

Project Management Model for Outsourced Projects

Peter Kolb



The Value Creator

Objectives

This module will enable the participant to:

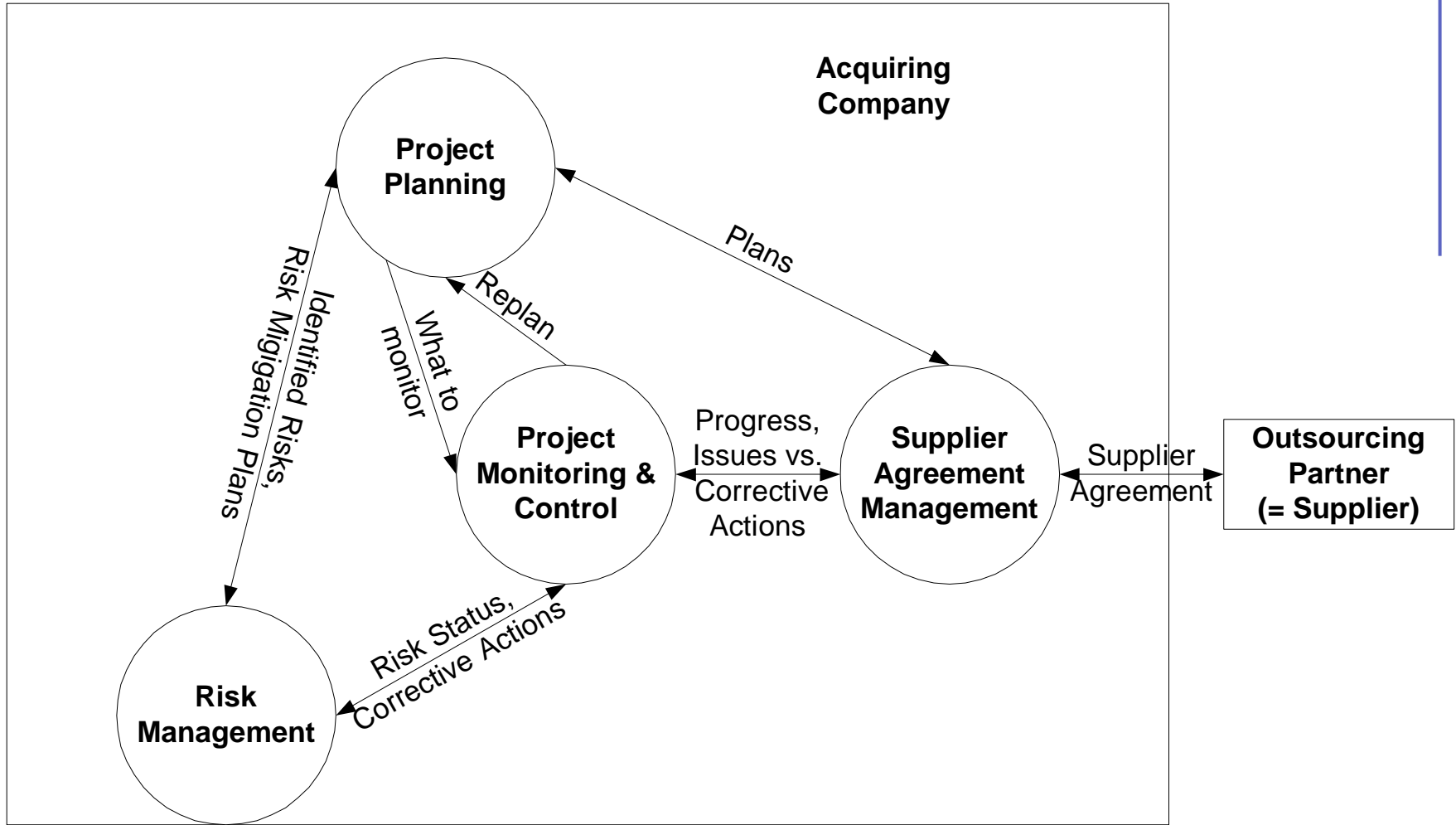
Plan and execute Software development projects with sub-contractors

Set up the right processes to achieve project success

Content

- Software Outsourcing in the view of Supplier Agreement Management
- Project Management Overview
- The Process of Supplier Agreement Management
 - Definitions, Goals, and Practices
 - Sub-goals and Sub-practices and Recommendations for
 - Determine Acquisition Type
 - Select Suppliers
 - Establish Supplier Agreements
 - Execute Supplier Agreement
 - Accept, transfer, and integrate the Acquired Product
- Summary

Project Management Overview



Supplier Agreement Management – Specific Goals

■ Sub-Goal 1 Establish Supplier Agreements

Agreements with the suppliers are established and maintained.

■ Sub-Goal 2 Satisfy Supplier Agreements

Agreements with the suppliers are satisfied by both the project and the supplier.

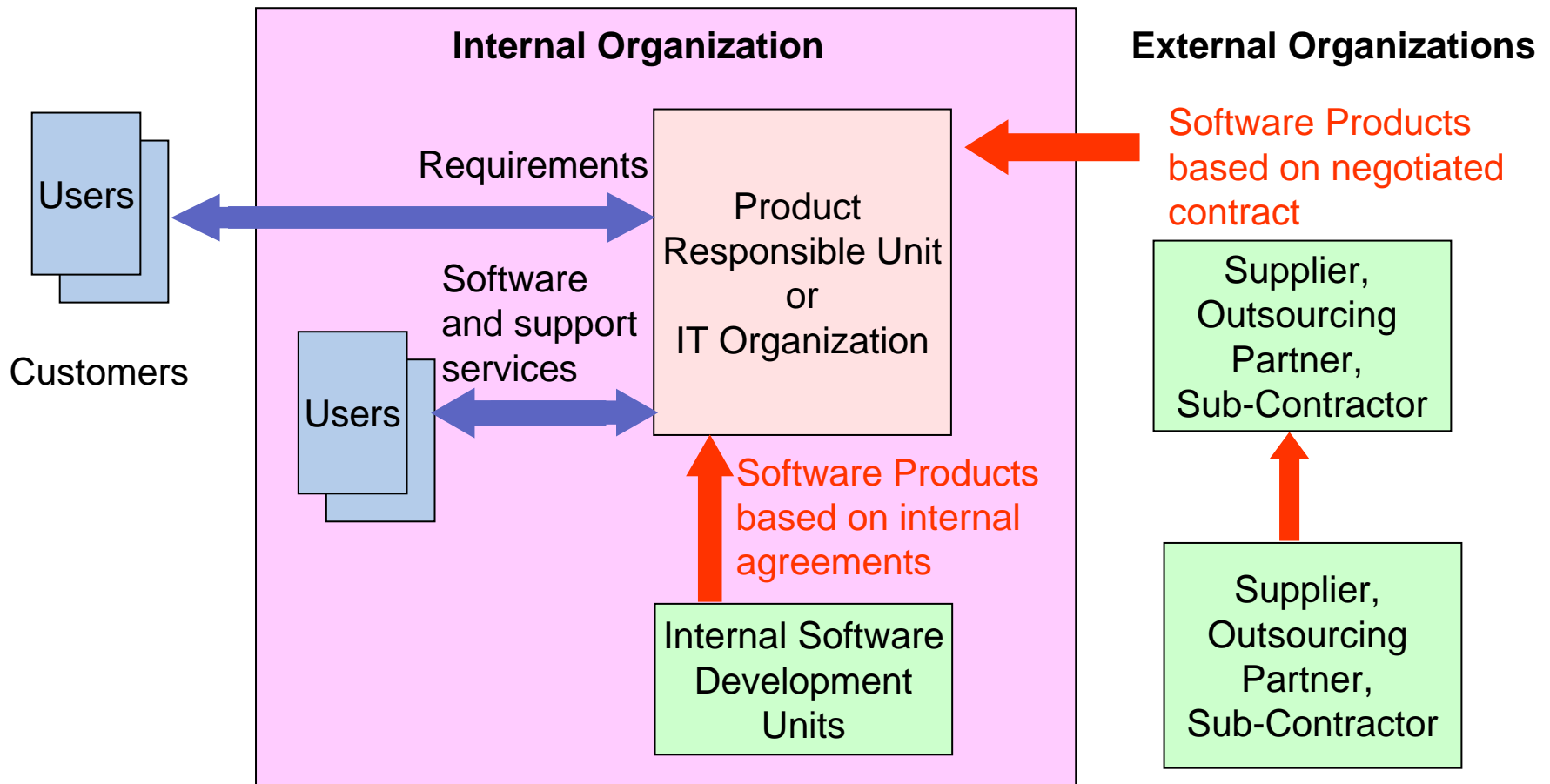
Outsourcing = Supplier Agreement Management

- Supplier Agreement Management addresses the need of the project to effectively select and manage those portions of the work that are conducted by suppliers

A Supplier may take many forms:

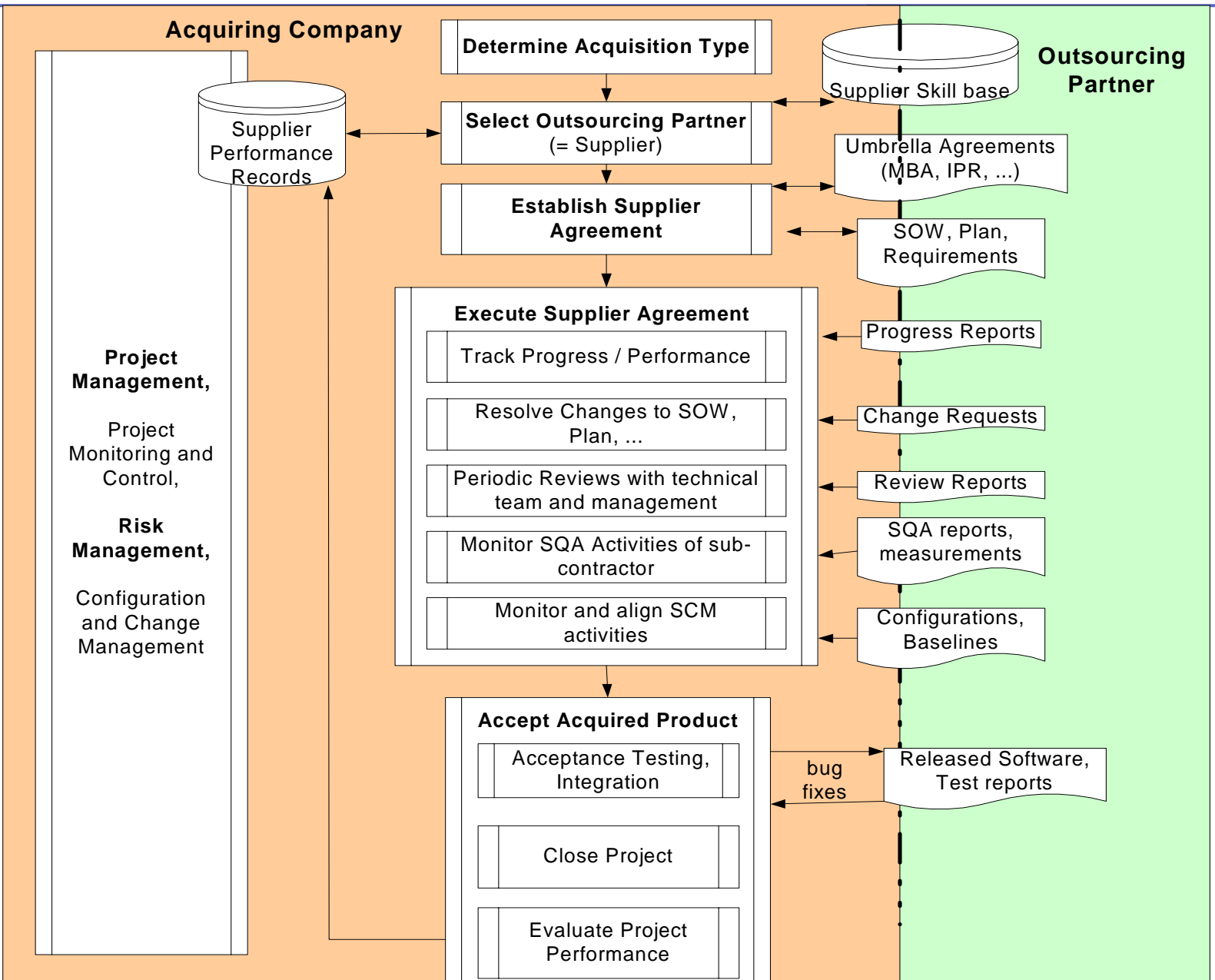
In-house or external organization that develops, tests, or supports products or components that play a role in the delivery to customers.

Buyer / Supplier Relationship



**Internal or External Outsourcing:
Requires the same Supplier Agreement
Management to receive a quality product.**

Supplier Agreement Management: Process Overview



Determine Acquisition Type

- Buy (modified) COTS products or services
- Have it custom-made through a contracted external company
- Have it realized by another in-house development unit
- Obtain components from customers
- Remark:
 - It's possible to have a combination of the above

Supplier Selection Process

- 1. From Budgetary plan / Project Plan identify software skills / activities to be outsourced**
- 2. Search for prospective partner profiles (scan existing and potential new partnerships)**
- 3. Evaluate with few selected prospective partners**
 - company profile and business data (vendor rating)**
 - generic requirements for performing required activities**
- 4. Audit supplier's competence and processes**
- 5. Collect data in a supplier score sheet and compare with benchmarks (e.g. already existing suppliers)**
- 6. If score exceeds acceptable limits, make umbrella agreements like MBA**

Select Outsourcing Partner

■ Supplier Evaluation Criteria Catalog

	Item	Sub-Contractor 1	Sub-Contractor 2	Sub-Contractor 3
1	Company Reference Items			
1.1	Market Reputation			
1.2	Infrastructure			
1.3	Business focus			
1.4	Skill profile: Management, Engineering			
1.5	Process focus			
1.6	Confidentiality			
1.7	Performance Records			
1.8	Price			
1.9	Internal Assessment			
	Project Specific Items			
2	Domain Score Rating			
3	Prior experience on similar			
4	Timeline			
5	Location/ease of execution			
6	Effort ...of subcontractor			
	...of acquirer			
7	Project Cost ... base cost			
	... taxes and credit			
	... payment method			
8	Guranteed quality			
9	Warranty			
10	Training and Support			
11	Deliverables			
12	Risk, deviation sought			

Establishing and maintaining the supplier agreement provides the supplier with the project needs, expectations, and measures of effectiveness.

The supplier agreement typically includes:

- Frame Agreement (Master Business Agreement)
- Statement of work, plans, requirements
- Terms and conditions
- List of deliverables, schedule, and budget
- Defined acceptance process with acceptance criteria

Agreements for Project Execution

- Identify critical dependencies between the project and the supplier
- Agree on processes, procedures, guidelines, methods, templates, etc. that will be followed
- Agree on the form, frequency, and depth of project oversight; and define evaluation criteria to be used in monitoring the supplier's performance

Agreements for Managing Change

- Identify project and supplier representatives responsible and authorized to agree to changes to the supplier agreement
- Agree on the process for handling requirements change requests from either side

Agreements for Handling the Product

- Identify warranty terms, ownership, and usage rights for the acquired product
- Identify the supplier's responsibilities for ongoing maintenance and support of the acquired product

Planning for Quality

Time Schedule

When/how often: reviews, metrics collection, reporting ?

Resources for QA Activities

Who will act as reviewer, tester? Which test environment?

Reviews and Audits

Tests

Which tests? (modules, integration, UI and usability, stress and field tests, acceptance ...)

Who is responsible for each test?

How is it planned and documented?

Which processes and tools to use for tests?

Standards, Procedures and Tools

Review Process, Document templates, Coding rules, ...

Design tools, Development and test environment, Configuration management tools, ...

Metrics

Which data will be captured and monitored for the project?

Deviation Handling

How to document and handle deviations in the project? (faults, misunderstandings, technical issues, ...)

Escalation procedure depending on type of deviation (e.g. design mistake found during testing)

Quality Records

Which data and documents will be stored for the project? (review reports, error lists, process audit reports, ...)

Management and Technical Reviews with Supplier

Periodic reviews are conducted between the project's management team and the supplier's management team to review progress as defined in the supplier agreement

Technical reviews typically cover

- Performance of the project (technical, cost, schedule, staffing)
- Technical issues are communicated and resolved
- Clarification of the end user or project's customer needs

Planning for Reviews and Audits

What will be reviewed?

(Requirements, architecture, design, process, management plans, ...)

- Which documents will be reviewed?
- What is the process of a review?

What will be audited?

(configuration audit, process audit, ...)

Who is responsible?

- ... that reviews and audits are carried out?
- ... that review records and approved documents are collected?
(to control that all planned reviews have been performed)

Checks for a Project Status Report

- Overview
- Expected Benefits
- Intellectual Property Issues, if any
- Performance measures
- Deliverables in time period
- Risks
- Organization
- Schedule – plan vs. actual
- Cost – plan vs. actual
- Quality – plan vs. activities performed, metrics
- Documentation – plan vs. actual
- Issues and concerns

Acceptance Procedure on Supplier Delivery

Acceptance reviews, tests, and configuration audits must be conducted for the acquired products to achieve formal acceptance.

Activities in detail:

- As part of the planning and contract agree at project start on the acceptance procedure and criteria
- During project execution monitor the progress and fulfillment of requirements (functional, performance, quality, usability) through reviews, functional and physical audits, or prototypes, to avoid late surprises
- At the delivery stage perform agreed acceptance procedure to confirm that the acquired work product satisfies the requirements and commitments.

Transition of the product to the Acquirer

Monitor the transition of the acquired product from the supplier to the project.

Activities in detail:

- Ensure that the appropriate facilities to receive, store, use and maintain the acquired product are available
- Ensure that appropriate training is provided to assist in the transition (for using and maintaining the product)
- Ensure that the storing, distribution, and use of the acquired product is performed according to the terms and conditions specified in the supplier agreement.

Supplier Agreement Management - Summary

Sub-Goal 1

Specific Practices

Establish Supplier Agreements

- Determine Acquisition Type
- Select Supplier
- Establish Supplier Agreement

Sub-Goal 2

Specific Practices

Satisfy Supplier Agreements

- Execute Supplier Agreement
 - Track Progress
 - Manage Changes and Configur.
 - Technical/Management Reviews
 - Check Quality
- Accept Acquired Product
 - Acceptance Test
 - Transition Product