

Chapter 1

1.1 Phases

Project lifecycle

1. Initiation

- Projects objective or need is identified
- “Can/should we do the project”
- Roles are appointed

2. Planning

- Heaviest step for the project manager
- Necessary steps are specified
- Teams identify work/task needed to be done
- Budget estimate costs
- Known as **Push approach**
- Identify the possible risks of the project and mitigations are put in place and communicated to stakeholders
- Using agile project management is called **Pull based approach**

3. Implementation

- Project is put into work
- Communication about progress is key both to project managers and stakeholders
- Regularized team meetings such as SCRUMS

4. Closure

- Releasing the final deliverables
- Handing documentation over to business
- Communication of finalization to stakeholders

Throughout the projects lifecycle we have “mini-livcycles” called **process groups** which are the following steps

1. Initiating:

2. Planning

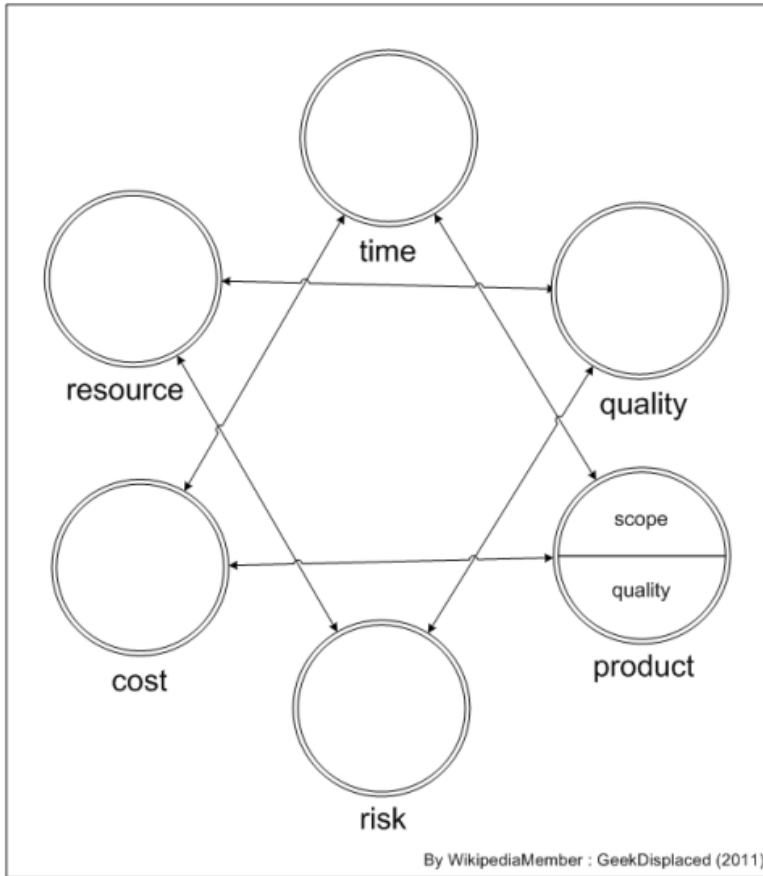
3. Executing

4. Monitoring and controlling

- While work is being done on the project we need to monitor progress with
 - The plan
 - The requirements
 - The budget
 - The quality

5. Closing

Project management star model



1.1.1 PMBOK

Managing

- Integration
 - Team defines scope of work
 - Preliminary schedule
 - Conceptual budget
 - Team builds a plan for executing the project based on the project profile
 - Plan for developing and tracking detailed schedule
 - Plan for building budget and estimating and tracking costs
 - IT plan (including communications)
 - Diagrams, flowcharts and responsibilities matrices
- Scope: What will be done defined in an execution plan
 - Description of the scope

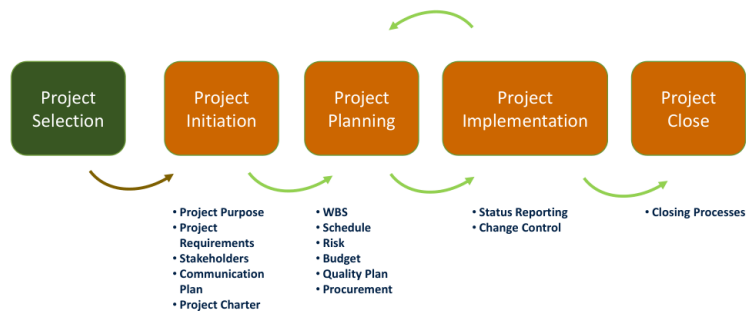
- Product acceptance criteria
- Project deliverables
- Project exclusions
- Project constraints
- Project assumptions

Note:-

Change in the scope of a project can be very costly so we must manage and prepare for inevitable change

- Time/Schedule
 - Schedule and incremental milestones in accordance with key features/dates
 - The longest path to completion is called the **Critical path**
 - If critical path is shorter than the allotted time: *Positive float or slack*
 - If critical path is longer than allotted time: *Negative float*
- Costs
 - Ballpark estimates increase in accuracy with more experience with previous projects and their associated actual versus estimated budgets
 - As the project proceeds we must compare the estimate against actual costs and if there is deviation corrective action must be taken and shared with stakeholders
- Quality
- Human Resources
 - Generally there are 2 types of members
 - * Functional managers and team who work on the tech and development of the project
 - * Process managers and team focus on the “Project” side of things such as planning, costs, and communication
- Communication
 - Regularized meetings to communicate progress and if it is going according to plan and if there is any corrective action needed
- Risk:
 - The likelihood that an event will happen during the life of the project that will negatively affect the achievement of the project goals
 - Project risk plan reflects the risk profile of the project and balances the investment of the mitigation against the benefit of the project
 - Periodic risk-plan reviews during the life of the project
- Procurement: External services/vendors
- Stakeholders

Waterfall Project lifecycle



1.2 Stakeholders