











- ? To recap on why projects fail
- ? To be able to describe the CPA process
- ? To explain how a critical path can be identified













? Poor planning

Réasons Projects Fail Are the resources identified available?

- ? People
 - Are there enough?
 - Do they have the right skills?
- ? Technology
 - Is the technology available?
 - ? Is it reliable?
- ? Political
 - Have all stakeholders agreed the project objectives?
- ? Financial
 - Are the sufficient funds available?
 - Is the right person in charge of the funds?
- ? Environmental
 - Will the weather affect the project?
- ? Physical risks
 - * Have risks been identified and action put in place to minimise the











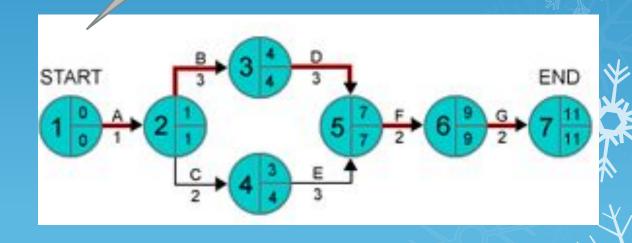


Critical Path Analysi

How might CPA minimise some of the risks of project failure?

- ? Critical path analysis is a project he that;
 - ? identifies critical activities
 - ? Identifies the logical second of tasks
 - ? Identifies the overal . oject milestones and end date







Why do we use it?



Determines the time to complete the project and key milestones



- 2. Allows tracking of critical activities
- 3. Provides a visual presentation of the project







5 Steps in Critical Path Analysis



- 1. Specify activities
- 2. Establish dependencies & Activity Sequence
- 3. Produce network diagram
- 4. Estimate the completion time for each activity
- 5. Identify the critical path (longest path through the network)





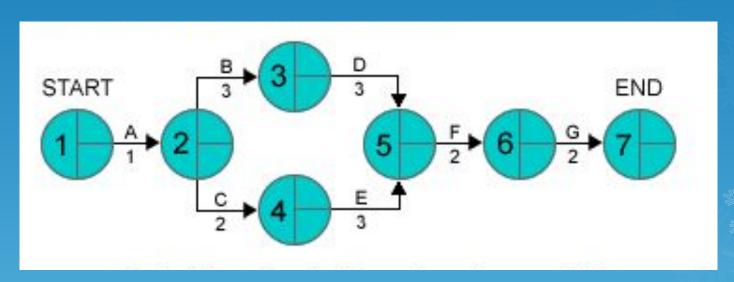






Network Diagram













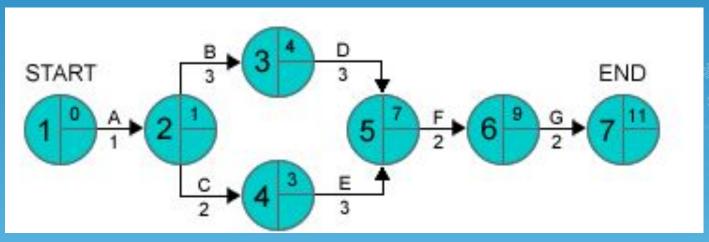


Earliest start times (EST)











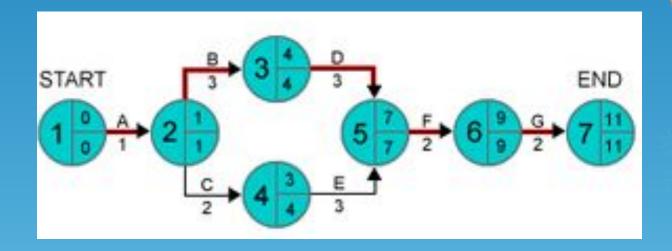






Do you notice a problem with any of the latest finish times?

Subtract







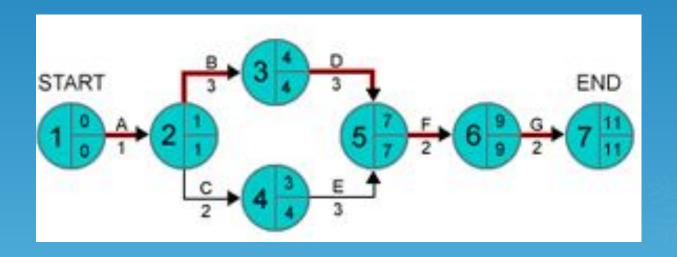






Slack time

Aka float time



Slack time is the difference between est and Ift



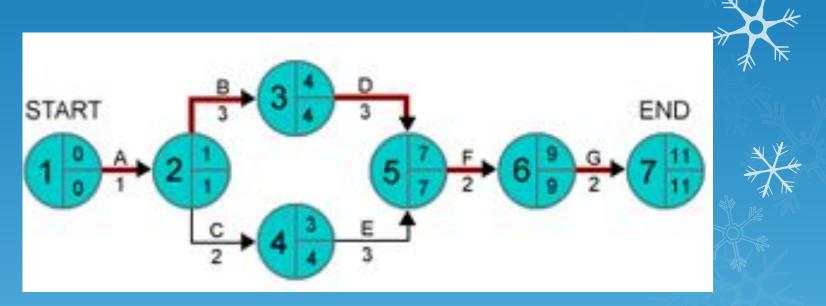












Critical path is the path where the est = Ift







Task (P2)

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- 1. Describe the CPA process
- 2. Explain the terms slack time, earliest start time, latest finish time and critical path
- 3. Explain how the critical path can be identified







