



IBM WebSphere Personalization

Personalize Your Site For Each Visitor

August 3, 2000



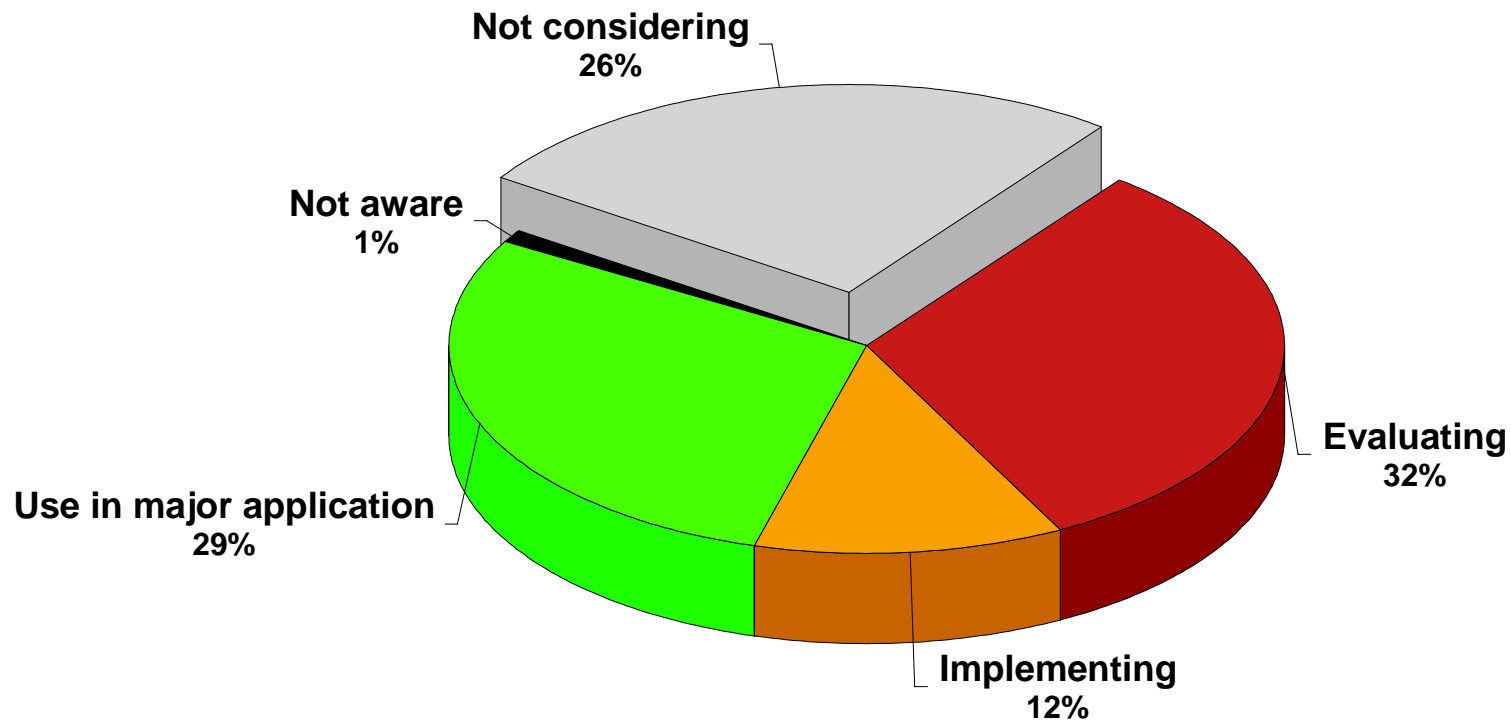
Topics

- **Where personalization is used today**
- **What is required to build a personalized site**
- **The WebSphere solution**



Use Of Personalization

**Personalization:
Targeting web content & applications to specific users**



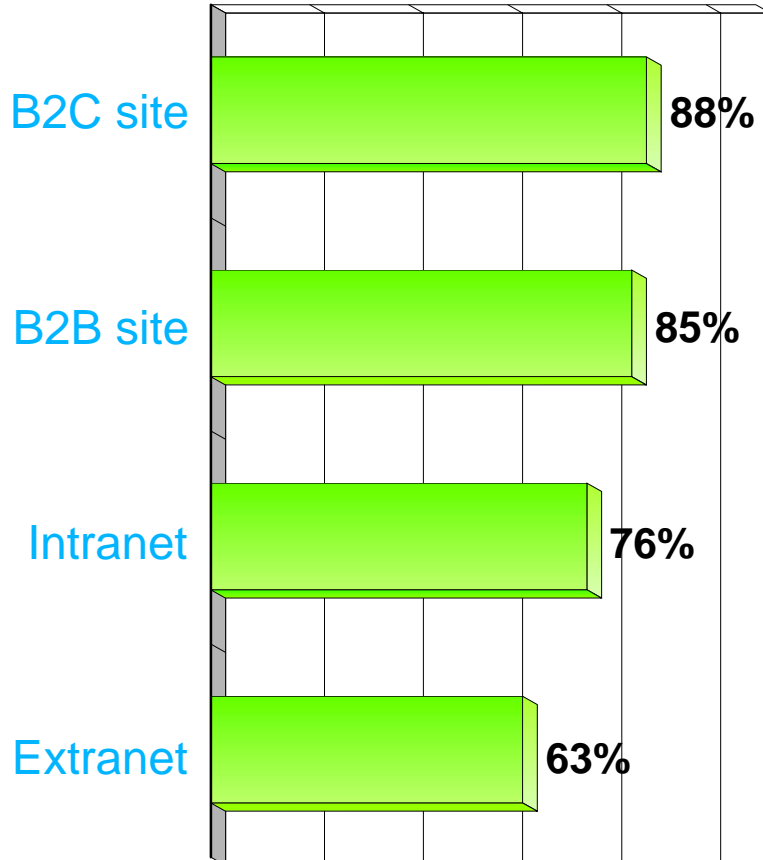
Percent of companies evaluating or using personalization



Personalization's Benefits And Uses

Targeting web content & applications to specific users.

Where Companies Are Using It



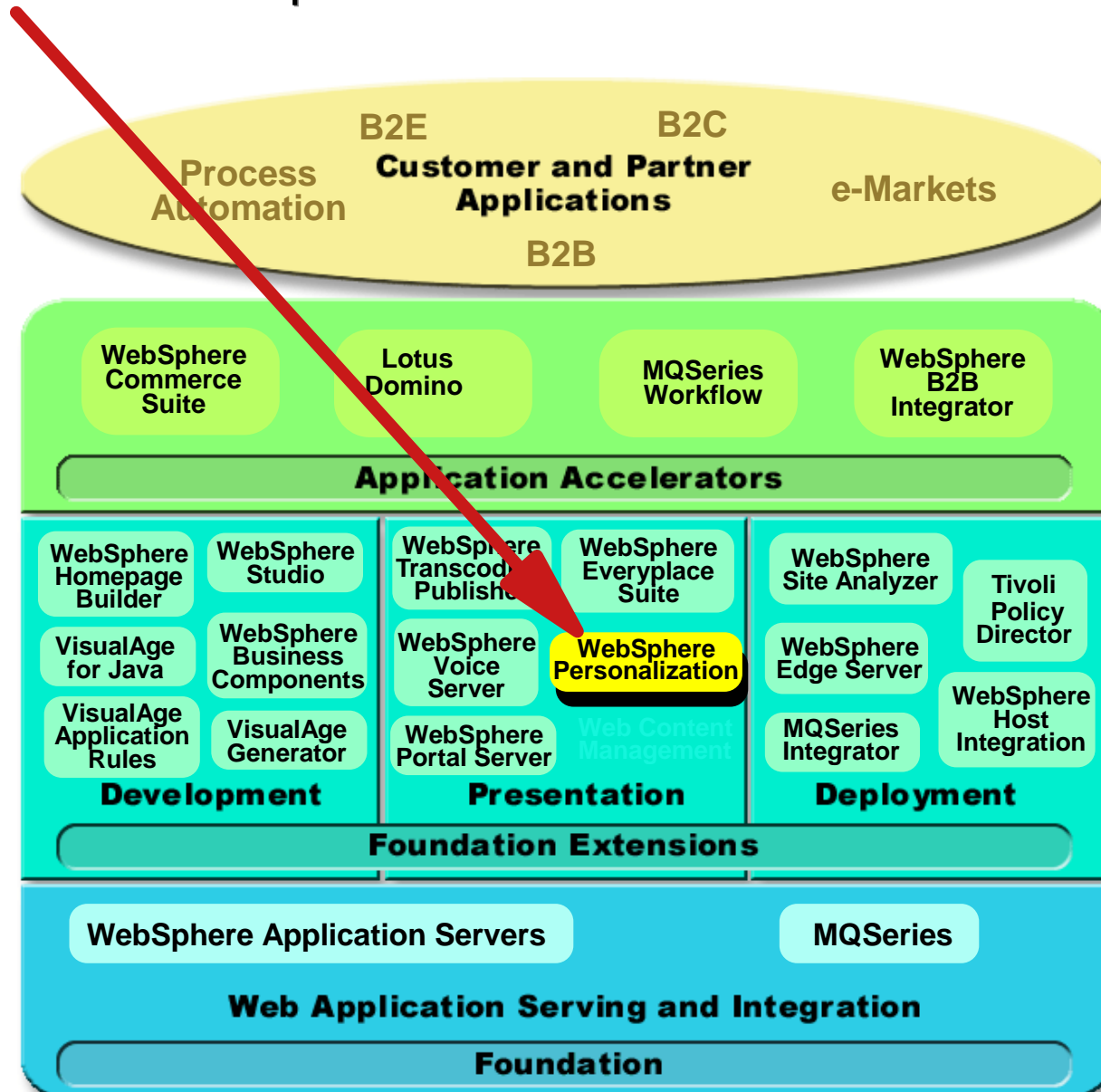
Sample Benefits

- Visitors remain longer on a site and return more often leading to increased sales
- Sites become easier to use leading to improved service for your site's audience
- Site content becomes more relevant for each visitor making the site more useful for them
- Sites become more interesting thus attracting a larger audience

Source: IBM market survey

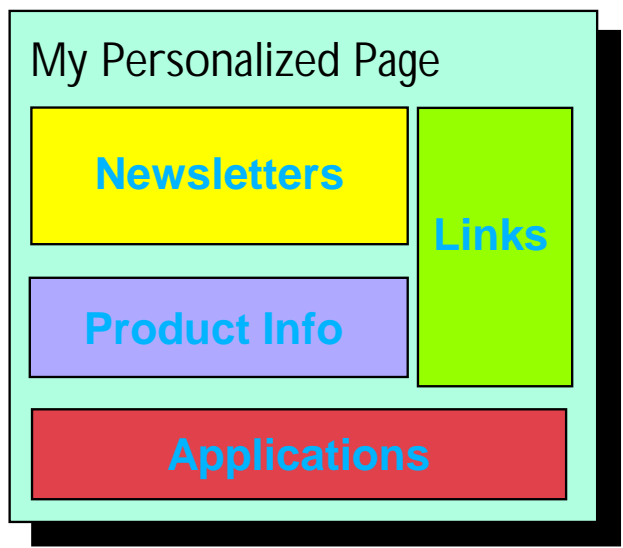
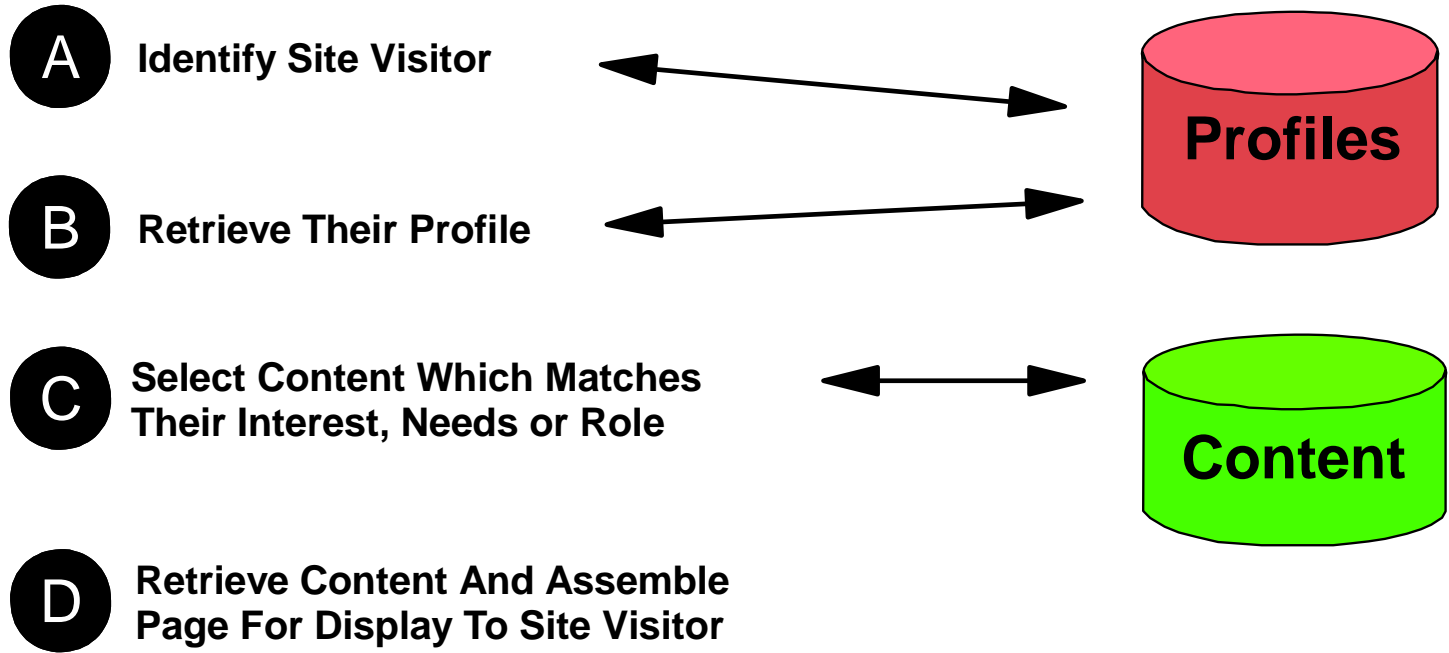


One of the new additions to the platform IBM WebSphere Personalization V3.5





Elements Of Personalization



WebSphere Foundation

WebSphere Application Server



HTTP requests

Servlet

- *Processes inputs*
- *Call Java Server Page*

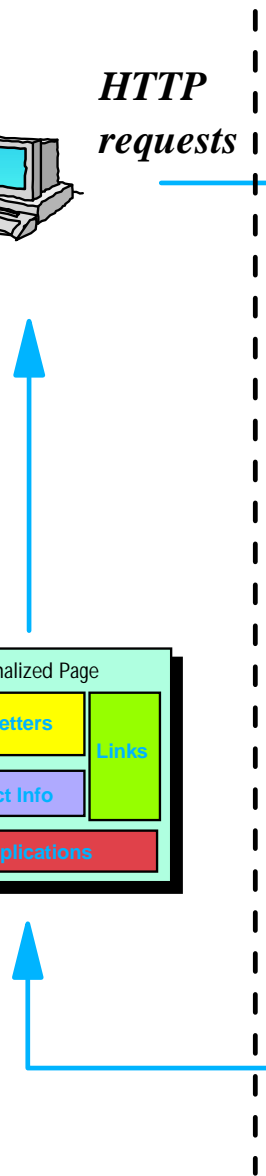
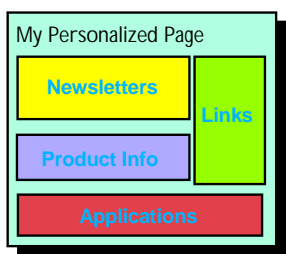
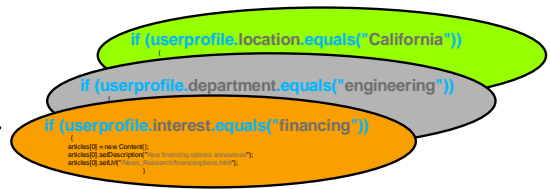
Java Server Page

- *BEANS execute business logic*
- *Template for page assembly*

Output page processing

- *Produces HTML*

Java Beans can contain business rules that retrieve personalized content





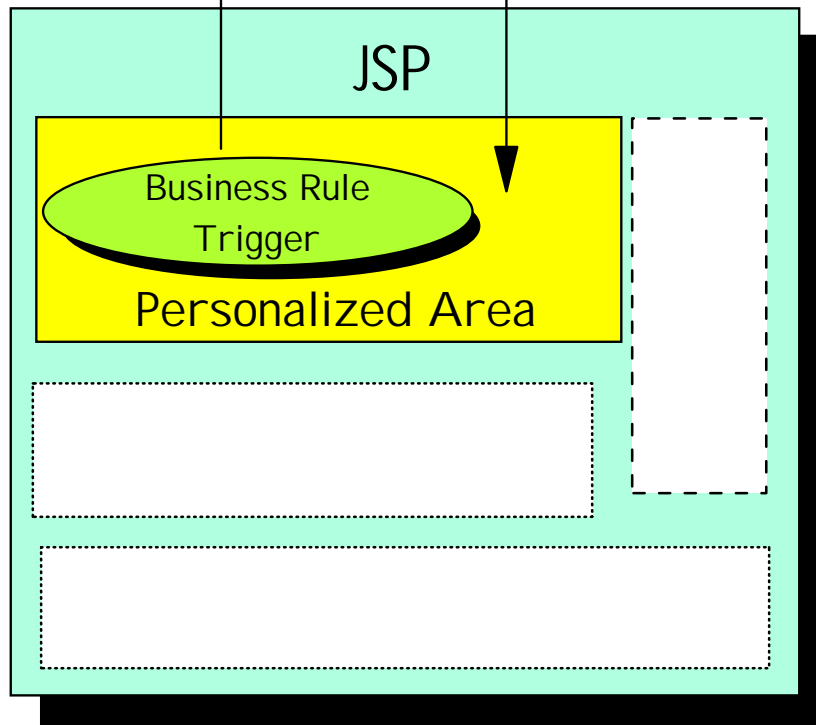
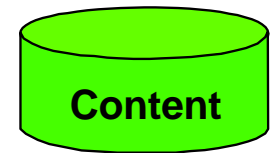
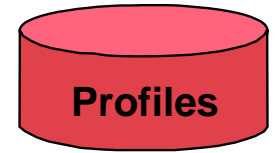
WebSphere Personalization V3.5



Web Site Developer
Using WebSphere
Studio Advanced
Edition

Rules Engine

Resource Engine





WebSphere Business Rules

■ Classify a site visitor

- What service level are they entitled to - gold, platinum
- What organization are they in HR, engineering, marketing
- What interests them - skiing, sailing
-whatever your business categories are

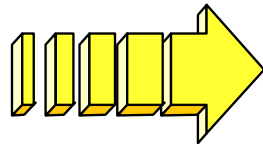
■ Action to be taken

- Select a specific content type

■ Binding combine a classification + action rule

- e.g. If Customer is gold select premium awards information

Rules are created using a sentence like template



Classifier

CustomerLevel is

Gold

when Resource.Attribute is Value



Business Rules Created Using Point & Select Menus

CustomerLevel is
Gold
when Resource.Attribute is Value



Specify Attribute

Select the Attribute:

Article	CompanyName
Product	Email
Profile	Enterprise
Promotion	Industry
Today	TotalSales
	Username



Specify Evaluation

Select the Evaluation:

- is equal to
- is not equal to
- is less than
- is greater than**
- is less than or equal to
- is greater than or equal to
- is between
- is between but not equal to
- is included in



Specify Value

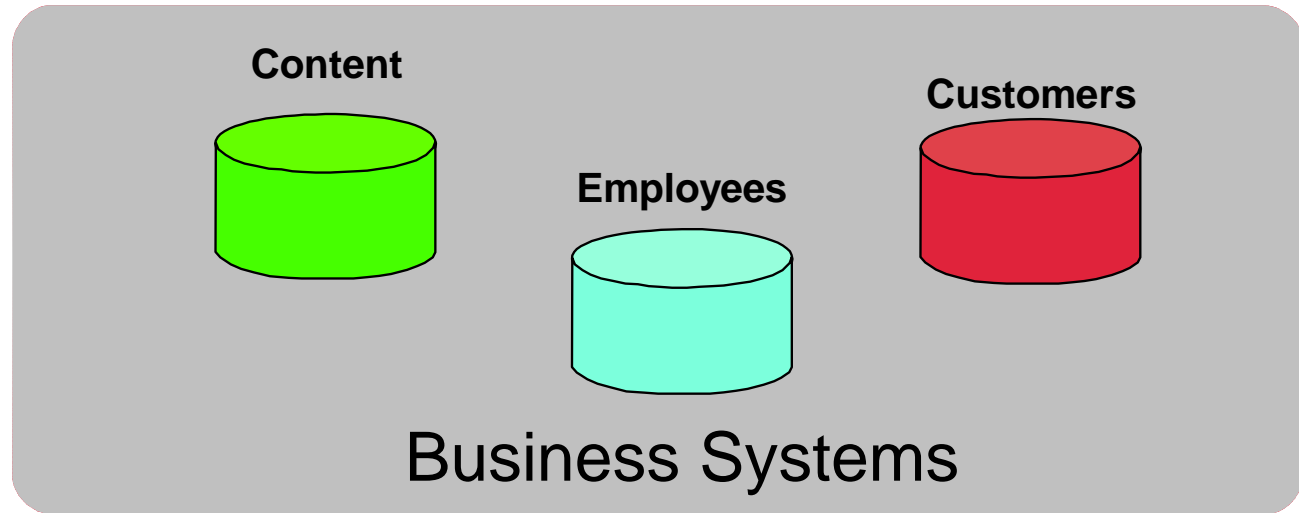
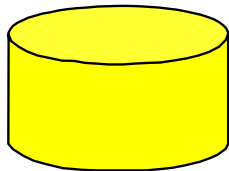
Specify a value or choose the value of another attribute:

CustomerLevel is
Gold
when Profile.TotalSales is Greater Than 10000



Where The Data Comes From

Information Collected On The Site



Resource Engine

Surfaces/Normalizes Profiles/Content For Usage By WebSphere Personalization
Interact with via Java Interfaces using Java Beans or EJBs



Specify Attribute

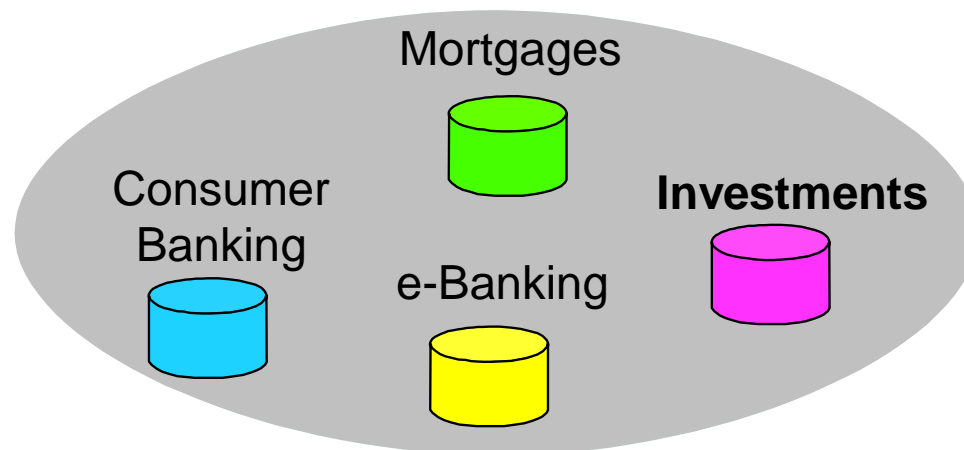
Select the Attribute :

Article	CompanyName
Product	Email
Profile	Enterprise
Promotion	Industry
Today	TotalSales
	Username



Benefit Of Combining Resources

Sample Scenario: Financial Institution



- ★ **Customer** has a savings account in the banking subsidiary
- ★ **And** Has also previously invested with the mutual funds subsidiary
- ★ **And** Has not invested recently but has accumulated a high balance in the savings account
- ★ **Action =** Present recent rates on index funds as a potential low risk way to maximize return

Customer sees consolidated page of account information
Financial institution has opportunity for cross selling



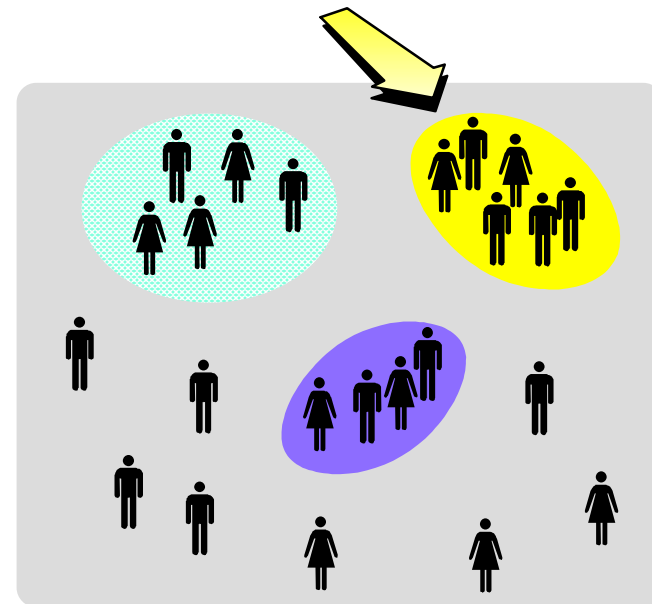
Recommendation Engine

Delivers recommendations based on

1. Preference engine
 - Explicit preferences
2. Clickstream engine (real time)
 - Content viewed, Added to shopping cart ..
3. Purchase engine (history)
 - Items bought, How many times bought ...
4. Item Affinity
 - Products frequently purchased together
5. Product matching
 - Based on product similarities

Example:

- Placed towels in shopping basket
- Likely to also buy bed sheets



Complementary to business rules

- Uncovers new buying patterns that may not be captured in business rules
- Adapts to changes in buying patterns without the need to create new business rules

Uses LikeMinds Personalization Server V5.0 developed by Macromedia

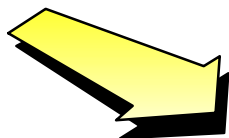
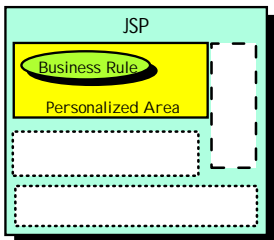
Solution Elements

Web Site Developer



WebSphere Studio
Advanced Edition

Business Rule Editor



WebSphere
Collaborative Profiles

Expansion Pack
250,000 additional registered users

WebSphere Personalization

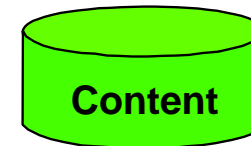
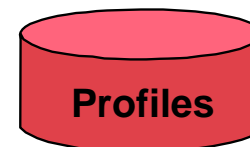
Recommendation Engine
25,000 registered users

Rule Engine

Resource Engine

↔

EJB's
or
Java Beans



WebSphere Application Server
Advanced Edition
Enterprise Edition

■ AIX, Solaris, NT, W2000, HPUX, AS400

Notes

1. The 25,000 user capability of the Recommendation Engine is not extended by the purchase of an additional license of WebSphere Personalization. Registration of more than 25,000 users in the Recommendation Engine requires purchase of WebSphere Collaborative Profiles.
2. The Recommendation Engine currently supports NT, W2000 and Solaris

Example Configuration And Prices



WebSphere Studio
Advanced Edition

Business Rule Editor

➔ **\$1,999**
per install

WebSphere
Collaborative Profiles

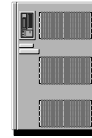
Expansion Pack
250,000 additional registered users

➔ **\$79,000**
per install

+

Recommendation Engine
25,000 registered users

➔ Included in
WebSphere Personalization



Recommendation Engine Client

Rule Engine

Resource Engine

➔ **\$10,000**
per processor

Recommendation Engine Client

Rule Engine

Resource Engine

➔ **\$10,000**
per processor

WebSphere Application Server
Advanced Edition

➔ **\$7,500**
per processor

WebSphere Application Server
Advanced Edition

➔ **\$7,500**
per processor

AIX, Solaris, NT, W2000, HP-UX, AS400

AIX, Solaris, NT, W2000, HP-UX, AS400





Sample WebSphere Component Pricing

Configuration #1

Only Rules Engine In Use

	Servers	Processors Per Server	Additional Users Registered In Recommendation Engine	Chargeable Units	List Price Per Unit	Total List Price
WebSphere Studio Advanced Edition	<i>not applicable</i>	<i>not applicable</i>	<i>not applicable</i>	5	\$1,999	\$9,995
WebSphere Personalization	8	2	<i>not applicable</i>	16	\$10,000	\$160,000
WebSphere Collaborative Profiles	<i>not applicable</i>	<i>not applicable</i>	0	0	\$79,000	\$0
WebSphere Application Server Advanced Edition	8	2	<i>not applicable</i>	16	\$7,500	\$120,000

Total List ==: \$289,995

Note:

The above is intended to demonstrate how the WebSphere components are priced and does not include all prerequisites for an operational system



Sample WebSphere Component Pricing

Configuration #2

Both Rules and Recommendation Engines In Use

	Servers	Processors Per Server	Additional Users Registered In Recommendation Engine	Chargeable Units	List Price Per Unit	Total List Price
WebSphere Studio Advanced Edition	<i>not applicable</i>	<i>not applicable</i>	<i>not applicable</i>	5	\$1,999	\$9,995
WebSphere Personalization	8	2	<i>not applicable</i>	16	\$10,000	\$160,000
WebSphere Collaborative Profiles	<i>not applicable</i>	<i>not applicable</i>	500,000	2	\$79,000	\$158,000
WebSphere Application Server Advanced Edition	8	2	<i>not applicable</i>	16	\$7,500	\$120,000

Total List ==: \$447,995

Note:

The above is intended to demonstrate how the WebSphere components are priced and does not include all prerequisites for an operational system



WebSphere Personalization

- **Choice of business rules and collaborative filtering technology**
 - ▶ *Choose the mix of personalization strategies that are optimum for your site's business objectives*
- **Easy entry of business rules**
 - ▶ *A tool for the non-programmer*
 - ▶ *Seamlessly integrated into the web site development environment*
- **Extensive support for integration with multiple sources of profiles and content**
 - ▶ *Improved selection of content by accessing multiple sources of profiling information*
- **Built on and benefits from the WebSphere architecture**
 - ▶ *Scalable to meet your needs - utilizes the JSP and EJB architecture*
 - ▶ *Choice of platform - AIX, Solaris, NT, W2000, HPUX, AS400*
- **Complemented with a rich suite of WebSphere offerings**
 - ▶ *Transcoding, speech, site analyzer, edge server*