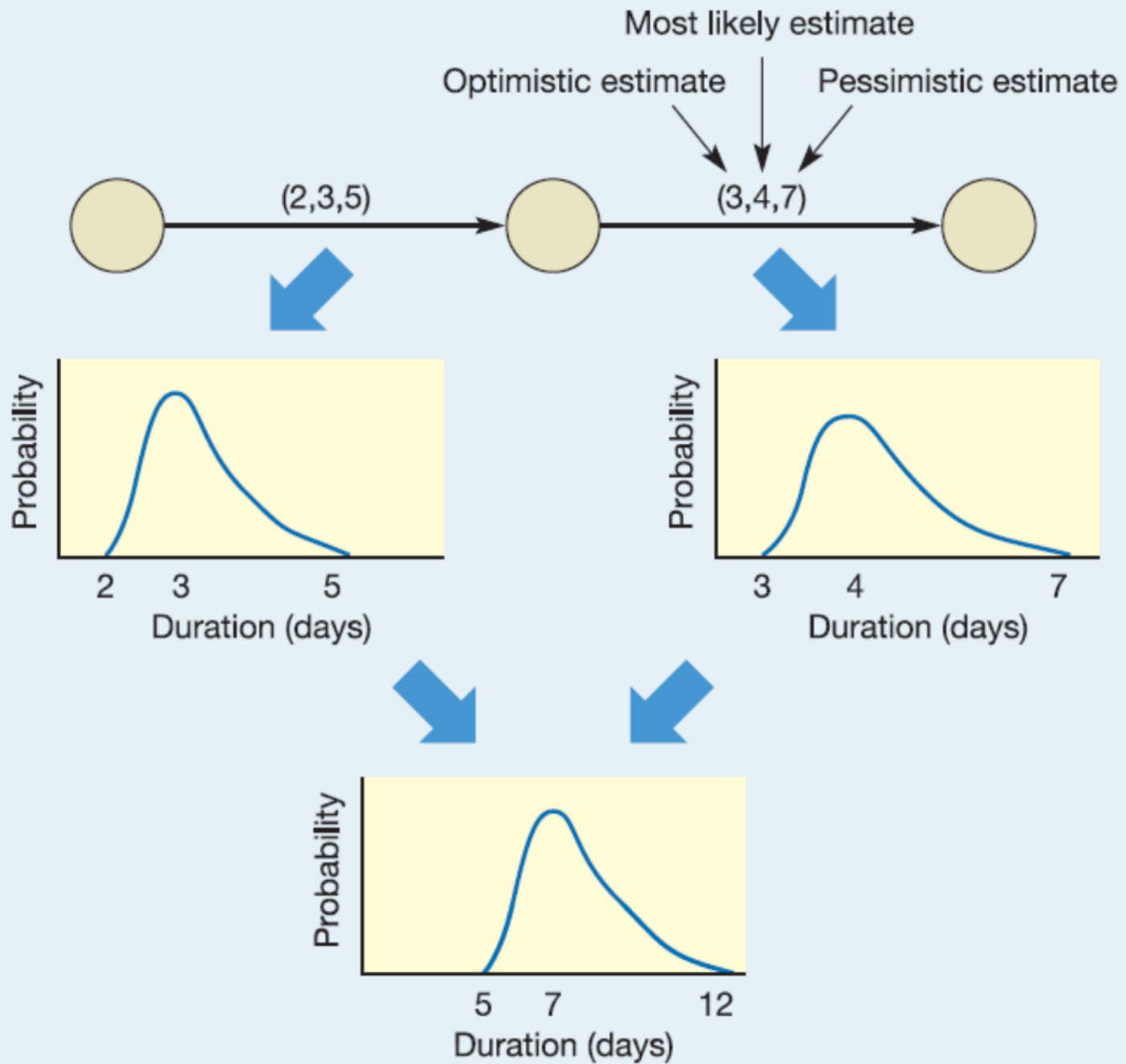
t_l = the most likely time for the activity

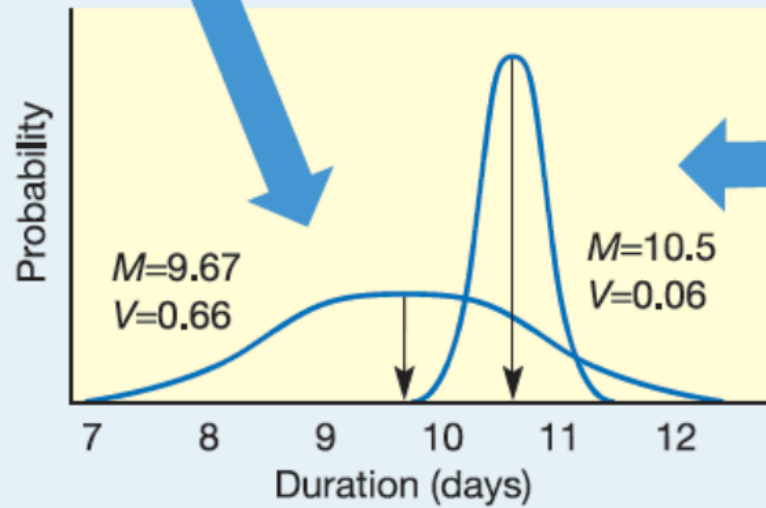
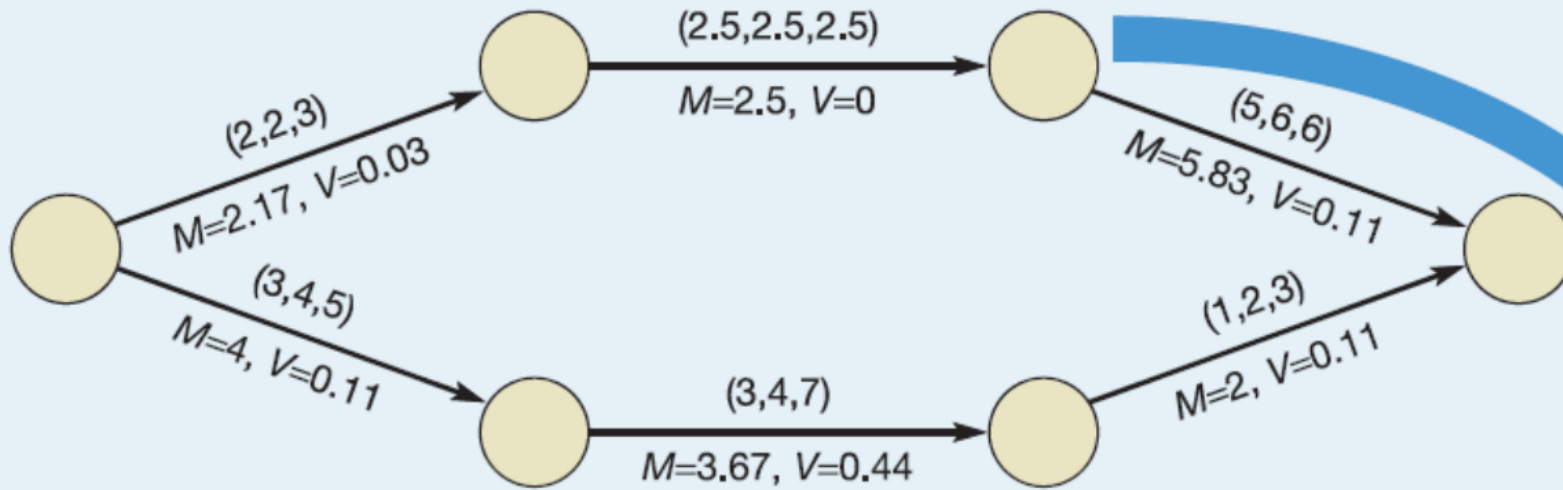
t_p = the pessimistic time for the activity.



Prezi

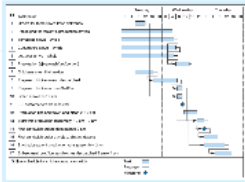






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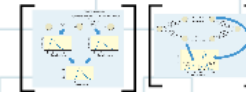
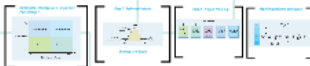
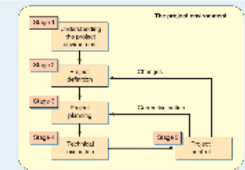
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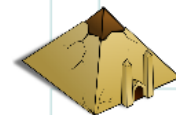
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