Building Enterprise Client-Server Solutions using Microsoft Solutions Framework

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Pre-req: Interest in building client-server applications.

Top 10 IS Challenges

Re-engineering through IT

Aligning IS and corporate goals

<u>Improving systems development (1992 - 9th)</u>

Instituting cross-functional systems

Organizing and utilizing data

<u>Cutting IS costs (1992 - 11th)</u>

Creating an information architecture

<u>Updating obsolete systems (1992 - 18th)</u>

Developing an IS strategic plan

Changing technology platforms

Focus Group Survey

Different set of skills

Must do rapid prototyping

Must have reusable code

Must have end-user involvement

No well-established infrastructure

Unproven tools, techniques

Politics is "golden rule"

The Business Challenge

Develop LOB Applications Faster

More Responsive to End Users

More Responsive to Changes in Business Requirements

Allow for re-engineering business processes

Reduce System Costs

The Technical Challenge

Technology Transfer

Selection of Technologies

Structured & Disciplined C/S Design and Development

Re-Engineering

Microsoft's Challenges

Robust, feature-rich applications

First on the market with the features users want

Keep price points in line with industry

Key MSF Drivers

Applications developed by business units

Client-Server Architecture

Portability and interoperability

Tools will incorporate O-O technology

Architecture, methodology, and infrastructure

Iterative process model

Education and training

MSF as a product!

CD-ROM Knowledgebase

  Concepts

  Guides

  Assistants

Topic Locator Database

Topic Editor

Mentor **Content Browser**

MSF is . . .

Tactical

On-line

Extensible

Demo of MSF *Mentor*

Building A Flexible Architecture

Business applications

Application architecture

Data architecture

Business architecture

Technology architecture

Map Methodologies into the Architectural Framework

Business Applications

SDLC

A & D

IS Re-Eng

Application Architecture

Data Architecture

Business Architecture

User Interface& BPR

Technology Architecture

IT Re-Eng

Data Model

The MSF Reference Model

Data Services
Business Services
User Services

Product Mgmt
Program Mgmt
Dev. Mgmt
User Ed.
Test/QA
Logistics

Vision   f-Spec   Code   Release
                    Comp
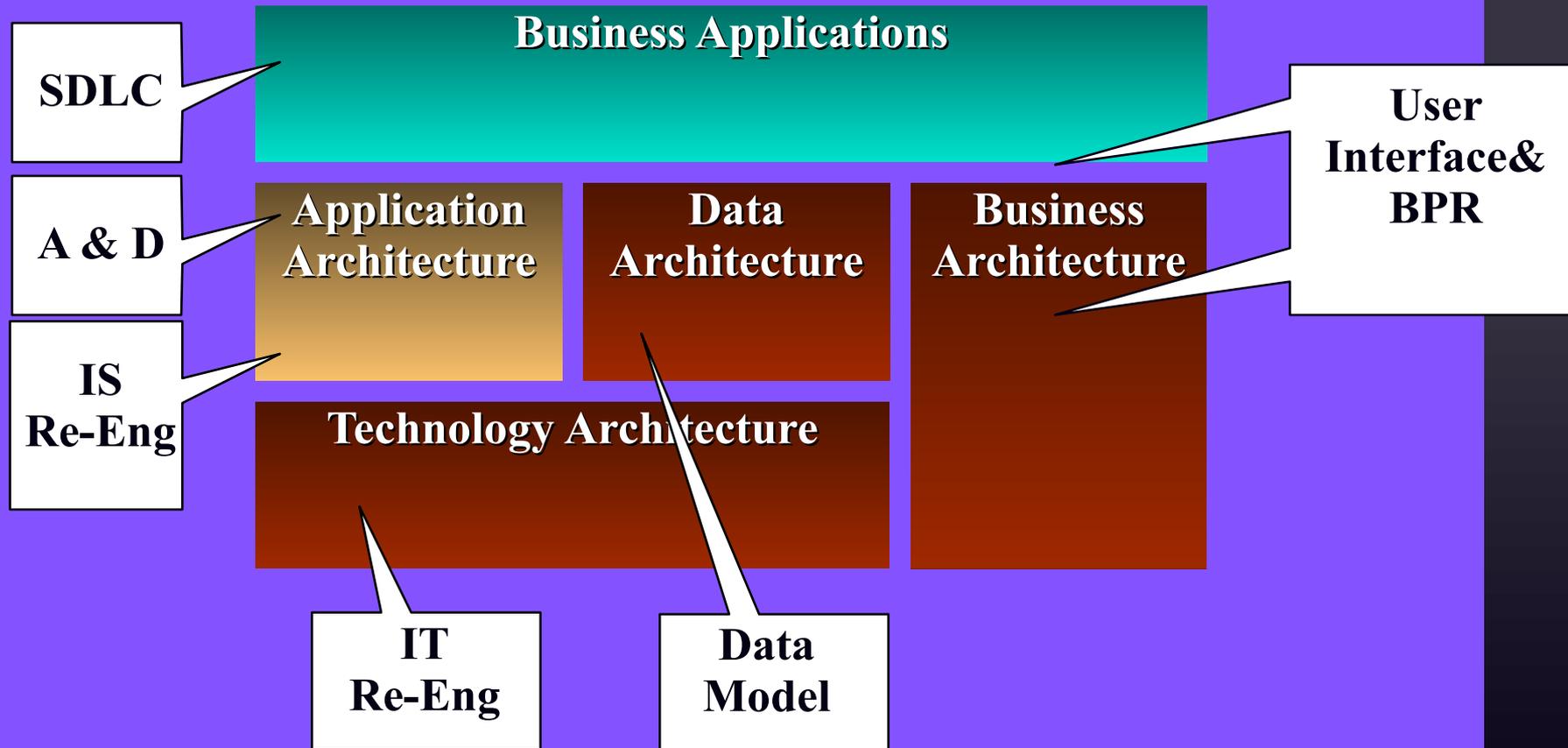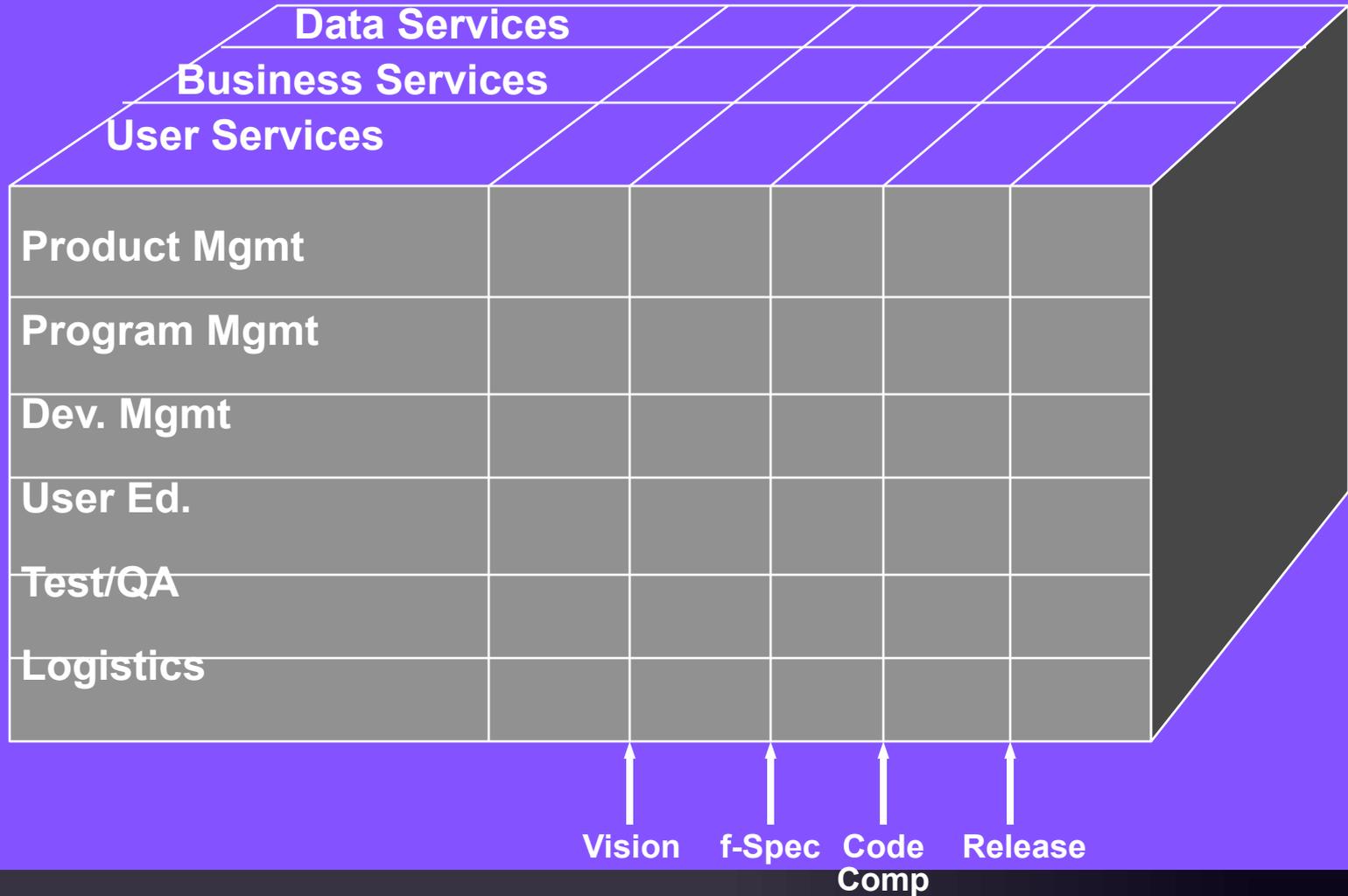
MSF: The WOSA of Methodologies

ODBC

Common Inteface
Service Provider Interface

MSF

Common Context
Methodologies, tools, and technologies

The Application Architecture
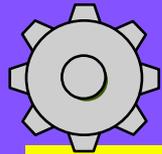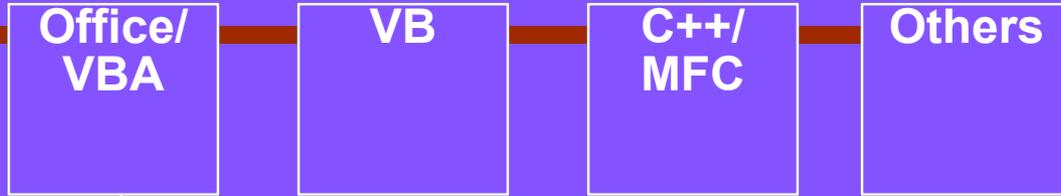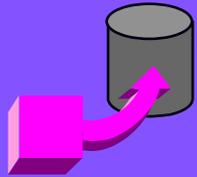
| Office/ VBA | VB | C++/ MFC | Others |

Client

Business Process Object

Client

Server

Server

Data Services - DB, Telephone, Mail, etc.

The Application Architecture

Visual Basic

Office/ VBA **VB** **C++/ MFC** **Others**

VBX's, DLLs, OLE2

Client

Business Process Object

Client

Server

Server

DB-LIB, ODBC, MAPI, TAPI

Data Services - DB, Telephone, Mail, etc.
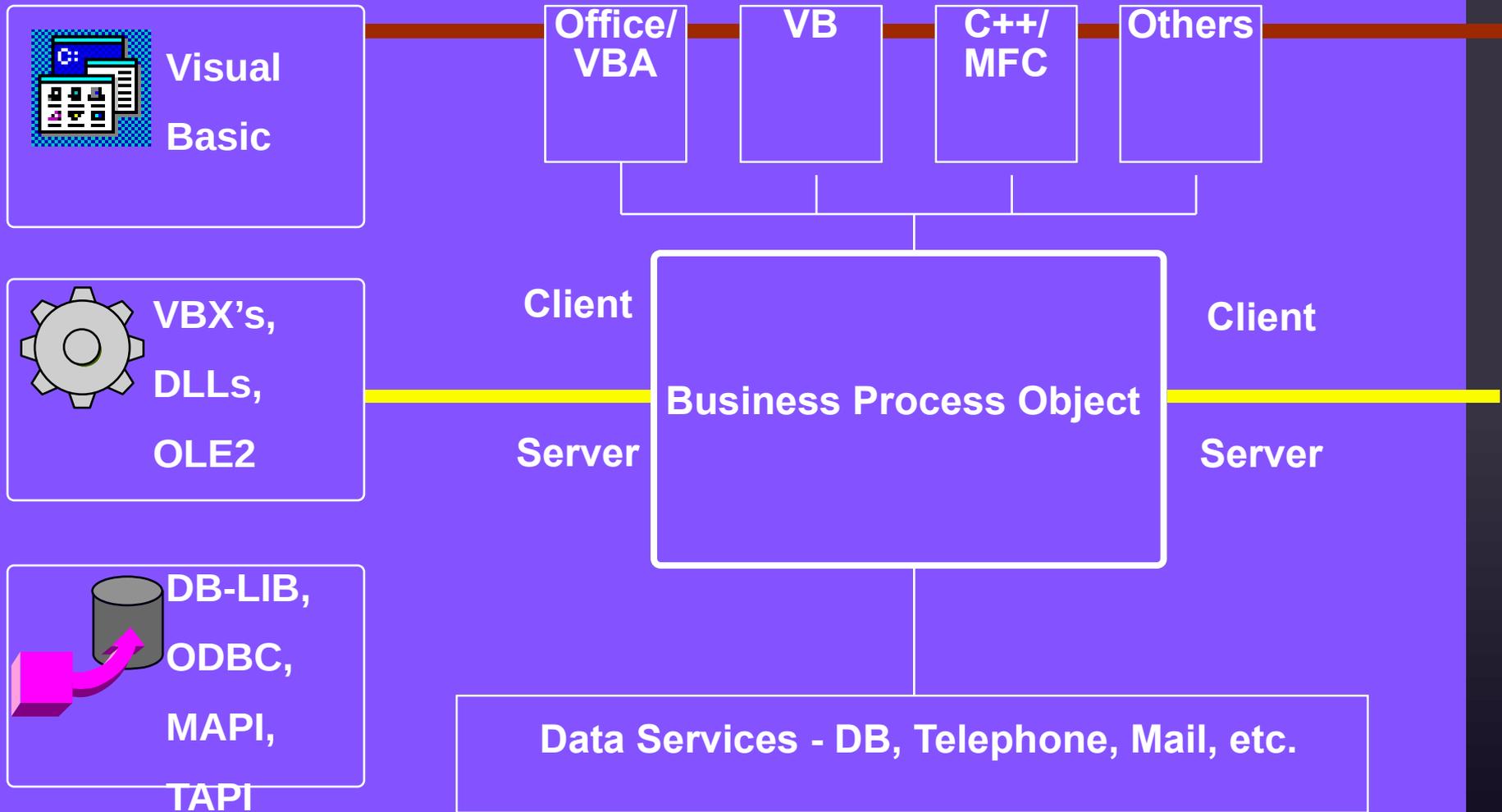
The Application Architecture

Customer Account Interface
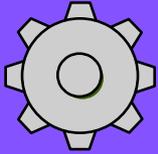
Customer Account Transaction
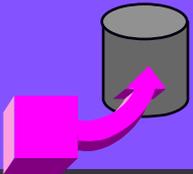
Customer Table

The Application Architecture

Customer Account Interface

Customer Stock Queries

Customer Account Transaction

Customer Stock Transaction

Customer Table

Stock Table
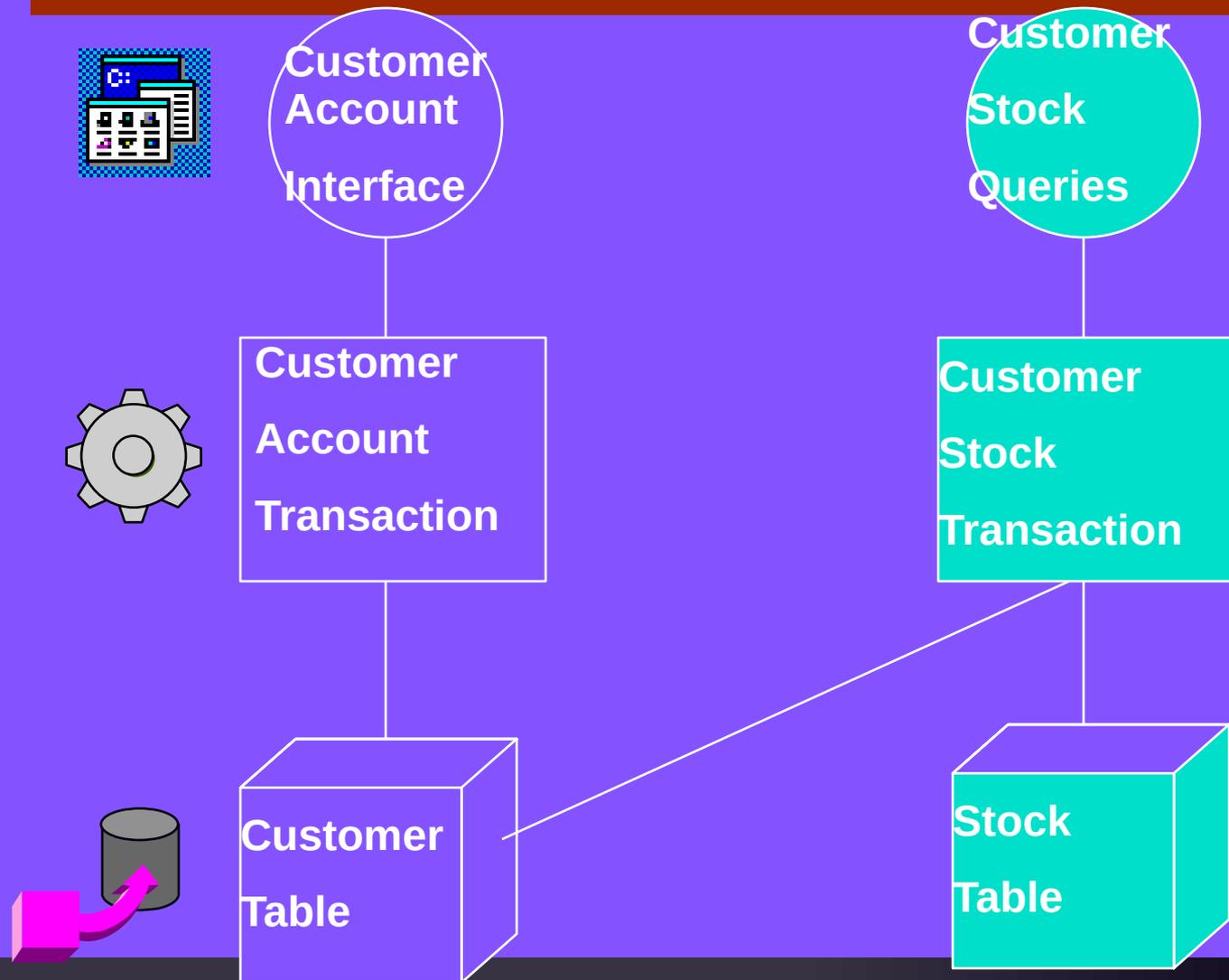
The Development Discipline

Product Mgmt					
Program Mgmt					
Dev. Mgmt					
User Ed.					
Test/QA					
Logistics					

Vision **f-Spec** **Code Comp** **Release**
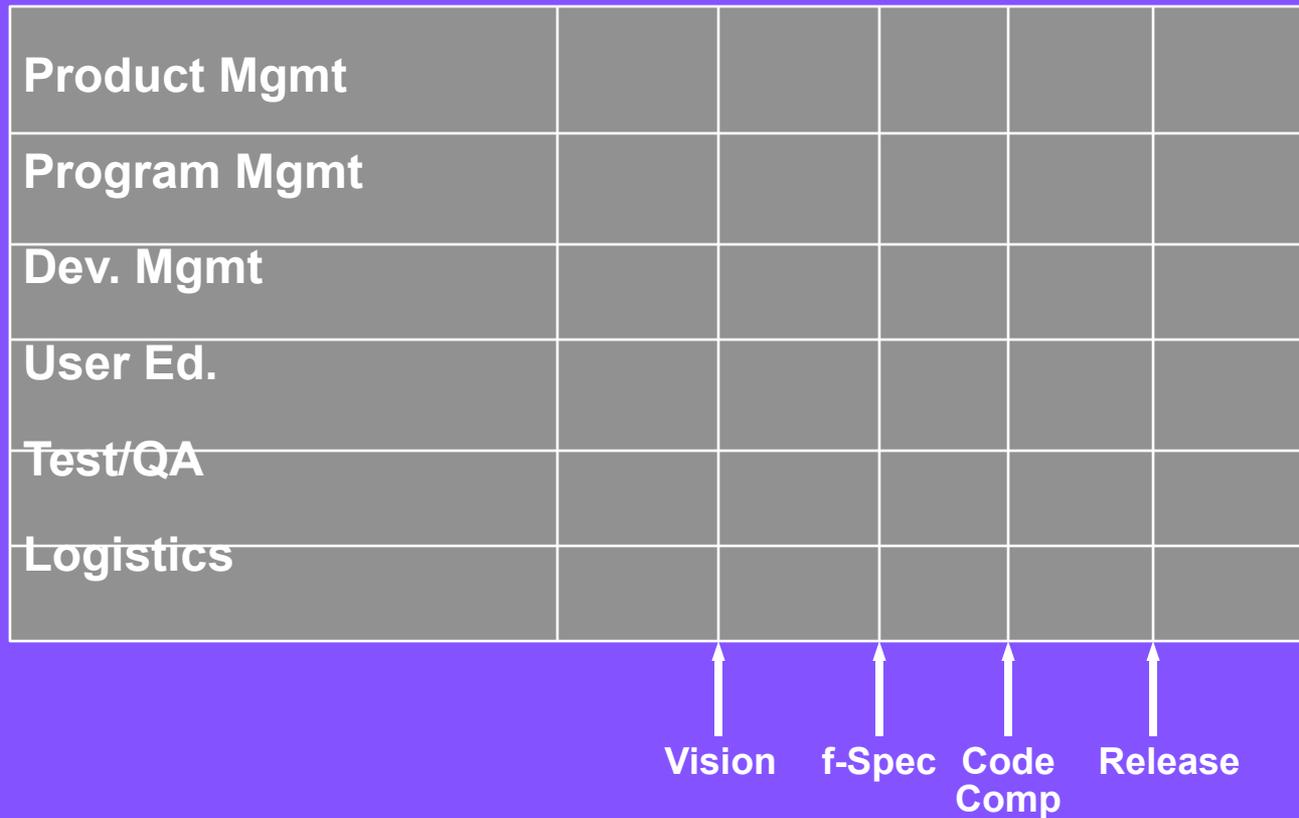
MSF Roles

Project Manager

Product Mgmt: The user representative

Program Mgmt: The IS representative

Development: The programmers

User Education: Training, on-line help, CBT

Test/QA: Standards compliance, unit/system tests

Logistics: Deployment, support, help desks, etc.

Key Factor: All the roles, All the time

DD Key C/S Components

Ownership & Empowerment

Risk Driven, Milestone <u>not</u> Task approach

Development is a tool

Interim Releases

Constant capturing and evaluation of requirements

MSF Advantages

Early identification and mitigation of risk

User-centric focus

Business & technical flexibility

Common frame of reference between partners

MSF Availability

MSF 0.9 Pre-Release CD

Core Concepts Overview

Shipped February 28, 1994

Internal MCS distribution only

Solution Builder Certification Program

MSF Availability

MSF 1.0 General Availability

- Core Concepts Drill-Down
- Guides
- Assistants
- Ships June, 1994

MSF Availability

MSF 2.0 Release CD
Extensible Workbench

Planned December, 1994