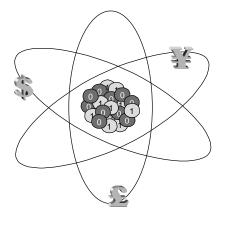
## Database support for E-Commerce Applications

Manoj Kumar, *mkumar@in.ibm.com* Anant Jhingran, *anant@us.ibm.com* 

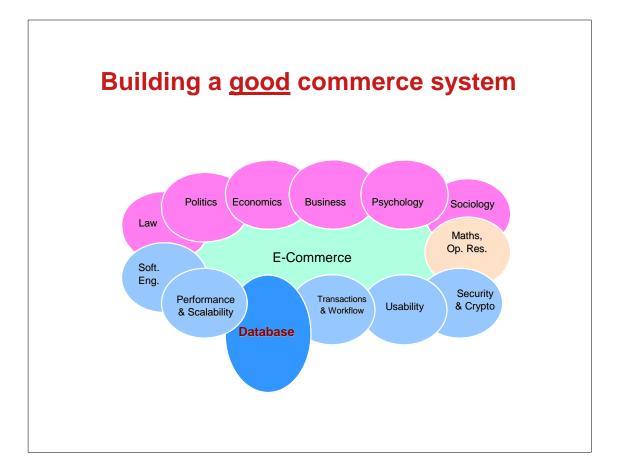


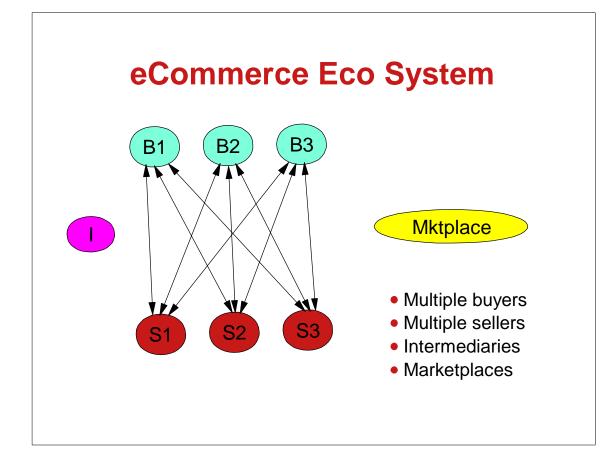


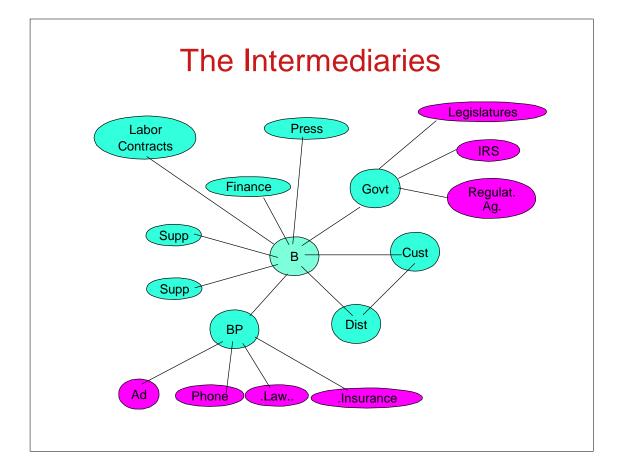
IBM Research Division India Research Lab

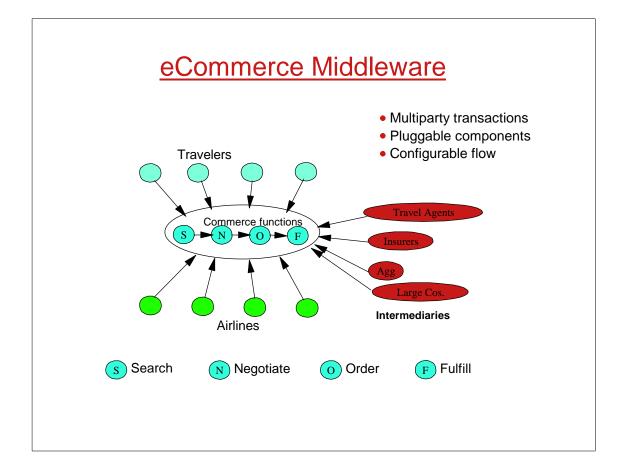


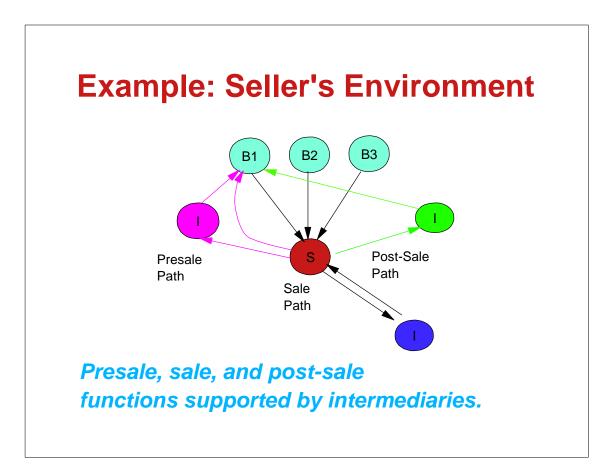


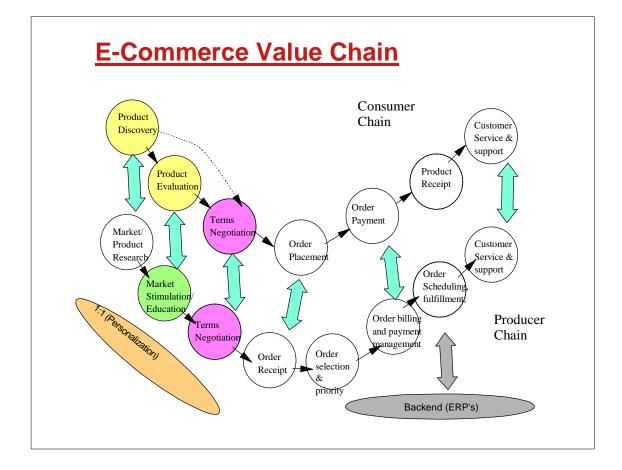


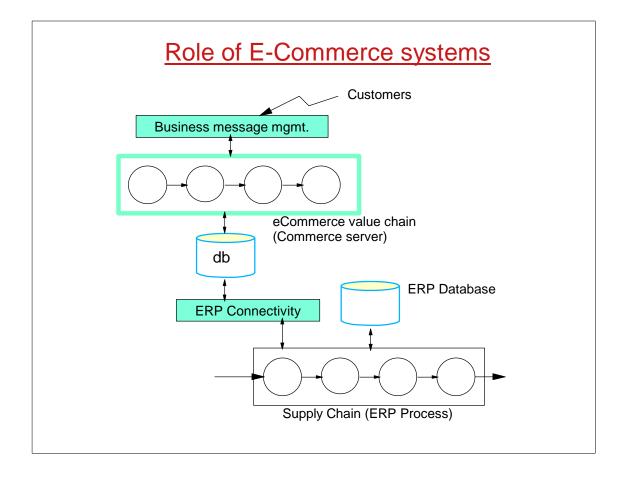


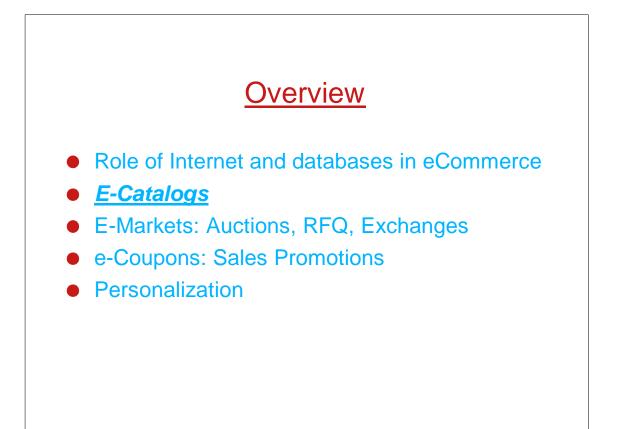


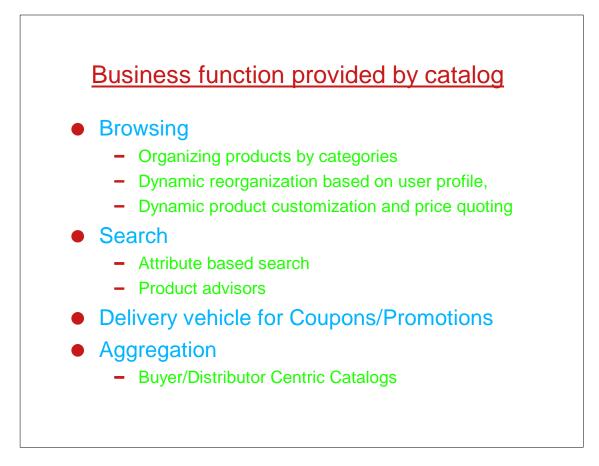


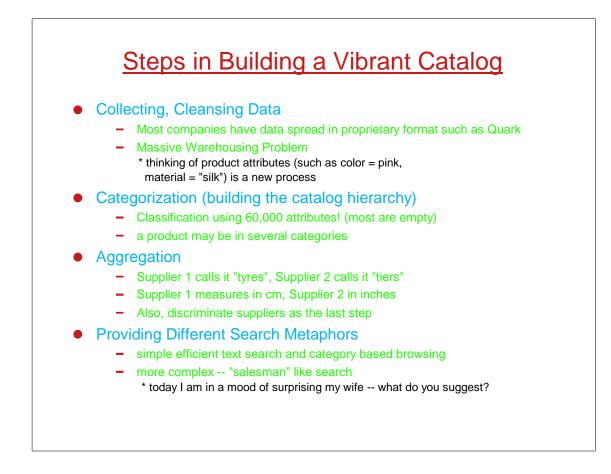


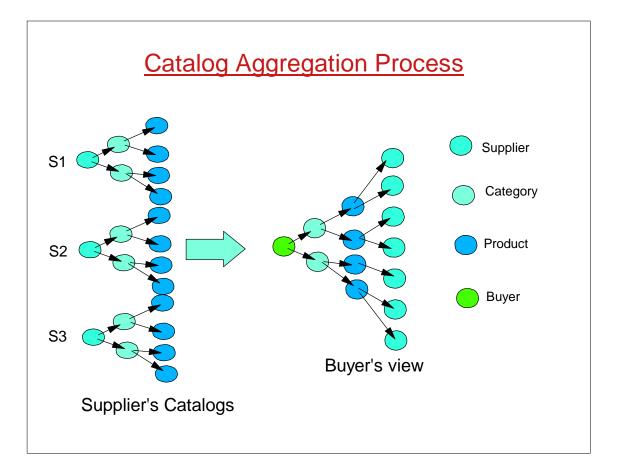


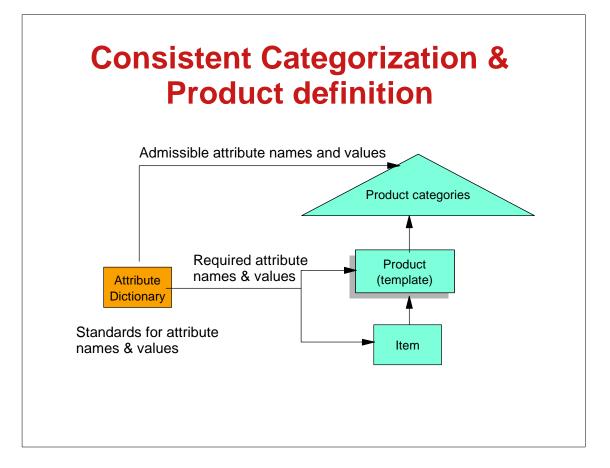


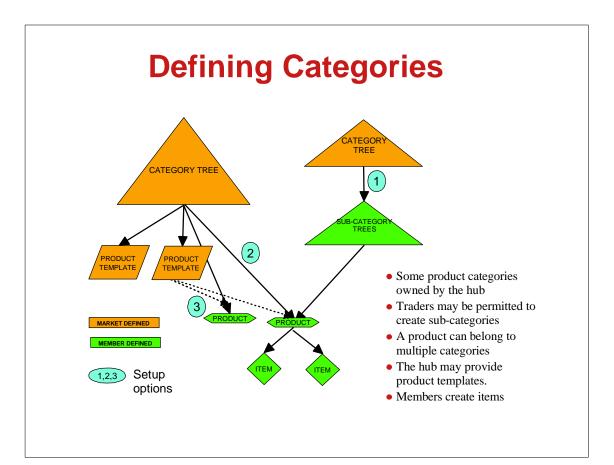








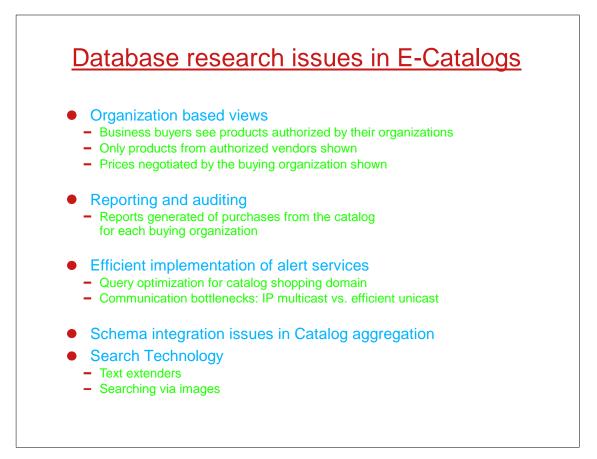




## **Requirements for E-Catalogs**

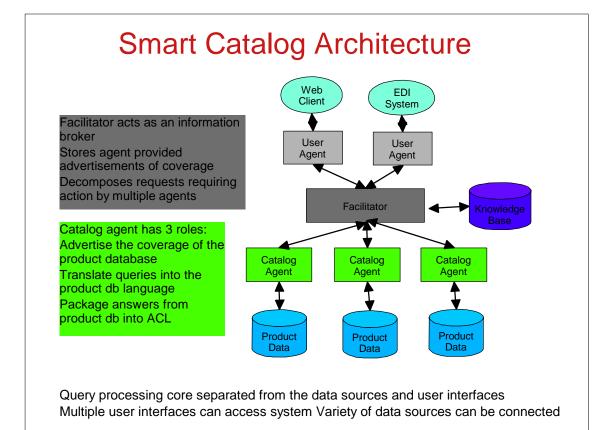
Summary of CommerceNet Catalog Working Group recommendations

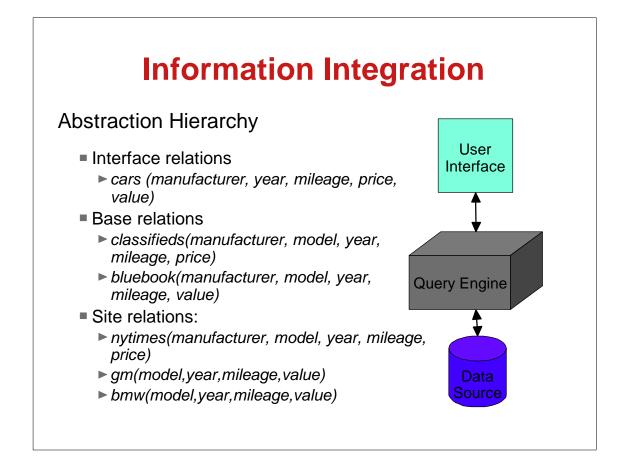
- Scaleable and support distributed search
- Provide up-to-date information
- Support variety of search techniques
- Cross-catalog search (e.g. for comparison)
- Open architecture
  - Connection of new info sources
  - Open standards

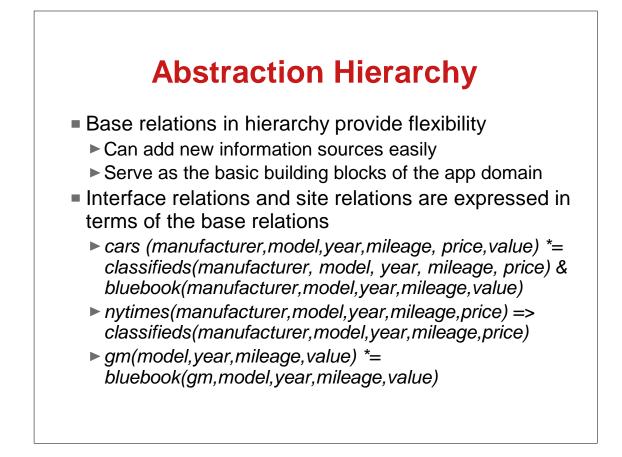


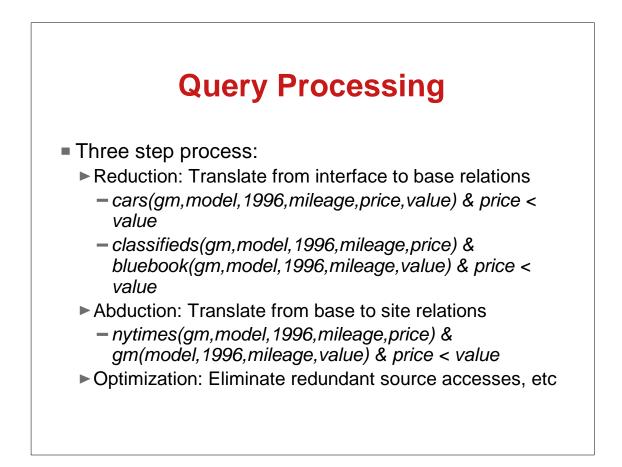
## **Virtual Catalogs**

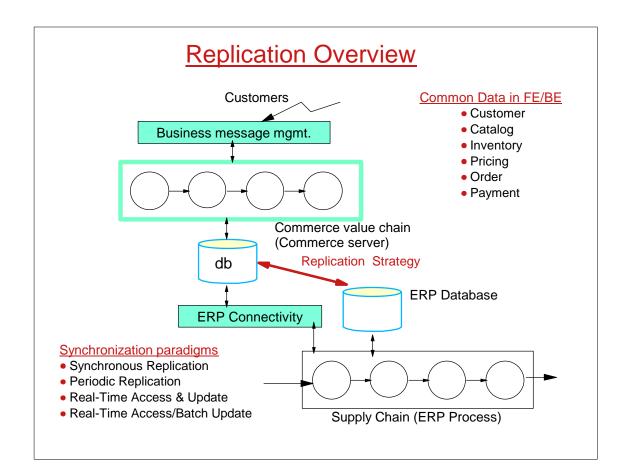
- Current distributor or retailer catalogs are based on:
  - Hyperlink approach interaction details lost
  - Integrated approach significant storage and maint cost
- Virtual Catalogs:
  - Dynamic retrieval of product data
  - Distributor maintains control over interactions
  - Built on top of a Smart Catalog infrastructure

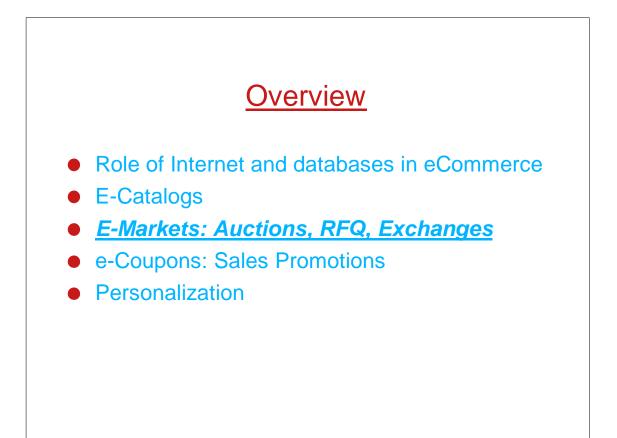


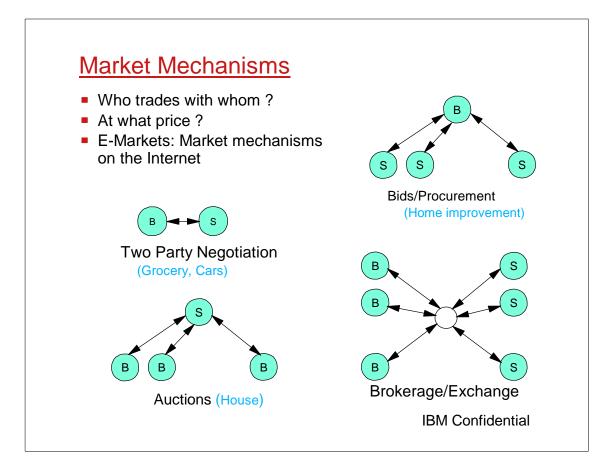


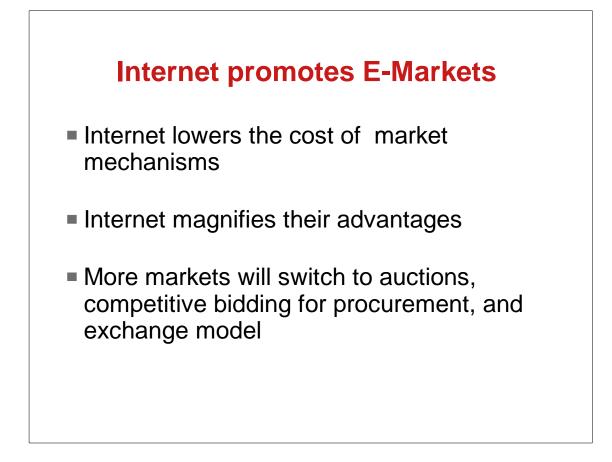


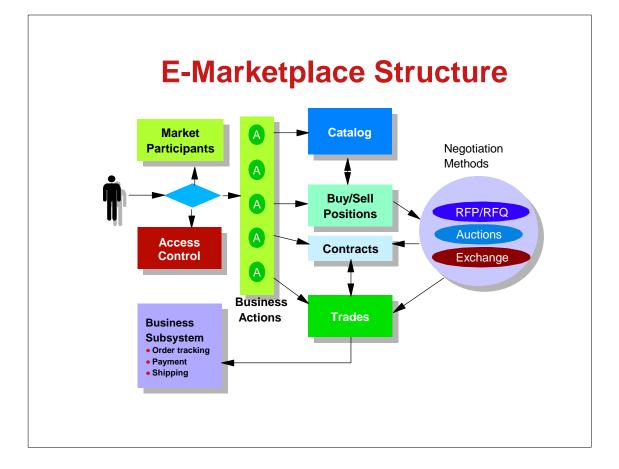


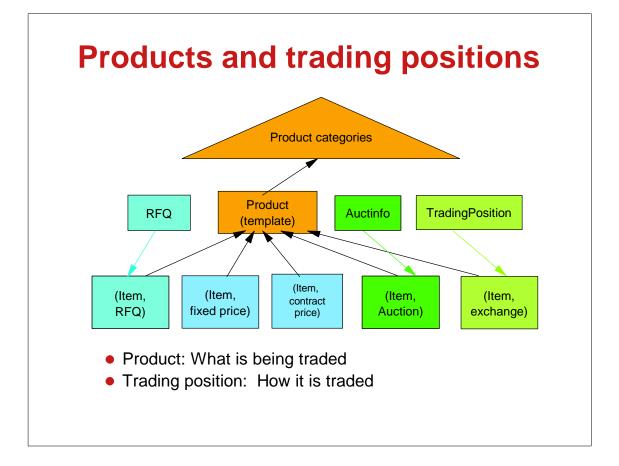


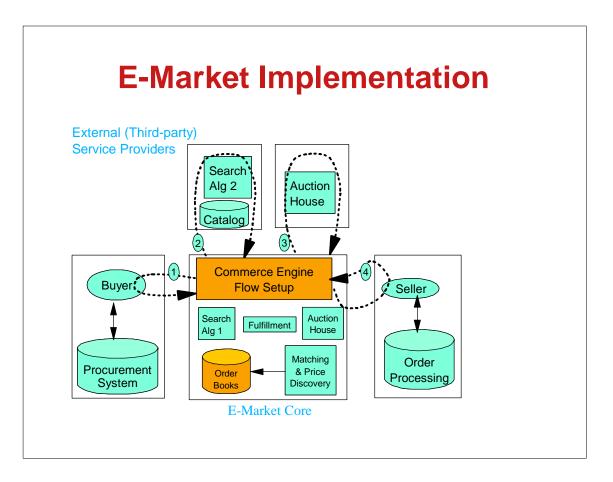




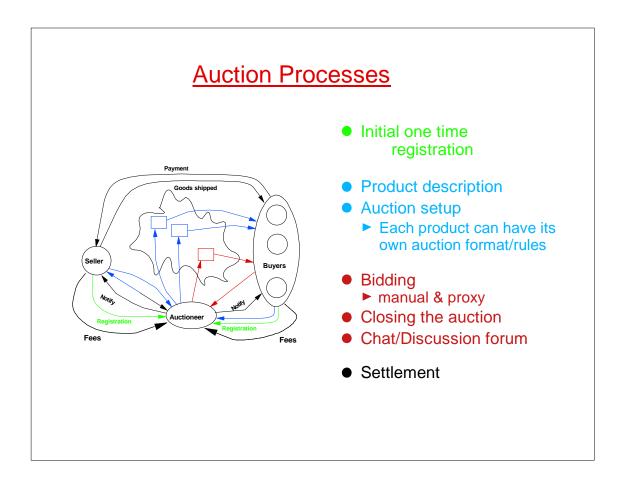


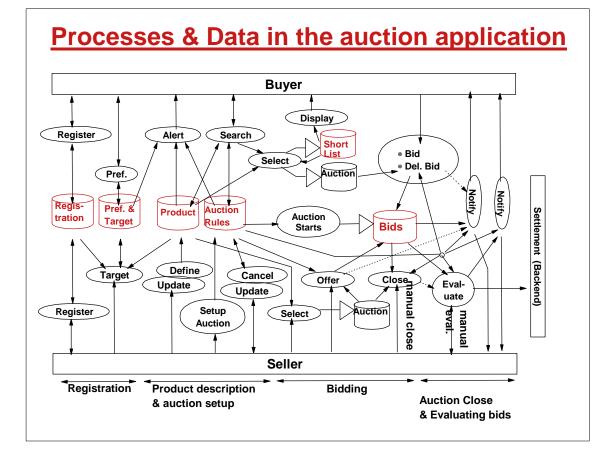


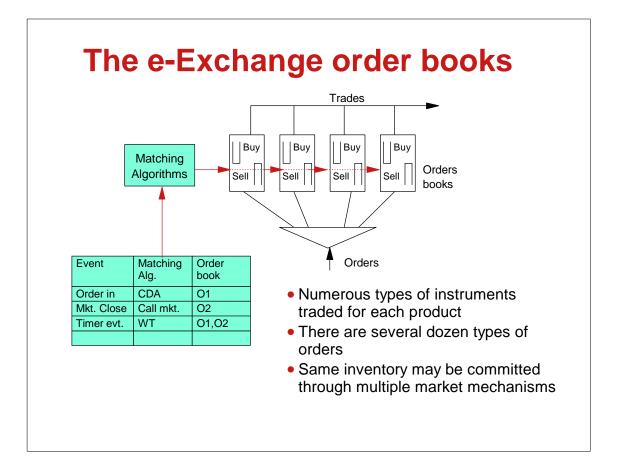


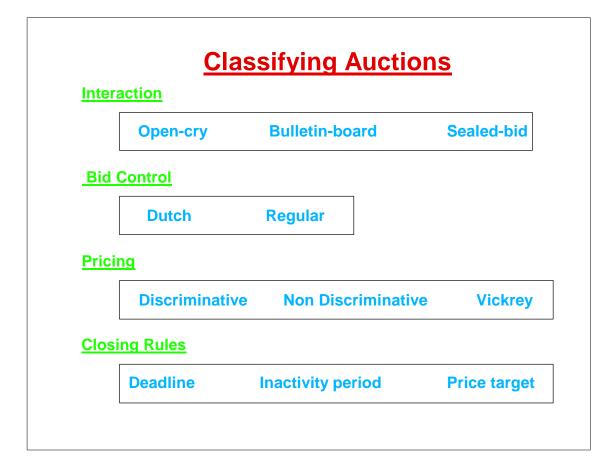


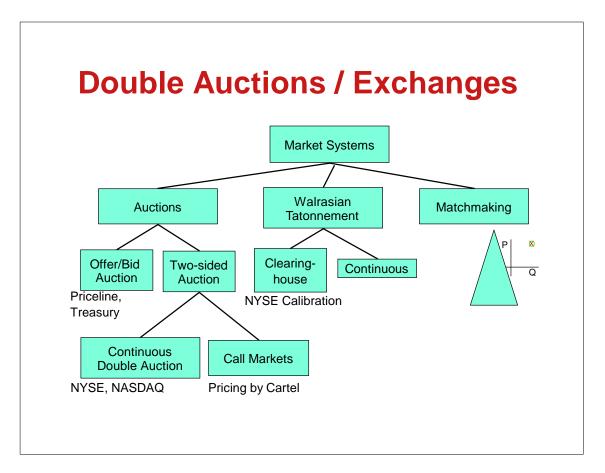


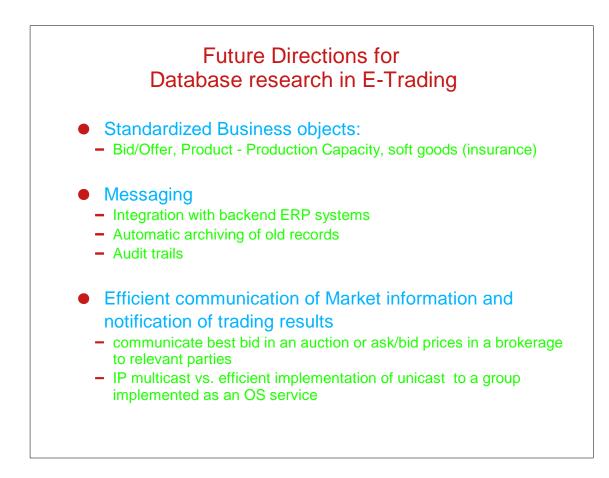








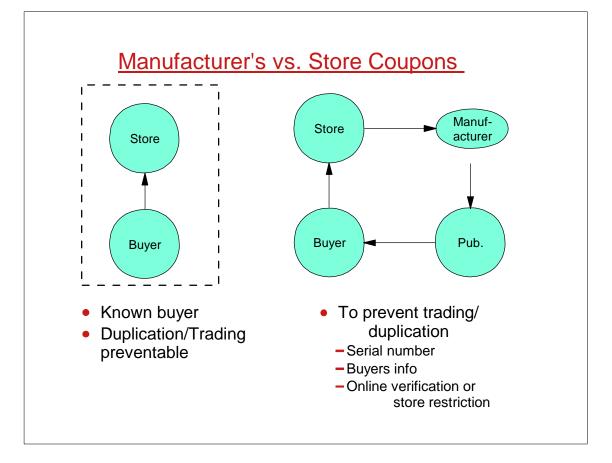


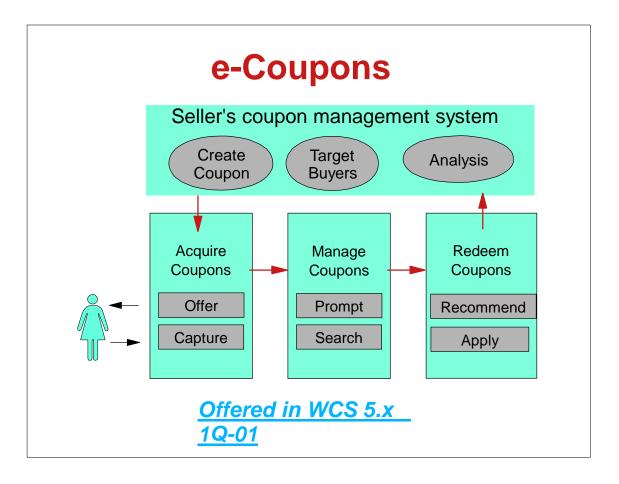


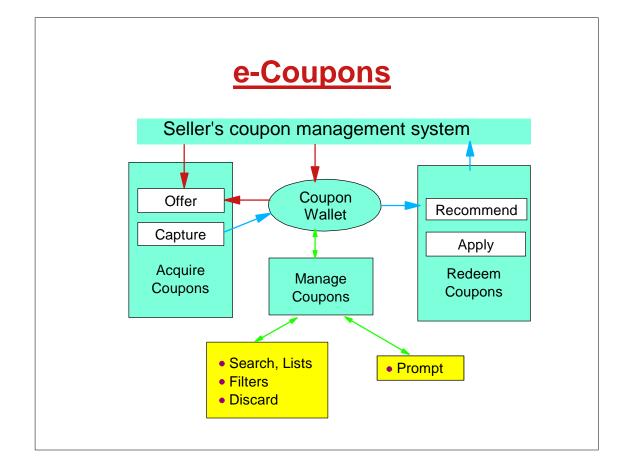






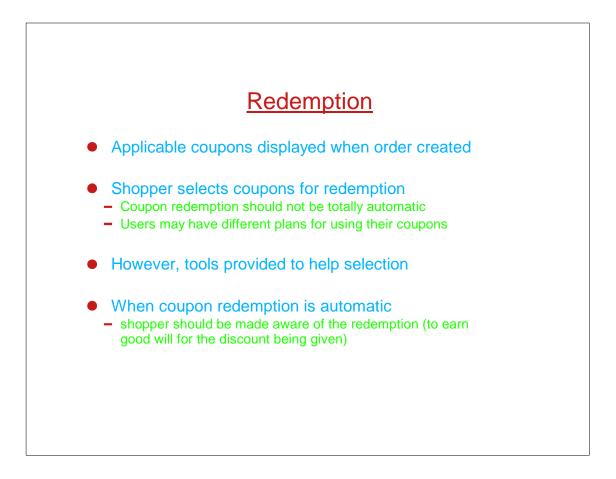


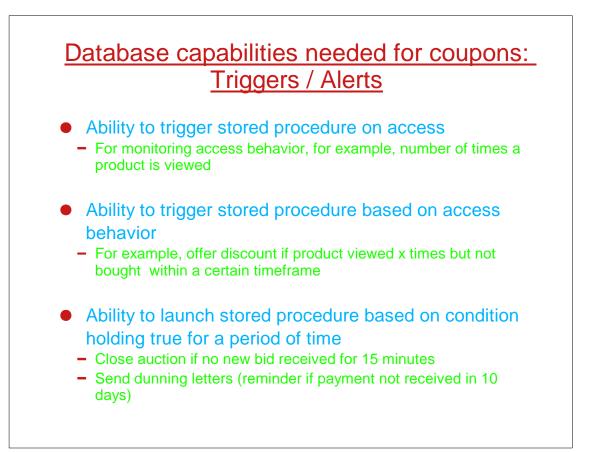


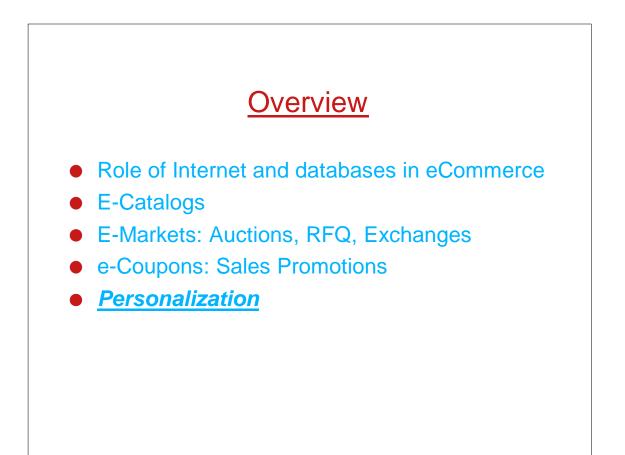


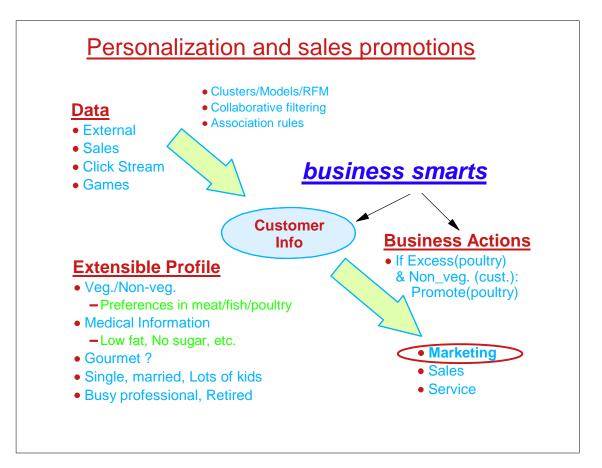


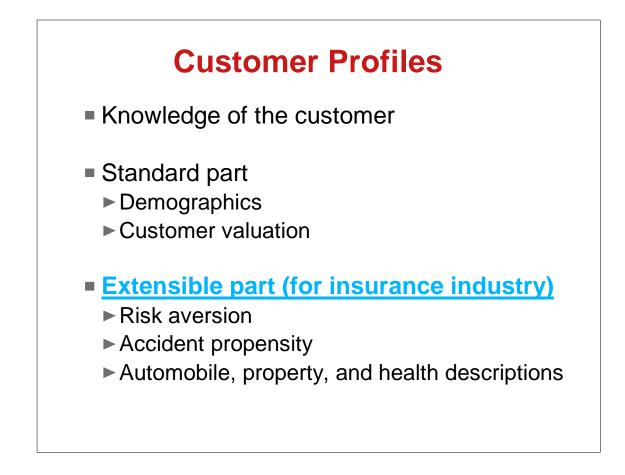


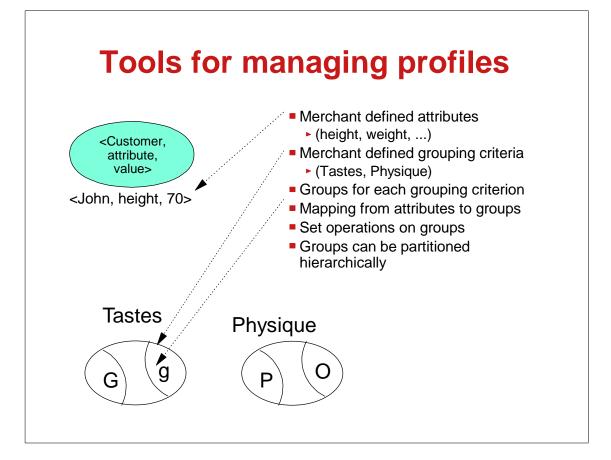


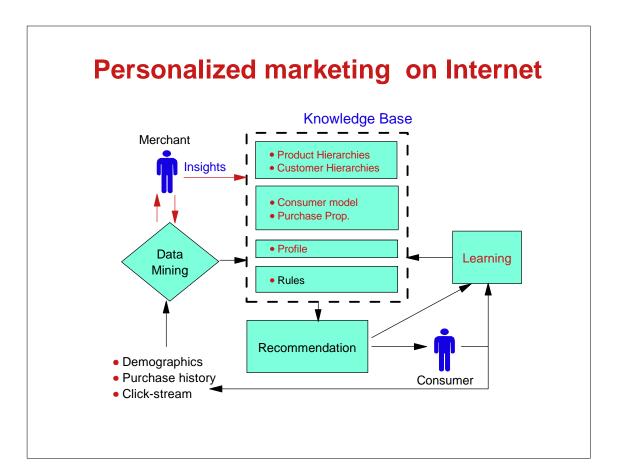












## Using rule engines for business actions

- Give 15% discount to loyal customers
- If customer likes humor, promote Dilbert
- In Dec. promote calendars to shoppers buying gifts
- To promote product, show ad/incentive if customer has seen product and not bought, or customer not likely to see product, and product not promoted before



