

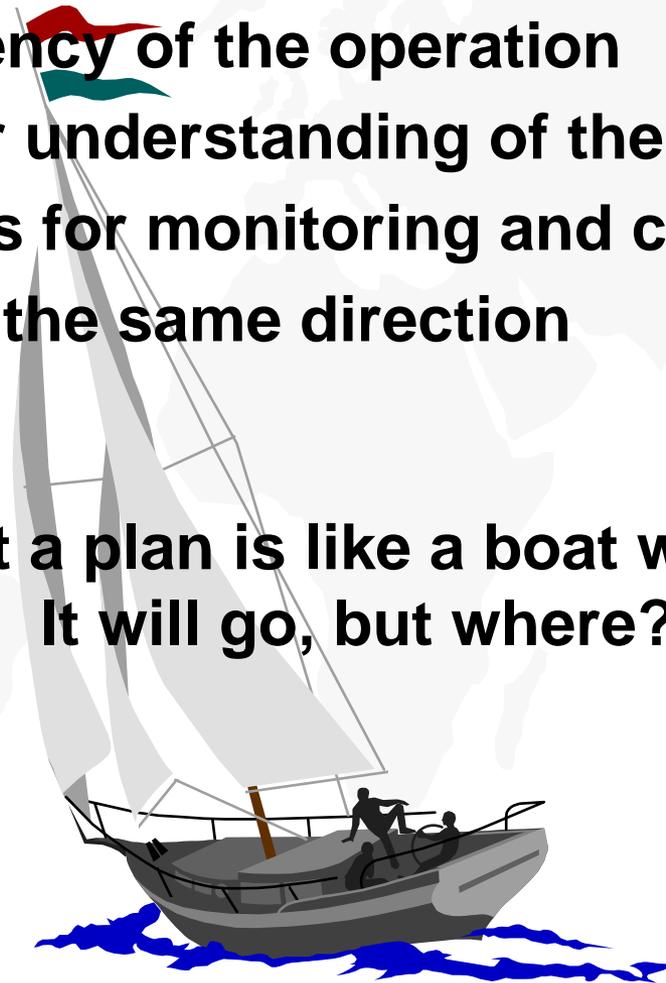
Project Management



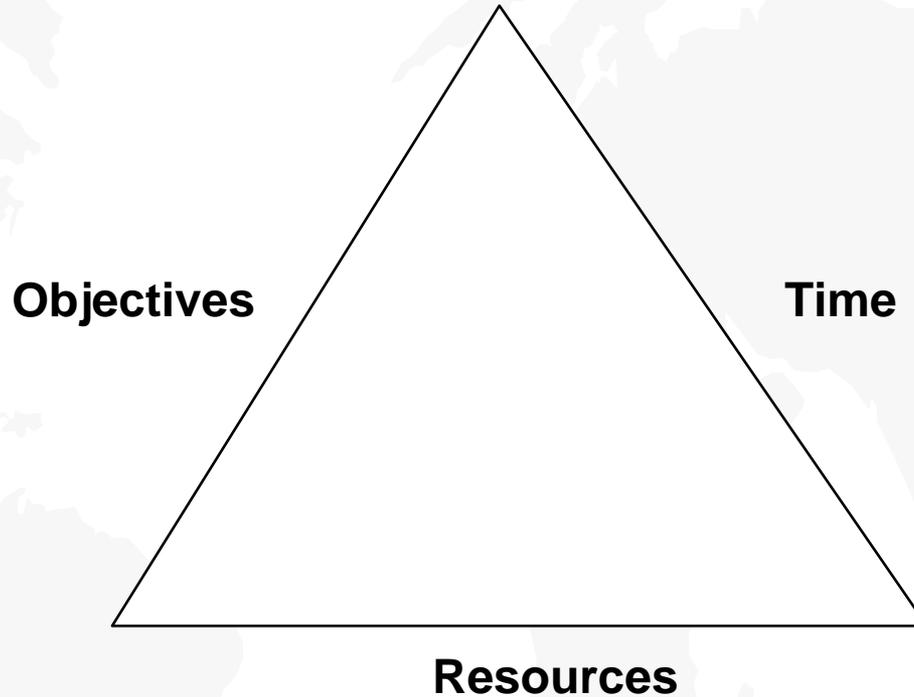
Why Plan?

- ◆ Eliminate or reduce uncertainty
- ◆ Improve efficiency of the operation
- ◆ Obtain a better understanding of the objectives
- ◆ Provide a basis for monitoring and controlling work
- ◆ Focus team in the same direction

**A project without a plan is like a boat without a rudder.
It will go, but where?**



Time, Objectives and Resources

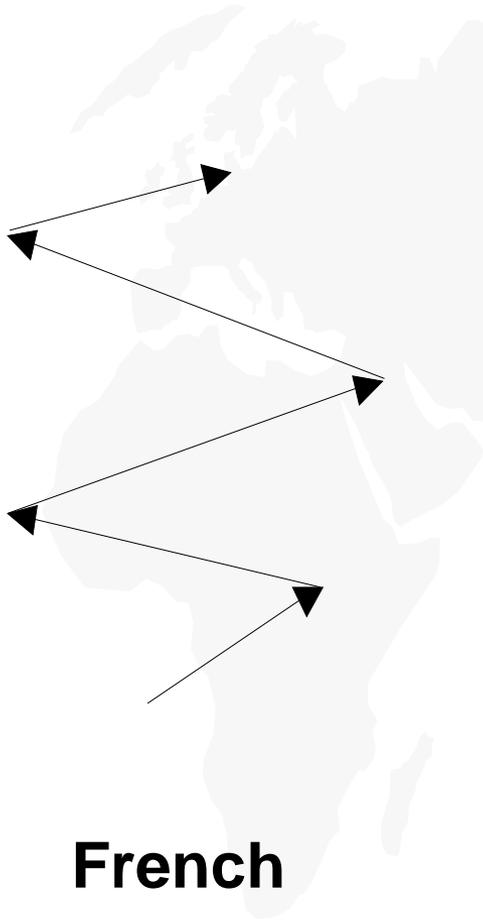


Resources + Time = Objectives

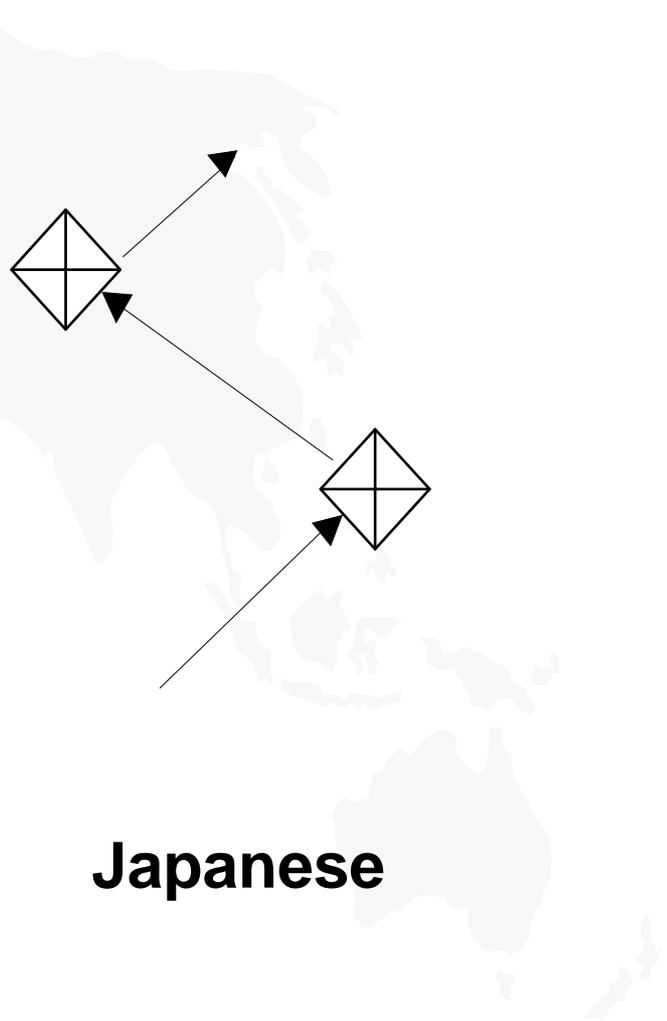
Cultural Planning Styles



American



French



Japanese

Statement of Work (SOW)

◆ Narrative description of the work

- Specifications
- Objectives
- Scope
- Funding limits

◆ Causes for misinterpretations

- No structure - tasks, specifications, approvals, and special instructions mixed together
- Imprecise language (nearly, optimum, and approximately)
- No pattern, structure or chronological order
- Wide variation in size of tasks
- Wide variation in level of detail
- No third party review

Work Breakdown Structure (WBS)

◆ Breakdown of the total project into smaller task

- Level 1: Total program
- Level 2: Project
- Level 3: Task
- Level 4: Sub task
- Level 5: Work Package
- Level 6: Level of effort

◆ WBS provides the basis for:

- Responsibility matrix
- Network scheduling
- Costing
- Risk analysis
- Organizational structure
- Coordination of objectives
- Control

Work Breakdown Structure

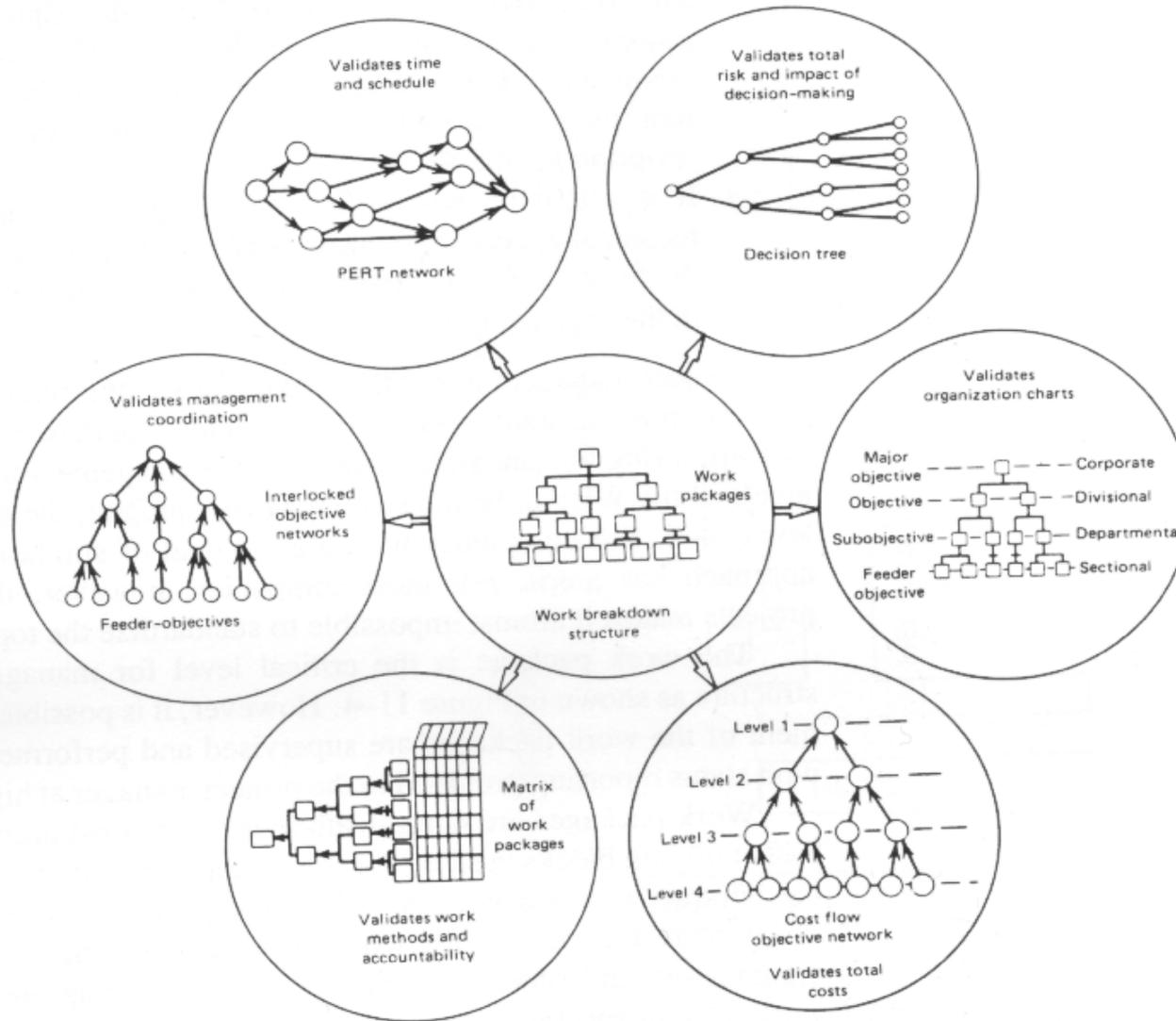
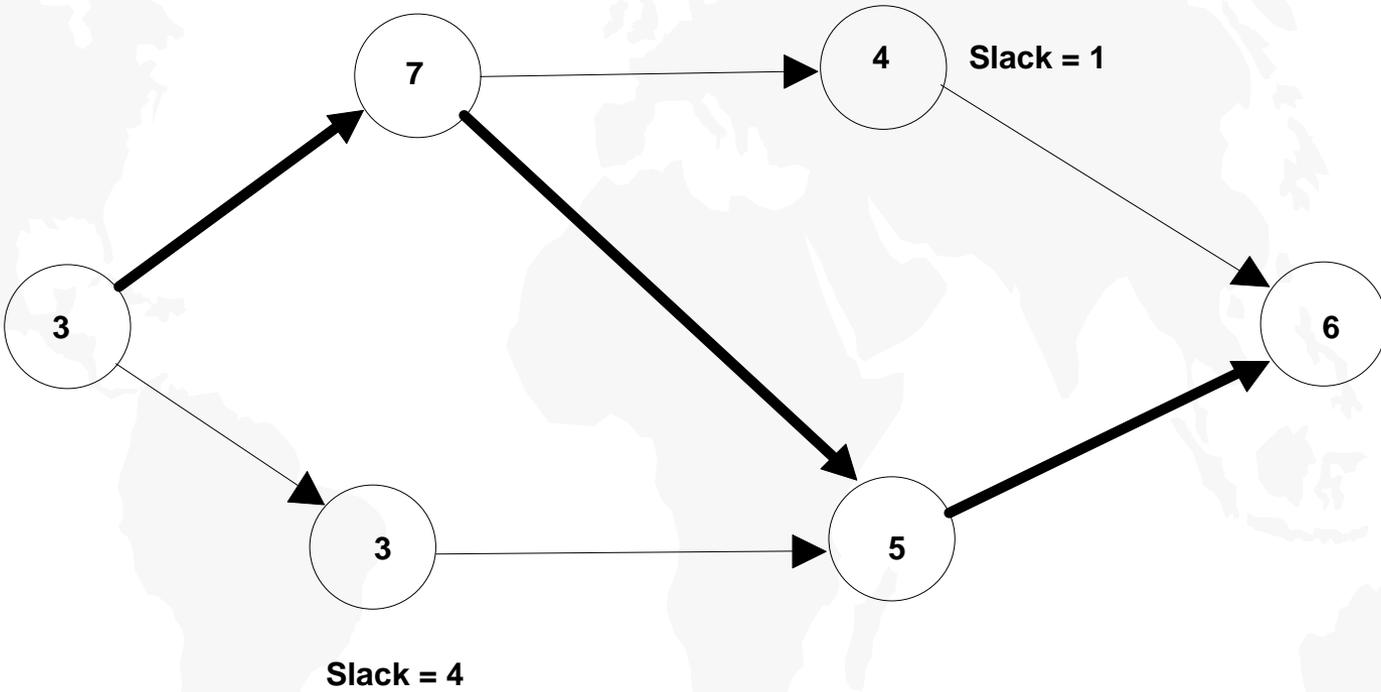


FIGURE 11-3. Work breakdown structure for objective control and evaluation. *Source.* Paul Mali, *Managing by Objectives* (p. 163). Copyright © 1972 by John Wiley & Sons, New York. Reprinted by permission of the publisher.

Network (PERT Chart) & Slack Time



PERT & Critical Path

- 1. Create Work Breakdown Structure**
- 2. Sequence WBS activities (arrow chart)**
- 3. Review arrow chart with line managers (experts)**
- 4. Estimate activity duration by line managers (experts)**
- 5. Look at/adjust Critical Path**
- 6. Place calendar dates on each event and insure resources are available**

Management Cost and Control System

- ◆ Am I on schedule?
- ◆ Am I on budget?
- ◆ Am I meeting the project objectives?
- ◆ How do I get back on track?
- ◆ How do I get the information to evaluate the above items?
- ◆ How do I communicate the project's status to the rest of the world?

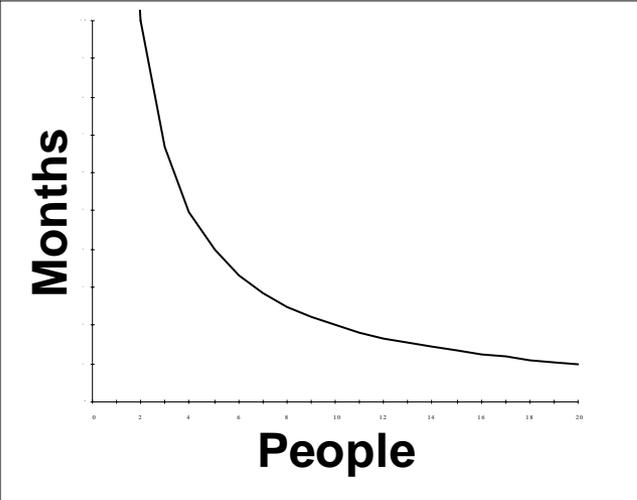
Getting the Information

- ◆ **Team is the key, the person doing the work is in the best position to know how their part of the project is going.**
- ◆ **Education about the Management Cost and Control System for the whole team**
- ◆ **MBWA - Management by working around - phone calls, e-mail, video conferencing, face to face, time card input, status reports**
- ◆ **Trade off between status reporting and doing the work**

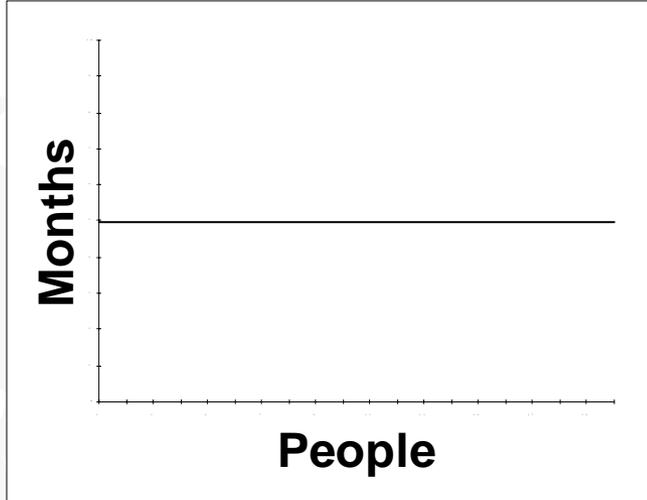
Am I on schedule and on budget?

- ◆ **Gantt Charts**
- ◆ **Network Charts**
- ◆ **Plan vs. Actual vs. Revised Plan**
- ◆ **Identify why things went faster or slower than planned**
- ◆ **You can get lost in the tracking system**

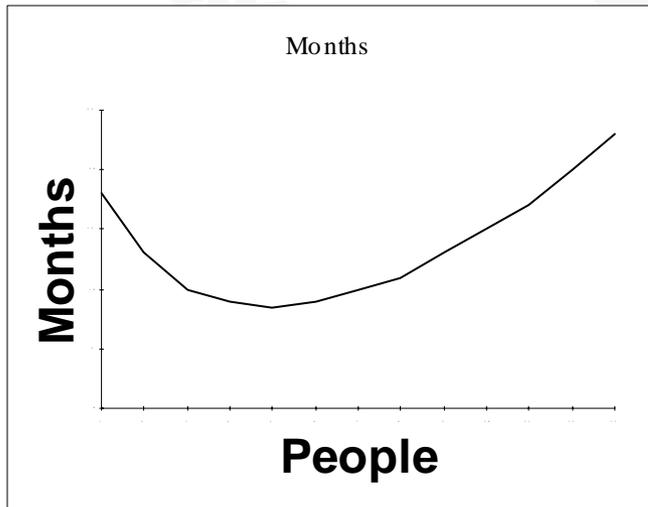
Crash Times & Mythical Man Month



Perfectly Partionable Tasks



Unpartitionable Tasks



Tasks with complex interrelationships

by Frederick P. Brooks, Jr.

Failures of plans

- ◆ **Corporate goals not understood at lower organizational levels**
- ◆ **Plans encompass too much in too little time**
- ◆ **Poor financial estimates**
- ◆ **Plans based upon insufficient data**
- ◆ **No planning methodology**
- ◆ **Planning performed by a planning group**
- ◆ **Management assumes that all activities will be completed on schedule**

Stopping a project

- ◆ **Final achievement of the objectives**
- ◆ **Poor initial planning and market prognosis**
- ◆ **A better alternative is found**
- ◆ **A change in the company strategy**
- ◆ **Allocated time is succeeded**
- ◆ **Budgeted costs are exceeded**
- ◆ **Key people leave the organization**
- ◆ **Personal whims of management**
- ◆ **Problem too complex for the resources available**

Task Specific Leadership Style

◆ Matrix Dimensions

- Task Behavior
- Relationship Behavior

◆ Other's Readiness

- Ability
- Motivation

◆ Leadership Style

- Directing
- Guiding, Coaching
- Supporting, Participating
- Delegating

Team development stages



◆ Forming

- ☞ Initial awareness - why are we here?
- ☞ Will I be accepted?
- ☞ Leadership: Dependence

◆ Storming

- ☞ Sorting-out process - bidding for control and power
- ☞ Will I be respected?
- ☞ Leadership: Independence

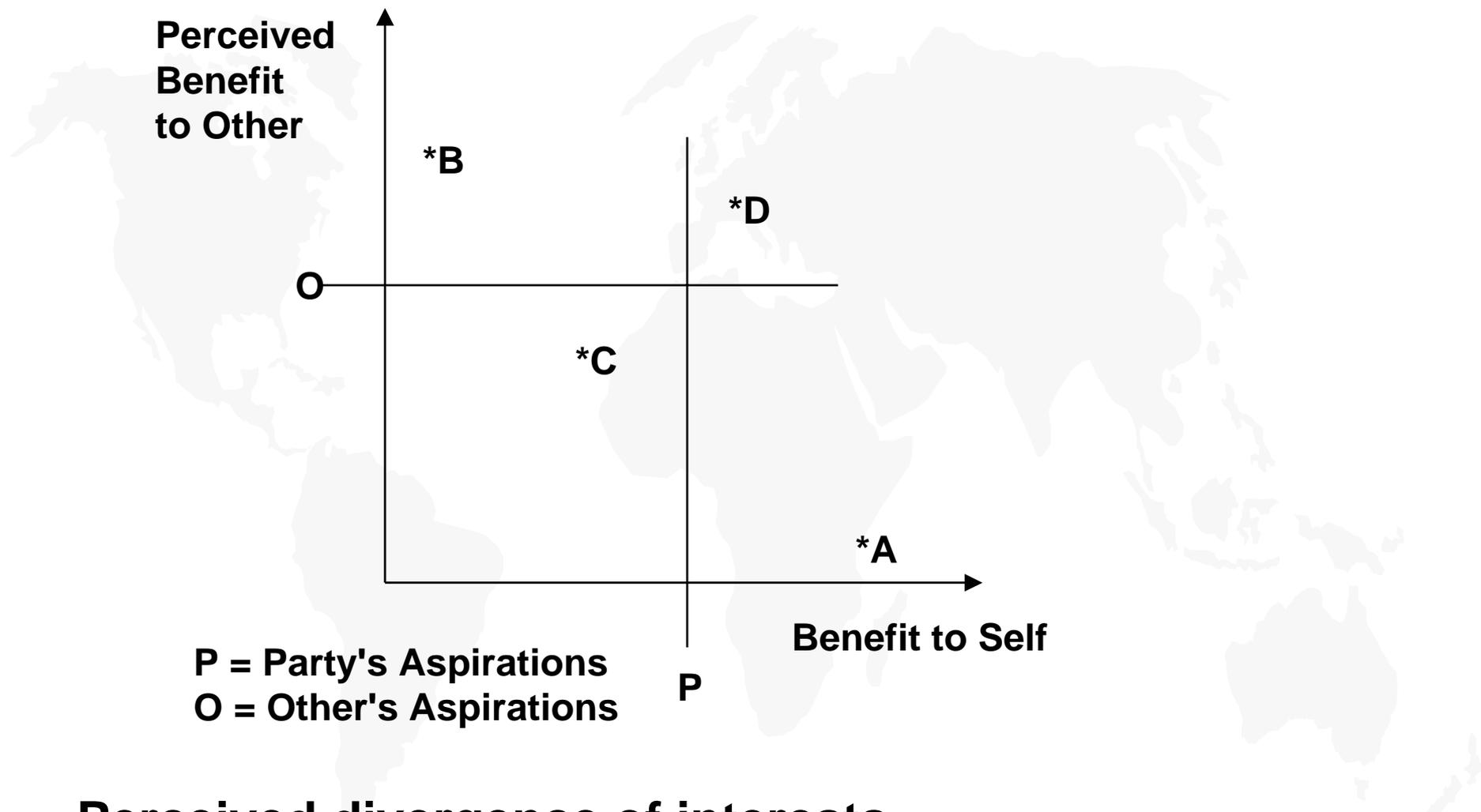
◆ Norming

- ☞ Self-organization
- ☞ How can I help the group?
- ☞ Leadership: Interdependence

◆ Performing

- ☞ Maturity and mutual acceptance
- ☞ How can we do better?
- ☞ Leadership: Interdependence

Sources of Conflict



Perceived divergence of interests

Conflict Handling Modes

◆ Inaction (Withdrawal)

- Retreating from an actual or potential disagreement. Termination of efforts to resolve the conflict.

◆ Yielding (Smoothing)

- Lowering one's aspirations.

◆ Contending (Forcing)

- Any effort to resolve a conflict on one's own terms without regard to the other party's interests. Making threats, imposing penalties, preemptive actions.

◆ Problem Solving (Confrontation, Compromising)

- Any effort to identify the issues dividing the parties and to develop and move toward a solution that appeals to both sides.

Strategic Choices - Handling Conflict

