



# 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**

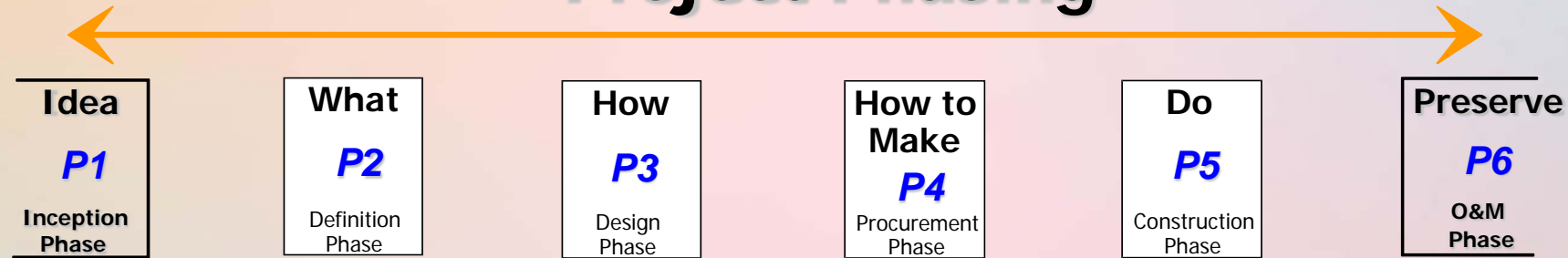
but includes the

**strategic, technical, & commercial**

aspect of the project.

# Phased Project Development

## Project Phasing



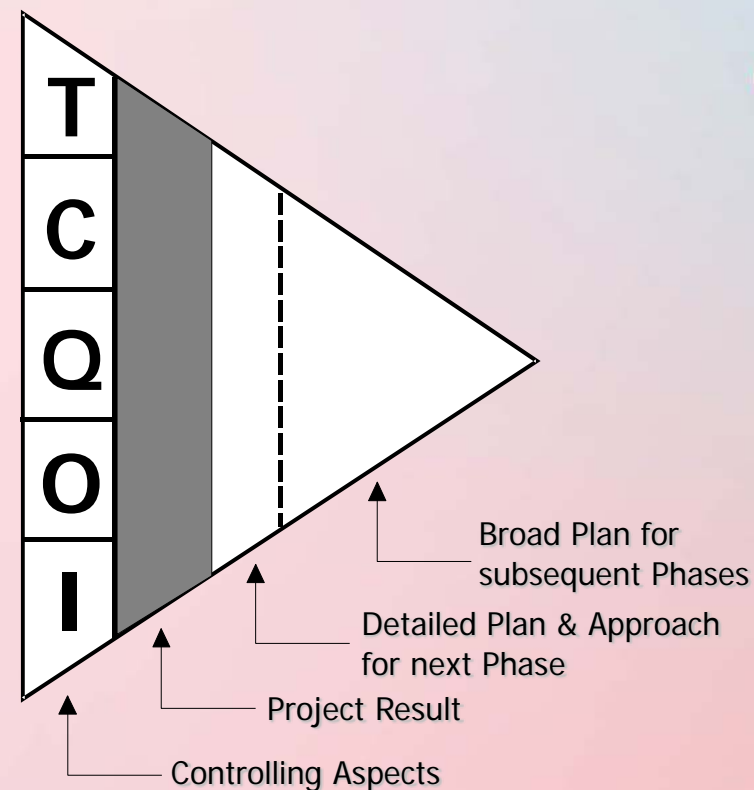
*Dividing the Overall Project Development into  
Distinct Project Phases.*

*Each with their unique Development Content.*

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

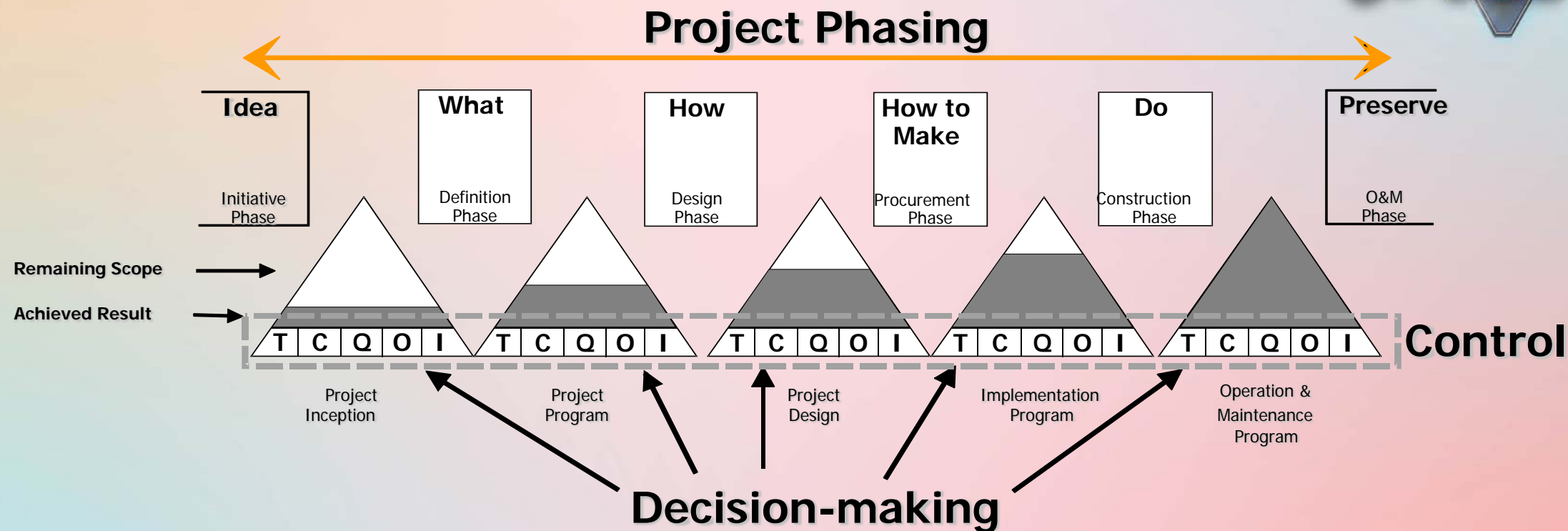
# Phased Project Development

*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

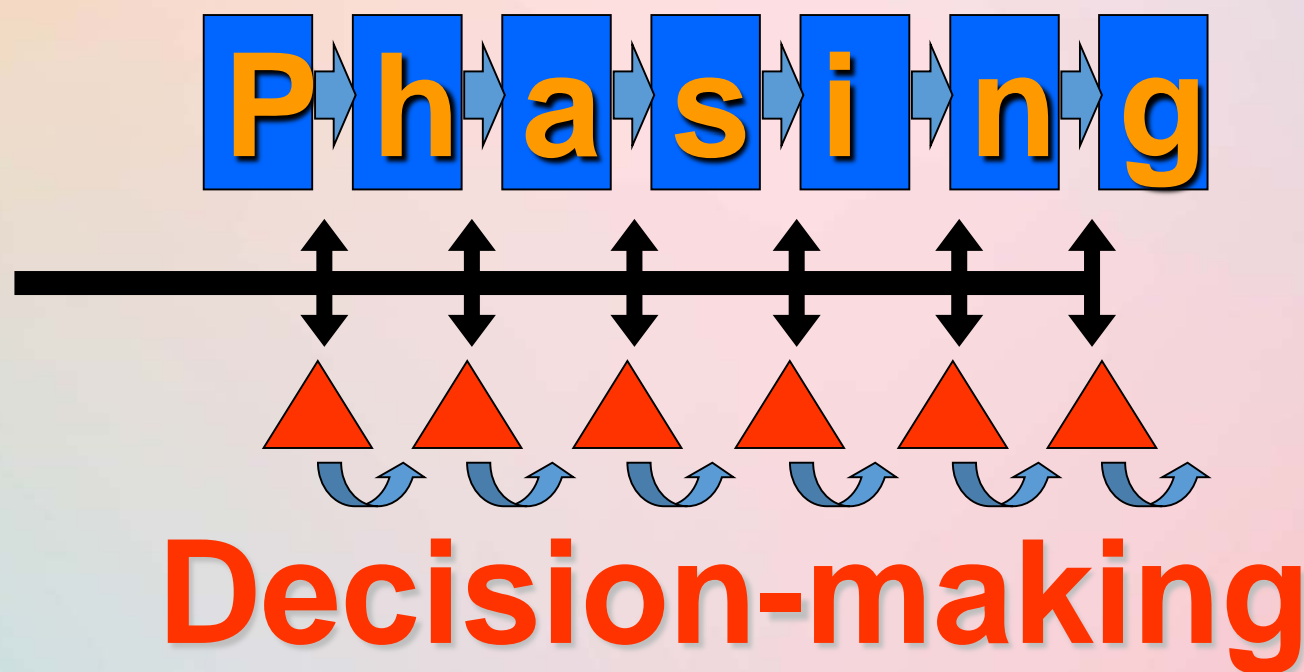


*Leads to a Decisive, Controlled and therefore Manageable Overall Process!*



# The 3 Cornerstones of Project Management

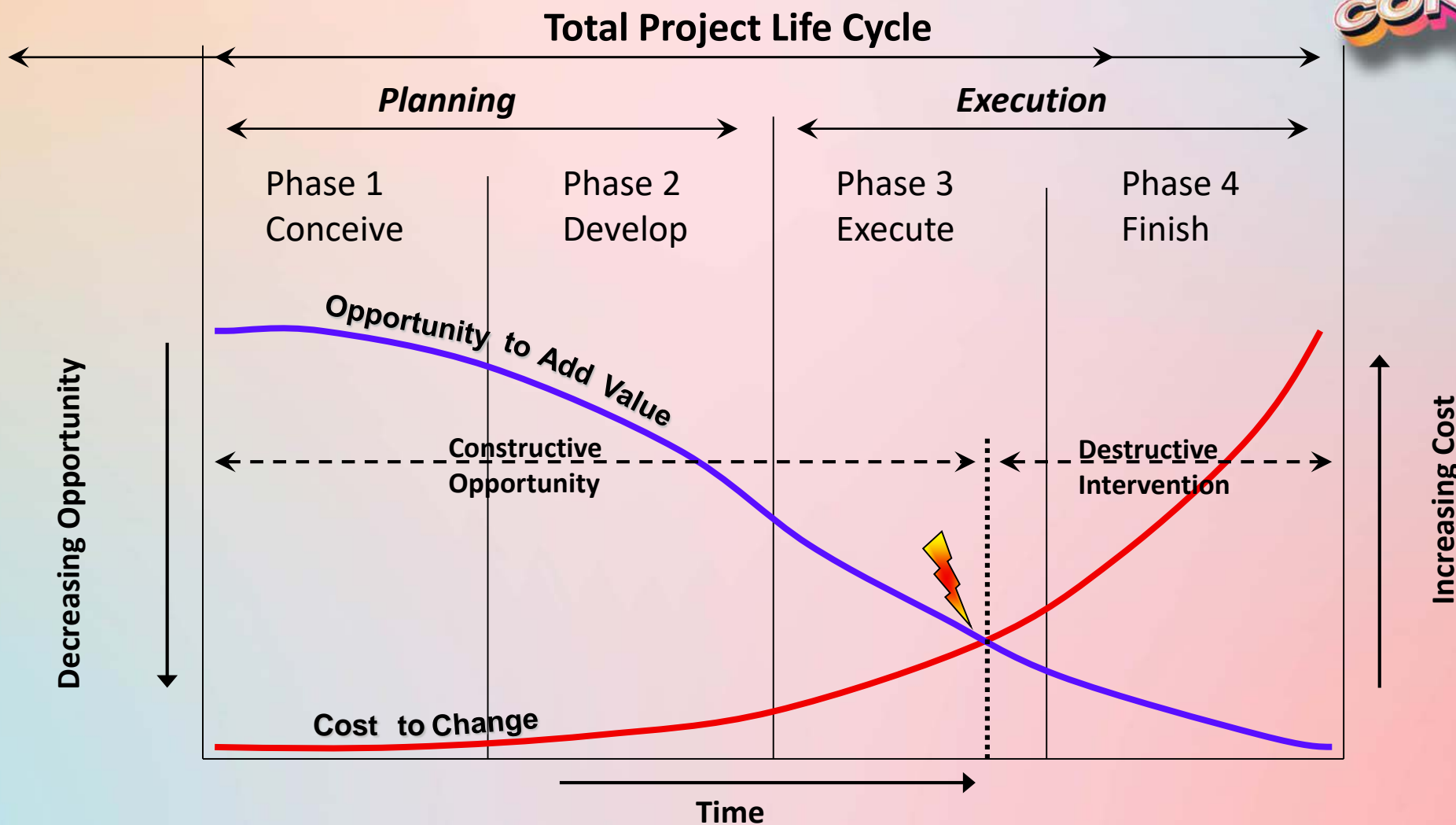
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*This represents the BASIS  
for the Project Management Working Method*

# PROJECT MANAGEMENT GOOD PRACTICES

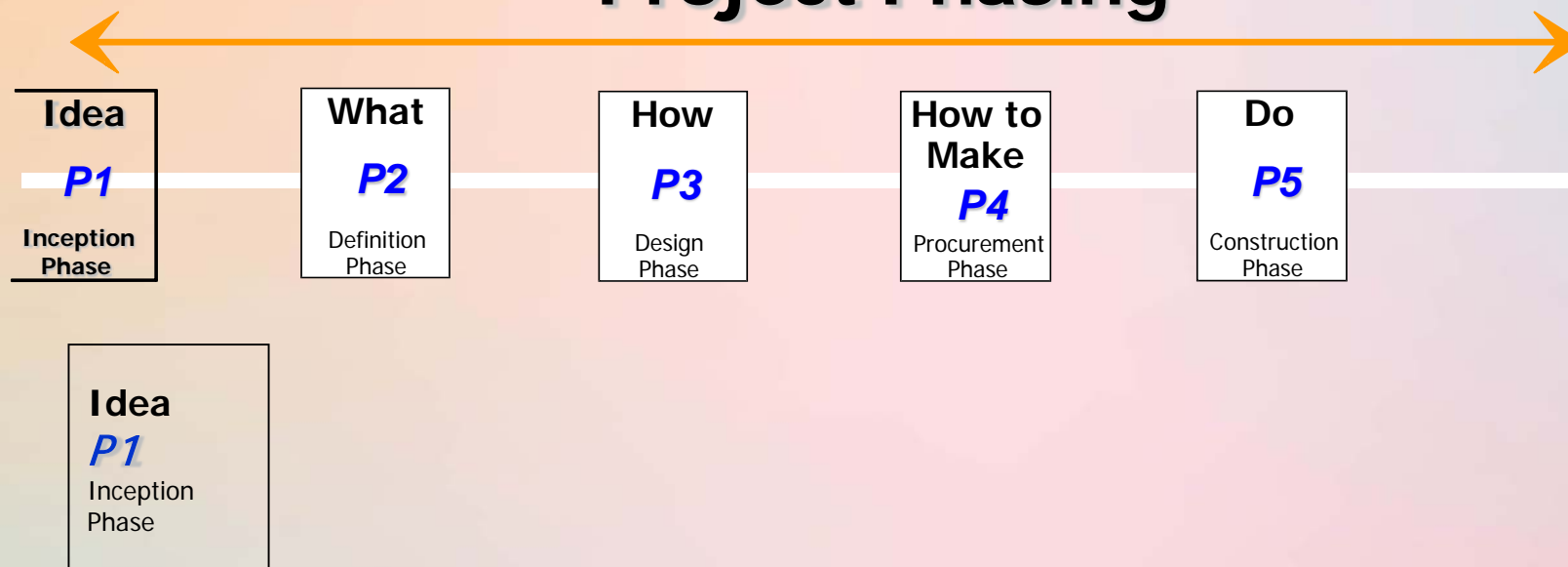
## "Project Life Cycle Variables"







# 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

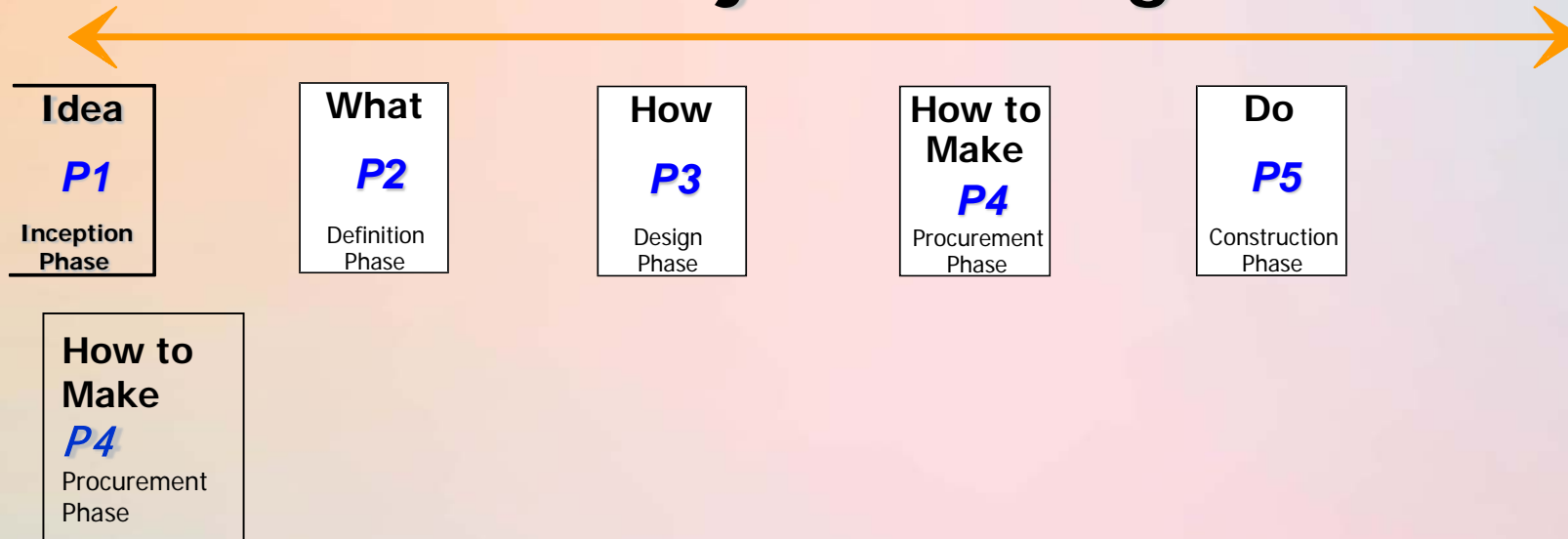
# Project Phasing



- 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**

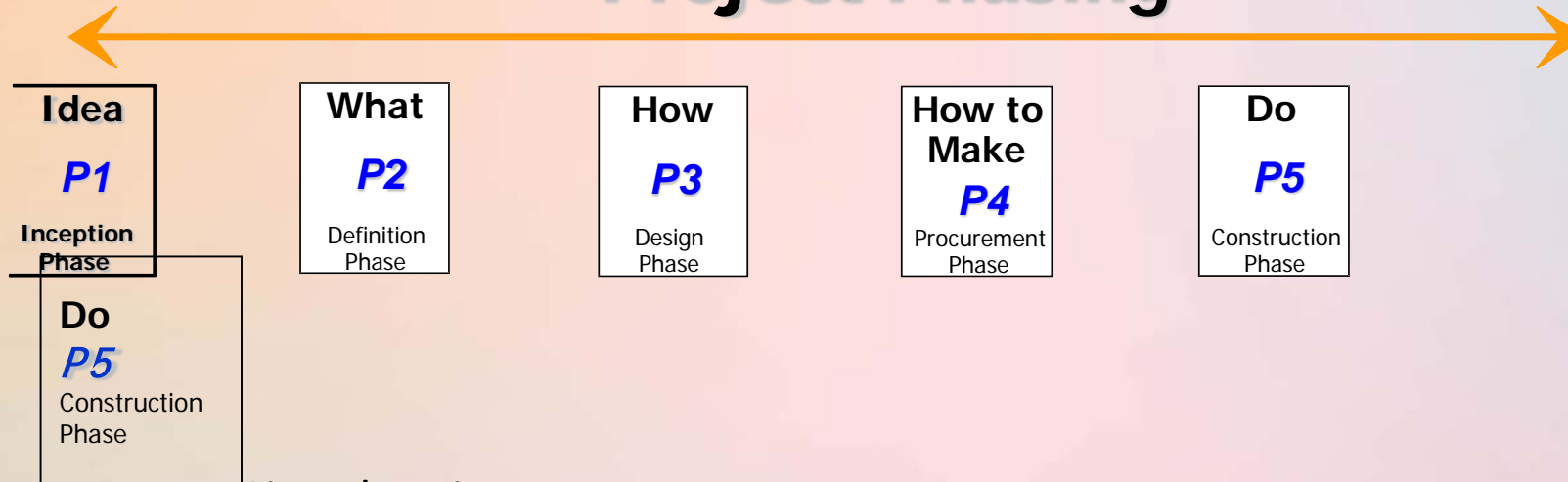
# Project Phasing



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

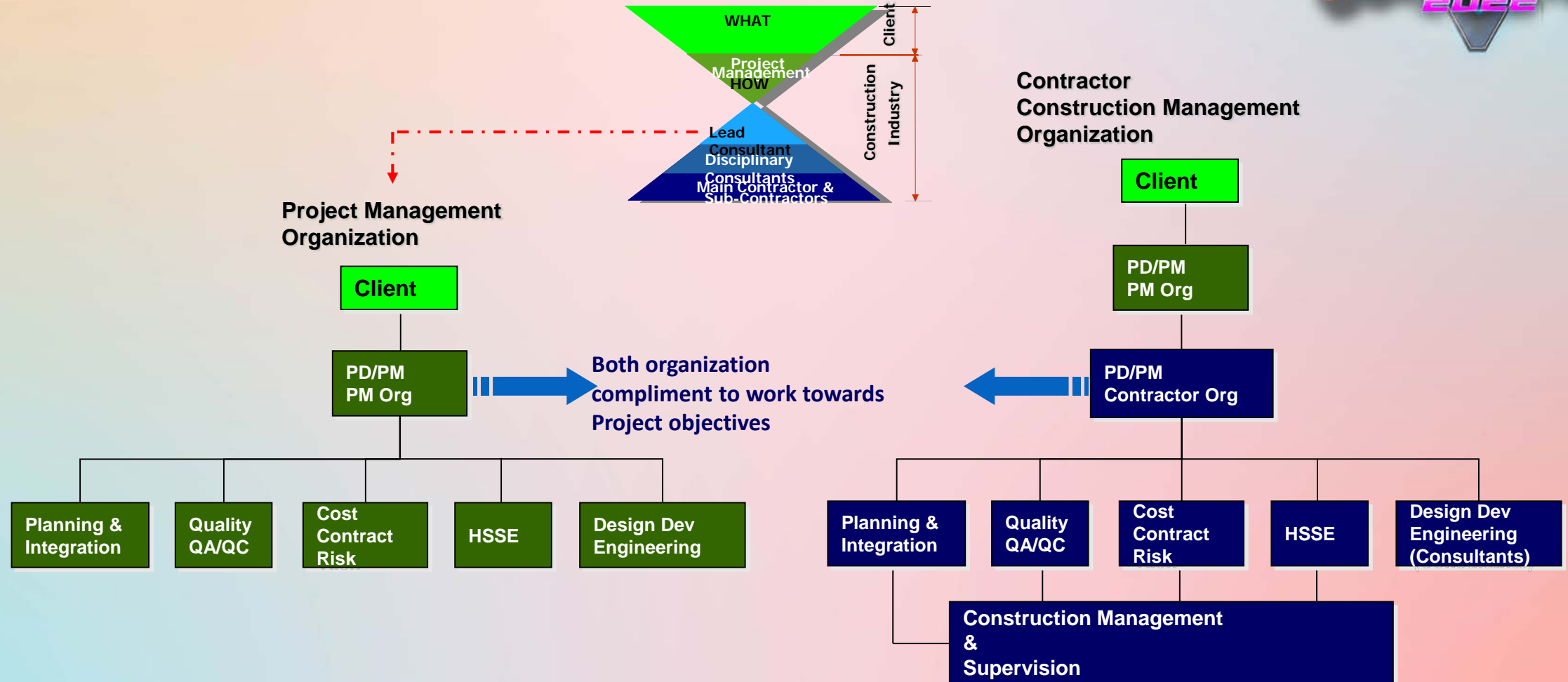
**Evaluation Team**

# Project Phasing



**Construction Management Organization**

# PM and Contractor Construction Management Organization







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FOR NATION BUILDING**

**THANK YOU**