

Software Project Management

What is project management?

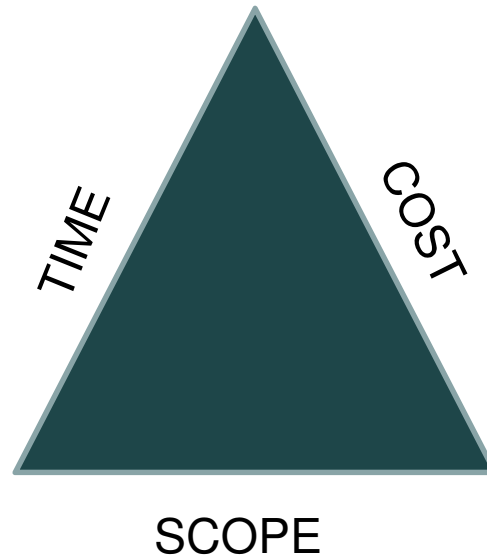
“Project management is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements.”

-- A Guide to the Project Management Body of Knowledge (4th Edition), Project Management Institute

- Project Manager
 - Knowledge
 - Performance
 - Personal effectiveness

Constraints in projects

- Constraint
 - Limitation or restriction
- Triple constraints



Types of software projects

“(1) The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is, the application of engineering to software. (2) The study of approaches as in (1).”

-- IEEE Standard Glossary of Software Engineering Terminology,”

IEEE std 610.12-1990, 1990.

- Objective
 - Efficiently build good quality software

Criteria for project success

Meet objectives / requirements within time and budget

PMI's 9 Knowledge areas of Project Management

SCOPE MANAGEMENT

TIME MANAGEMENT

COST MANAGEMENT

QUALITY MANAGEMENT

HUMAN RESOURCES MANAGEMENT

COMMUNICATION MANAGEMENT

PROCUREMENT MANAGEMENT

RISK MANAGEMENT

INTEGRATION MANAGEMENT

Typical project lifecycle

- Estimation
- Contract Review
- Project Initiation
- Project Planning
- Project Monitoring
- Project Closure

Types of projects

- Development (waterfall)
- Maintenance
- Enhancement
- Testing
- Conversion/migration
- Help desk and Production support
- Package implementation