



# GPF Induction Workshop

*Overview of Project and Construction Management*

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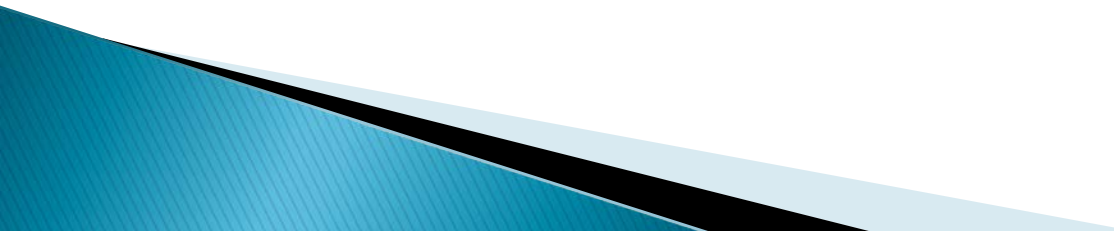
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*TOWARDS CREATING CONDUCTIVE  
ENVIRONMENT IN PROVIDING QUALITY  
SERVICES AND PRODUCTS TO OUR CLIENTS  
IN LINE WITH ISO 9001 STANDARDS*

# Overview

- ▶ Intro to Quality Management
  - ▶ Technical Processes of constructing a *Residential Building*
  - ▶ Project Management
  - ▶ Construction Management
  - ▶ Noteworthy Pointers
  - ▶ Discussion
- 

# Who is ISO and What Is ISO?

- ISO-International Organization for Standardization
  - ISO is a worldwide federation of national standards bodies.
  - Works through Technical Committees and has developed and published over 18,000 different ISO standards that are used internationally for subjects ranging from film speeds to wine glasses to quality management systems.
  - The official purpose for the issuance of ISO Standards is to facilitate world trade through standardization.
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# What is quality management all about?

Try to manage all aspects of the organization in order to excel in all dimensions that are important to “customers”

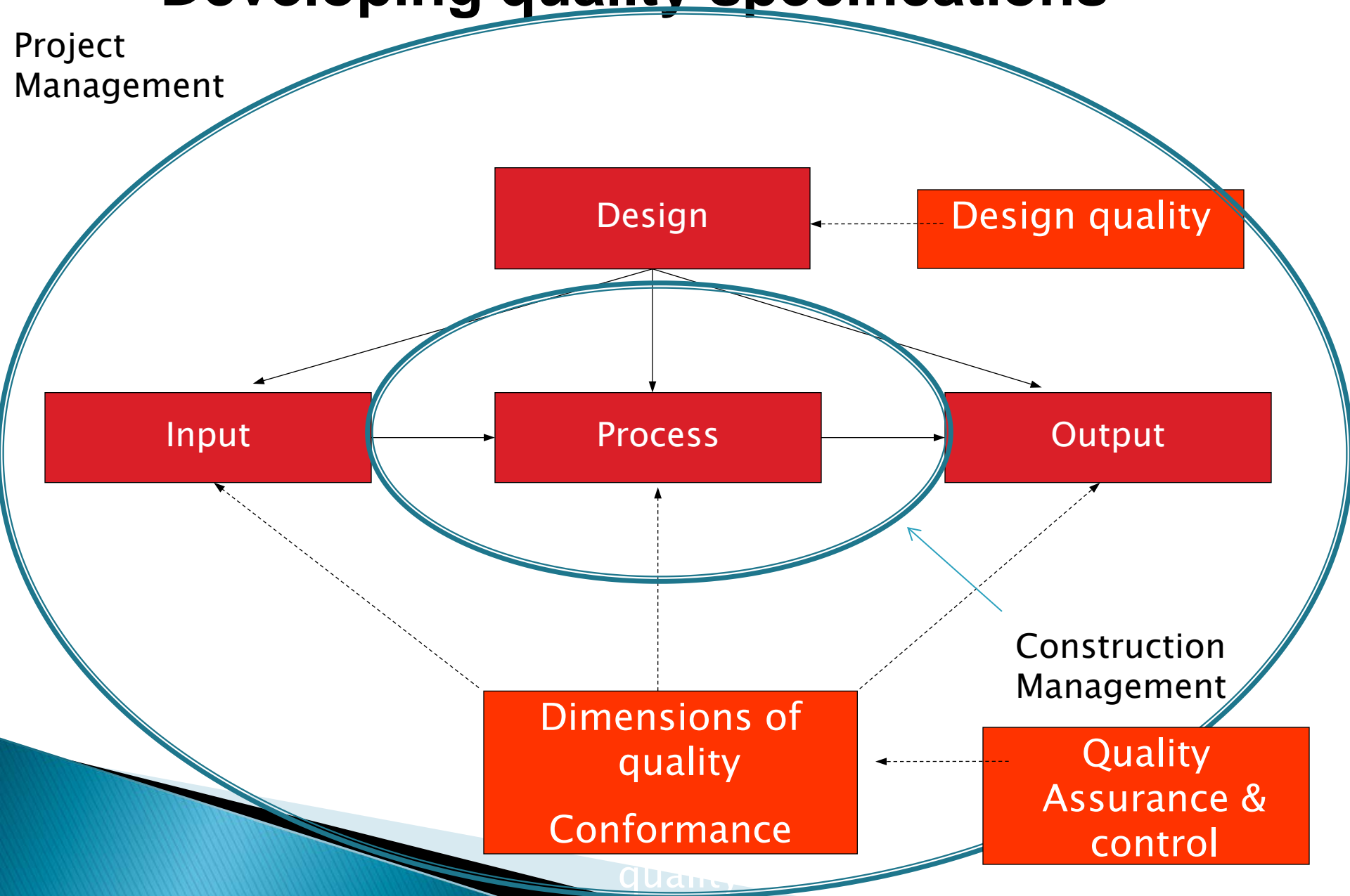
Two aspects of quality:

features: more features that **meet customer needs**  
= higher quality

freedom from trouble: **fewer** defects = higher  
quality

# Developing quality specifications

Project Management



Design

Design quality

Input

Process

Output

Dimensions of  
quality  
Conformance

Construction  
Management

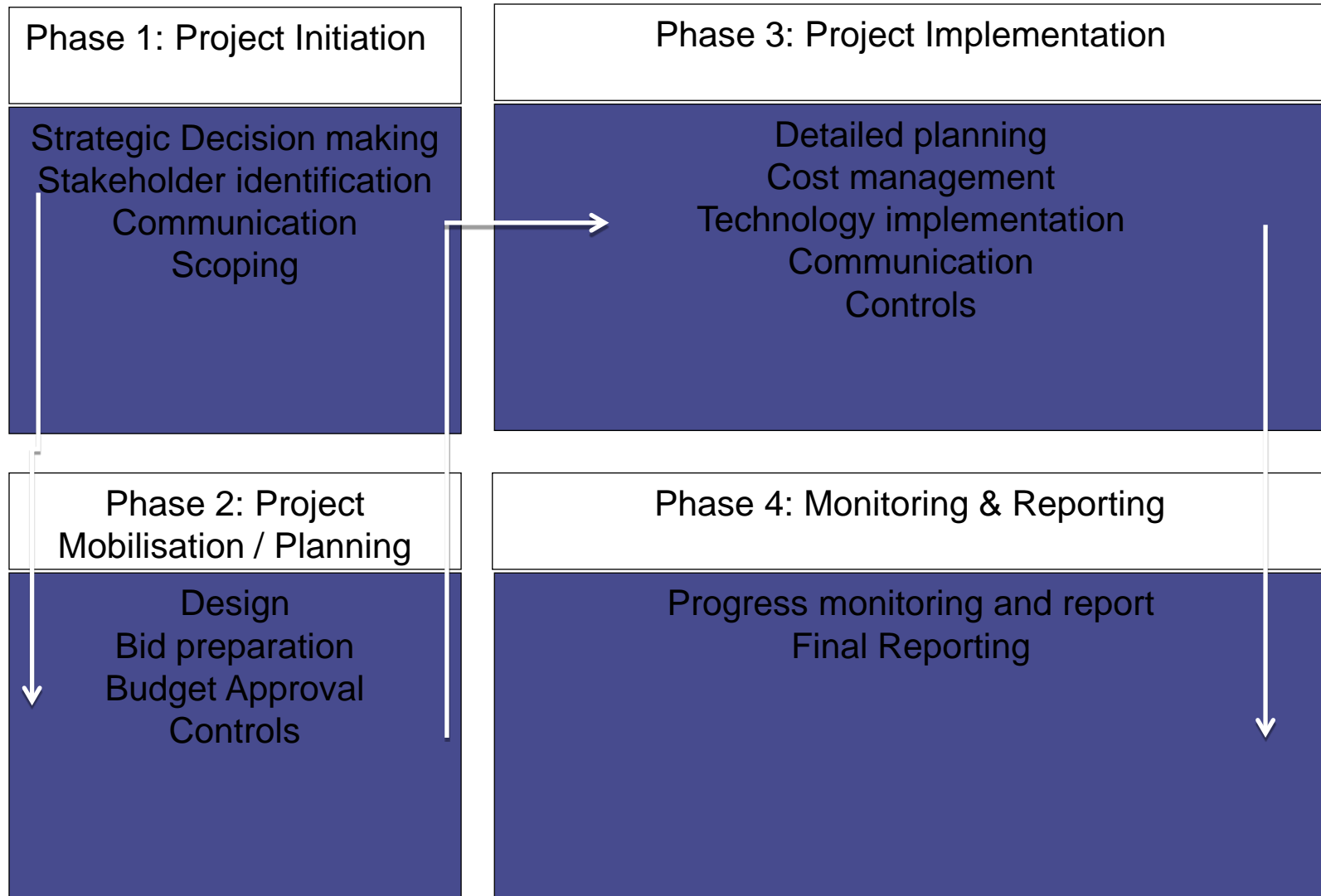
Quality  
Assurance &  
control

Quality

# PROJECT READINESS MATRIX

TOWN PLANNING	ARCHITECTURE AND QS	ENGINEERING	PROCUMENT AND CONTRACT MANAGEMENT	CONSTRUCTION PHASE
Land Availability	Architectural Designs	Survey	Technical Approval	Project Implementation Plans
EIA	Approvals	Geotechnical Investigations	Tender document completed and issued	Cash Flows
Layout Plan	Costing	Infrastructure Services (Water, Sewer, Roads & Stormwater and Electricity etc)	Tender Adjudication	Monitoring & Quality Assurance
Land Survey		Enginering Designs (Services and structure)	Contract with Developer (e.g. JBCC)	Contract Management
General Layout		NHBRC Enrolment	Contractor on site	Health & Safety
Township Establishment		Tender Specification	Insurances	
Township				

# Project Management





# Project Management Tools & Methodology

## SCHEDULE

**Gantt**

**PERT** (Project Evaluation & Review Technique)

**Plan statistics**

## QUALITATIVE INPUT

**Progress statements**

**Risk & Issue updates**

## FINANCIALS

**Cumulative  
cost & benefit  
graphs**

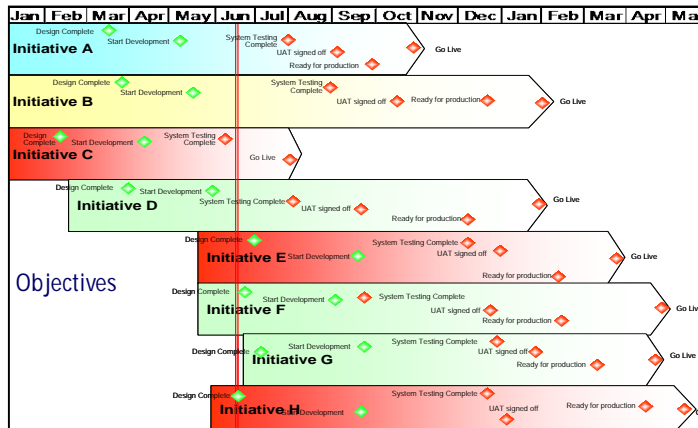
## RESOURCES

**Histograms**



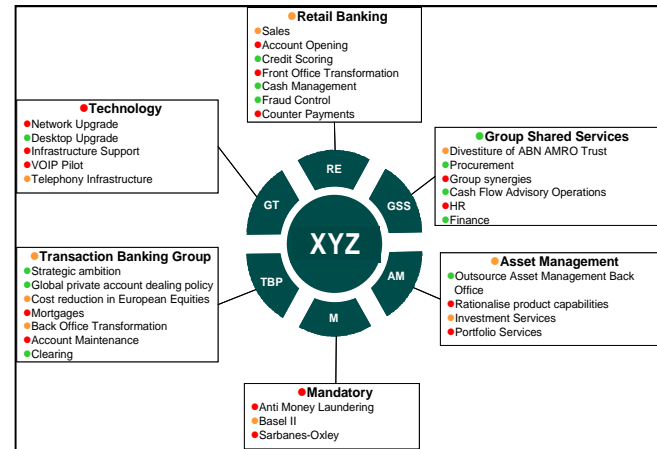
# Examples of Project Management Tools Output

## PLANS

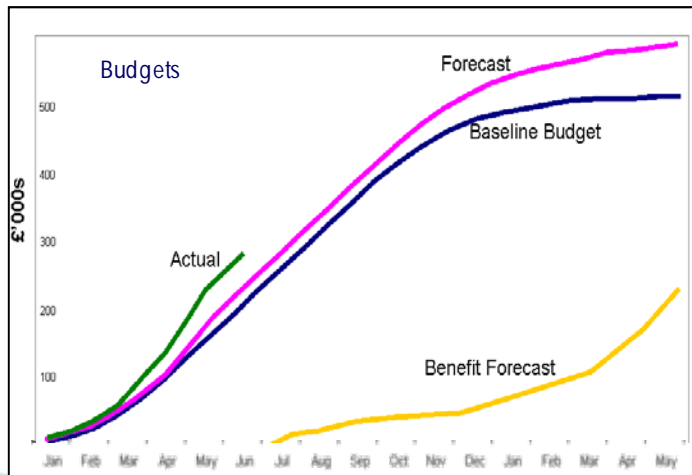


Objectives

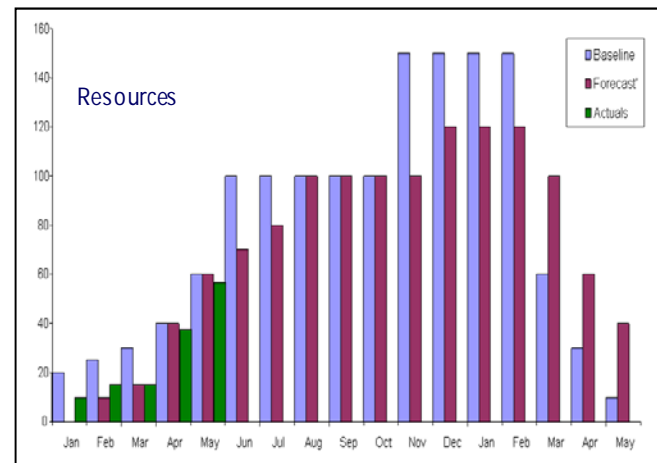
## STATUS



## FINANCIALS



## RESOURCES



# Noteworthy Pointers

- ▶ Land Suitability (Necessary Town Planning approvals)
- ▶ Approvals (Councils e.g. Municipality, geo-science, nhbrc etc)
- ▶ Adequate costing (Quantity Surveyor)
- ▶ Professional Advise (esp. Technical Matters)
- ▶ Good Builder (competitive bidding vs bid price)
- ▶ Sub-contractors (lack of experience in material estimation, labour only approach????)
- ▶ Suppliers (incl. Specialist suppliers)
- ▶ CASH FLOW
- ▶ Construction Manager and Foreman
- ▶ Theft on Site
- ▶ Health and Safety
- ▶ Workforce Management

