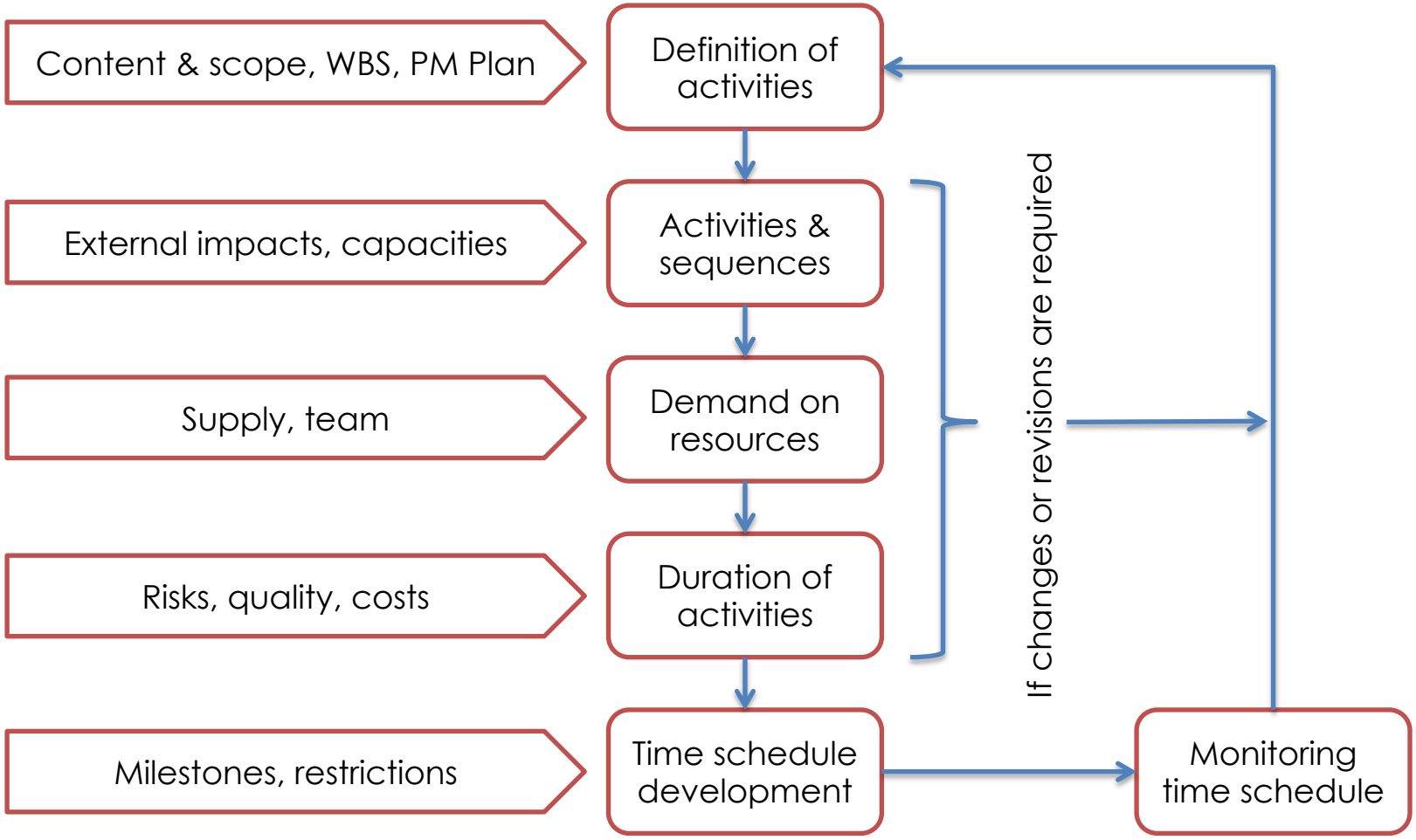
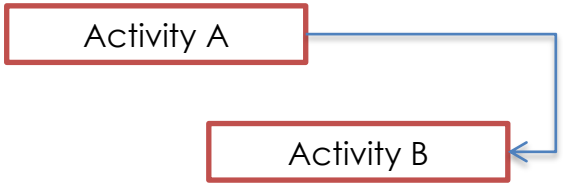
Flow chart with principles of time planning



Finish-to-Start

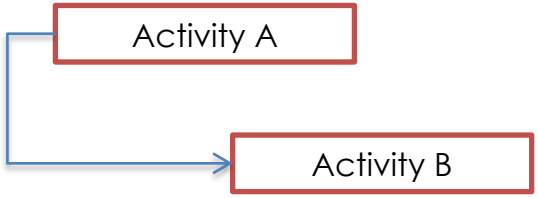
B starts when A is finish
Finish A determines start B

Finish-to-Finish



B finish after A finish
Finish A determines finish B

Start-to-Start

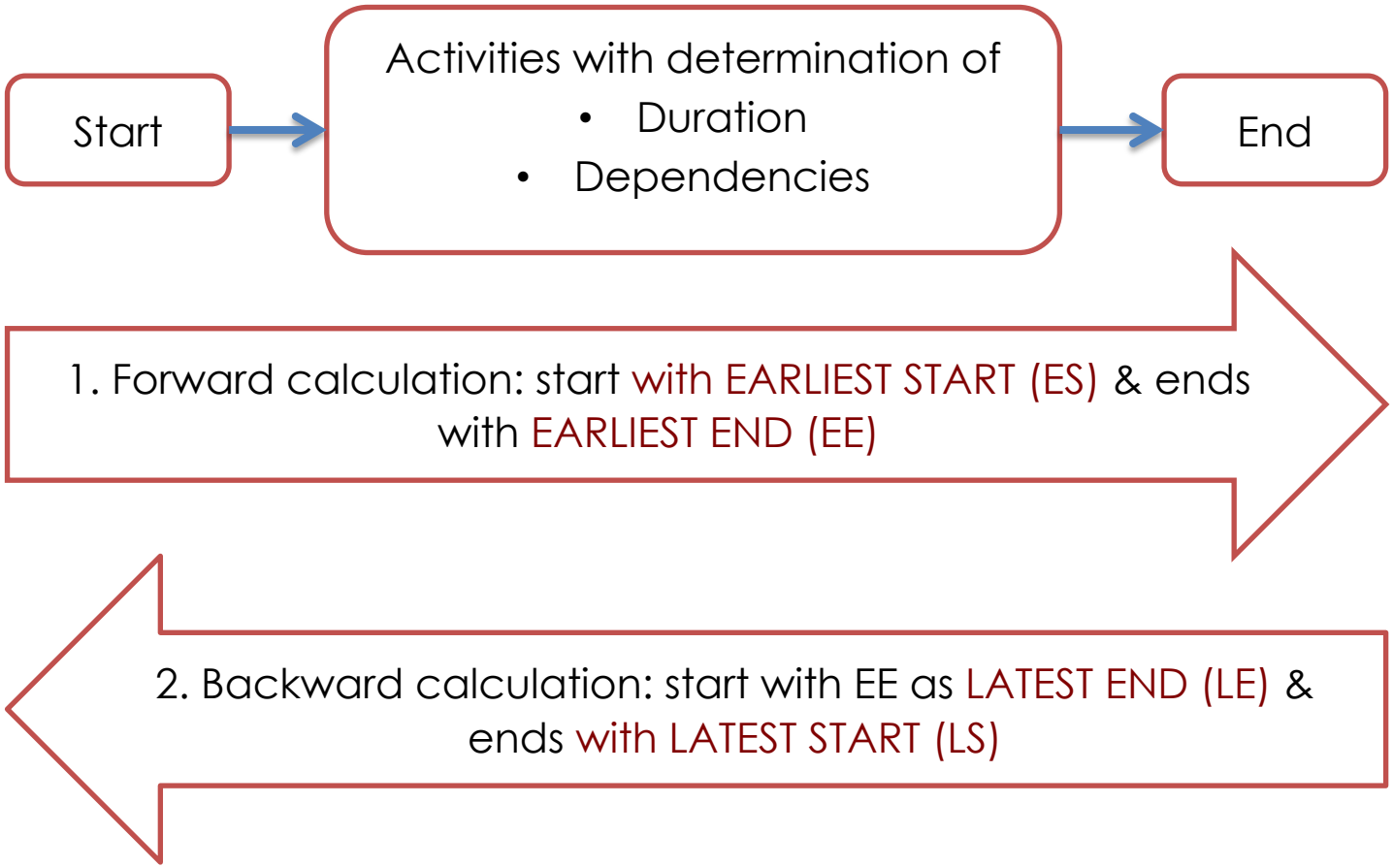


B starts when A has started
Start A determines start B

Start-to-Finish

B finish after A started
Start A determines finish B

Time planning – calculating critical path



Critical path method determines the slack od buffer

– total slack (TS)

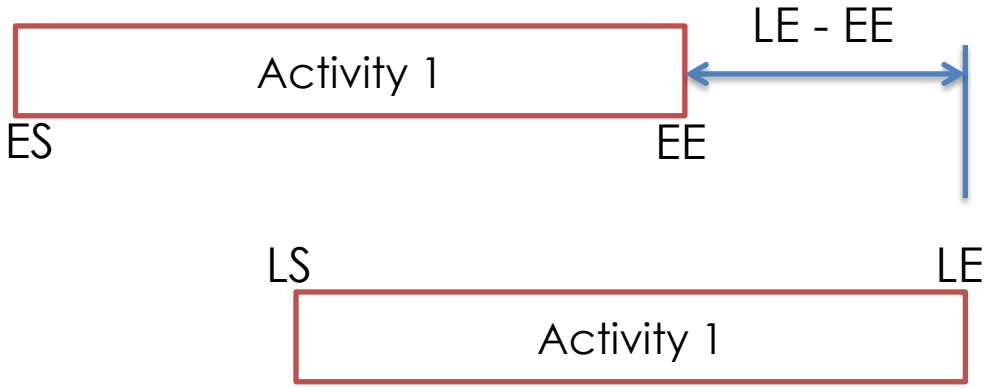
- TS = LE – EE = LS – ES of one single activity
- Determines the period for shifting the activity without affecting the project end.

– free slack (FS)

- FS(2) = ES(1) – EE(2) two depending activities
- Determines the period for shifting activity (1) without affecting start of activity (2).

Calculating time schedule – critical path

Definition buffer & critical path



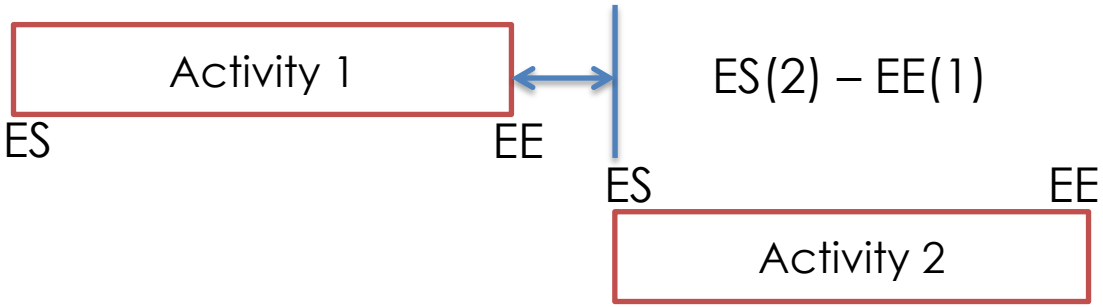
LE – EE = total slack or buffer

If LE – EE = 0, activity is on critical path

No time reserves

Calculating time schedule – critical path

Definition buffer & critical path



ES(2) – EE(1) = free slack or buffer of activity 1

If ES(2) – EE(1) </= 0, activity on critical path

No time reserves