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 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?