

Integrated Solutions



Insight into Managing Large Capital Projects in the Wood Industry

About Cogent

Our Mission:

Empowering our clients to achieve a safe, reliable and efficient operation

Our Achievements:

Recipient of over 20 awards and rankings











Vancouver, BC Canada



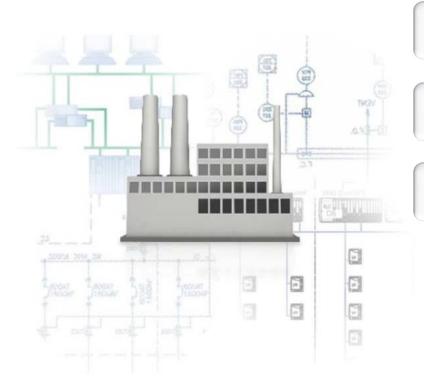
Project Services & Solutions

Plant-wide

Electrical Power Systems

Controls and Automation

Fire Safety



Project Management

Industrial IT

Monitoring Systems

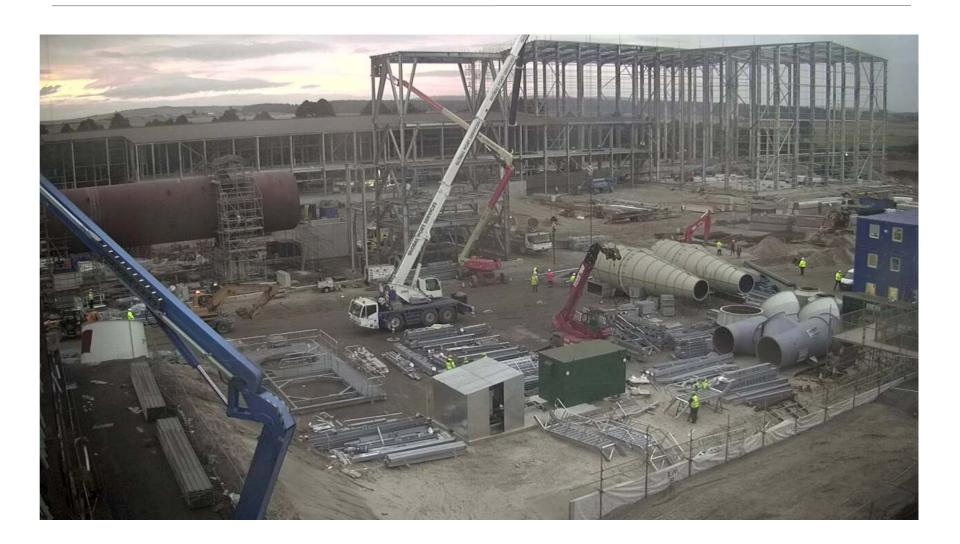






















Project Elements

Insurance Finance Regulatory Compliance Risk Management Safety Lifecycle Commissioning & Start Up Purchasing Schedule Construction Fire Safety Site Management **Document Control** Communications Installation Project Goal Quality Engineering **Contracts** Wages Logistics Transition to Operation Technology



Industrial Project & Commercialization

INCEPTION COMMERCIALIZATION

Business

Corporate Strategy

Markets

Budget

Finance

Feed Stock

Location

Engineering

Civil

Mechanical

Electrical

Controls

Environmental

Safety

Procurement

Project Elements

Professional Services

Site

BOP

Utilities

Process Equipment

Construction

Site Management

Build

Install

Checkout

Commission

Operations

Recruitment

Training

Startup

Quality

Production

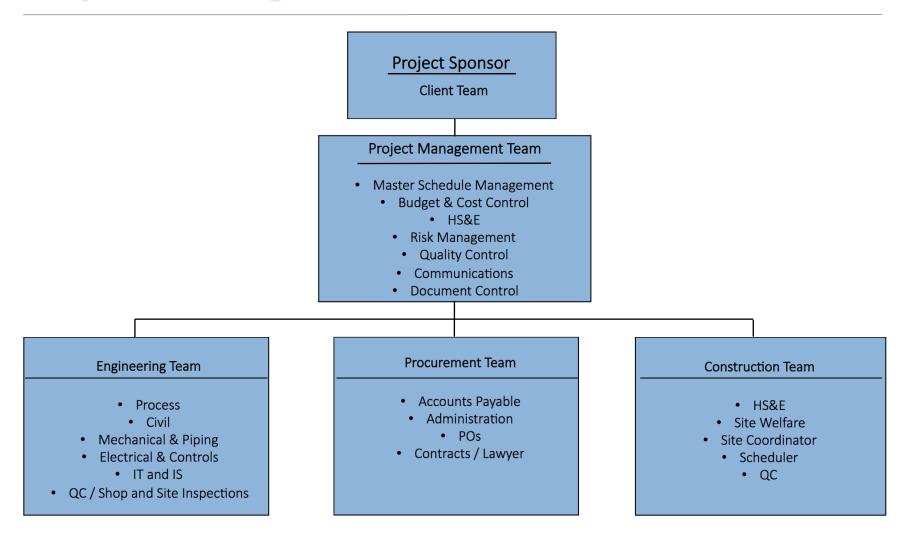
Project Management

Delivering Project Scope on:

- Schedule
- Cost
- H&S
- Quality



Project Management





Engineering Activities



Procurement Activities

Scope and Specification

Selection

Contracting

Monitoring and Controlling

Close Out

- Scope
- Standards
- Specification
- Performance
- VendorQualification
- RFQ
- COT
- Tech/Cost
- Award

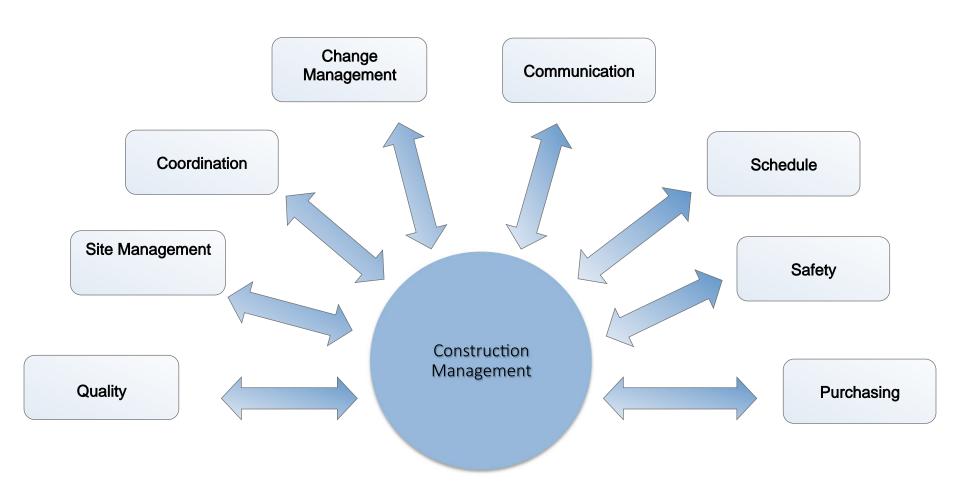
- Schedule
- Scope/Limits
- Terms of Project
- Inco Terms
- Ownership Transfer
- Insurance
- LC/GLC

- ChangeOrders
- On-Time Delivery
- Q/C
- Expediting

- Final Payment
- Manuals
- Contract
 Close Out

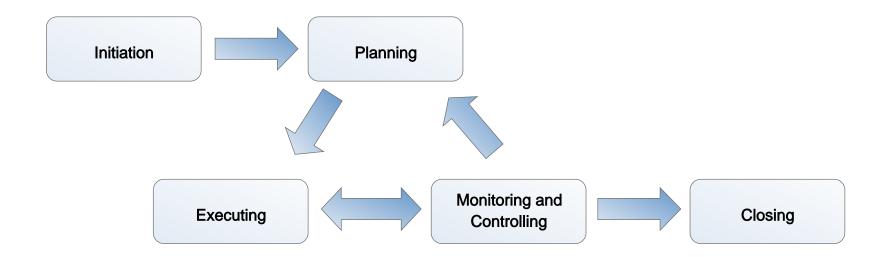


Site Construction Activities



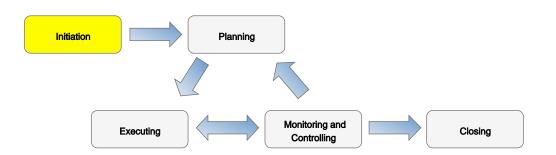


Project Management Processes



Initiation

- » Determines the nature and scope of the project
- Outlines project budget
- » Sets out the project goals



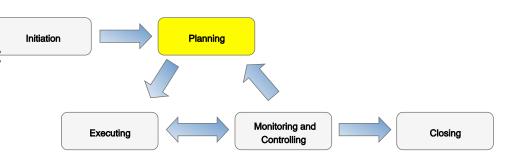
Planning

Developed by Project Manager:

Project plan (this is the master plan for the overall project)



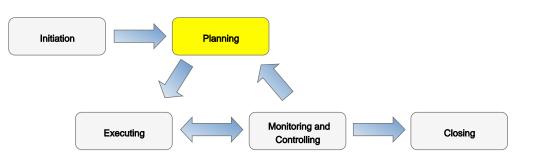
- » Procurement plan
- » Construction plan
- » Commissioning and start-up plan



Project Planning

Project plan has the following sections:

- 1. Scope of Work
- 2. Schedule
- 3. QC
- 4. Cost & Change Control
- 5. Safety
- 6. Risk Management
- 7. Communications / Documentation Management Plan (includes project reporting)

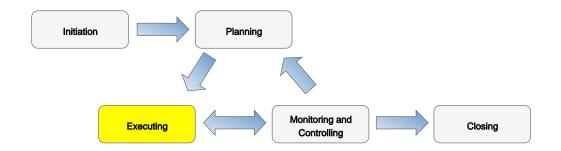


Scope

- » Assure Vendor / Package Scope Clarity
 - Schedule of document deliverables
 - Boundaries of equipment deliverables
 - Progress reports
 - Clients QC requirements (design compliance reviews, shop inspections)
 - Installation material deliverables
 - Interfacing requirements and boundaries (piping, air, water, power)
 - Installation and installation supervision
 - Site commissioning
 - Training
 - Start-up cost (breakage, oil, etc)
 - Customer acceptance
 - Start-up support
 - Spare parts and future pricing



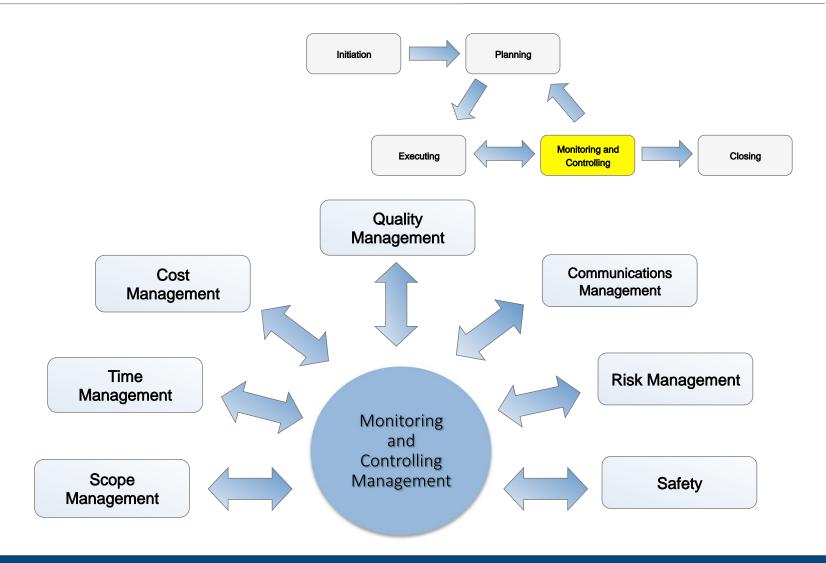
Execution



- » Execute the plans
- » Identify I/P and O/P of each task
- » Identify the timescales and resources required to do the tasks
- » Take into account the flexibility and potential changes in the plan
- » Integrated planning and execution



Monitoring and Controlling





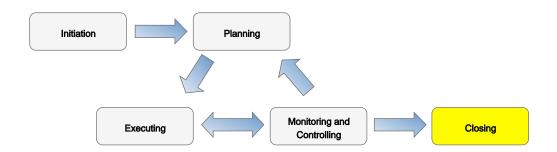
Monitoring & Controlling

Performed by Project Manager

- » Use KPIs to determine if the project is on track
- » Report project progress (e.g. monthly report)
- » Participate in weekly meetings
- Manage arising changes (e.g. change request form)



Closing



- » Issue final drawings
- » Ensure project backup
- » Develop a post-evaluation report: analysis and lessons learnt



Key Points

- Without scope, there is nothing to management. (Sweat the small stuff)
- 2. Without a plan, you can not monitor and control.
- 3. Define tasks (with I/P and output).
- 4. Have multiple schedules with I/P and outputs.
- 5. Think of installation as a moving assembly line with just in time concept. (Try to avoid double handling during installation)
- 6. Require acceptance at each transition point.
- 7. Good site coordination saves you a lot of money. It stops people from idling.
- 8. Weekly meetings c/w with issue tracking is a must.
- 9. Make sure you do integrated planning during construction.
- 10. Pledge loyalty to the project.



Contact

» Bijan Shams, M.Eng

President

Cogent Industrial Technologies

Email: Bijan.shams@cogentind.com

Tel: +1 604 207 8880 ext. 201