

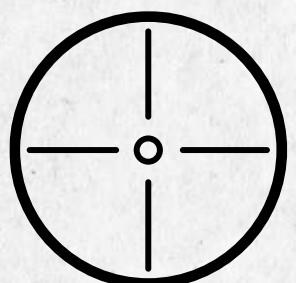
# PROJECT PLANNING & CONTROLS

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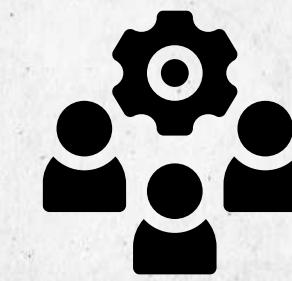
# Learning Objectives



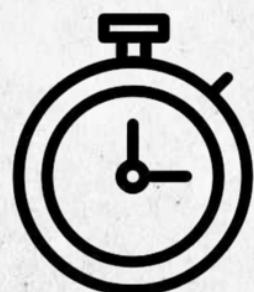
**The Classical  
Triple  
Constraint**



**Development  
Chain**



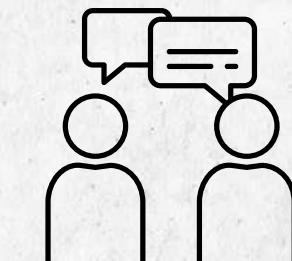
**What is Project  
Controls & its  
Functions?**



**Time & cost  
management  
processes**



**Highlights of Project  
Management Information  
System (PMIS) &  
Executive Reports**



**Take Away  
Points**



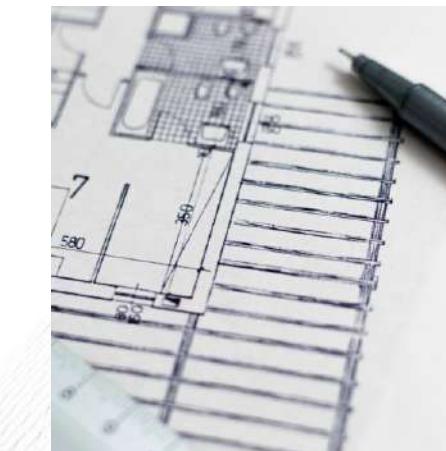
# Project Management Triangle

**The Classical Triple Constraint**



# Development Chain/Life Cycle

## Phases:



PROJECT  
IDEA

FEASIBILITY &  
BUSINESS  
PLANNING

PROJECT  
STRUCTURING

DESIGN  
PHASE

TENDER &  
NEGOTIATION

CONSTRUCTION  
&  
COMMISIONING

OPERATION  
(FM/AM/PM)

## Stages:



Project  
Idea  
Approval



Feasibility &  
Business Plan  
Approval



Project  
Structure and  
Cost Review  
Initiation  
Approval



Design &  
Cost Review  
Approval



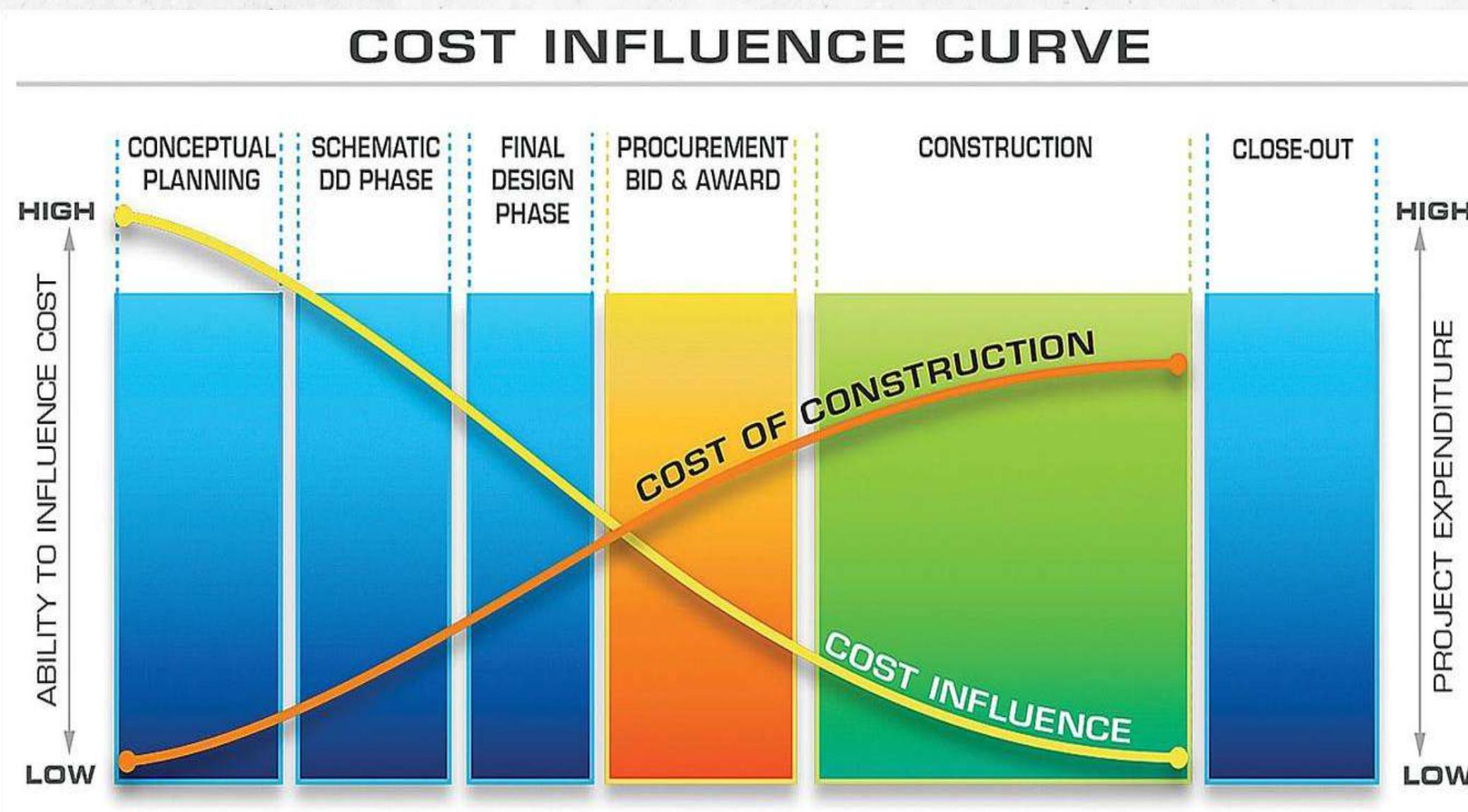
Construction  
Contact  
Approval



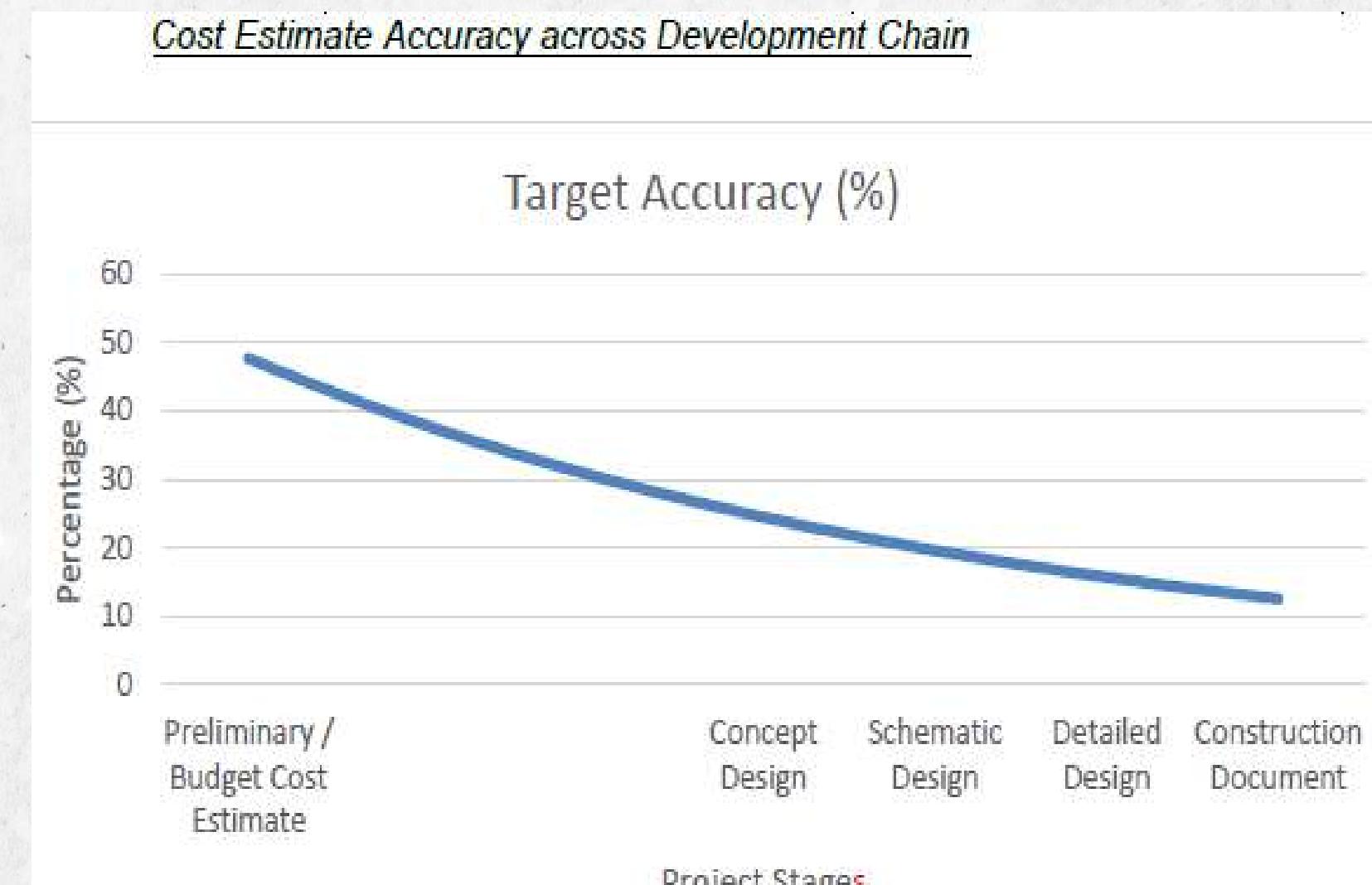
Project Closing  
& Operation  
/Asset  
Management



# Cost Estimate accuracy and cost of changes



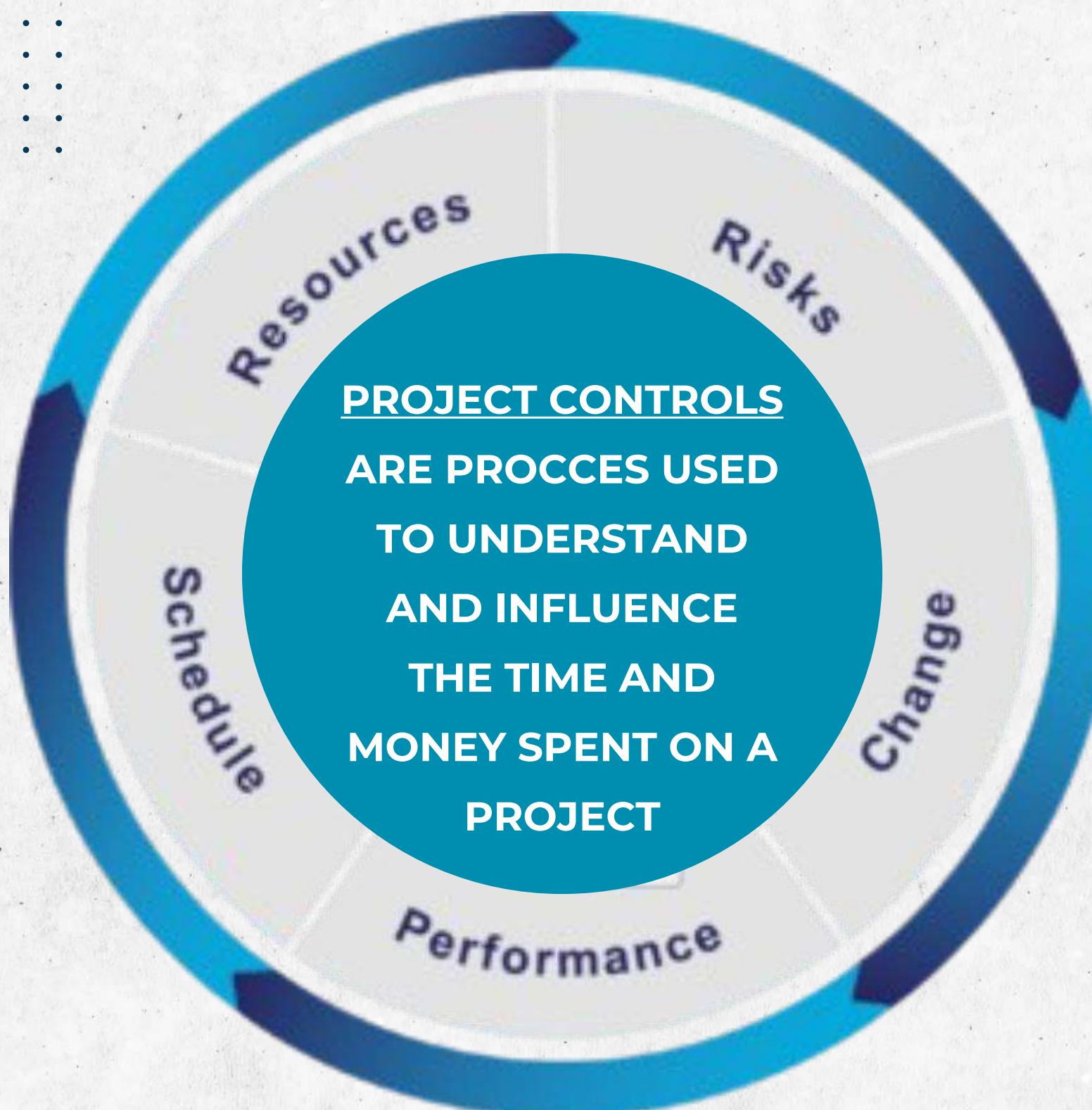
Cost Estimate Accuracy across Development Chain



NEXT SLIDE



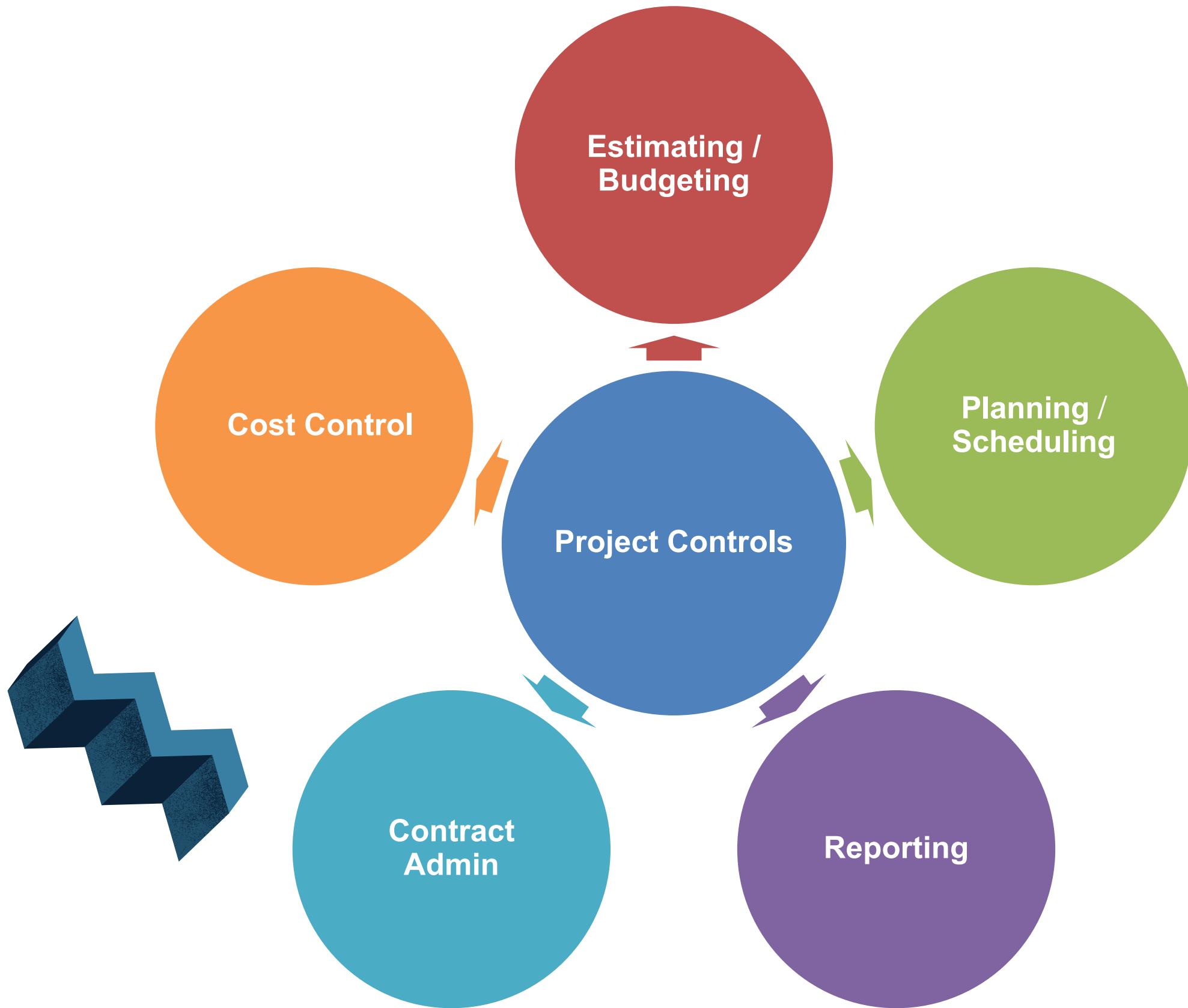
# What is Project Controls?



NEXT SLIDE



# Project Controls Functions



- **Pre-Contract Functions**

- Budgeting / cashflow
- Cost Planning – Design Development Stages (Concept, Schematic & Detailed Design stages).
- Cost Estimation – Tendering / Award stages
- Technical & Commercial Evaluations
- Contract document Reviews / Award

- **Post Contract Functions**

- Project Planning and Scheduling
- Progress Payments Certifications (Advance, Interim and Final Account)
- Change Management (Change Requests and Variation Orders)
- Claims and disputes
- Executive reports and analysis



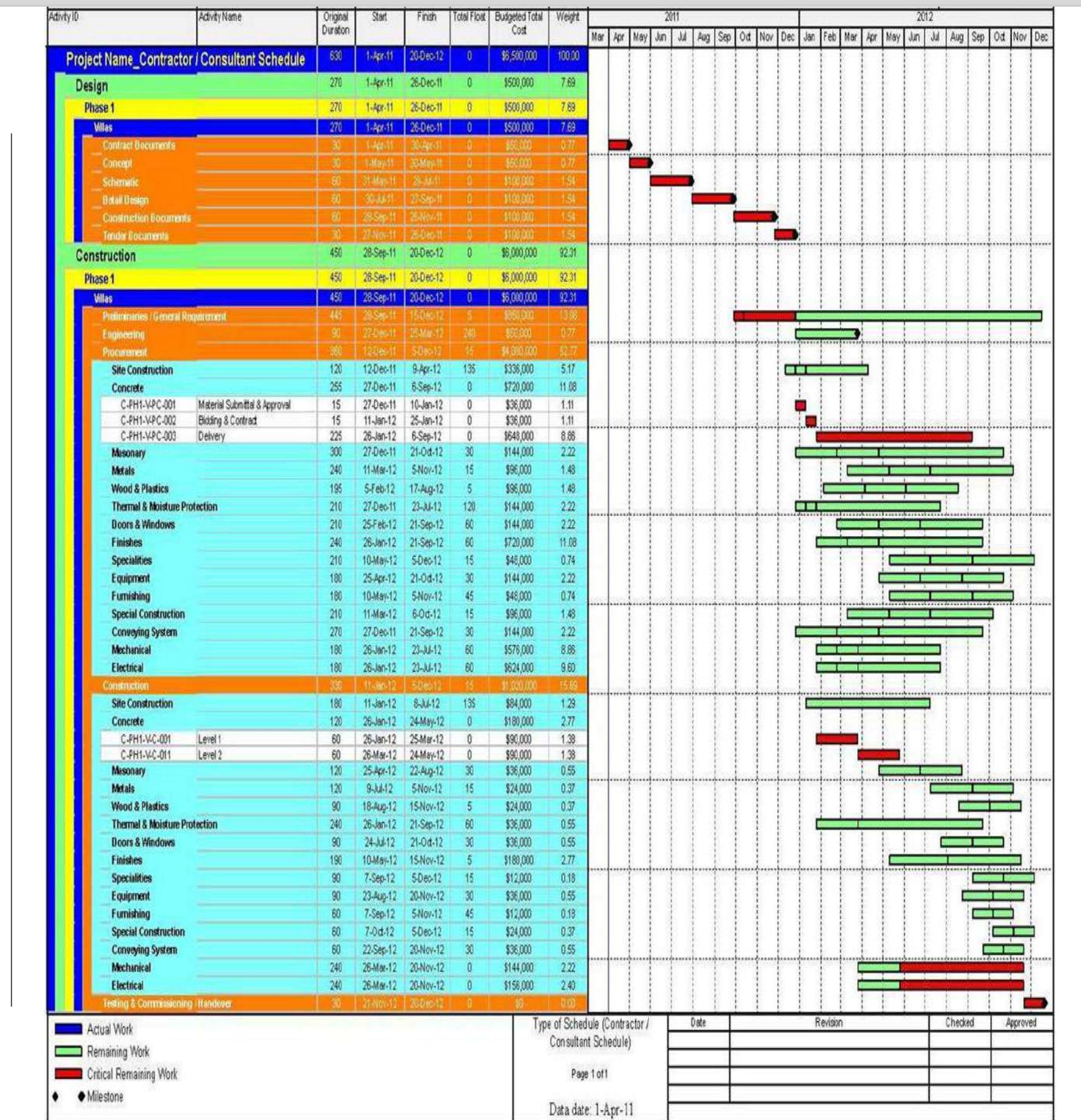
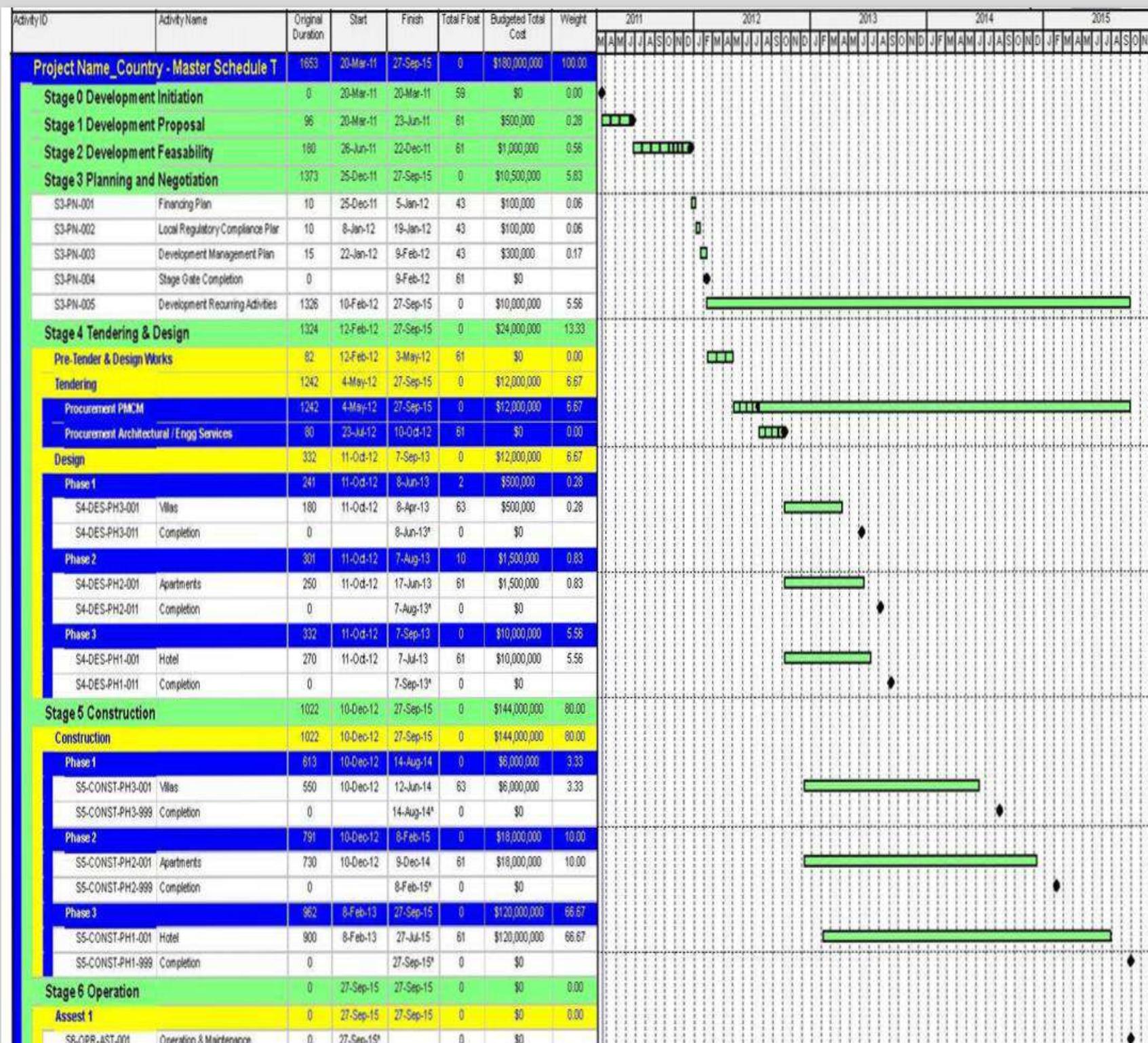
# Time Management (Planning & Scheduling)



There are multiple processes within the Time Management which are carried out according to the following systematic steps:

- Development of Master Programme
- Master Programme – Update
- Contractor / Consultant (Baseline) Programme of Works
- Contractor / Consultant Programme Update & Recovery
- Time Impact of Proposed Changes
- Extension of Time Claims

NEXT SLIDE  
→

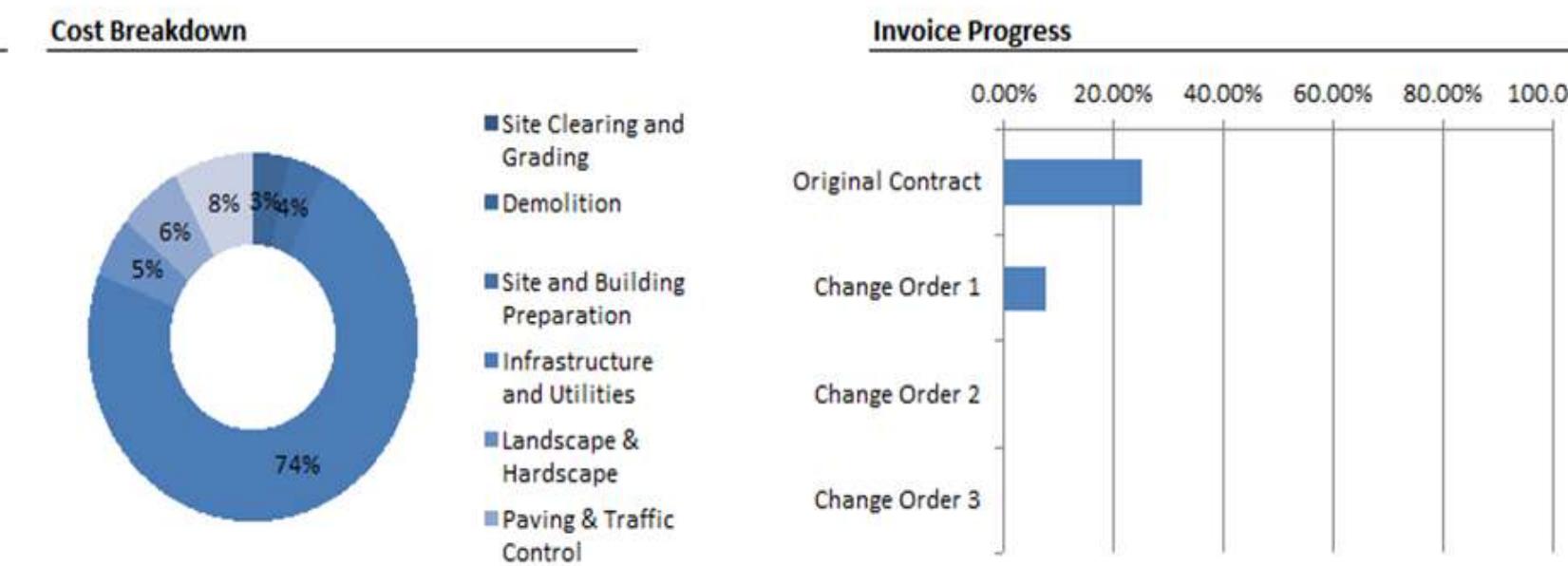
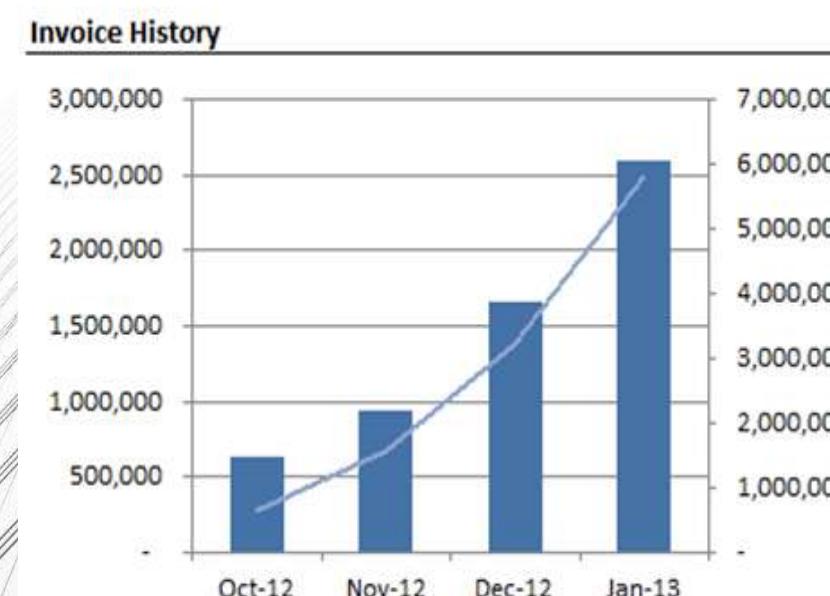
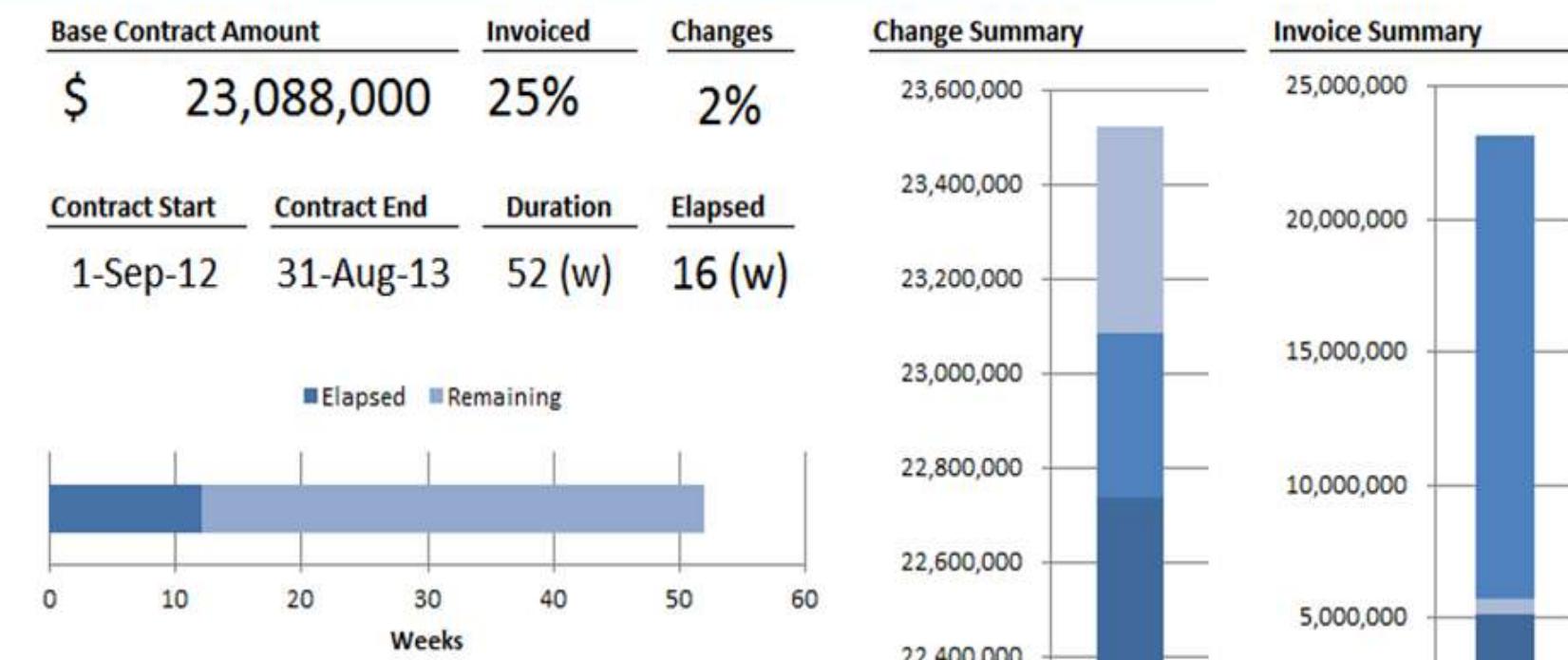


# Cost Management

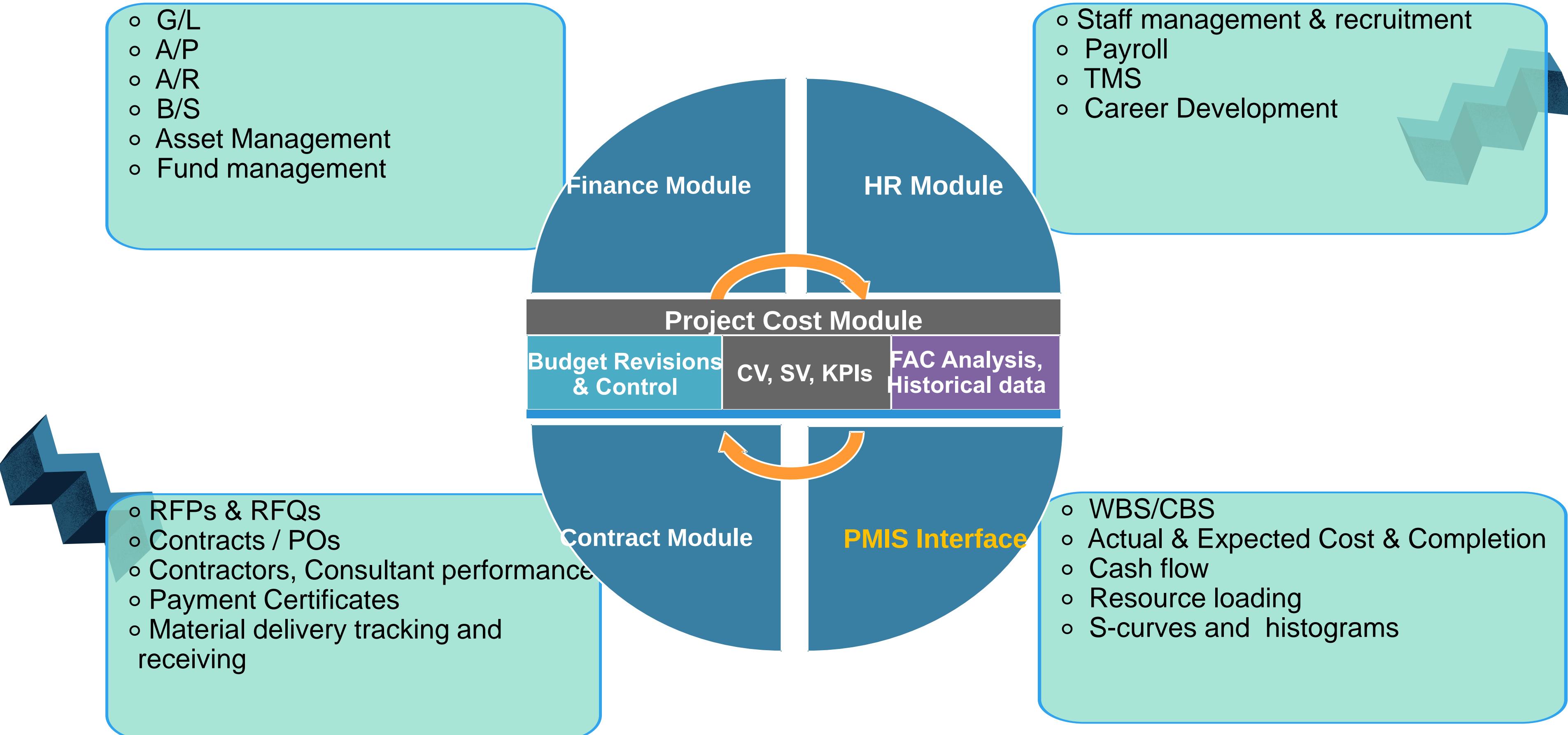
There are multiple processes within the Cost Management which are carried out according to the following systematic steps:

- Update project Budget & Cash flow
- Prepare Tender / Cost Estimates
- Commercial evaluations
- Contracts drafts and award for Consultants and Contractor(s).
- Prepare and issue / review ( as applicable) CPC, CR/VO, PR/PO, progress monitoring, EoT, claims, etc.
- Issue Statement of Final Account (SoFA)

Contract	Construction Contract
<b>Contract Detail</b>	
Vendor	Silvin General Contractors
Issued Date:	Jan-15-2012
Original contract value	\$ 22,738,000
Total approved changes	\$ 350,000
Current contract value	<b>\$ 23,088,000</b>
Pending Changes	\$ 435,000
Invoiced to date	\$ 5,815,000
Retainage	
General Work	\$ 581,500
Stored Materials	\$ -
Total less retainage	\$ 5,233,500
Balance to complete	<b>\$ 17,854,500</b>



# Highlights of PMIS - ERP Interface



# Development Dashboard

## Project Overview

Project Name

The Big Golf and Hotel Club

Project code

#####

Location



[Performance Summary](#)

[Project Overview](#)

[Benefits](#)

[Finance](#)

[Revenues](#)

[Costs](#)

[Development Progress](#)

[Risk & Control](#)

[Contractual Arrangements](#)

[Human Capital](#)

[Regulation](#)

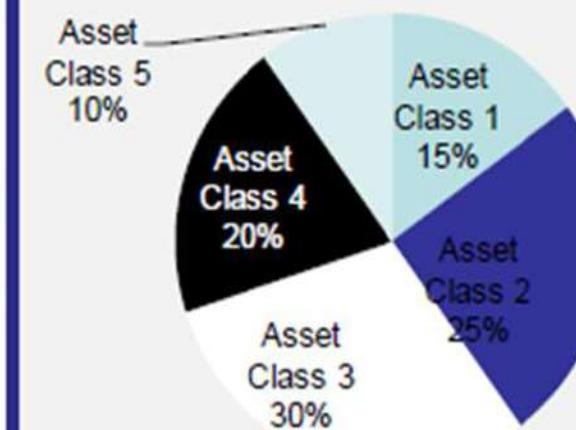
[H&S, Quality](#)

[Variations](#)

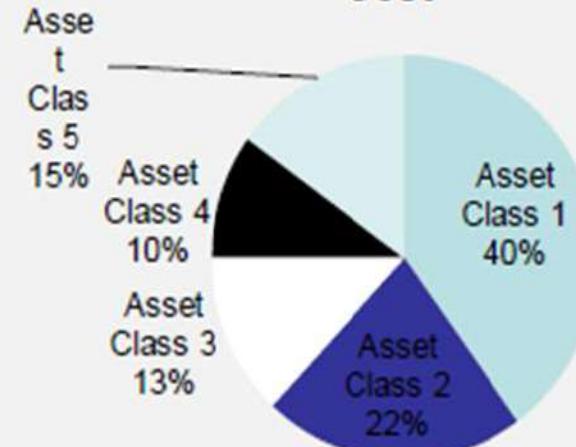
Project Name	The Big Golf and Hotel Club	Location	
Project Owner/Director	John Smith		
Description	Mixed use leisure and residential	SPV	
Contract type		Client	
Ownership Structure	QD (%) / Partner (%)	Asset class BUA	Retail (10%), Residential (90%)
Built-Up Area (BUA) / Land Area	600,000m2 800,000 m2	Current Status	Construction
Total Cost (QAR) (baseline)		Paid to Date (M QAR)	
Debt : Equity Ratio	65:35	Project IRR	12.6%
Start Date (baseline)	January 2008	Finish Date (baseline)	December 2013

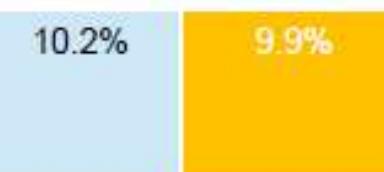


Asset Class Composition, by Area



Asset Class Composition, by Cost



Key Project Summary Status							
Net Cash Flow Status		Equity Injection		Debt Covenants	Equity Returns		
Baseline YTD Variance	Baseline (comp) Forecast Variance	Baseline YTD Actual YTD Variance	Baseline Forecast Variance		Baseline (Equity) IRR	Forecast (Equity) IRR	
50m 40m -10m	200m 190m -10m	130m 140m -10m	350m 360m -10m		10.2%	9.9%	

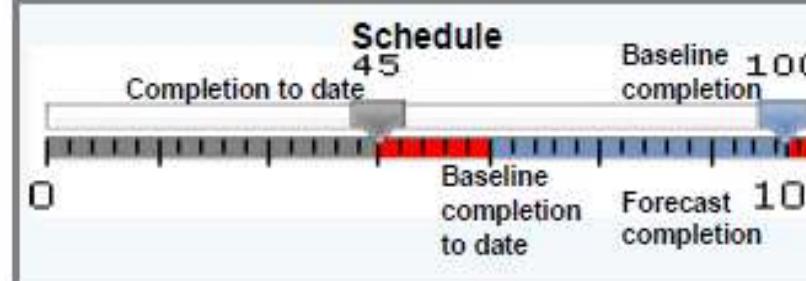
**Key Comments and Issues:**

- Negative are due to lower than expected sales – the Marketing Manager has been fired and new one hired
- The main contractor has suffered a major loss on another project and this has effected their cash flow. This is a major risk to viability of this contractor. Please see the risk schedule for full details.

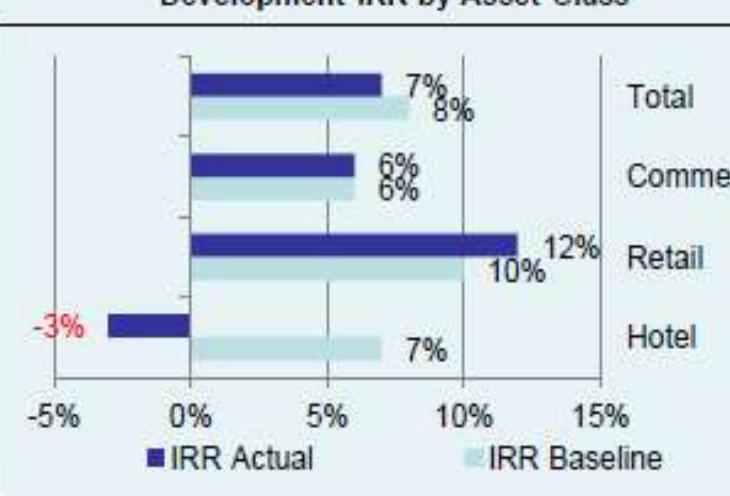
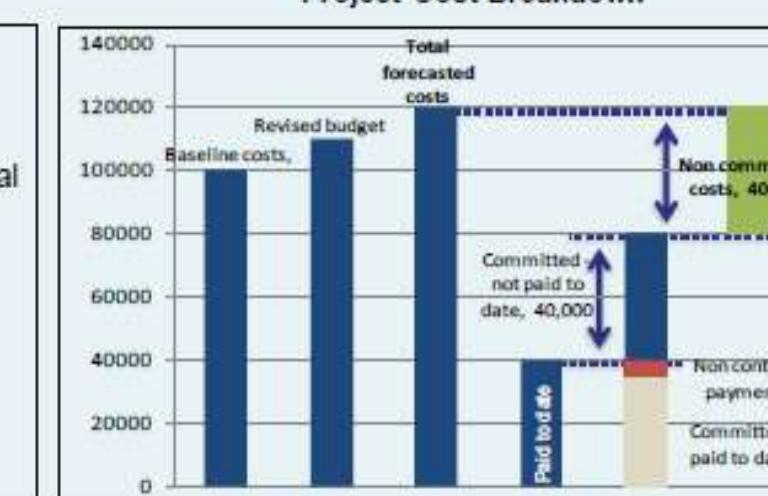
Key Risks & Issues (Current)		
Revenue	Behind target	36M / %
Cost	Behind Target	10m / %
Cash Flow	On Target	0

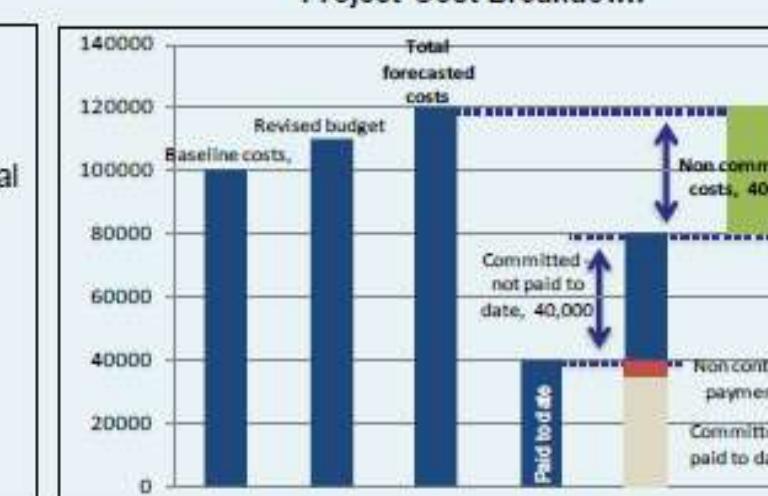
Forecast vs Baseline (To Complete)		
Revenue	Decrease	84m / %
Cost	Increase	23m / %
Equity IRR	Decrease	-2.7%
Debt Covenants	No Issue	

Actual vs Baseline (Current)		
Equity Injection Reqd	Yes	USD 8m / %
Debt Covenants	OK	
Additional Debt Reqd	No	

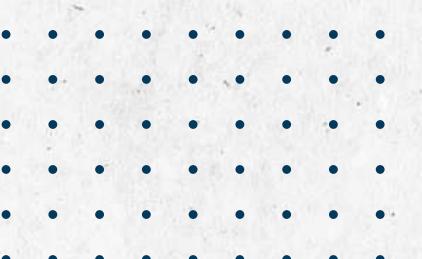


Project Finance (QAR m)		
	Current Status	Future Outlook
Loan to Value	OK	OK
Interest Coverage Ratio / Debt-Service Coverage Ratio	OK	OK

Key Project Financial Views		
Development Funding Requirements		
		
Development IRR by Asset Class		
		

Project Cost Breakdown		
		

# Development Dashboard (cont.)

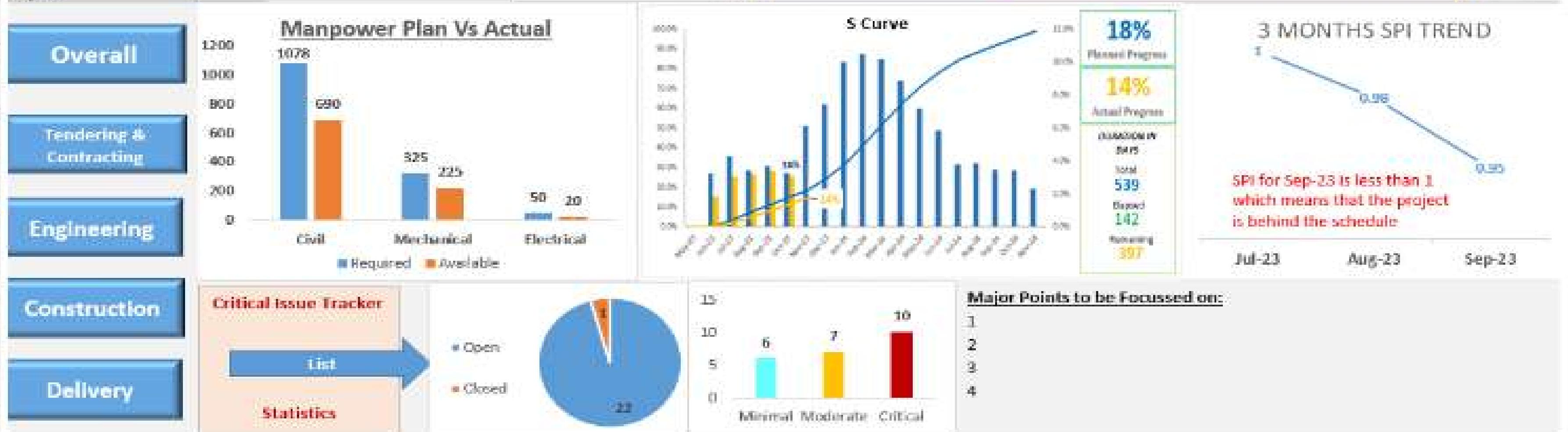
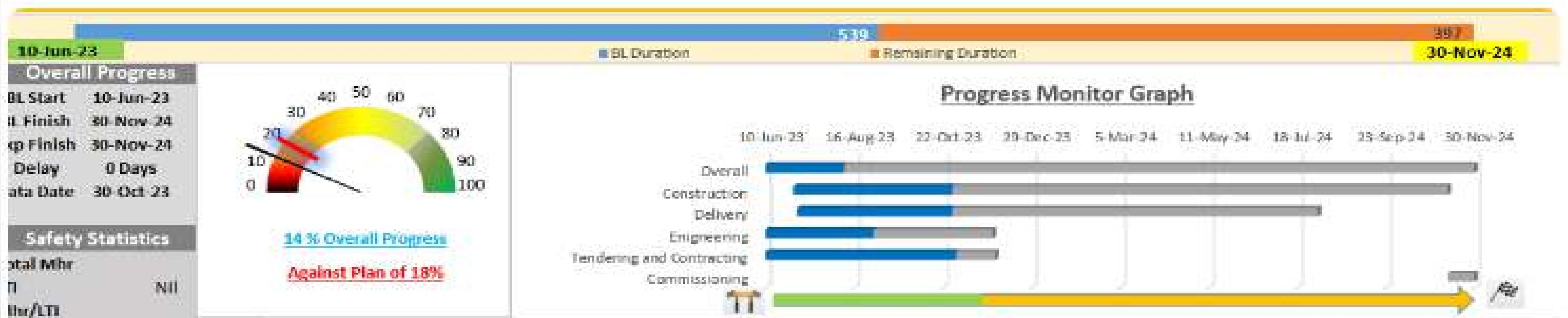


NEXT SLIDE





# Project Dashboard





# TAKE AWAY POINTS

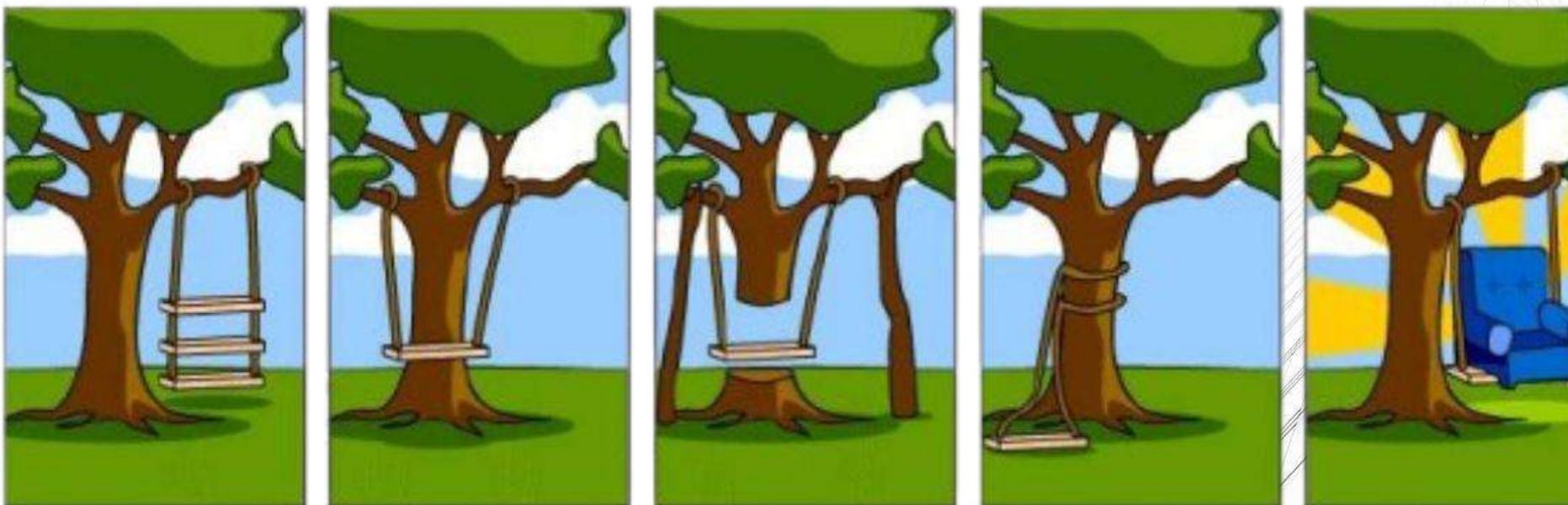
**READ THE CONTRACT THROUROUGHLY**  
BOQ IS NOT THE SCOPE

**STRICTLY FOLLOW NOTICE CLAUSES STIPULATED IN THE CONTRACT**

**MAINTAIN YOUR RECORDS & DOCUMENTATIONS FOR CLAIMS/DISPUTES**

**COMMUNICATION KISS RULE**

**STAKEHOLDER'S COORDINATION**



HOW THE PROJECT WAS DOCUMENTED

WHAT OPERATIONS INSTALLED

HOW THE CUSTOMER WAS BILLED

HOW IT WAS SUPPORTED

WHAT THE CUSTOMER REALLY NEEDED

HOW THE CUSTOMER EXPLAINED IT

HOW THE PROJECT LEADER UNDERSTOOD IT

HOW THE ENGINEER DESIGNED IT

HOW THE PROGRAMMER WROTE IT

HOW THE BUSINESS CONSULTANT DESCRIBED IT





# THANK YOU.

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**IMAD AYED**

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