# Inside the Microsoft Desktop

# 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 on www.microsoft.com/organizations/corpeval

# Microsoft Windows
## Where we are going

Ease of use
Applications
Hardware
Training

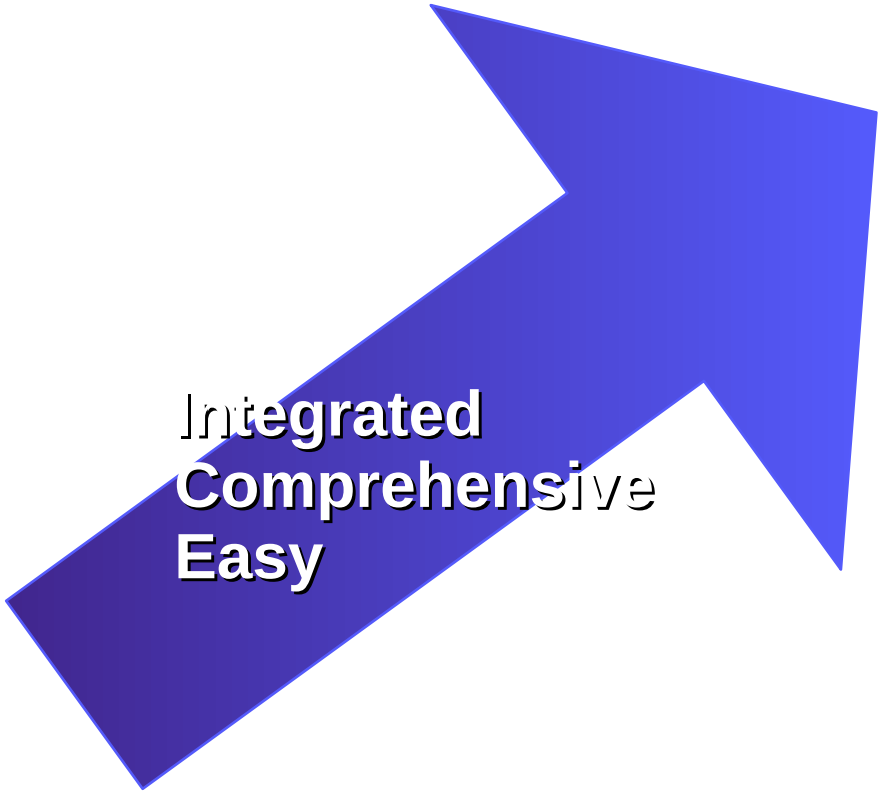
**Windows**

Lower cost of ownership
Existing infrastructure
Deployment
Administration

Internet/Intranet integration
Protocols
Development
Deployment

# Microsoft Windows

## How we are getting there

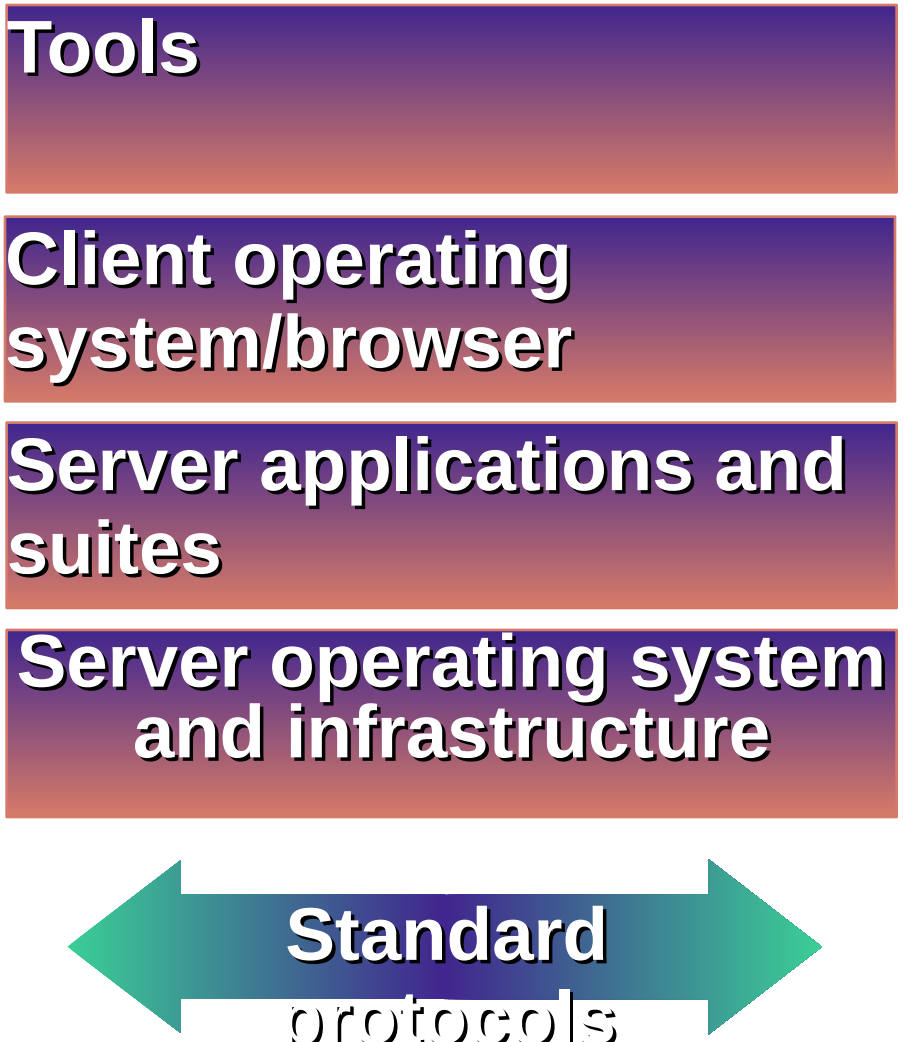



Lower cost of ownership

Ease of use

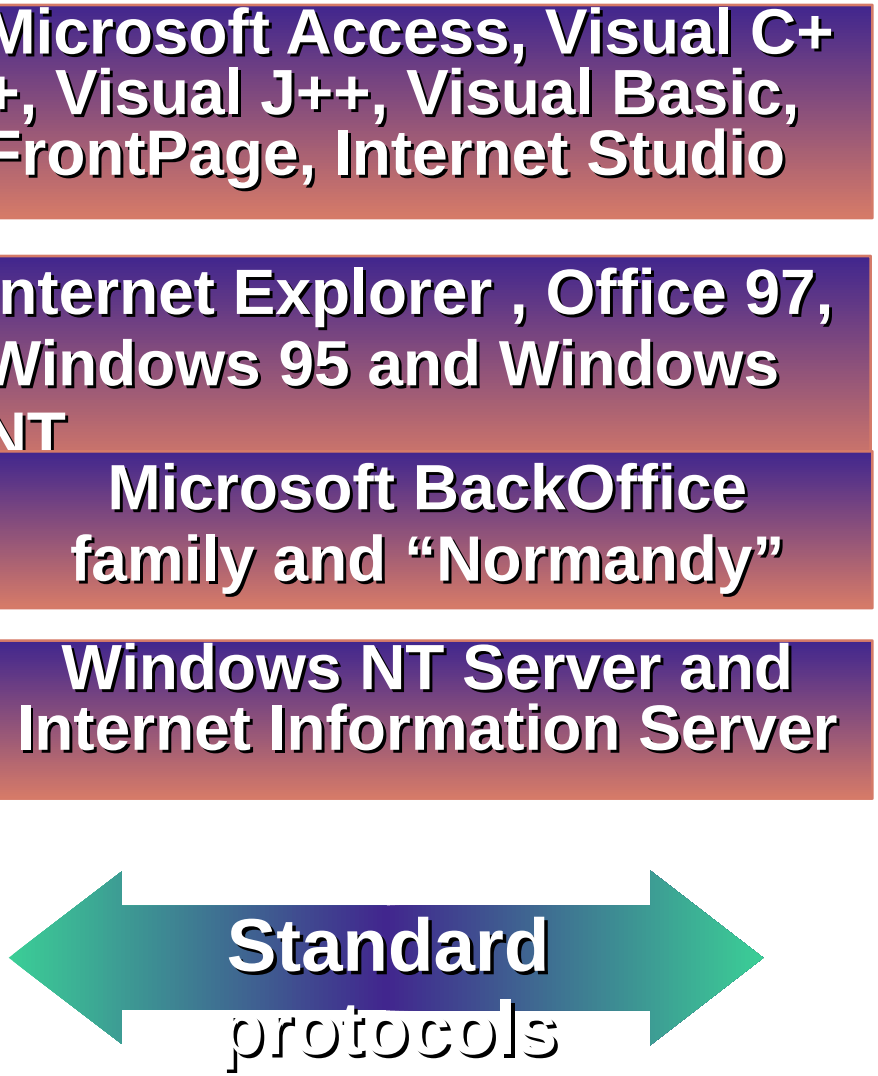
Internet/Intranet integration

# Microsoft Intranet Framework

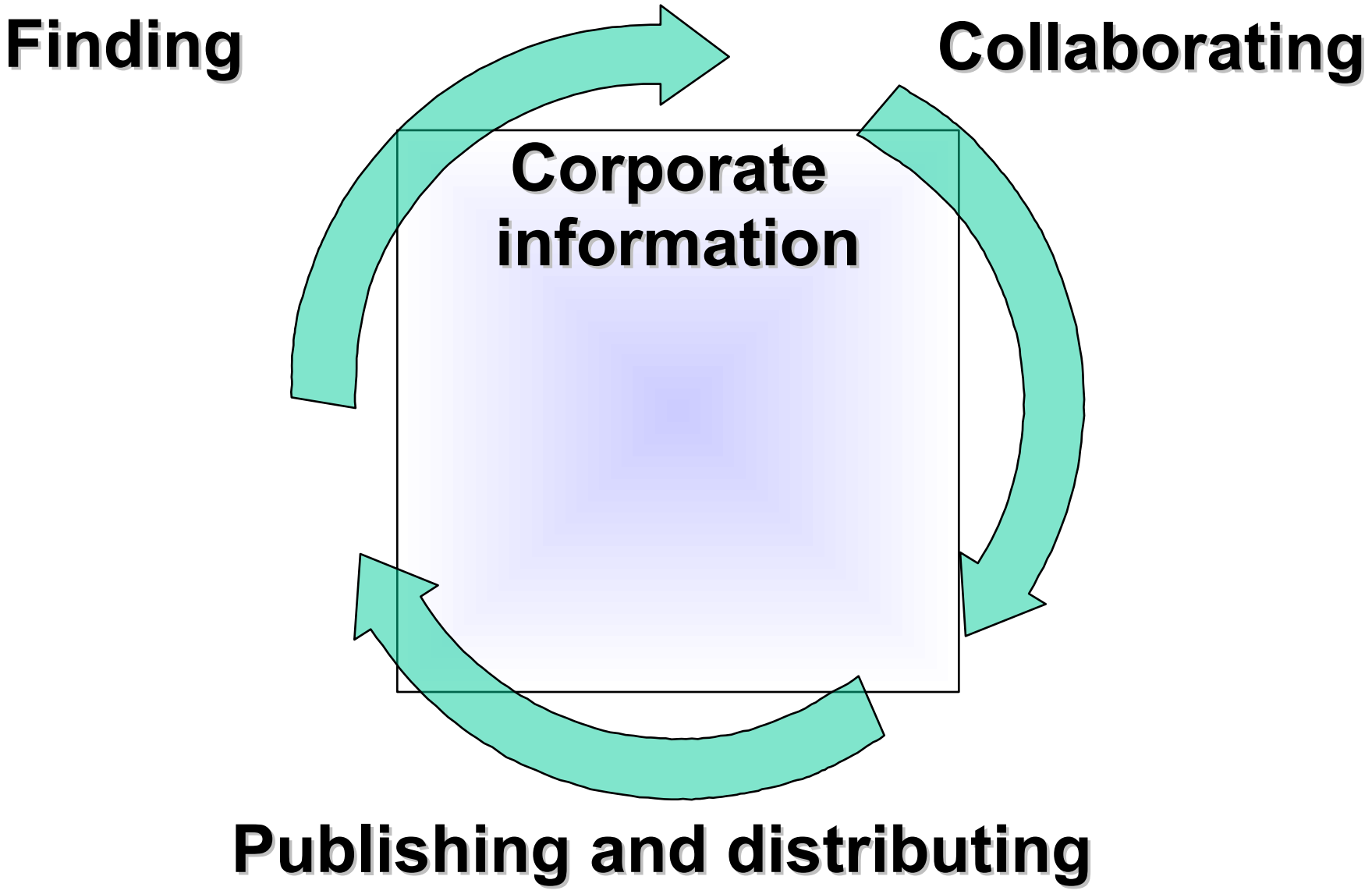


# Microsoft Intranet Products

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



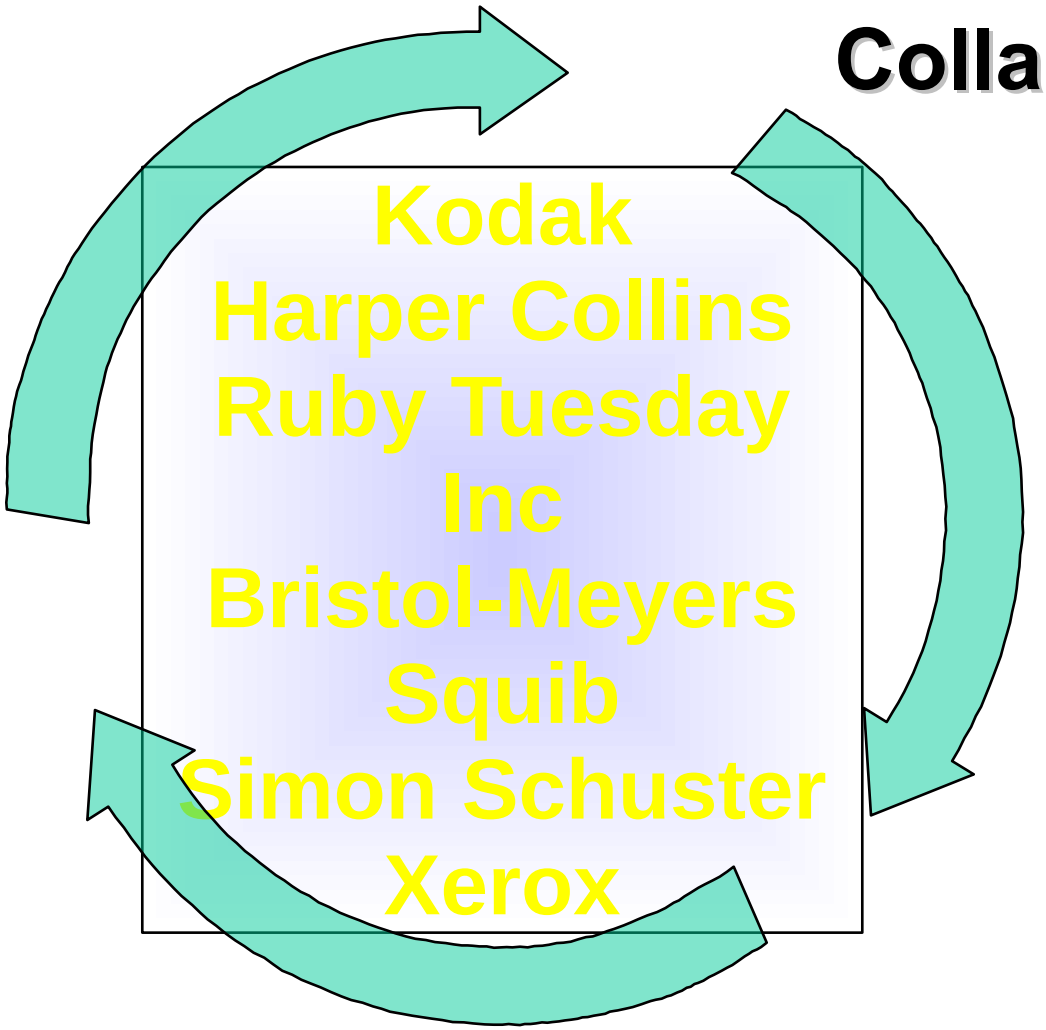
# Information Sharing



# Information Sharing

Finding

Collaborating




Publishing and distributing

# Arcadia Bay
## A composite of Microsoft customers

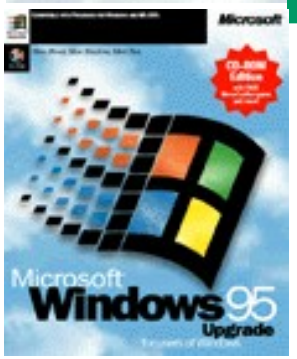
Situational challenges:

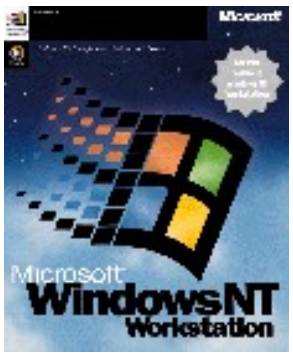
- Provide easier access to information
- Multinational company with diverse information sharing needs
- Must leverage existing infrastructure and legacy data
- Must be easy to deploy and administer

Solution:

- Deploy Microsoft Intranet technology to centrally manage information sharing on corporate Intranet

# Arcadia Bay Intranet Architecture




Microsoft®
BackOffice™

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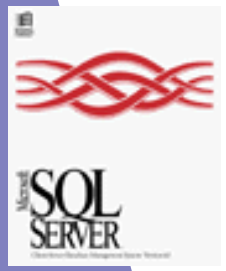
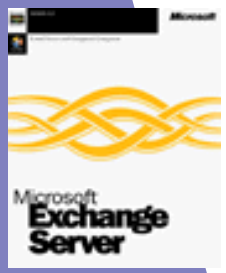
ODBC back end




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

- Ease of use
- Get the newest applications
- Great Intranet platform
- Greater reliability and manageability
- Lower cost of ownership

# 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 security

# Typical Windows Usage

## Which to choose?

## http://www.microsoft.com /NTWorkstation /Bestway.htm

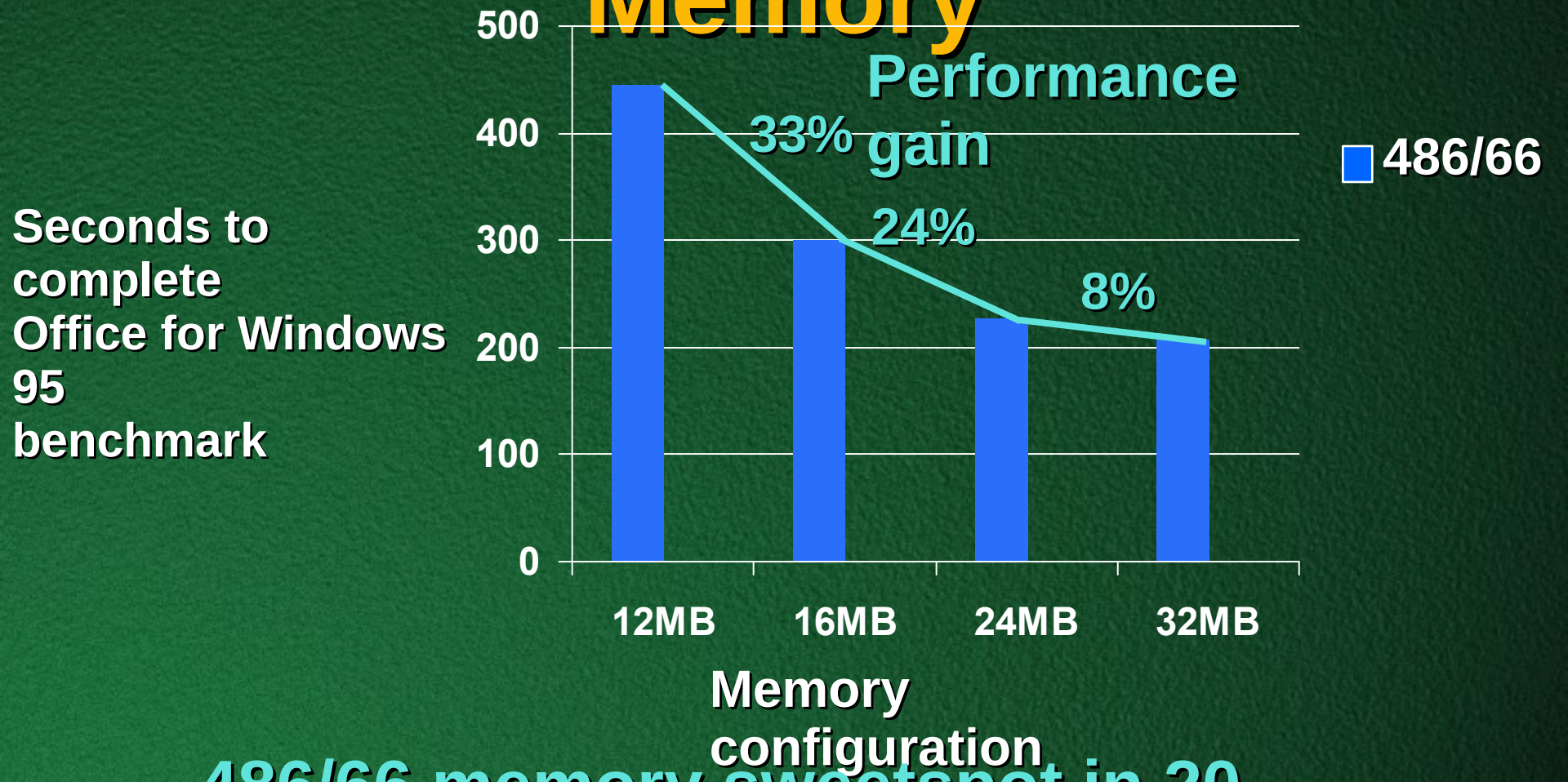
### Windows 95

- 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
- Business desktop

### Windows NT Workstation

- Technical workstations
- Developers
- Security conscious
- Key line of business applications
- Multi-processor or RISC processor support
- Business desktops

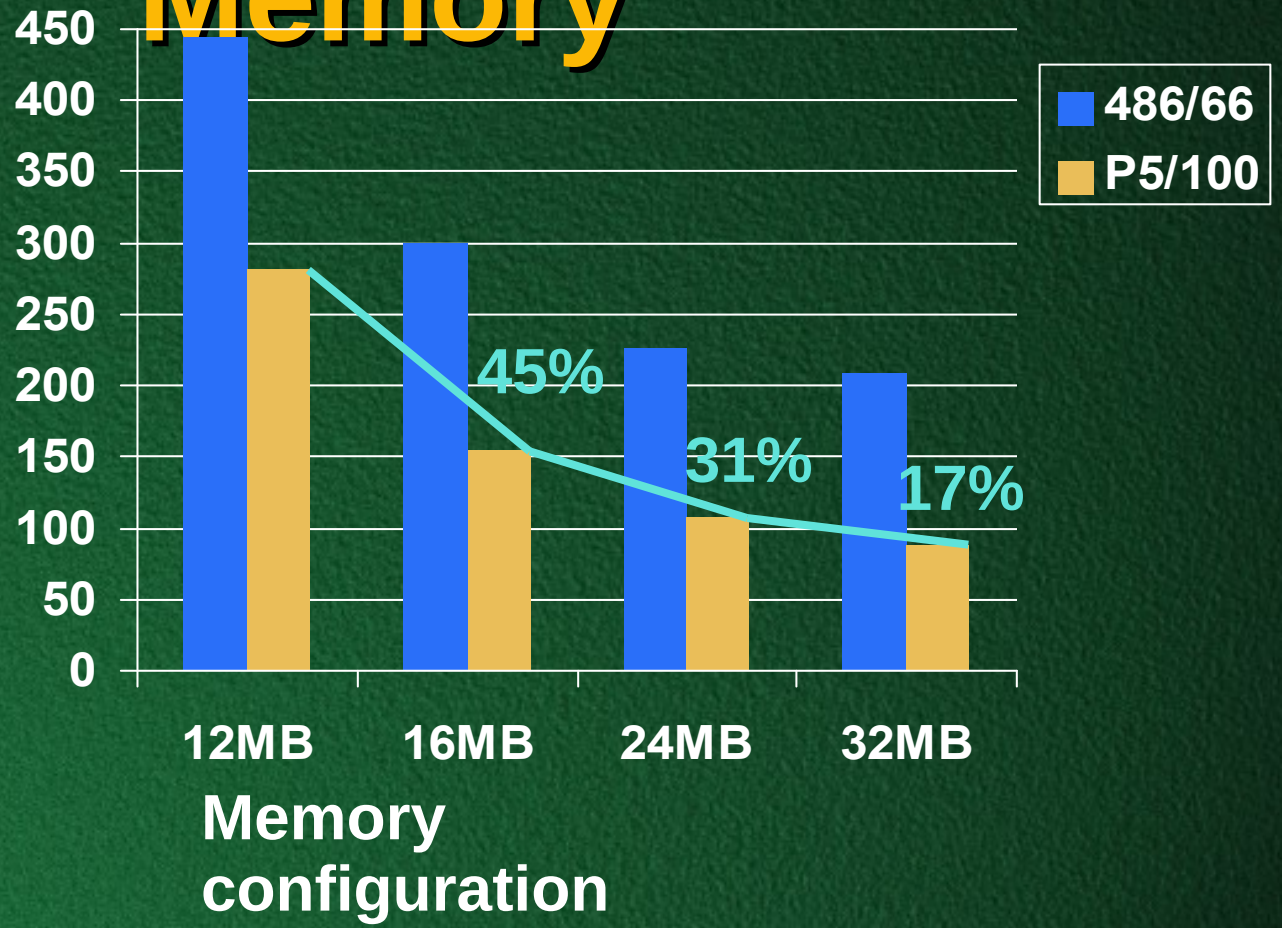
# Windows NT Workstation Performance Versus Memory




**486/66 memory sweetspot in 20-24MB range**

# Windows NT Workstation Performance Versus Memory

Seconds to complete Office for Windows 95 benchmark




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 no VLM support

# 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

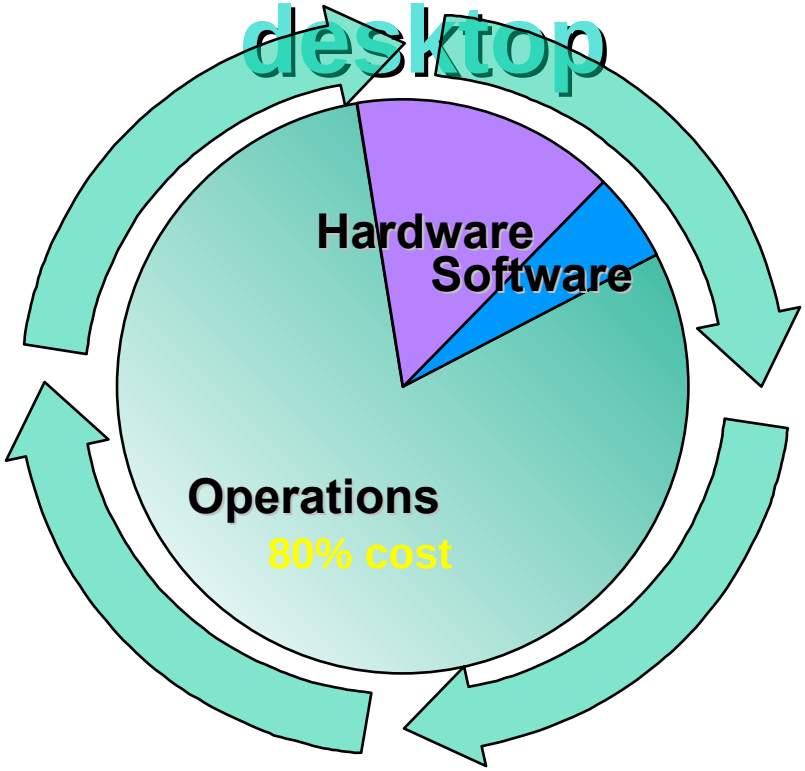
# Windows NT Workstation Demonstration

# Total Cost Of Ownership

## IT lifecycle costs for the desktop

**Plan**
Review
Pilot

**Deploy**
Install
Integrate



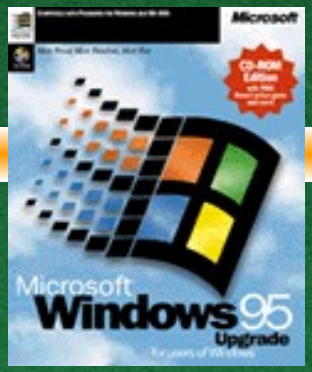

**Architect**
Technical
Evaluate

**Manage**
Maintain
Improve

# Upcoming Product Releases

1995 | 1996 | 1997 | 1998/99

**Major Release *Windows NT 5.0***




**OEM Refresh**

**Major Release *Memphis***

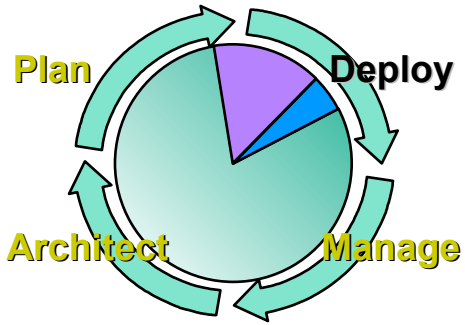
**Package features to meet customer needs**

**Common user interface, API**

**Common driver model**

**Common core**

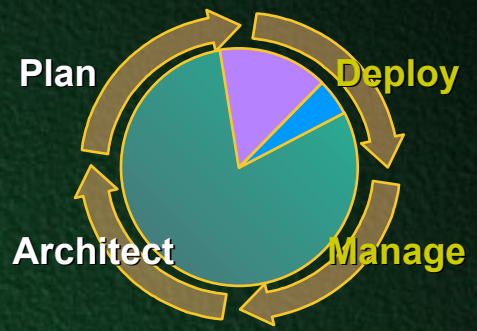
# Architect And Plan




## 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 marketing
- No automatic Windows 95 => Windows NT upgrade!

# Architect And Plan

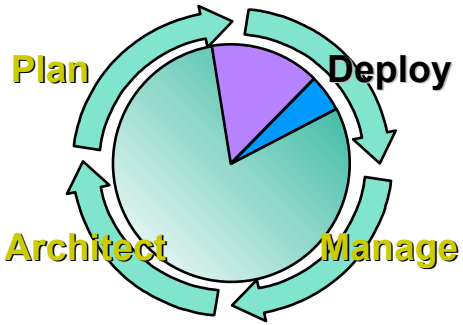



## Supporting tools

- Corporate Solutions Pilot (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
  - www.microsoft.com/organizations/corpeval/

# Deploy

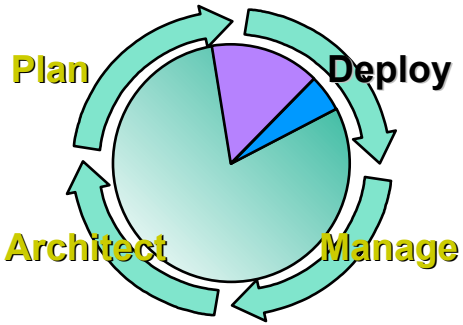
## Key considerations




- 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

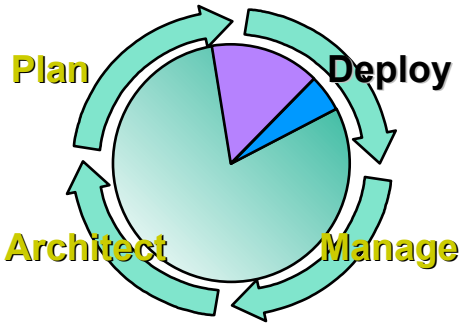
## Key considerations




- 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
- Evaluate Windows 95 OEM refresh release

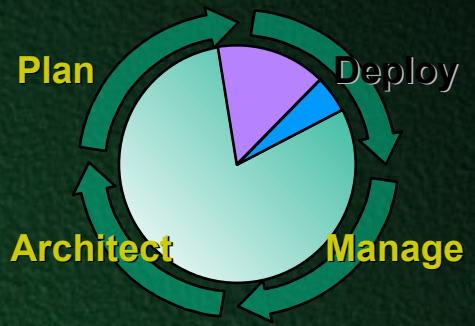
# Deploy

## 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

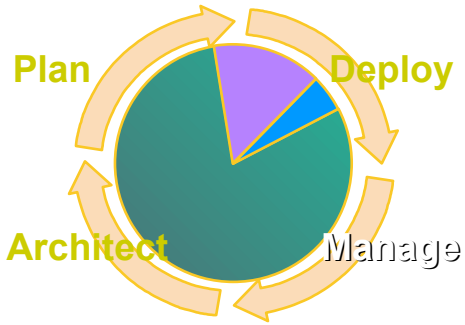
# Manage
## Key considerations




- 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 Service Packs

# Manage

## Supporting tools




System policies

User profiles

Performance monitoring tools

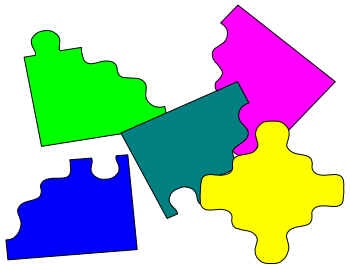
remote management tools

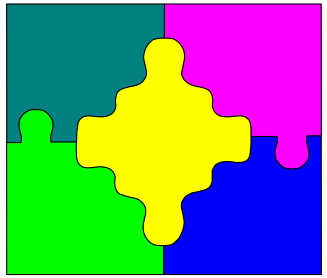
Windows NT diagnostics

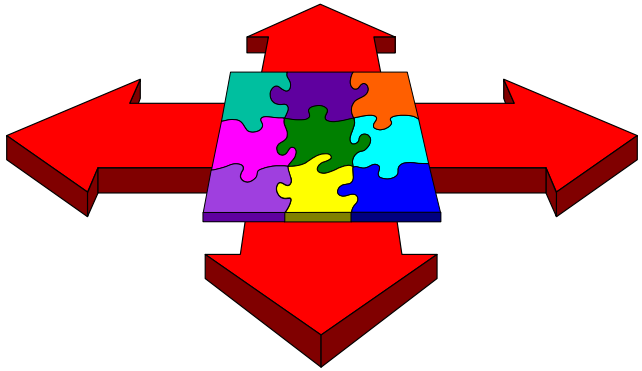
# Total Cost Of Ownership Demonstration

# Evolution Of Office Suites

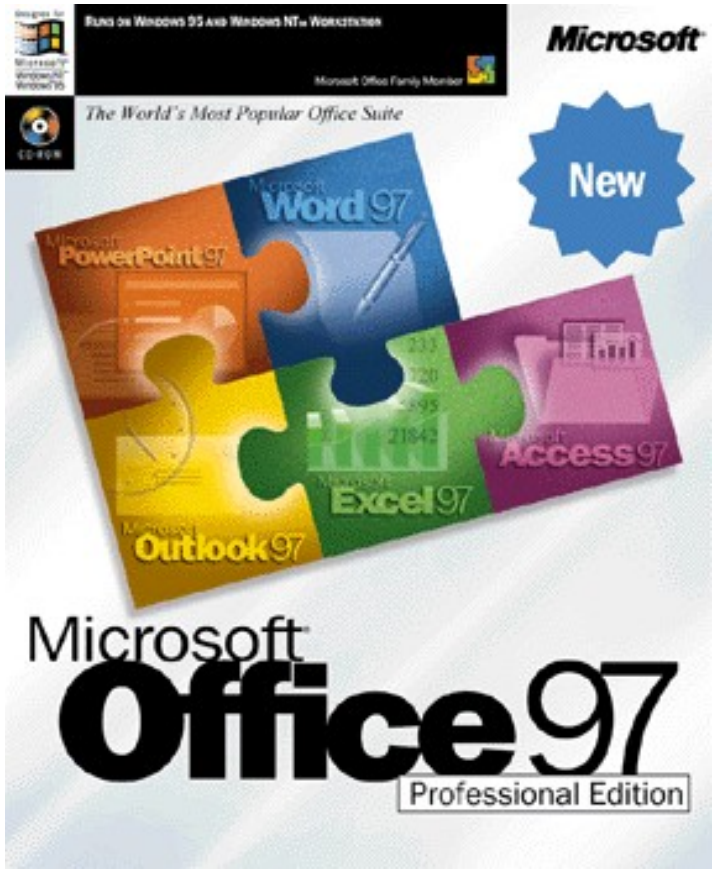
- 1990 - value
  - Bundled applications
- 1993 - standards
  - UI consistency, integration
- Today - connected
  - Optimized for the Intranet/Internet
  - Development platform







# 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 Access

# 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**

# 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
- Japanese, other second-tier

# User-Focused Design

## Investigative techniques

- Activities-based planning
- Contextual inquiry
- Corporate site visits
- Industry sectors

## 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

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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™

# Demonstration

## Intelligent applications

# Office 97

- **Intelligent applications**
  - **IntelliSense technology**
  - **Integration tools**
  - **Microsoft Outlook**
- Intranet solutions
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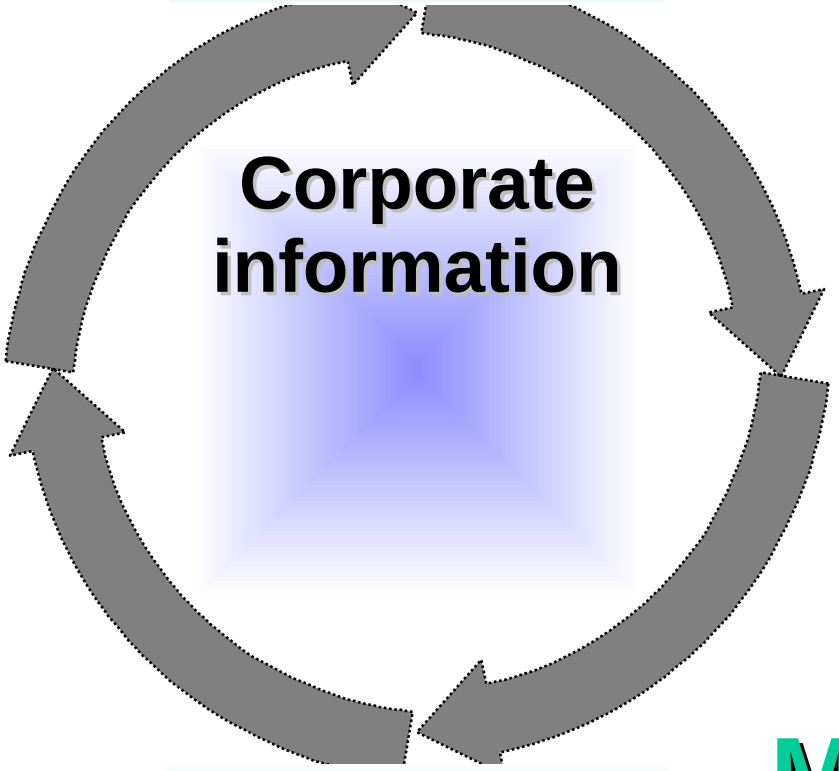
# The Information Life Cycle



# Intranet Solutions

## Enterprise information sharing

**ENTERPRIS**

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

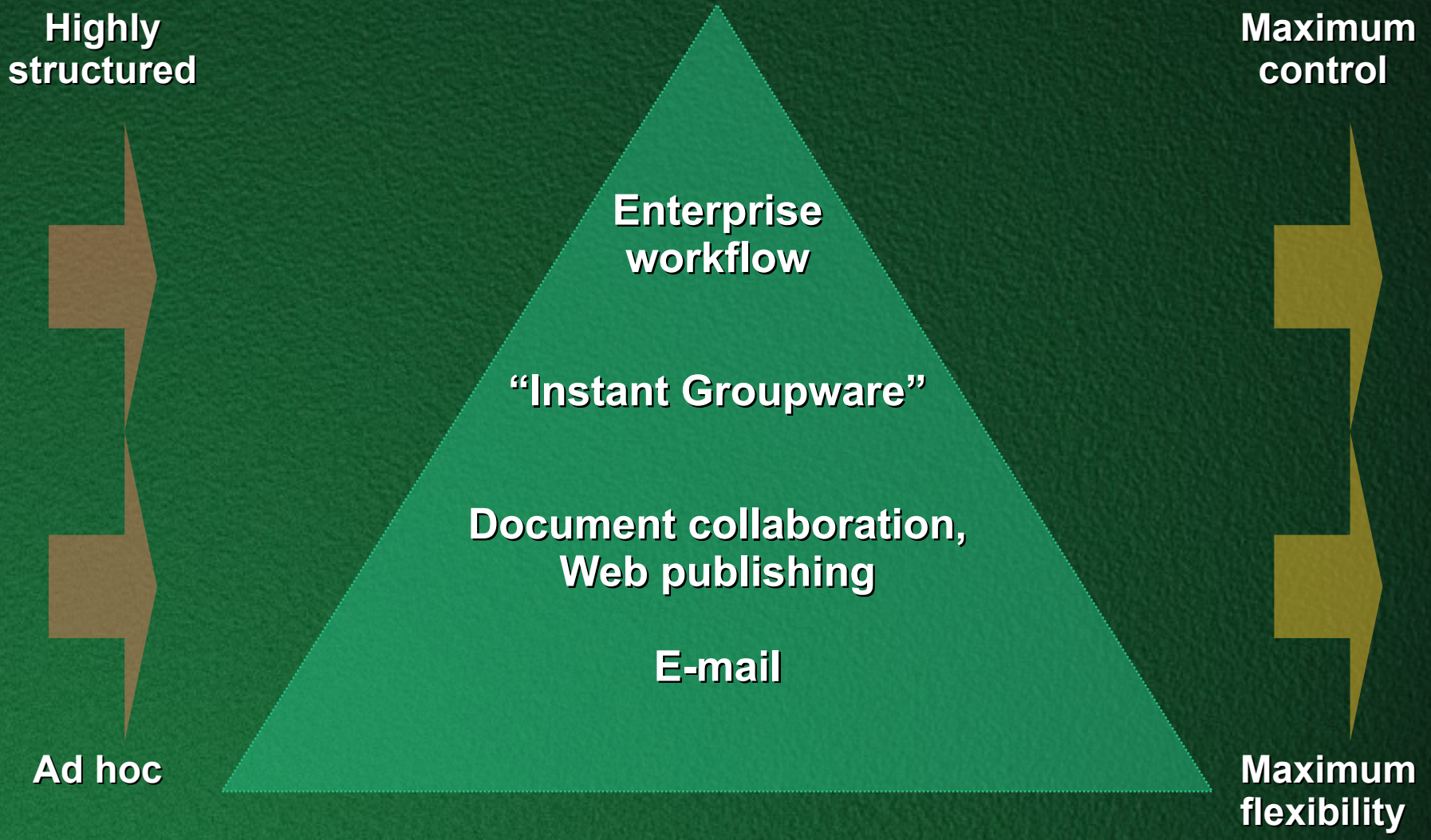
**Accessing**

**Sharing**

**DESKTOP**

**NEW CONTENT**
**Documents**
**Analyses**
**Databases**
**Presentations**

# Collaboration Scenarios



# 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

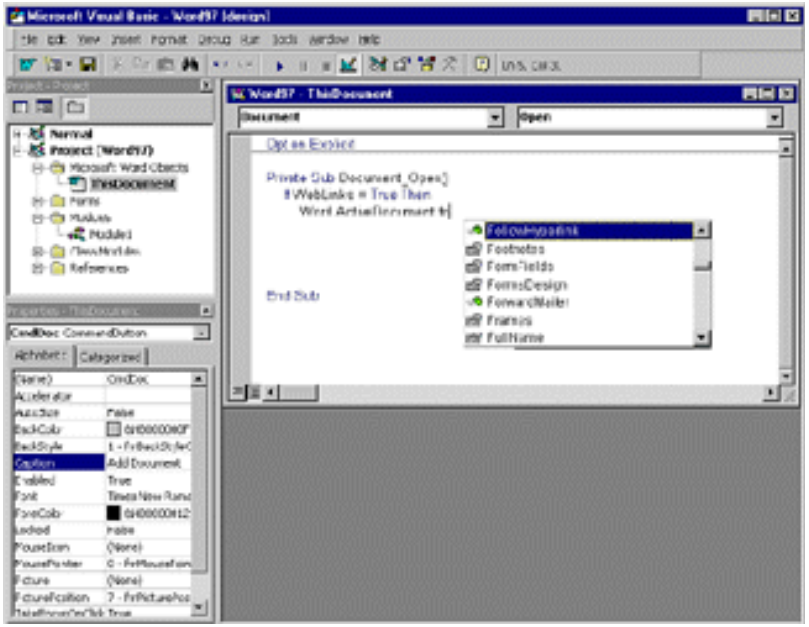
- Office as Web publishing tool
  - Create and view HTML files in Office
  - Find, link, navigate HTML or Office files
- Use the best format for the situation
  - HTML:  Internet, static navigation pages
  - Office:  creation, analysis and collaboration, printing
- Use the best tool for accessing
  -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

# 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



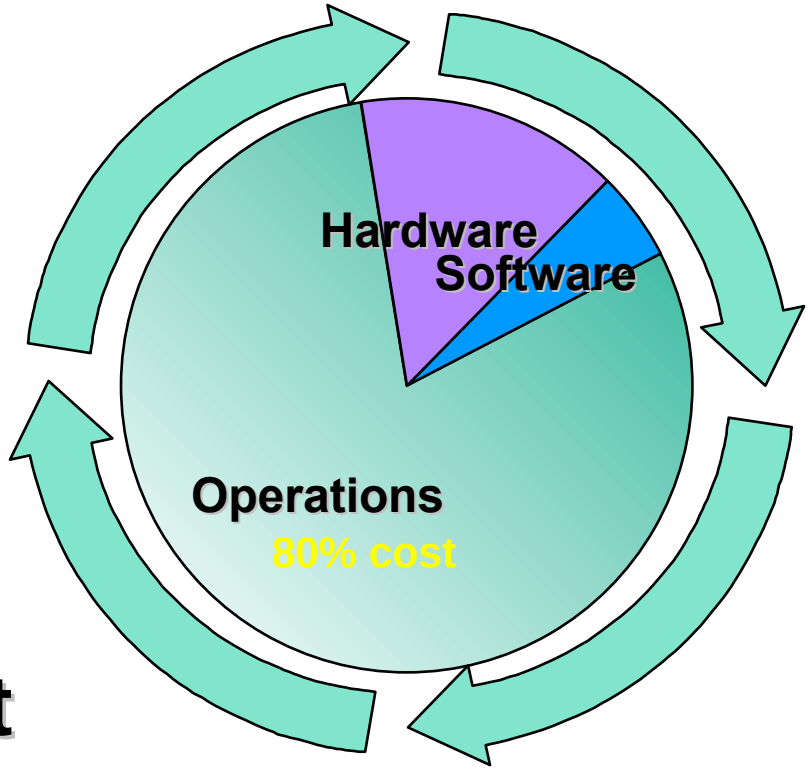
# Office 97

- **Intelligent applications**
  - **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

# Total Cost Of Ownership

## IT lifecycle costs for the desktop

**Plan**
Review
Design
Pilot

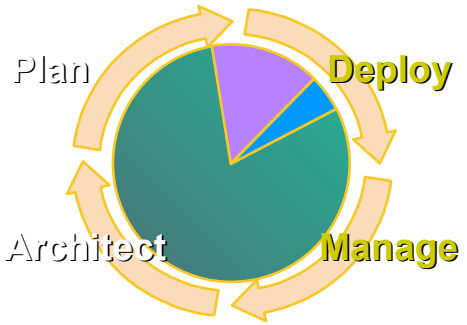



**Deploy**
Buy
Install
Integrate
Train

**Architect**
Technical
Business risk
Evaluate

**Manage**
File formats
Maintain
Improve

# Architect And Plan

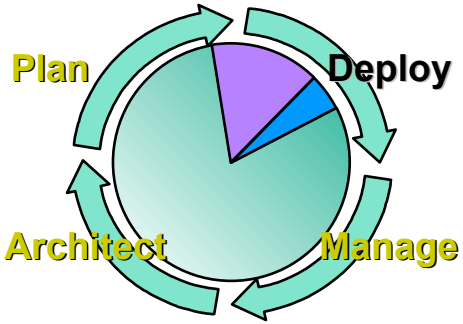



## Office 97 key considerations

- 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

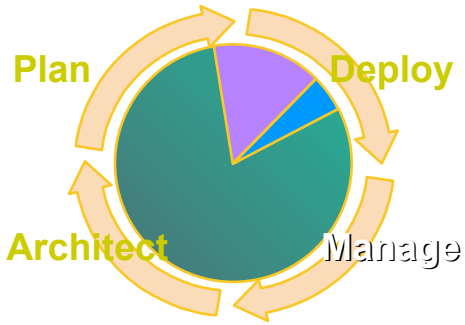
## Office 97 supporting tools




- **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**

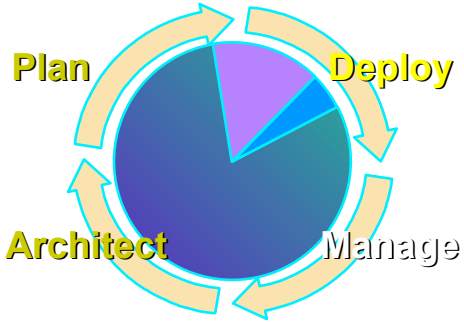
# Manage

## 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 ownership
  - Built in deployment and management tools ease rollout and support costs

Microsoft®

Start