Project Management

The appropriate approach to streamlining the business processes

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A Project

is the process and activity of:

- Planning
- Organising
- Motivating
- and controlling resources, procedures and protocols to achieve specific goals in scientific or daily problems
- A project temporary endeavour to produce a unique product, service or result
 - a defined beginning and end (usually time-constrained
 - often constrained by funding or deliverables
 - undertaken to meet unique goals and objectives,
- Usually to bring about beneficial change or added value.



Why is it important in business?

- The business environment changes so quickly
 - Need to utilise funding and resources to make projects pay within your business programme
- Technologies change
 - Need to review technologies and make the best decisions at the time and make them work for you
- Skills are changing that are needed
 - Need to be flexible on obtaining special skills to ensure programmes are met

Different Approaches to Projects

Traditional approach – 5 Phases

- 1. initiation
- 2. Planning and design
- 3. Execution and construction
- 4. Monitoring and controlling systems
- 5. Completion





The Project Manager

- Project managers
 - responsibility of the planning, execution, monitoring/control and closing of any project
 - (he may be involved in initiation too)
- It's the Key to project success but needs:
 - A strong definition of project manager:
 - WHAT ARE HIS Responsibilities
 - Reporting route (up and down management structure)
 - Authorities (ability to agree contracts)
 - The potential Budget and business case**
- Access to information to:
 - Agree scope with Clients
 - Associated costs
 - Sub contract partners
 - 'On costs'
 - 'Profit' required
 - Control costs



1. Initiation

- Analysing the business needs/requirements in measurable goals
- Reviewing of the current operations
- Financial analysis of the costs and benefits including a budget
- Stakeholder analysis, including users, and support personnel for the project
- Project procedure including costs, tasks, deliverables, and

schedule

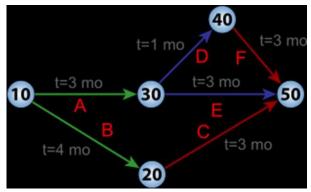


Agree – WHAT NEEDS TO BE DONE and WHEN



2. Planning and design

- Determining how to plan (e.g. by level of detail)
- Developing the scope statement;
- Identifying deliverables and creating the work breakdown structure;
- Identifying the activities needed sub contracts?
- Deliverables and networking the activities
- Logical sequence
- Estimating the resource requirements for the activities;
- Estimating time and cost for activities;
- Use Project Cost System
- Detail Design
- Developing the budget;
- Risk planning
- Formal approval to begin work.





'Pert' network for a seven-month project with five milestones

3. Executing

- Direct and manage project execution
 - REGULAR PROJECT MEETINGS SHORT!
- Quality assurance of deliverables
- Acquire, develop and manage Project Team
- Distribute information
- Communicate and Manage expectations
- Organise procurement
- Test the deliverables against the initial design
 - Commissioning
 - Snagging
 - Performance and guarantee

4. Monitoring and Controlling

- Measuring the ongoing project activities ('where we are');
- Monitoring the project variables
 - Cost
 - Effort
 - scope, etc.
 - Check against the project management plan and the project performance baseline (where we should be)
- Identify corrective actions to address issues and risks properly (How can we get on track again)
- Influencing the factors that could change the project scope.
 - Control so only approved changes are implemented.
- Scope change nearly always costs money and delays the project.



5. Closing (including snagging)

- Closing includes the formal acceptance of the project
- Administrative activities include archiving the files and documenting lessons learned.
- Contract closure: Complete and settle each contract and close each contract applicable to the project or project phase.
- Project close Finalise all activities across all of the process groups to FORMALLY close the project or a project phase
- Tell the organisation that the project is closed

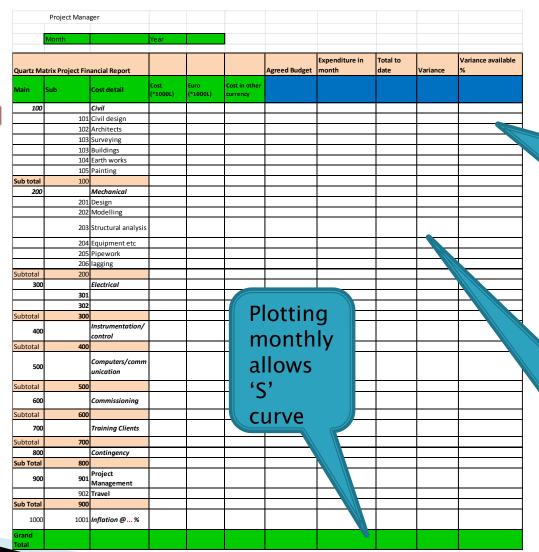
Tools

- 1. Must have a Cost analysis system to:
 - Develop the Total Project Budget
 - To agree Project Costs internally
 - COMPANY OVERHEADS
 - PROFIT?
 - Monitor ongoing costs at high level and in detail
 - To communicate to the 'team'
 - To learn from history
- To build up cash flow requirements/financial control
- > To forward plan 'own business development plans' and cash requirements



Management Cost Control Report

Need to be updated and controlled Monthly

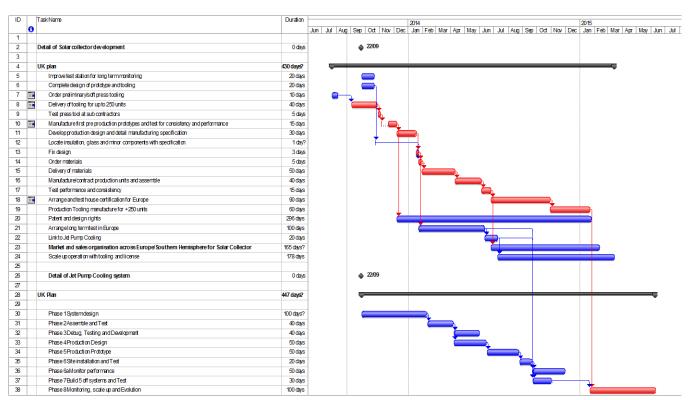


PM, CEO e.t.c. can control very quickly

Section leader/PM can see rate of expenditure and investigate

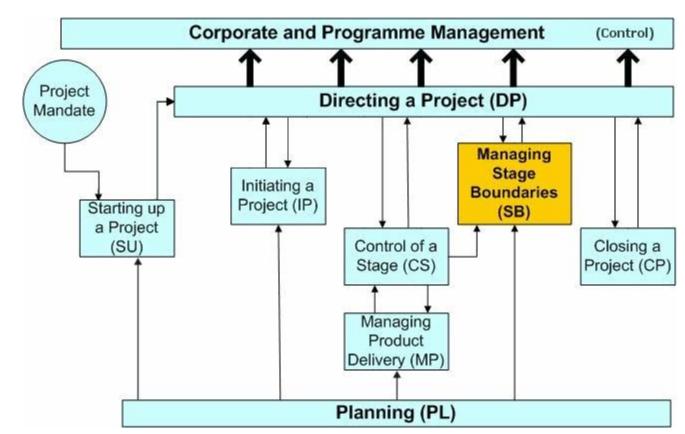
2. Planning Tool/Programme Gannt Chart

 Vital for COMMUNICATING to team, clients and sub contractors



Other project systems

PRINCE2 (also used in Ether Riverals) ocess model



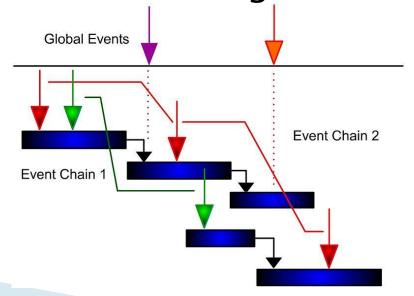
PRINCE2 focuses on the definition and delivery of products, in particular their quality requirements.

Critical chain project management

- A method designed to deal with uncertainties while taking into consideration:
 - limited availability of resources (physical, human skills
 - management & support capacity
 - Time
- A project plan or work breakdown structure (WBS) The plan is worked backward from a completion date with each task starting as late as possible

Event chain methodology

- Event chain methodology is the next advance beyond critical path method and critical chain project management
- Event chain methodology helps to mitigate the effect of motivational and cognitive biases in estimating and scheduling.



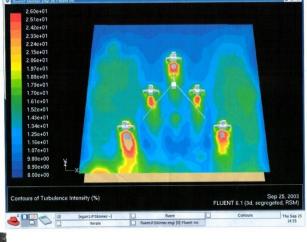
'Back to TRADITIONAL'

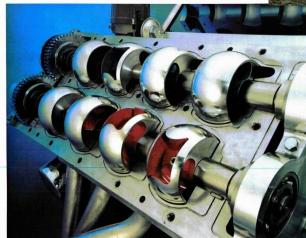
- Things go wrong risk assessment/know how to 'go round' problems
- Once funds are committed important to complete project within budget and on time.
- Delayed projects nearly always cost more!
- Late spend' costs your company more (financing costs)
- Your image with your Clients is valuable!



Some Projects







SPHERICAL ROTARY VALVE IN PLACE . SINGLE PORT ROTARY VALVES

