



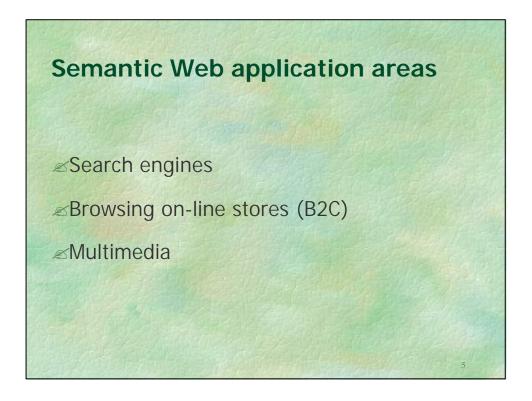


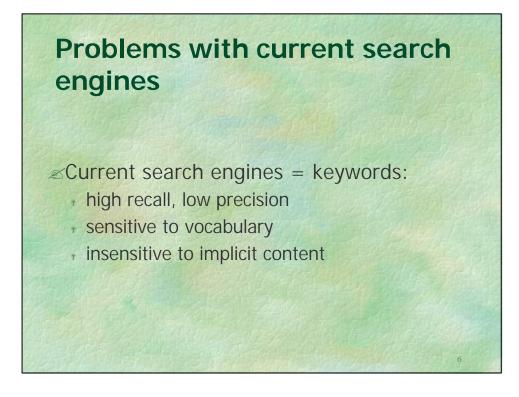
- 1 Hand-coded (HTML) Web content easy access through uniform interface huge authoring and maintenance effort hard to deal with dynamically changing content
- 2 Automated on-the fly content generation based on templates filled with database content later extended with XML document transformations
- 3 Automated processing of content The Semantic Web



✓It is not about "blue sky" researchers trying to model the entire world...

- *sinstead*, the Semantic Web
  - proposes explicit meta-data rather than "screen scraping"
  - by using agreed upon semantics (ontologies)
  - building on proven Web technology (XML, RDF, DAML+OIL)

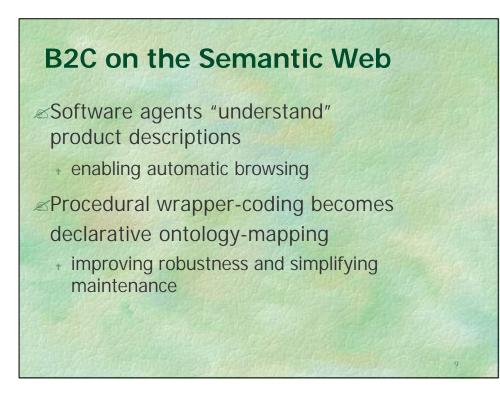


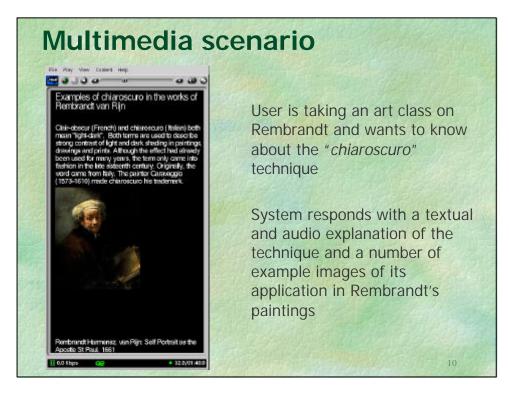


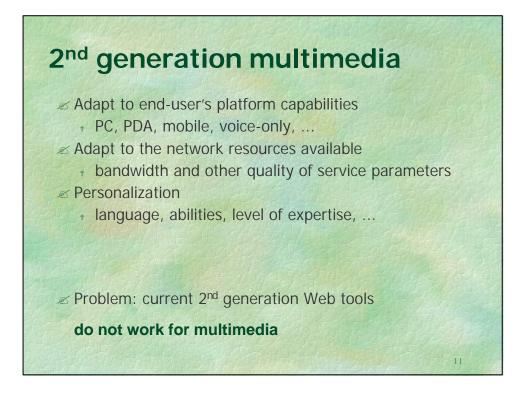
## Search engines on the Semantic Web

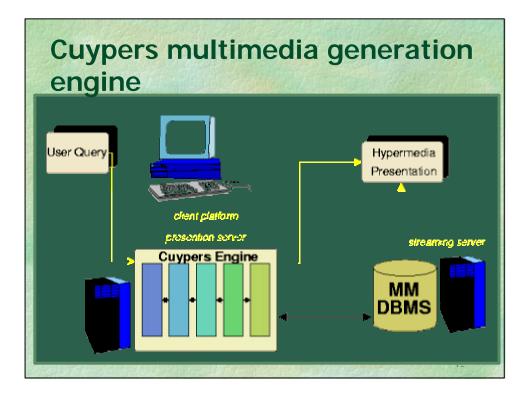
## Problems with 2nd generation on-line stores (B2C)

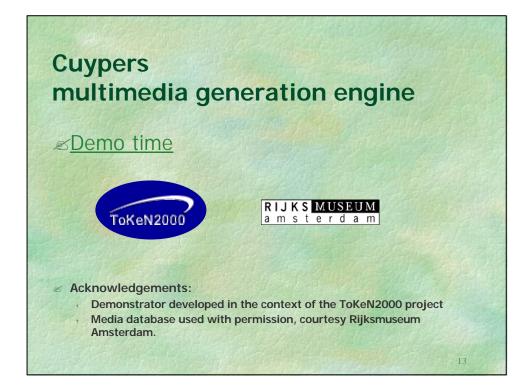
- manual browsing is time-consuming and inefficient
- every shopbot requires a series of wrappers
  - work only partially
  - extract only explicit information
  - must be updated frequently











## **Cuypers – the bad news**

Currently all our design knowledge is:

≤ implicit and hidden in the generation rules

✓ lost in the generated Web presentation

mot reusable for other Web applications/sites

We need the Semantic Web

14

