

## An Introduction to Project Management (PM)

### Commission 10

- "Tell me and I'll forget, show me and I may remember, involve me and I'll understand."

## An Introduction to Project Management (PM) for FIG

- Definition – A Project is a temporary one-off exercise to create a unique product or service.
  - N.B. Not a process creating the same product or service repeatedly
- All members of FIG have Projects

## Project Management (cont)

- Products range ~ modest house extensions - multi-billion \$ HK
- Services range ~ modest land survey - multi billion \$ flotation
- All projects need managing to ensure:-
  - delivery of defined scope
  - quality, time and cost

## Project Management (cont)

- Project Managers
  - reduce risk, over-see cost, time and quality
  - use various management techniques.
- All FIG managers providing a unique product or service must control Finance, time and human resources.

## Project Management (cont)

- These skills are required for managers of Surveying Companies & Universities not just construction, engineering and defence.
- Management of pyramids must have used similar techniques.

## Project Management (cont)

- PM techniques started in the 1950's and most surveyors recognise
  - Critical Path (CPM) planning
- PM Methods & Tools now Extended
  - Germany - "DIN 69901" standard
  - UK "Prince2" - OGC generic PM Method.
  - US CoE uses Project Management Information System P2

## Project Management (cont)

- All methods have similar stages employing different tools
  - Project Initiation
  - Project Planning
  - Project Execution
  - Project Monitoring
  - Project Completion

## Project Management (cont)

- Project Initiation
  - Identification of Opportunity
  - Definition of the problem
  - Concept
  - Analysis & Design of Objectives
  - Feasibility

## Project Management (cont)

- Project Planning
  - Business Case
  - Estimated resources
  - Success Criteria
  - Risk Management
  - Design
  - Modelling
  - Procurement

## Project Management (cont)

- Project Execution
  - Implementation
  - Direction
  - Production
  - Make & Build

## Project Management (cont)

- Project Monitoring
  - Controls
  - Forecasts
  - Tracking & Reporting
  - Test & Analysis
  - Commissioning
  - Quality Management
  - Change Management

## Project Management (cont)

- Project Completion
  - Hand-over
  - Operation & Maintenance
  - Defects Prevention
  - De-commission resources
  - Follow on actions
  - Evaluation

## Project Management Summary

- Project Management skills are used by all FIG members
- Many projects worldwide do not come in on time or cost or quality
- About 50% of corporate global projects ~ new products, large computer systems and mergers **FAIL.**

## Project Management Summary

- PM builds on skills used by successful projects and reduces the Risk of failure.
- Tools and techniques employ best practice to support the manager to:-
  - Focus on the right project
  - At the right time
  - For the right reasons
  - At the right Cost

## PM - Questions Arising ?

- Is the Concept of PM understood?
- Do members of FIG use these techniques?
- Do members of FIG see benefit from the use of Project Management and Planning techniques?
- How can these techniques be more widely encouraged within FIG and by FIG members? Is this the real challenge?