



# ENGINEERING LEADING THE INDUSTRY FOR NATION BUILDING

PRESENTED BY:

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# WHAT IT TAKES TO DELIVER VALUE TO A PROJECT



# Delivering value

It involves not just to meet the Client's project implementation objectives in

**time, budget, quality, & scope**

but includes the

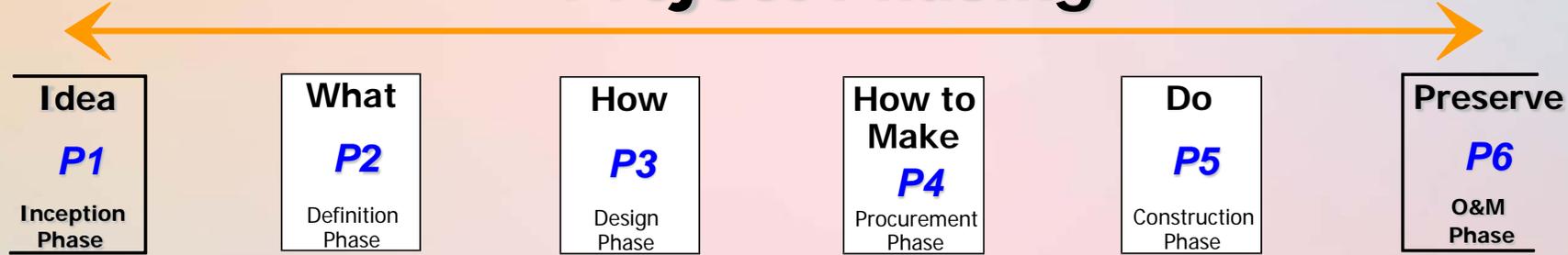
**strategic, technical, & commercial**

aspect of the project.



# Phased Project Development

## Project Phasing



*Dividing the Overall Project Development into Distinct Project Phases.*

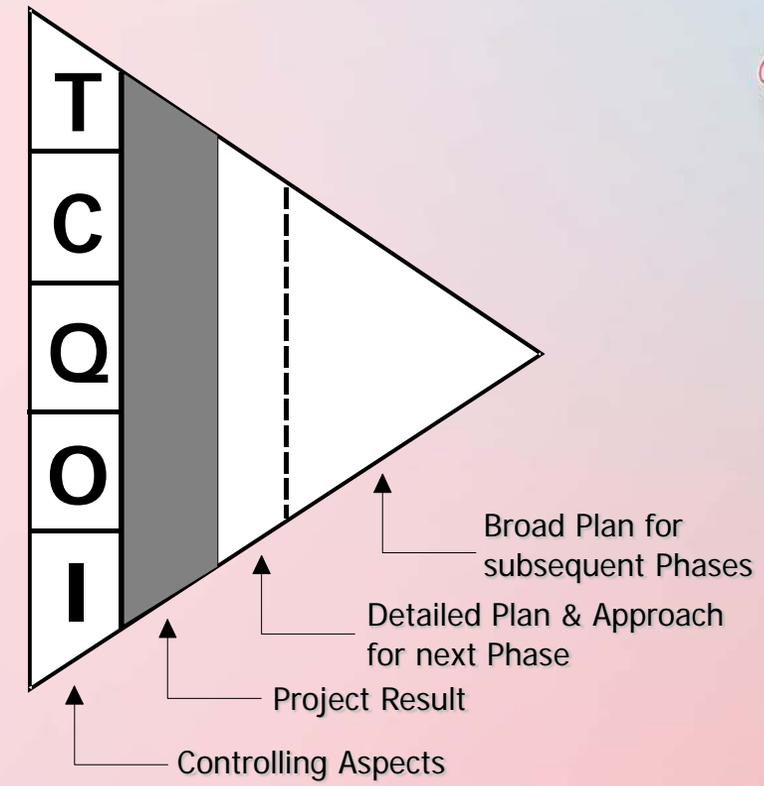
*Each with their unique Development Content.*

*Formulating UPFRONT  
how the Execution Processes takes place,  
Making the Total Development Scope MANAGEABLE!*



# Phased Project Development

*Each Development Phase must be Controlled to ensure the Project Development is in accordance with the set Project END RESULT or GOAL*

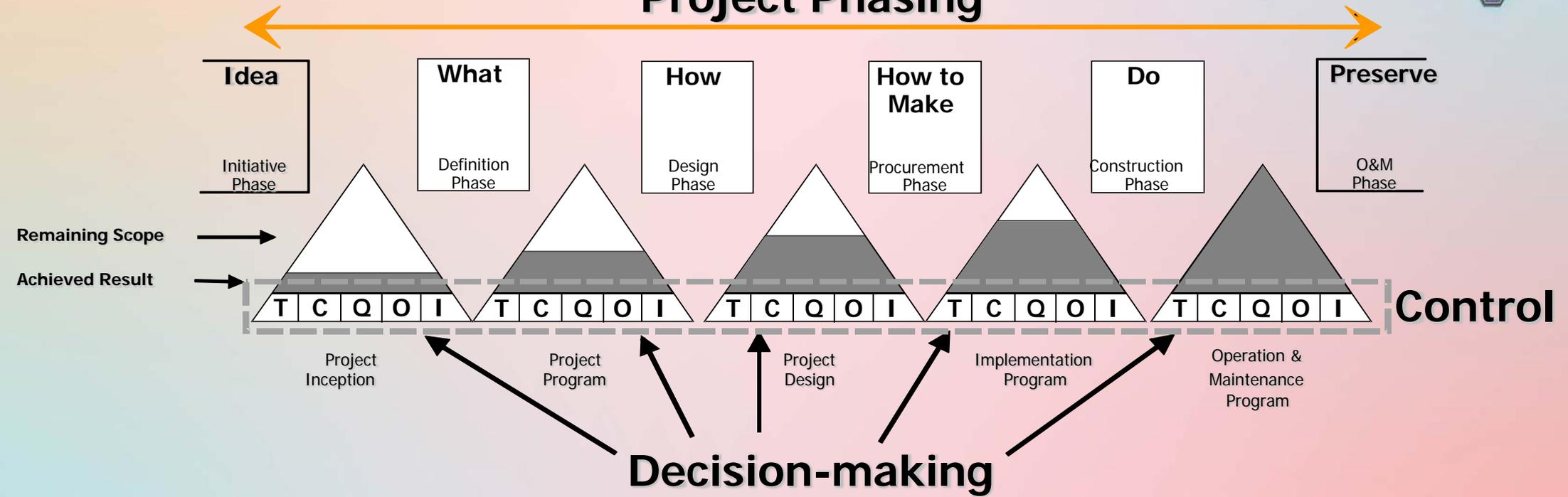


*Each Phase will be subjected to Controlling Processes in  
**Time, Cost, Quality, Organization & Information***



# PROJECT MANAGEMENT PRINCIPLES

## Project Phasing

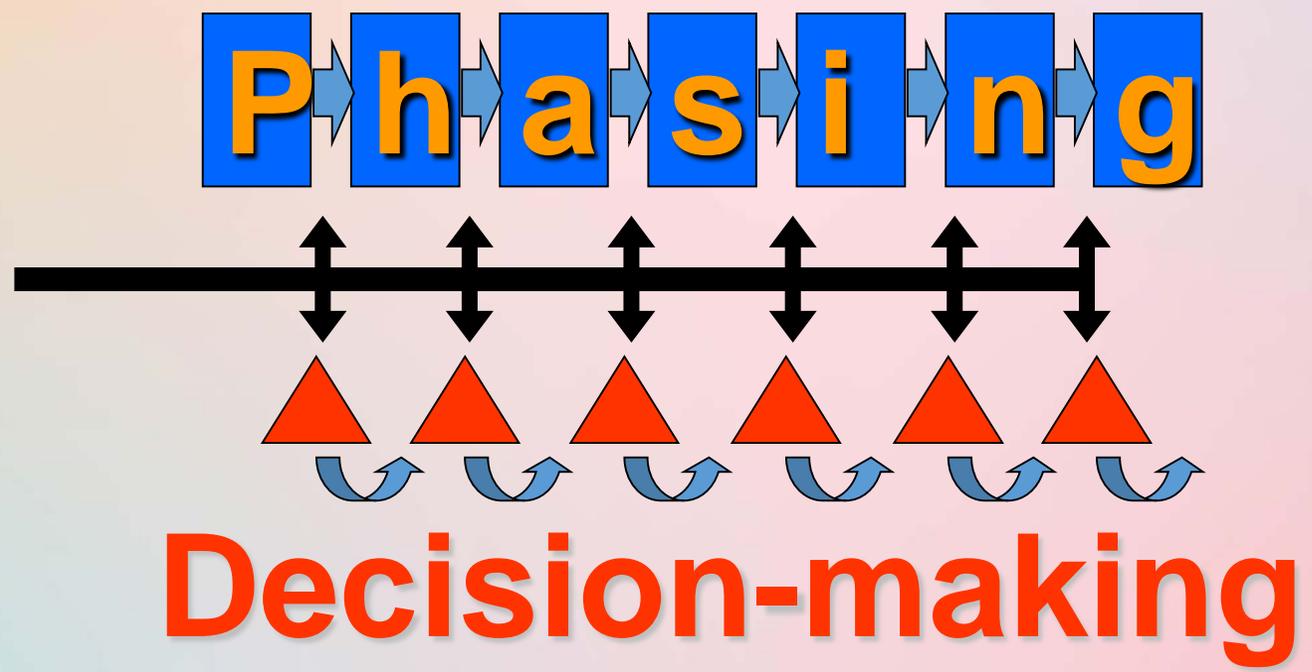


*Leads to a Decisive, Controlled and therefore Manageable Overall Process!*



# The 3 Cornerstones of Project Management

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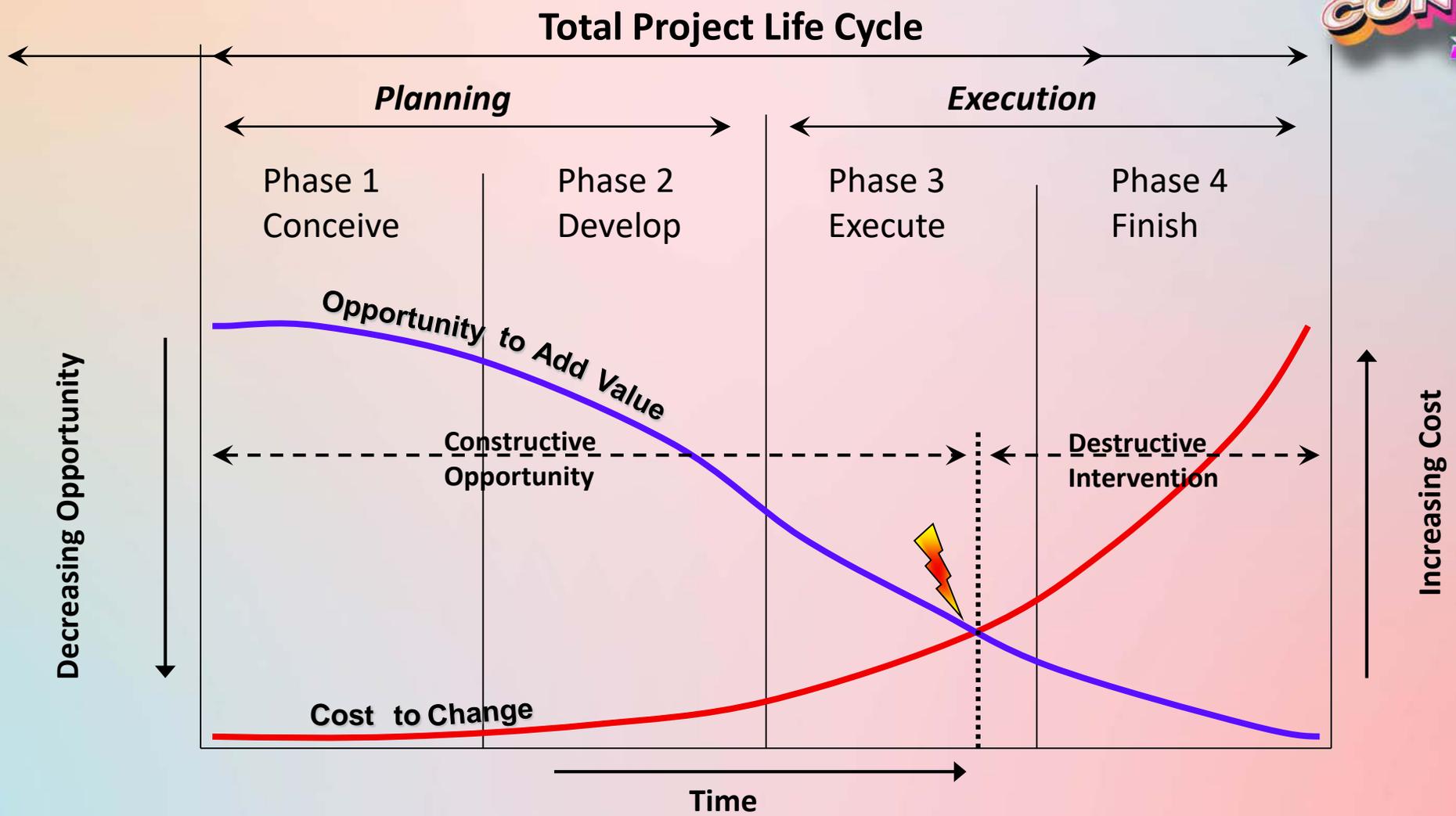


*This represents the BASIS  
for the Project Management Working Method*

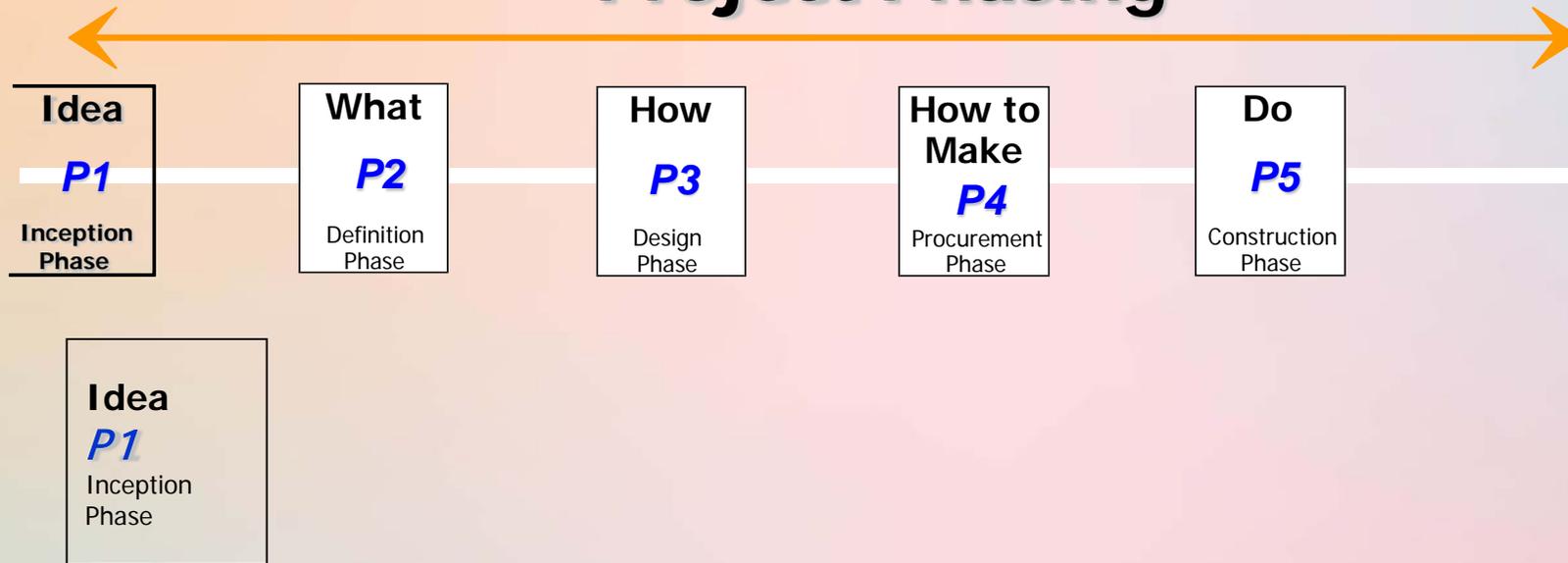


# PROJECT MANAGEMENT GOOD PRACTICES

## "Project Life Cycle Variables"



# Project Phasing



- Need and intention to built (incl. initial thought on facility)
- Feasibility studies & Technical & economic study
- Project Budget
- Project brief – design, technical, cost, quality, time parameters
- External & Internal Stakeholders

# Project Phasing



- Requirement capture from Internal & External Stakeholders
- Scope of Work, Deliverables, time & budget
- Technical & Design Concept (incl. site condition, soil investigation & functionality)
- Project implementation strategy
- Master Implementation Programme
- Organizational structure, System & Procedure
- QA/QC, Communication & information plan
- Document Control Centre

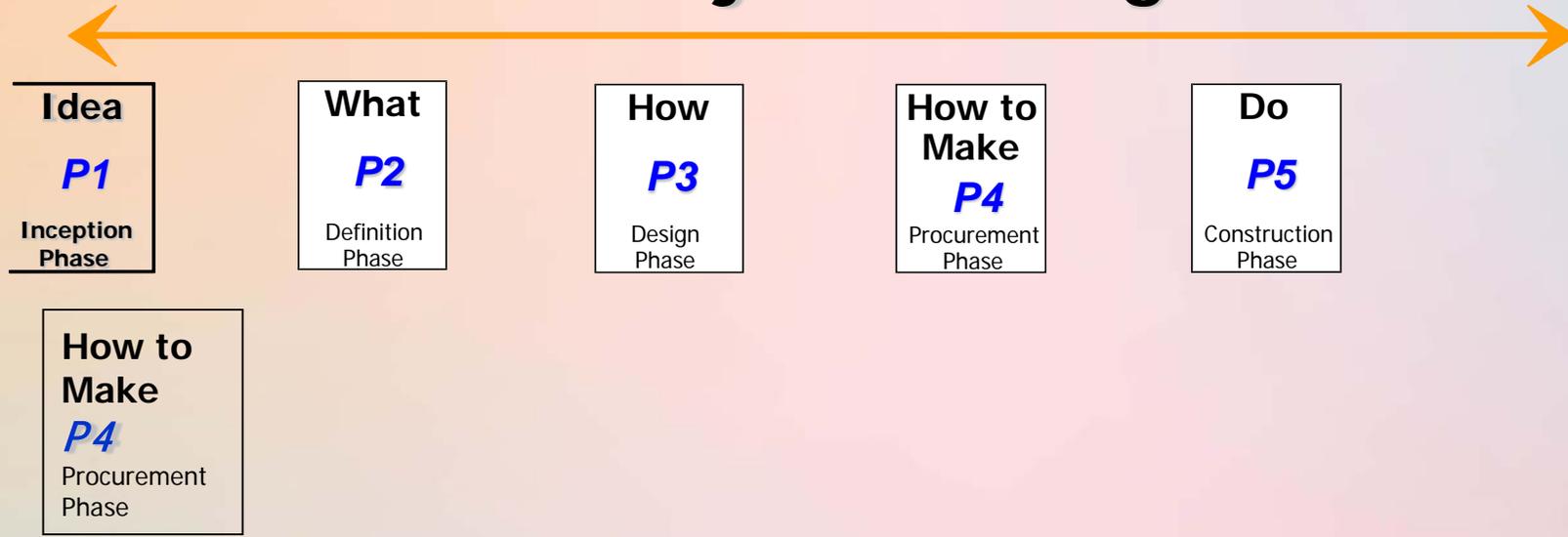
# Project Phasing



- Detail design development, materials search
- Value engineering
- Procurement strategy, tender documentation
- Detail cost estimate & budget, cost control system
- Performance & technical specifications
- Approval of the Client

**Design Concept / Detail Design Management Organization**

# Project Phasing



- Tendering process & Award
- Evaluation Criteria
- Spreadsheet Presentation for Comparison of different Tender Proposal / Pricing
- Recommendation

**Evaluation Team**

# Project Phasing

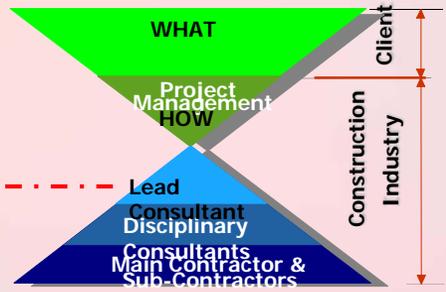


- Site planning
- Detail construction work programs (incl. interfacing)
- Contract administration
- Design & technical site review & adjustment
- QA/QC, HSSE implementation & control
- Operational readiness & maintenance plan
- Testing, commissioning, & handover (incl. CF)

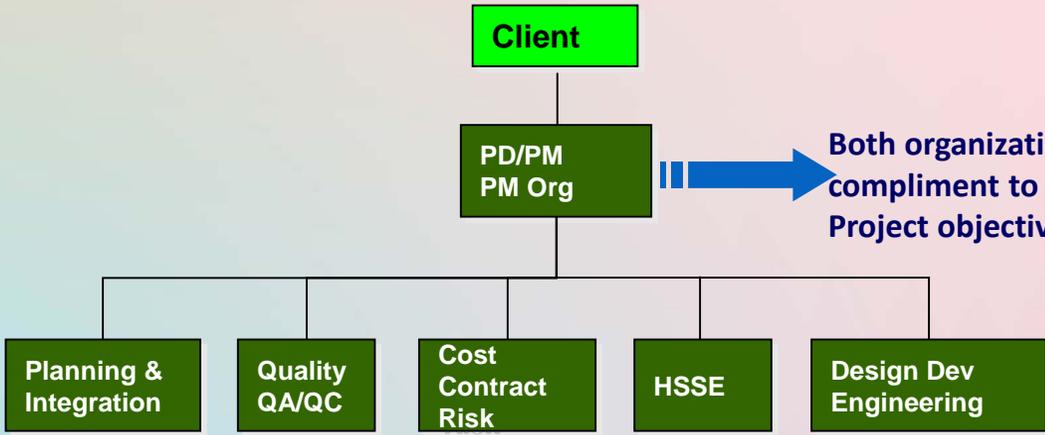
**Construction Management Organization**



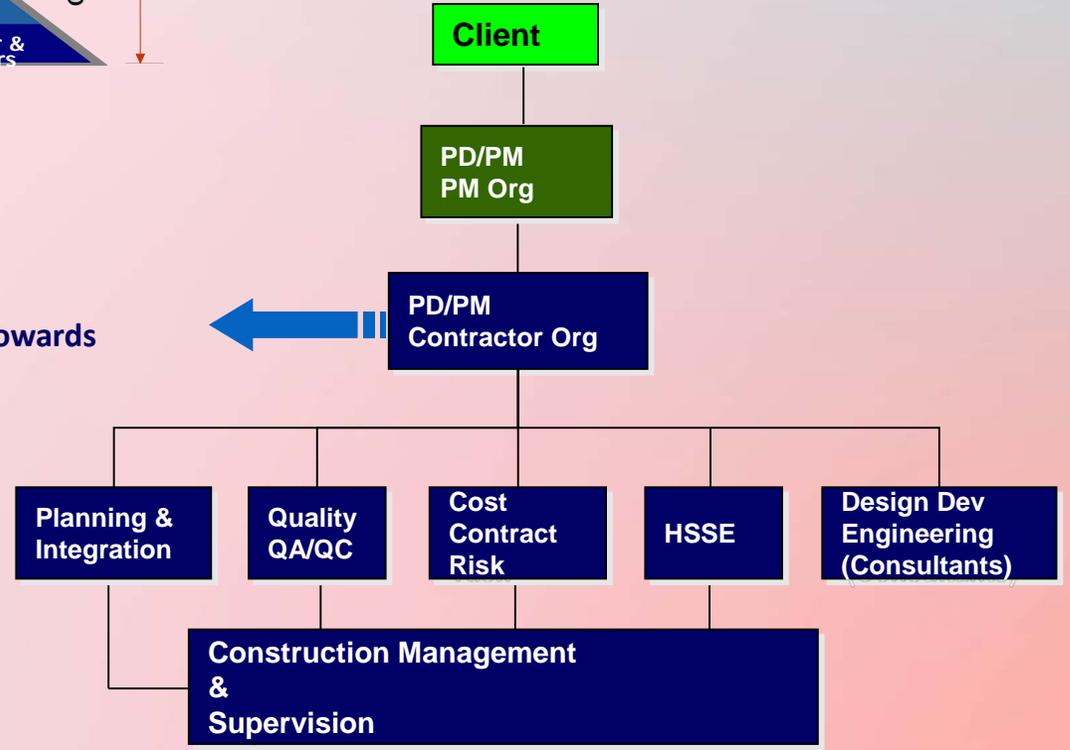
# PM and Contractor Construction Management Organization



**Project Management Organization**



**Contractor Construction Management Organization**



Both organization compliment to work towards Project objectives



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**THANK YOU**