Inside the Microsoft Desktop

Start

What Are You Are Going To Hear Today?

- Inside the Microsoft® desktop
  - Overview of Microsoft's Intranet strategy
  - Migration to a 32-bit Windows® Desktop Operating System
  - Deploying 32-bit Windows Desktop to lower total cost of ownership
  - Redefining desktop applications with Office 97
- All slides and referenced tools are available

Microsoft Windows
Where we are going

Windows

Ease of use
- Applications
- Hardware
- Training

Lower cost of ownership
- Existing infrastructure
- Deployment
- Administration

Internet/Intranet integration
- Protocols
- Development
- Deployment

Microsoft Windows
How we are getting there

Lower cost of ownership

Ease of use

- Integrated
- Comprehensive
- Easy

Internet/Intranet integration

Microsoft Intranet Framework

Tools

Client operating system/browser

Server applications and suites

Server operating system and infrastructure

Standard *protocols*

Microsoft Intranet Products

- Built-in Internet paradigms
- Complete: now and future
- Flexible packaging
- Integrated for lower administration costs

Microsoft Access, Visual C++, Visual J++, Visual Basic, FrontPage, Internet Studio

Internet Explorer , Office 97, Windows 95 and Windows NT
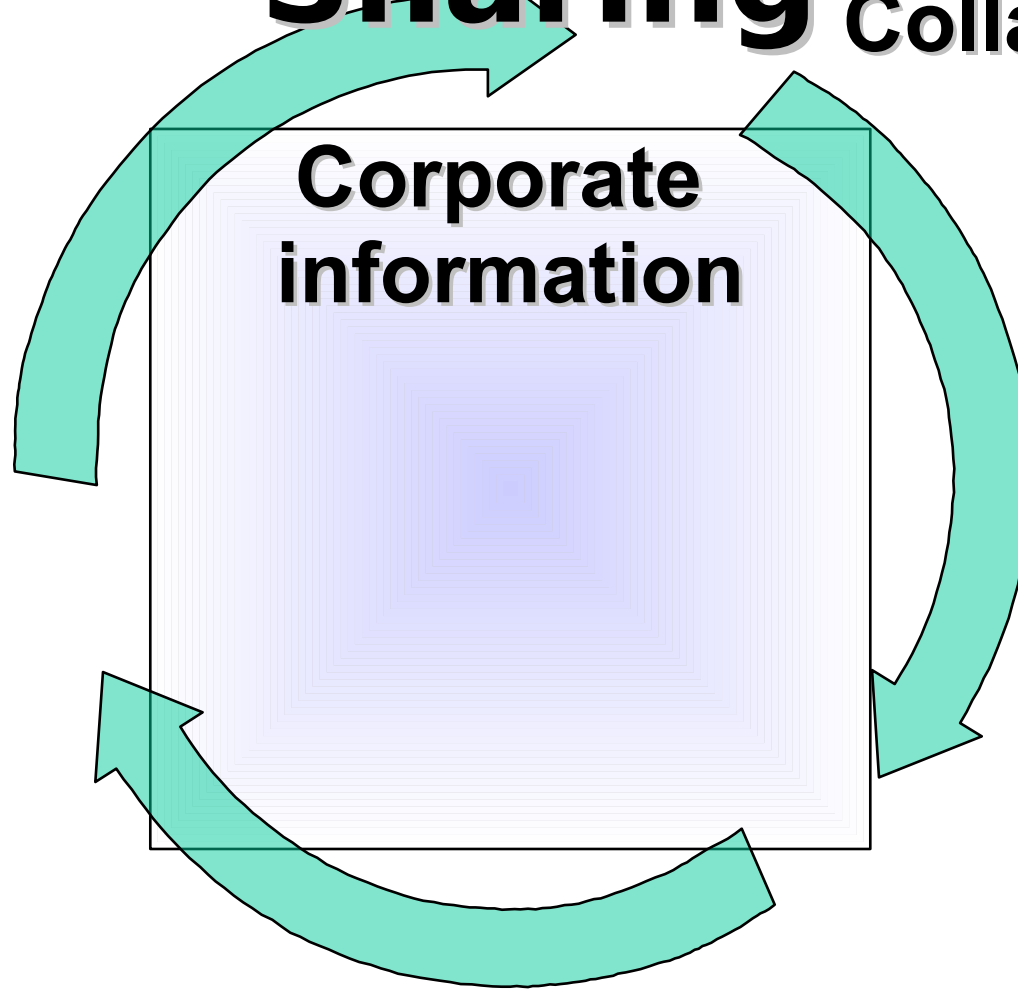
Microsoft BackOffice family and "Normandy"

Windows NT Server and Internet Information Server

Standard protocols

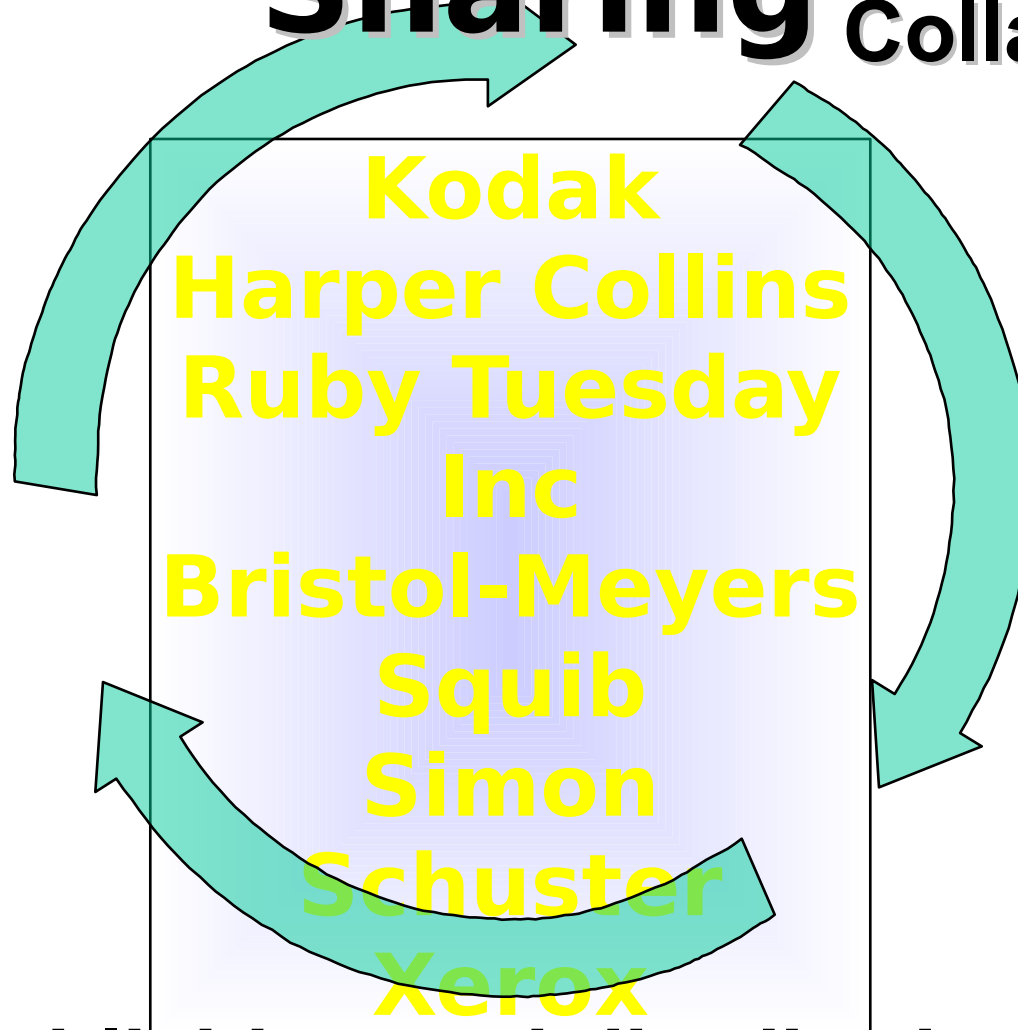# Information Sharing

Finding

Collaborating

Corporate
information

Publishing and distributing

Information Sharing

Finding

Collaborating

Kodak
Harper Collins
Ruby Tuesday
Inc
Bristol-Meyers
Squib
Simon
Schuster
Xerox

Publishing and distributing

Arcadia Bay
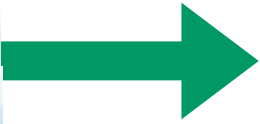## A composite of Microsoft customers

- Situational challenges:
  - Provide easier access to information
  - Multinational company with diverse information sharing needs
  - Must leverage existing infrastructure and legacy data
  - Must be easy to deploy and administer
- Solution:
  - Deploy Microsoft Intranet
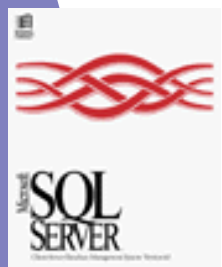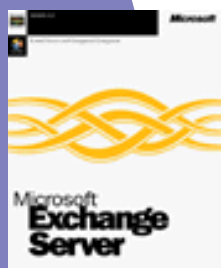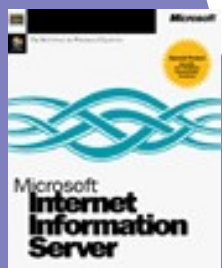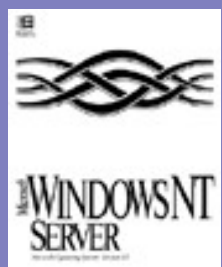
Arcadia Bay Intranet Architecture

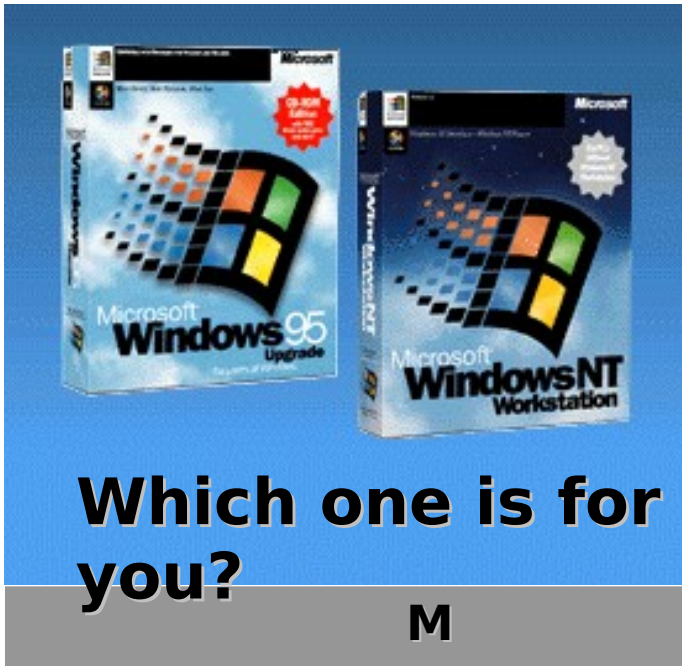

ODBC back end

MAPI back end

Web servers

Existing files, documents

Mainframe integration

Arcadia Bay Intranet Demonstration

Microsoft's 32-Bit Windows Desktop

Advantages of a 32-bit desktop

Which one is for you?

M

- **Ease of use**
- **Get the newest applications**
- **Great Intranet platform**
- **Greater reliability and manageability**

Windows 95 And Windows NT® Workstation 4.0

- **Windows 95 is the easiest way to a 32-bit desktop**
  - Lower system requirements (8+ MB)
  - Easy installation
  - Optimized for compatibility
- **Windows NT Workstation is the most powerful 32-bit desktop**
  - Higher system requirements (16+ MB)
  - High-performance, preemptive multitasking for both 16 and 32-bit applications
  - Industrial strength reliability and

Typical Windows Usage

Which to choose?
http://www.microsoft.com /NTWorkstation /Bestway.htm

Windows 95

- Mobile/laptop users
- Home users
- Gamers
- Those with under 16MB RAM or 110MB free disk
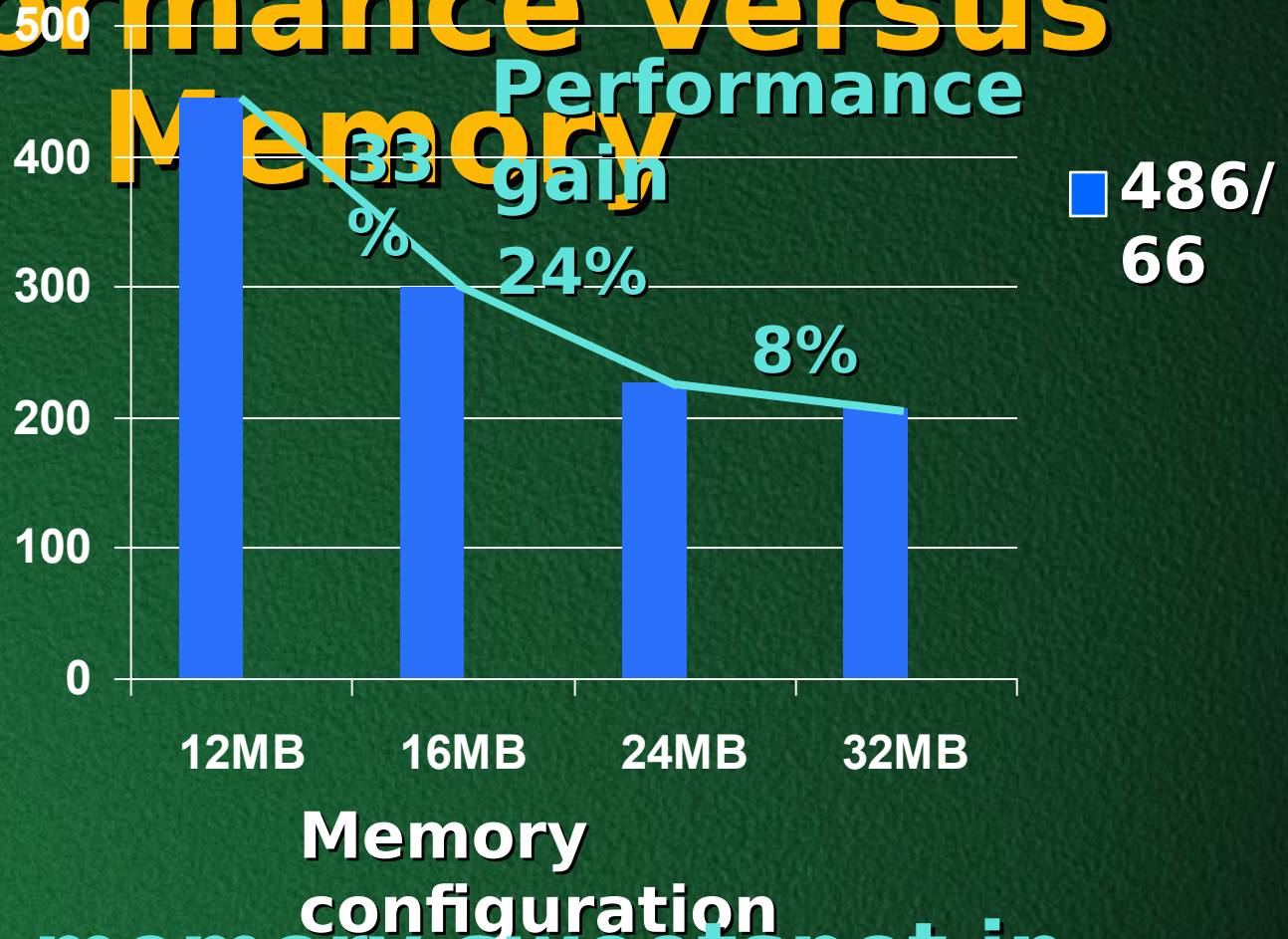- Users needing maximum MS-DOS® or Windows 3.1 application compatibility

Windows NT Workstation

- Technical workstations
- Developers
- Security conscious
- Key line of business applications
- Multi-processor or RISC processor support
- Business desktops
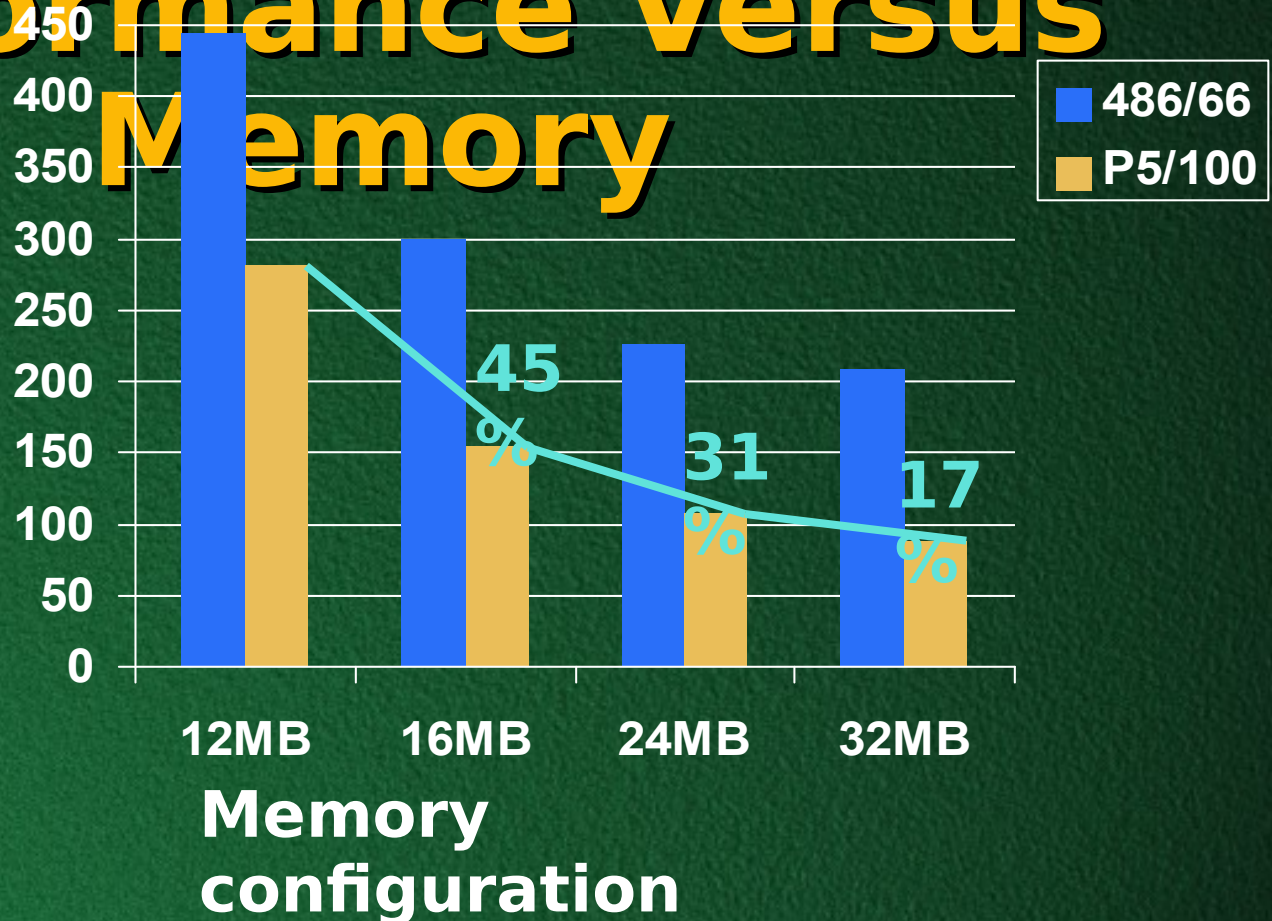
Windows NT Workstation Performance Versus Memory

Seconds to complete Office for Windows 95 benchmark

Performance gain

33%

24%

8%

Legend: ■ 486/66

Chart (y-axis values): 0, 100, 200, 300, 400, 500

x-axis (Memory configuration): 12MB, 16MB, 24MB, 32MB

Memory configuration

486/66 memory sweetspot in 20-24MB range

Windows NT Workstation Performance Versus Memory

Seconds to complete Office for Windows 95 benchmark

Legend:
- 486/66
- P5/100

Chart values (y-axis: 0 to 450):

Memory configuration	486/66	P5/100	% improvement
12MB	~445	~280	
16MB	~300	~155	45%
24MB	~225	~105	31%
32MB	~210	~90	17%

Memory configuration

P5/100 memory sweetspot starts at 24MB

Example Deployment Strategies

Choosing a business desktop

- **Adopting Windows 95**
  - **DOW Chemical: 26,000 Windows 95**
  - **Deloitte and Touche: 15,000 Windows 95**
- **Deploying a mix**
  - **Allstate: 100 Windows 95/1,000 Windows NT**
  - **New York DMV: 1,000 Windows 95/500 Windows NT**
- **Adopting Windows NT Workstation**
  - **Intel Corporation: 50,000 Windows NT**
  - **Ryder: 300 Windows NT**

Windows NT Workstation 4.0

Shared features with Windows 95

- Ease of use with new user interface

- Internet Explorer for easy access to the Internet

- Built-in networking - including support for NetWare® Directory Services

  - Logon script support; supports both 4.x and NDS exploration; authentication; printing; NDS password changing - but <u>no VLM support</u>

Windows NT Workstation 4.0

Subset of functionality in Windows 95

- Less autodetection on installation
- Lower hardware/software computability
- Plug - but no play
- No power management
- Manual-only hardware profiles
- These features coming in Windows NT® 5.0!

Windows NT Workstation 4.0

Superset of functionality in Windows 95

- ▣ **Stronger security**
- ▣ **Higher reliability**
- ▣ **Greater administrative control**
  - ▣ **Enhanced Performance Monitor**
  - ▣ **Windows diagnostics**
  - ▣ **Remote troubleshooting and control**
- ▣ **Faster communication with RAS Multilink**
- ▣ **Peer Web services**
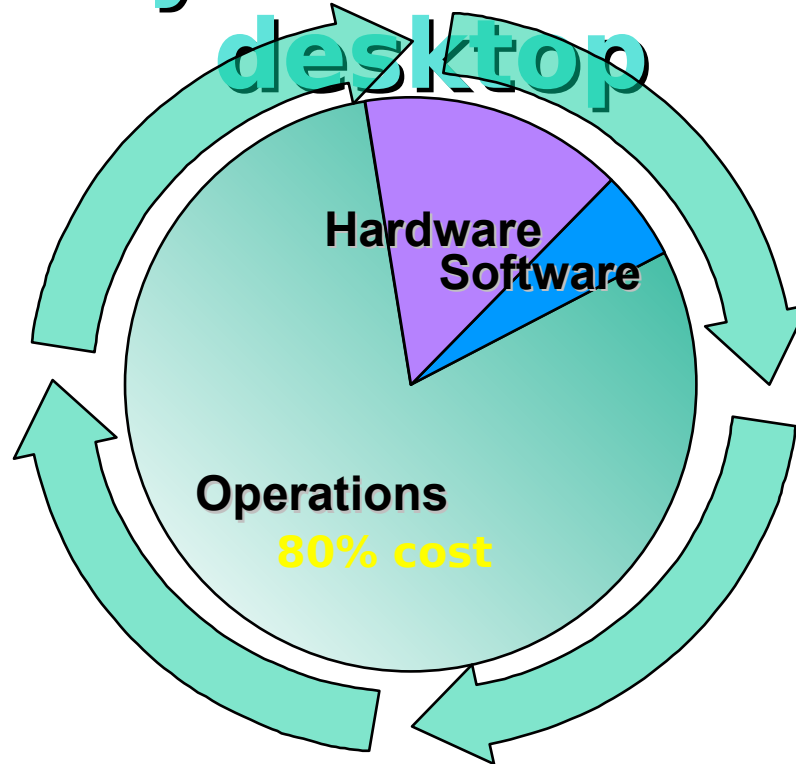
Windows NT Workstation Demonstration

Total Cost Of Ownership

IT lifecycle costs for the desktop

Plan

Review
Pilot

Deploy

Install
Integrate

Hardware
Software

Operations
80% cost

Architect

Technical
Evaluate

Manage

Maintain
Improv

Upcoming Product Releases

1995	1996	1997	1998/99

Major Release *Windows NT 5.0*

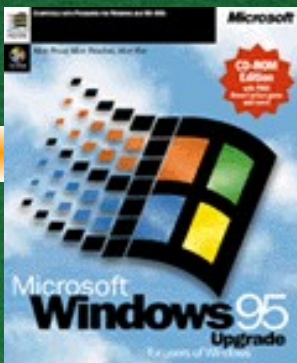**OEM Refresh**

Major Release *Memphis*
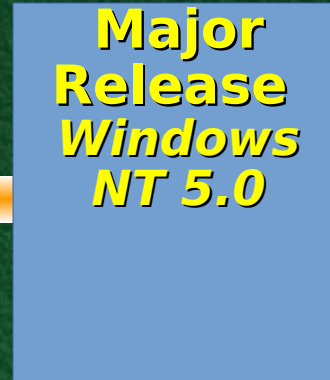
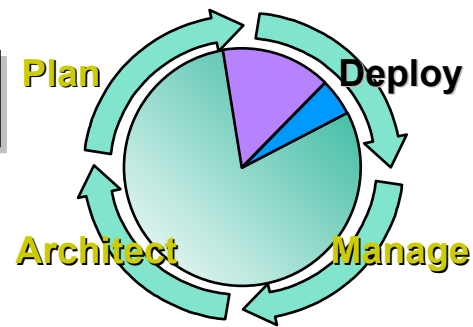**Package features to meet customer needs**

Common user interface, API
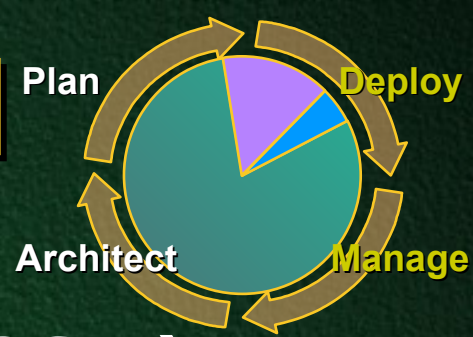
Common driver model

Common core

Architect And Plan

Key considerations

- Reduce rollout cost through up-front planning and preparation

- Pick one business unit or organization for focused pilot

- Plan to deploy a mix

- Standardize the desktop now

- Importance of internal

Architect And Plan

Supporting Tools

- **Corporate Subscription Pool (CSP)**
  - **120 day _free_ license for all Microsoft desktop and server products (50 clients/two servers)**
  - **Conducted with a Microsoft Solution Provider Partner**
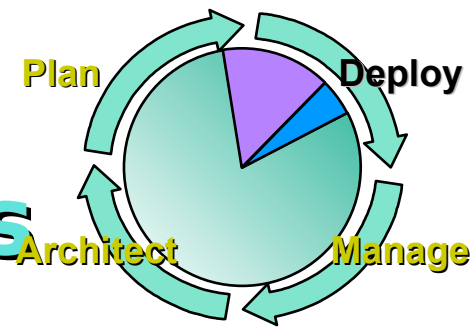- **Corporate Desktop Evaluation (CDE)**
  - **120 day _free_ license for desktop products
    (3 clients only)**
  - **Self-installed evaluation (Microsoft Solution Provider Partner - optional)**
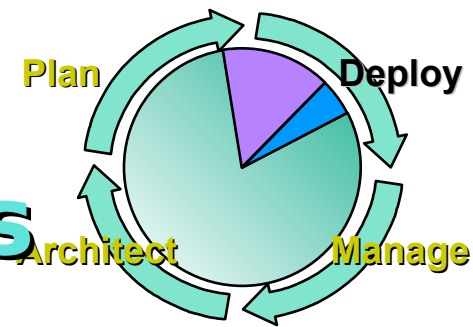- **CDE Web site at**

Deploy
Key considerations

- **ATEC training is essential**
- **Assemble all the Microsoft deployment tools before you begin**
- **No longer an xcopy as with Windows® for Workgroups**
- **Don't depend on users to back up**
- **Establish "low water mark" system config**

Deploy
Key considerations

- **Deployment will likely include**
  - **Upgrading and installing memory**
  - **Standardizing hardware configs**
  - **Formatting the hard drive**
  - **Installing a standard set of applications**
- **Be careful on how much you control desktop**
- **Recommend at least one Windows NT Server domain to take advantage of centralized management**

Deploy
Supporting tools
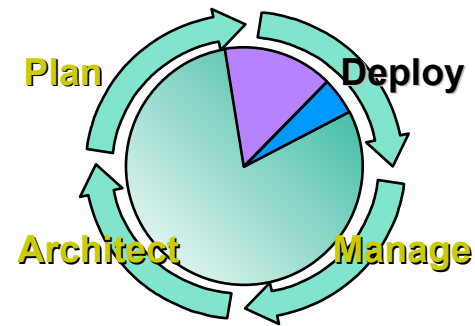
- Support for any installation
- Preinstall improvements
- Upgrade options
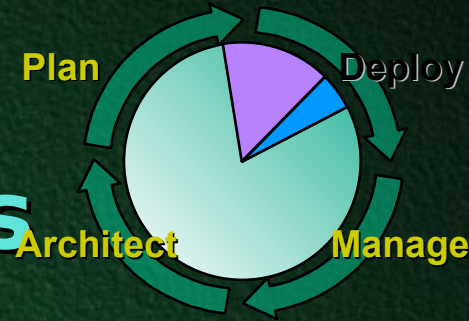- NT Compatibility Tool (NTCT)
- Deployments tools on CDE and www.microsoft.com

Planning guides, project plans, end-user training kits, sample templates, Resource Kits, Tech•Net CD, HCL, Service Packs

Manage
Key considerations

- Install with one Windows NT Server domain
  for greatest control over desktop

- Integrate with Systems Management Server
  for helpdesk

- Use Alerts for early problem detection

- Look to \\www.microsoft.com
  for latest

Manage
Supporting tools
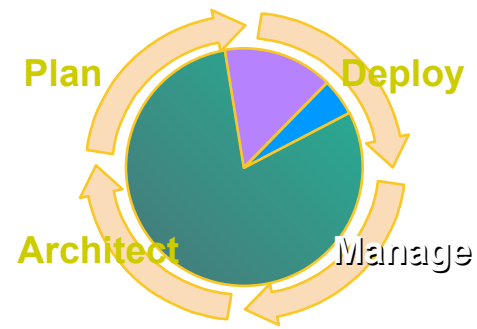
- System policies
- User profiles
- Performance monitoring tools
- remote management tools
- Windows NT diagnostics

Total Cost Of Ownership Demonstration

Evolution Of Office Suites

- 1990 – value
- Bundled applications
- 1993 – standards
- UI consistency, integration
- Today – connected
  - Optimized for the Intranet/Internet
  - Development platform
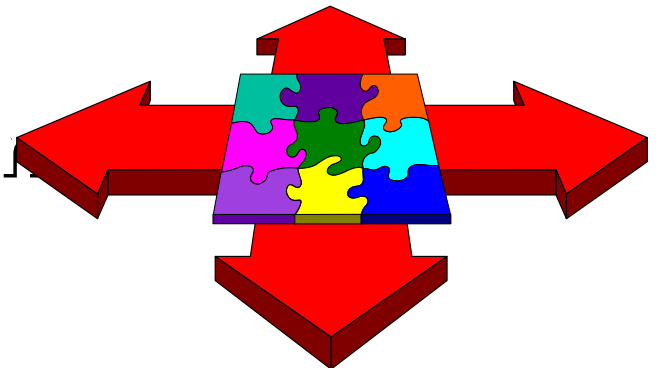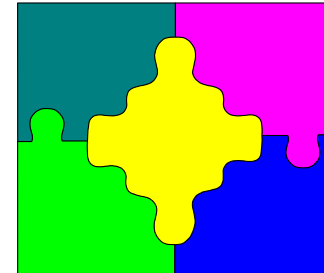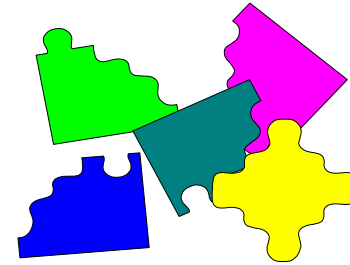
Microsoft Office 97
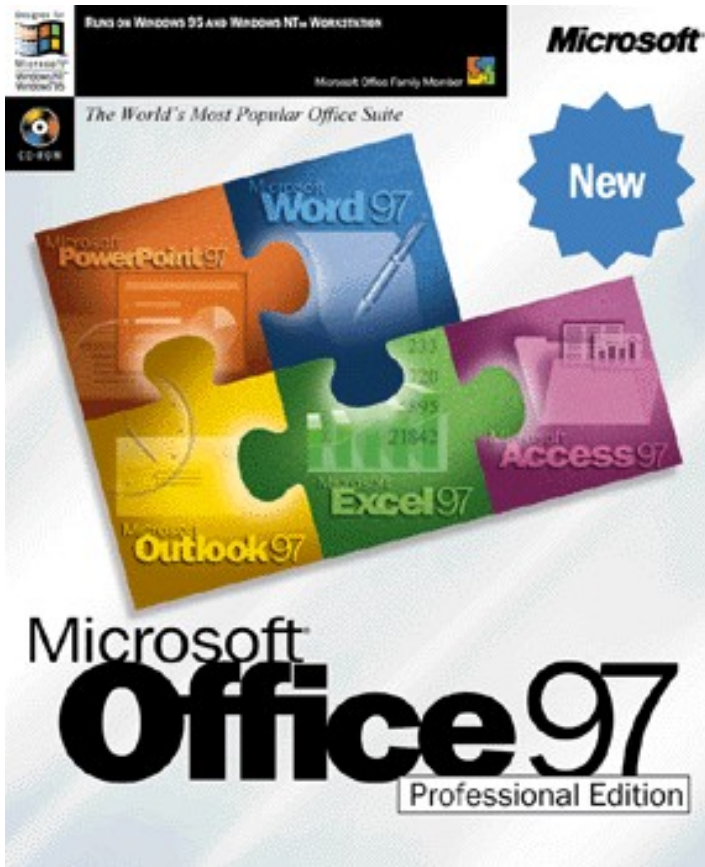
Integrates the ease of intelligent applications with the power of the Intranet

Overview Of Office 97

- Most significant release to date
- Major research and development effort
- Dramatic leaps forward in ease of use
- Rich tools for the corporate Intranet
- Significant gains in code sharing
- Focus on performance

Overview Of Office 97

- Most significant release to date
- New versions of all Office components
- Word, Microsoft Excel, PowerPoint®, Microsoft Outlook™, Microsoft ce

Overview Of Office 97

- Most significant release to date
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  Microsoft Outlook, Microsoft
  ce

Standard Edition

Overview Of Office 97

- Most significant release to date
- New versions of all Office components
- Word, Microsoft Excel, PowerPoint, Microsoft Outlook, Microsoft Access

Standard Edition **Professional Edition**

Overview Of Office 97

- Most significant release to date
- New versions of all Office components
- Word, Microsoft Excel, PowerPoint, Microsoft Outlook, Microsoft Access
- Developer tools and information
  - Sample code
  - Object model documentation
  - Distribution tools

Standard Edition Professional Edition Developer Edition

Overview Of Office 97

- Most significant release to date
- New versions of all Office components
- **New Office family products**
  - FrontPage™, Team Manager, Publisher

Overview Of Office 97

- Most significant release to date
- New versions of all Office components
- New Office family products
  - **Availability**
    - Office 97 for Windows 95, Windows NT (versions 3.51 and 4.0), and Macintosh®
    - English version available by end of 1996
    - French, German, Spanish, and Italian available shortly after English version

User-Focused Design

Investigative techniques
- Activities-based planning
- Contextual inquiry
- Corporate site visits
- Industry sector

Product metrics
- Usability laboratories
- Instrumented versions
- Performance metrics
- Usage studies

Customer imperatives
- Reduce ownership cost
- Increase product value
- Advance technology
- Maintain product quality

Direct feedback
- Product support
- WISH line
- office95@microsoft.com
- Reviews and analysis

Office 97

- Intelligent applications
  - IntelliSense™ technology
  - Integration tools
  - Microsoft Outlook
- Intranet solutions
  - Web technology and FrontPage
  - Microsoft Outlook and workgroup tools
  - Visual Basic® for Applications, custom solutions, connectivity
- Improved setup, config, and administration
  - Lower support costs
  - Migration and setup tools
  - Support and services

Office 97

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Intelligent Applications

- Discoverability
  - Getting more out of Office
  - Office Assistant: building the "guru" into Microsoft Office
- Improved consistency and integration
  - New tools to share information across applications
  - Over 50% shared Office code

Microsoft Outlook

- **Desktop Information Manager**
  - **E-mail, schedules, contacts, tasks, journal, forms**
  - **Dynamic views of information**
- **Integrated with Office and Microsoft Exchange**
  - **Data interoperability with Office applications**
  - **Compatible with Microsoft Exchange and Schedule+**
  - **Rich public folder support**
- **Support for other back ends**
  - **Native Internet mail via POP3/SMTP**
  - **cc:Mail™, Microsoft Mail, AOL, MSN™**

Inbox

Calendar

Contacts

Tasks

Journal

Demonstration
Intelligent applications

Office 97

- **Intelligent applications**
  - **IntelliSense technology**
  - **Integration tools**
  - **Microsoft Outlook**
- Intranet solutions
  - Web technology and FrontPage
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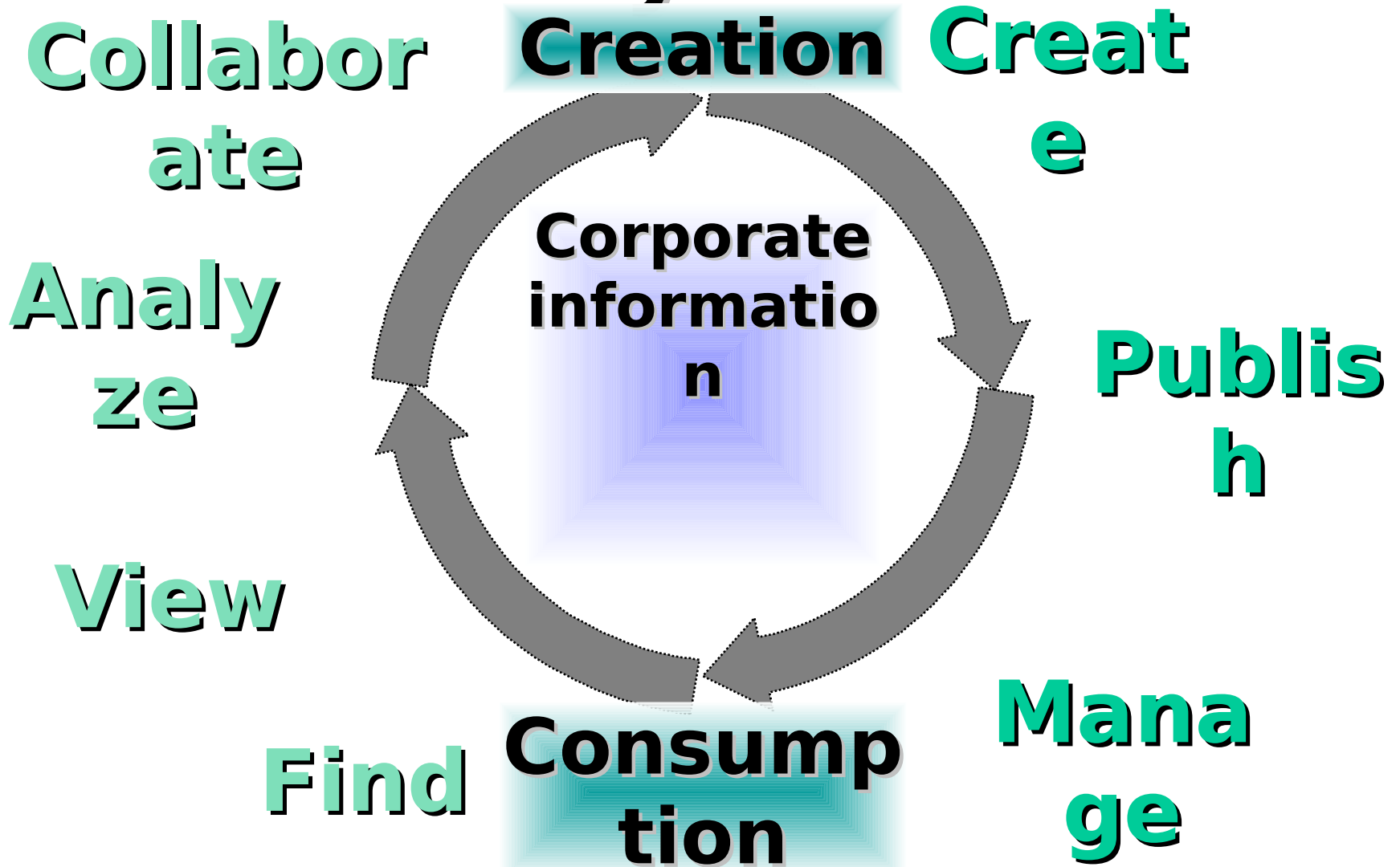 - Visual Basic for Applications, custom solutions, connectivity
- **Improved setup, config, and administration**
  - **Lower support costs**
  - **Migration and setup tools**
  - **Support and services**

The Information Life Cycle

Collabor ate

Analy ze

View

Find

Creation

Create

Corporate informatio n

Publis h

Mana ge

Consump tion

Intranet Solutions

Enterprise information sharing

ENTERPRISE

- File server
- Corporate database
- Internet/ Intranet
- Messaging system
- Legacy system

Accessing

Sharing

DESKTOP

Microsoft **Office 97** Professional Edition

NEW CONTENT
Documents
Analyses
Databases
Presentations

Collaboration Scenarios

Highly structured

Maximum control

Enterprise workflow

"Instant Groupware"

Document collaboration, Web publishing

E-mail

Ad hoc

Maximum flexibility

Intranet Authoring Strategy

Microsoft Office 97 and Microsoft FrontPage

- **Create.** Integrated web technology allows easy, flexible creation

- **Publish.** Appropriate format using the tools people know

- **Collaborate.** Powerful collaboration and analysis tools

- **Manage.** Easy visual management of websites

One Tool, Multiple Formats

- Office as Web publishing tool
  - Create and view HTML files in Office
  - Find, link, navigate HTML or Office files
- Use the best format for the situation
  - HTML: Internet, static navigation pages
  - Office: creation, analysis and collaboration, printing
- Use the best tool for accessing
  - Server technology to deliver

Demonstration

Intranet solutions

Office Custom Solutions

- Common programming environment
- Complete object models
- Tools for building connected solutions
  - Rich Web support
  - Microsoft Exchange public folders
  - Data access
  - Microsoft Forms
  - Comprehensive ActiveX™ support
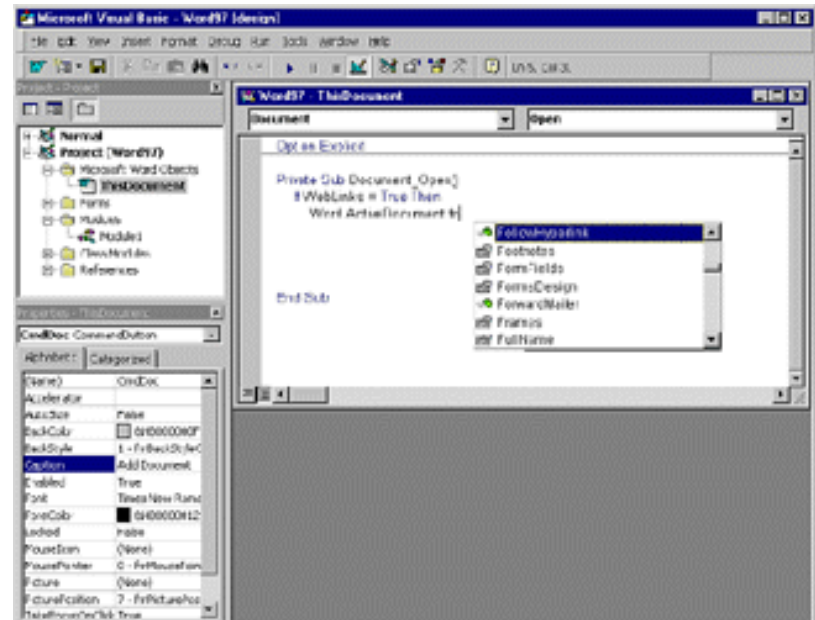
Office 97

- **Intelligent applications**
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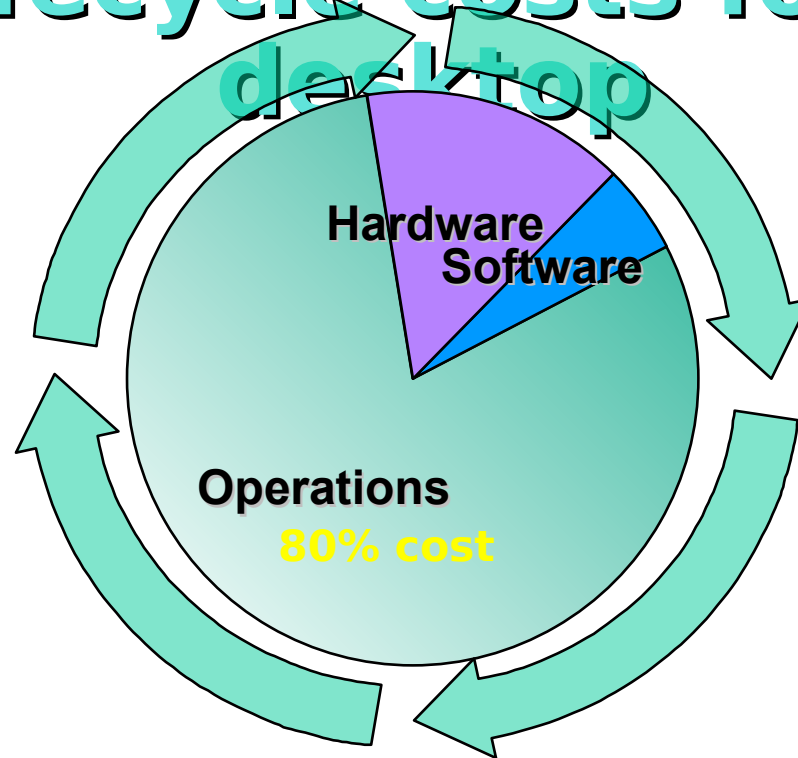 - Migration and setup tools
  - Support and services

Total Cost Of Ownership

IT lifecycle costs for the desktop

Plan

Review
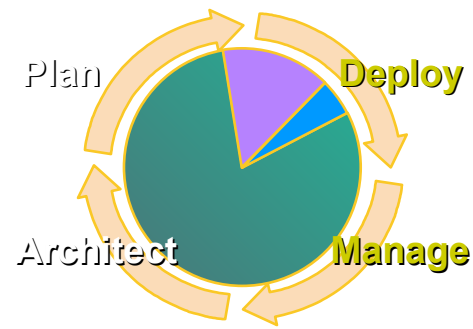Design
Pilot

Deploy

Buy
Install
Integrate
Train

Architect

Technical
Business risk
Evaluate

Manage

File formats
Maintain
Improve

Hardware
Software

Operations
80% cost

Architect And Plan

Office 97 key considerations

- New Office 97 file formats
  - New technologies: Visual Basic for Applications, Microsoft Outlook
  - Shared components
  - File compression
- Sharing Office documents
  - Office 97 can read and write older versions
  - Microsoft Outlook uses same file format as Microsoft Exchange
  - File importers for Office 4.x, Office for Windows 95
  - Viewers and Web for non-Office users
  - Default File Save-As
- Future goal: eliminate file format issues

Deploying
Office 97 supporting tools
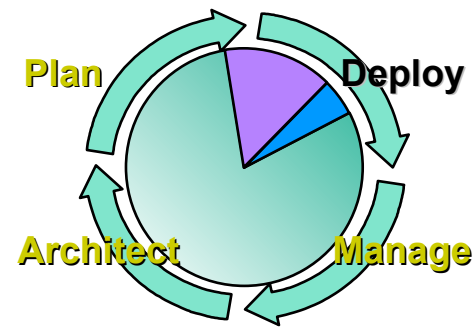
- **Support for any installation**
  - **Attended and unattended**
  - **Local and server-based**
  - **Custom installation options**
  - **Network Installation Wizard**
  - **Office Upgrade Wizard**
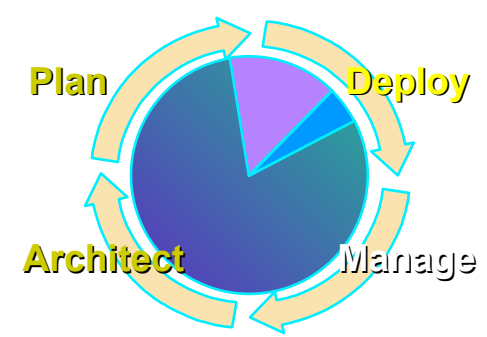- **Support for any distribution method**

Manage
Office 97 supporting tools
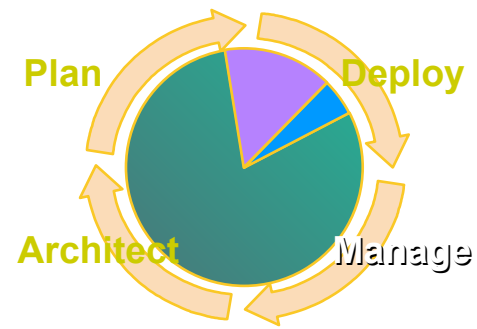
- Managing the desktop
  - Office system policy templates
  - Office run-from-server
- Supporting future upgrades
  - New file format architecture
  - Intranet-based Office administrative Web site

Manage
Office 97 additional resources

- Support
  - Office Resource Kit
  - Microsoft on the Web
  - Office escalation support
- Training
  - Office Assistant
  - Office ATEC courses
  - Office certification
  - Microsoft Press®

Demonstration

Improved setup, configuration, and administration

Windows Desktop Today And Tomorrow

- Easiest-to-use
  - New user interface and integration between products increases productivity
- Most integrated with Intranet
  - Seamless integration minimizes training and leverages existing infrastructure
- Lowers total cost of

Microsoft®

Start