Joint Application Design
JAD
OVERVIEW

One~Page Summary

1. Define Problem/Opportunity
2. Identify Sponsoring Executive
3. Identify <u>Every</u> Stakeholder
4. Define Resources/Constraints
5. Define Project Deliverables
6. Define Business Success Factors
7. Assign JAD Team
8. Do JAD Plan
9. Do JAD Session
10. Do JAD Wrap-Up
11. Do Post-JAD Analysis
12. Do Post-Project Analysis

Today's Environment

Challenges

Do More, Faster, With Less

Enterprise-Wide Process Re-Engineering

Dynamic Re-Organization

New Laws

New Markets
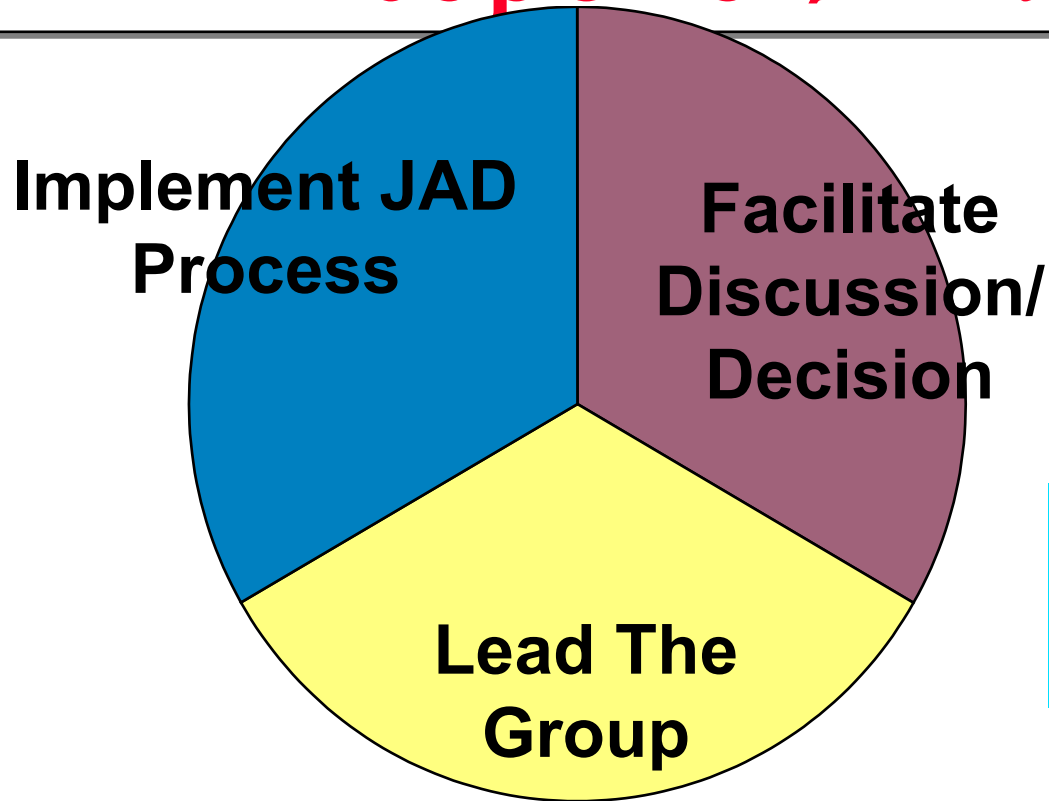
New Competition

I/S Environment

Executive Expectations
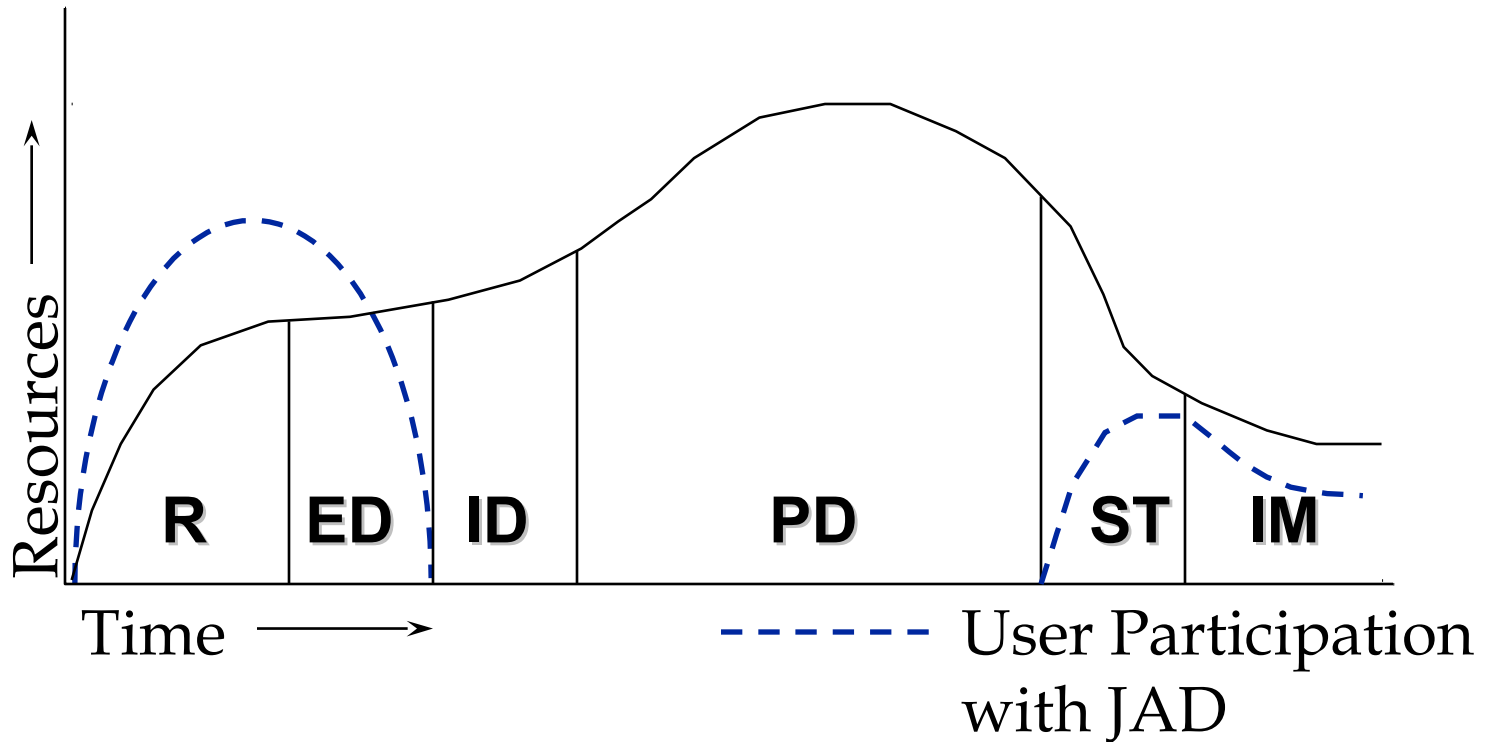
Data Locked in Legacy Systems

Tools, Techniques, Methods Not Adequate

JADs Used for Application Development/Group Decision

Session Leader's Responsibilities

Implement JAD Process

Facilitate Discussion/ Decision

Lead The Group

Life Cycle View

Resources →

R | ED | ID | PD | ST | IM

Time ⟶

- - - - - User Participation with JAD

R: Requirements
ED: External Design
ID: Internal Design

PD: Program Development
ST: System Test
IM: Install/Maintenance

Uses for JAD

Application Development, Adaptation, & Selection

   Requirements

   External Design/Prototypes

   User Test Cases

   Training
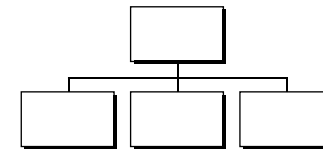
   Post-Implementation Reviews

Strategic Planning

Customer Satisfaction Session

Organization Changes

Request for Proposal Development

Curriculum Design/Development

Why Use JAD?

Accelerates Application Development/Selection Process

Increases Developers' Productivity

User Participation in Application's Design

Improves Communications Between:

    User and I/S

    User and User

    I/S and I/S

Enables Consensus, Commitment, and Partnership Across the Enterprise

Why JAD Works

USERS

Educates Users About Development Process

Gives Users More Input & Accountability for Design

Leverages User's Subject Matter Expertise at Right Time

I/S

Ensures I/S and Users Come to Consensus Early

Provides I/S Subject Matter Expertise at Right Time

Educates I/S About Business Process

MANAGEMENT

Ensures Management Communications & Participation Through Executive Sponsor
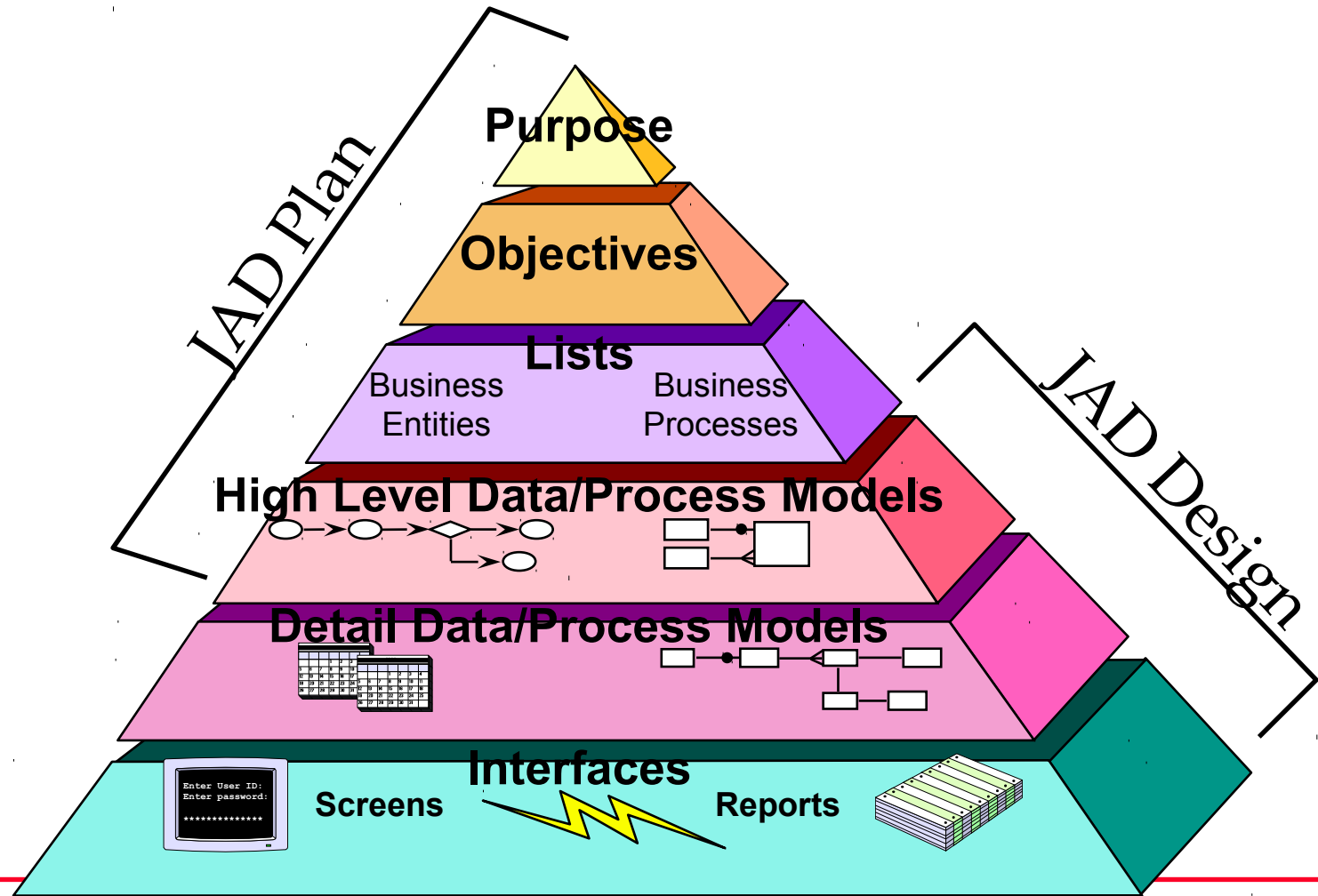
Enforces Top-Down Design to Ensure Business Objectives Are Met

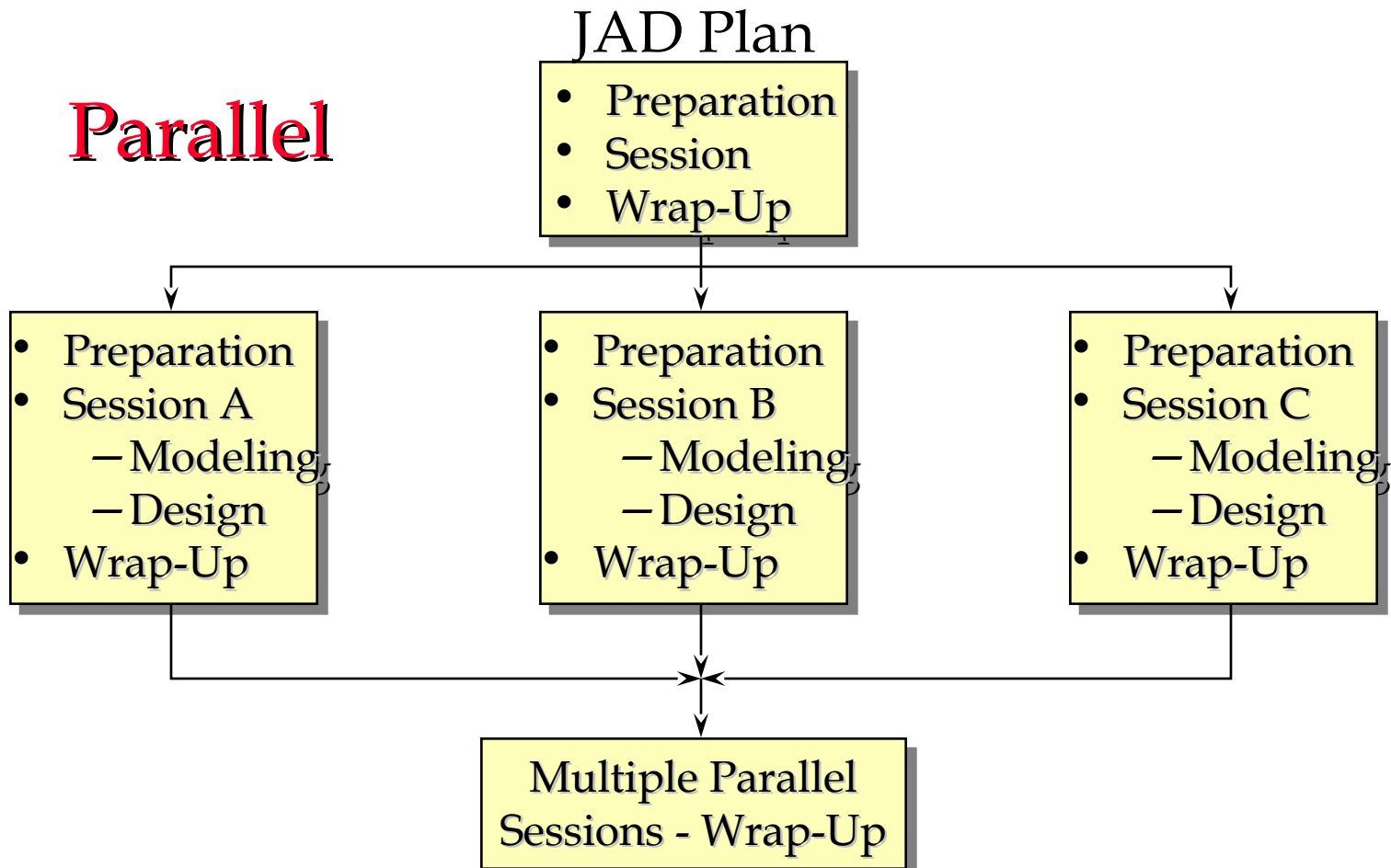Educates Management On Both I/S and Business Area Detail

Leverages Management Subject Matter Expertise at Right Time

JAD Phases

Multiple JADs
Parallel or Serial?

JAD Plan

Parallel

- Preparation
- Session
- Wrap-Up

- Preparation
- Session A
  - Modeling
  - Design
- Wrap-Up

- Preparation
- Session B
  - Modeling
  - Design
- Wrap-Up

- Preparation
- Session C
  - Modeling
  - Design
- Wrap-Up

Multiple Parallel
Sessions - Wrap-Up

Multiple JADs
Parallel or Serial?

JAD Plan

- Preparation
- Session
- Wrap-Up

Serial

- Preparation
- Session A
  - Modeling
  - Design
- Wrap-Up

- Preparation
- Session B
  - Modeling
  - Design
- Wrap-Up

- Preparation
- Session C
  - Modeling
  - Design
- Wrap-Up

Multiple Serial
Sessions - Wrap-Up

JAD Plan Session Deliverables

Application Baseline Document
1.   Introduction
2.   Executive Summary
- Project Purpose
- Business Objectives
- Scope of Solution
3.   Assumptions & Constraints
4.   Technology Framework
5.   High-Level Business Model
- Process
- Data
6.   System Interfaces
7.   JAD Session Design
- Scope JAD A, JAD B, etc.
- Estimates
- Resources Needed (-- Schedule)
Appendix A: JAD Participants/Roles
Appendix B: Current Organizational Charts
Appendix C: Change Management Procedures
Appendix D: Etc.

JAD Design Session Deliverables

Requirements & Design Document

1. Introduction
2. Executive Summary
3. Application Definition - Detailed Models
   - Process
   - Data
4. Input & Output Design
   - Screens
   - Reports
   - Message Text
5. Interface Designs
6. Technology Specifications
   - Hardware/Software/Communications
   - Performance
   - Security
   - Back-Up & Recovery

Appendix A: Data Dictionary
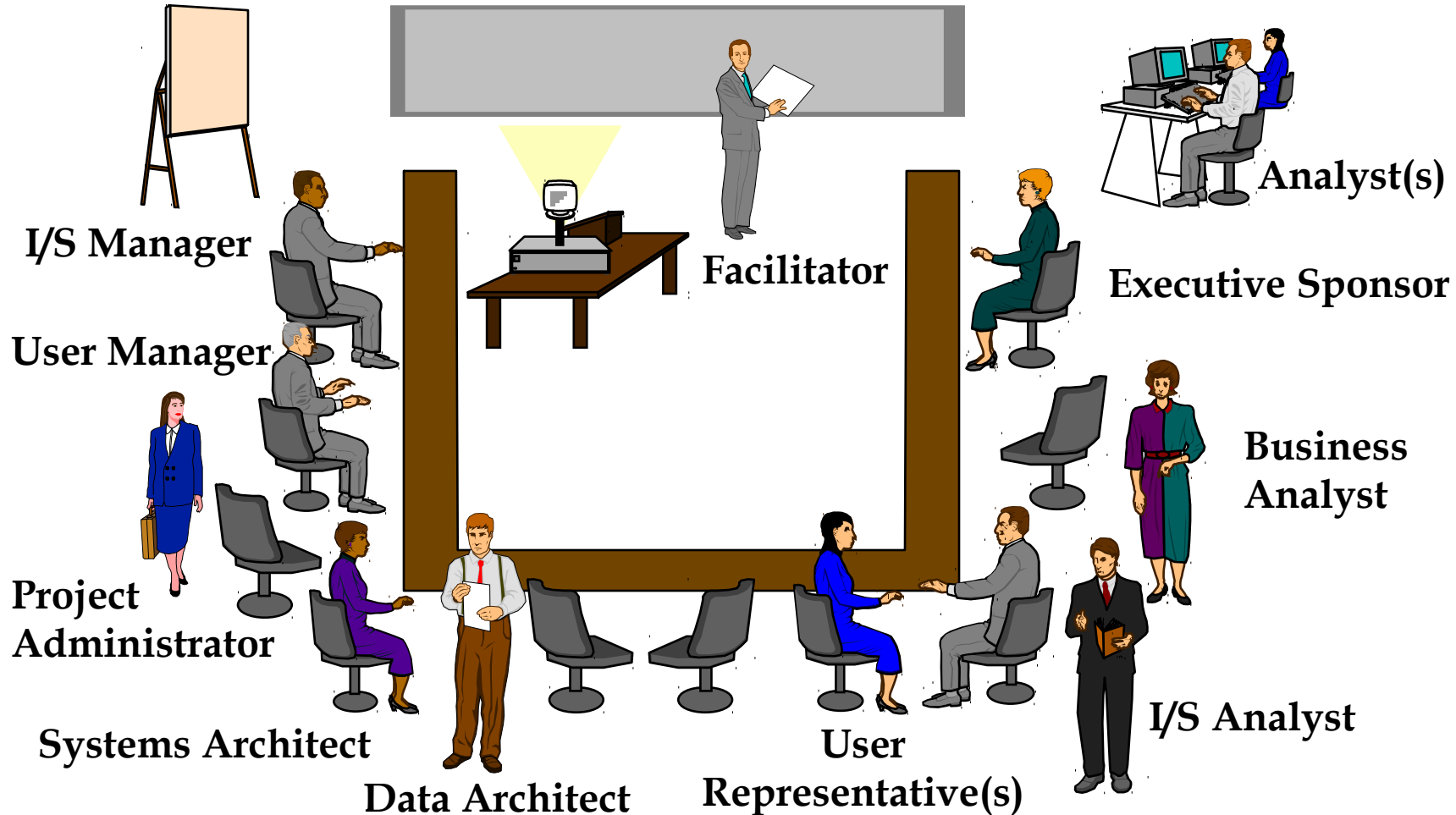Appendix B: Etc.
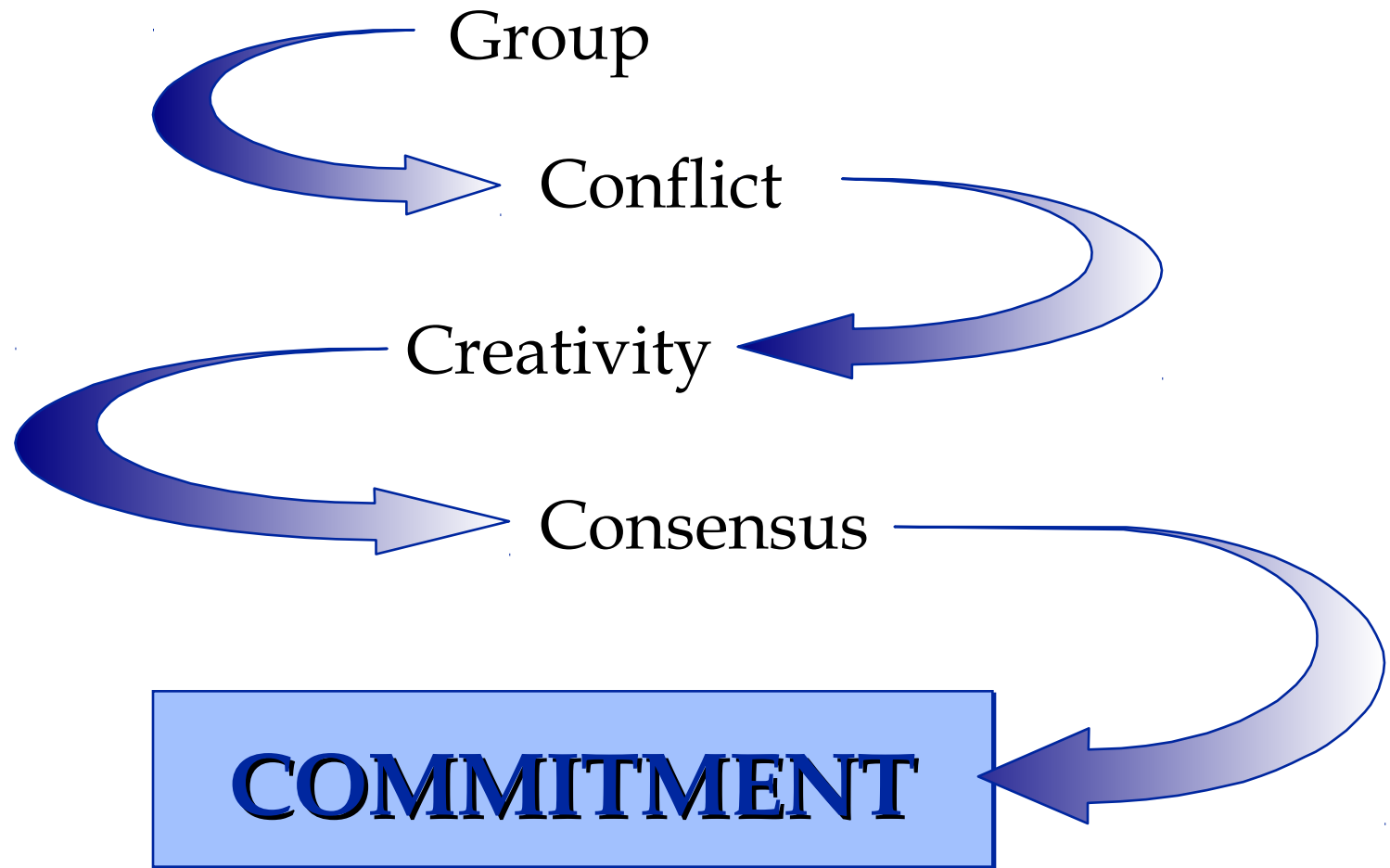
JAD Participants

Facilitator

Analyst(s)

Stakeholders
Subject Matter Experts
Sponsor

JAD Facilities

I/S Manager

User Manager

Project Administrator

Systems Architect

Data Architect

Facilitator

User Representative(s)

Analyst(s)

Executive Sponsor

Business Analyst

I/S Analyst

Commitment

Group

Conflict

Creativity

Consensus

COMMITMENT

Facilitator's Role

Lead the Group

Facilitate Group Dynamics & Discussions

Implement JAD Process

Analyst(s) Role

Maintain Process & Data Models

Record Stakeholder Decisions, Issues, & Action Items

Produce All JAD Plan, Session, & Wrap-Up Deliverables

Stakeholders Role

Know Current Business Processes, Challenges, Critical Success Factors

Make Business Decisions on Future Business Direction & Systems Requirements

Provide Subject Matter Expertise

JAD Plan

JAD Plan Preparation

JAD Plan Session

JAD Plan Wrap-Up

JAD Plan Preparation Steps

1. Interview Executive Sponsor

2. Read Existing Documentation

3. Complete Draft of 1-Page Project Summary

4. Interview Stakeholders

5. Establish JAD Team

6. Customize Application Baseline Document Template

7. Create JAD Plan Session Agenda

8. Prepare Materials

9. Set Up Room

10. Review with Executive Sponsor

JAD Plan Session Steps

1. Executive Sponsor: Kicks-Off Session
2. Review Expectations/Procedures
3. Define Application Scope
4. Define JAD Design Session Plans
    Plans
        Parallel or Serial
        Resources Needed
        Estimates
        Schedules
    Standards
        Screens
        Reports
        Interfaces

5. Complete Application Baseline Document
6. Conclude JAD Plan Session

JAD Plan Wrap-Up Steps

1. Produce Completed Application Baseline Document

2. Review & Get Stakeholder Sign-Off

3. Produce Executive Sponsor Presentation

    Application Information

    Issues/Action Items

    Stakeholder Commitments

    JAD Design Plan

4. Present to Executive Sponsor & Get Commitment

JAD Design

JAD Design Preparation

JAD Design Session

JAD Design Wrap-Up
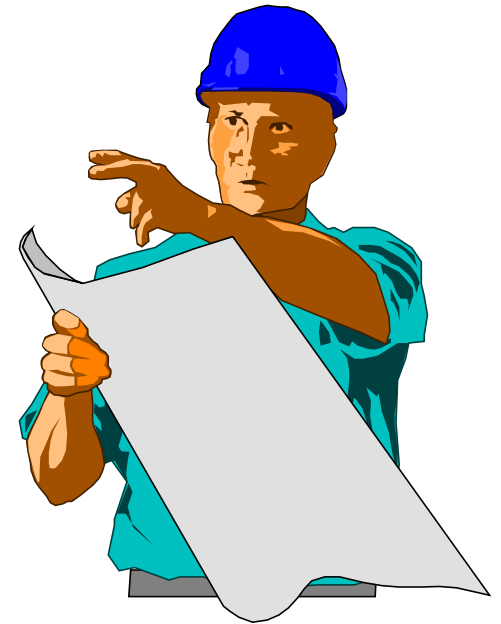
JAD Design Preparation Steps

1. Review Application Baseline Document, Issue Status, Action Items, Other Material

2. Establish JAD Team

3. Interview Stakeholders

4. Customize Requirements & Design Document Template

5. Create JAD Session Agenda

6. Prepare Materials - Update 1-Page Project Summary
   Screen, Report, Interface Templates
   Process & Data Model Templates

7. Set Up Room

8. Dry-Run with JAD Team

9. Review with Executive Sponsor

JAD Design Session Steps

1. Executive Sponsor: Kicks-Off Session

2. Review Expectations/Procedures

3. Define Application

4. Design Application

   Detailed Process & Data Models

   Input/Output (Prototype User Interfaces)

   Interfaces

   Technology Specifications

5. Complete Requirements & Design Document Template

6. Conclude JAD Design Session

JAD Design Wrap-Up Steps

1. Produce Completed Application Requirements & Design Document

2. Review & Get Stakeholder Sign-Off

3. Produce Executive Sponsor Presentation

    Updated Project Purpose

    Updated Business Objectives

    Updated Application Solution Scope

    Project Timeline/Costs

    Post-Installation Review Plans

4. Present to Executive Sponsor & Get Approval/ Commitment

Post-JAD Analysis:
What Changes Are Needed?

Tools

Subject Matter Experts

Templates

Procedures
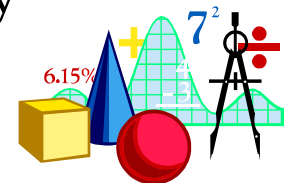
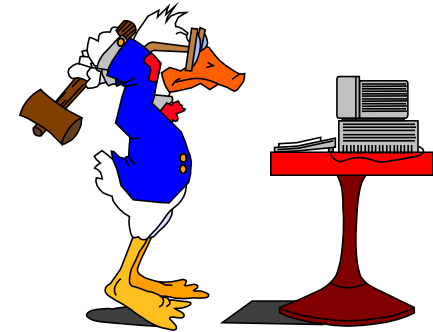Estimating Variables

    Number of Major Entities Modeled per Day

    Number of Business Processes Modeled per Day

    Time to Plan & Prepare Design Sessions

    Time to Conduct Design Sessions

    Time to Wrap Up & Get Approvals

Post~Project Analysis

PLAN	ACTUAL	%△
Function	Function'	+/- 10%
Schedule	Schedule'	
Cost	Cost'	
Quality	Quality'	
Customer	Customer	
Satisfaction	Satisfaction'	
Maintenance	Maintenance'	
Re-Use	Re-Use'	

Project Management Model
(Mobile)

INPUT   OUTPUT

Quality

Time

Resources

Function