Organizing and Integrating Knowledge on the Desktop with Repositories

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DESKTOP
❑Desktop embodies researchers' workflows and working practices

❑Personal computer systems use the desktop metaphor to organize information

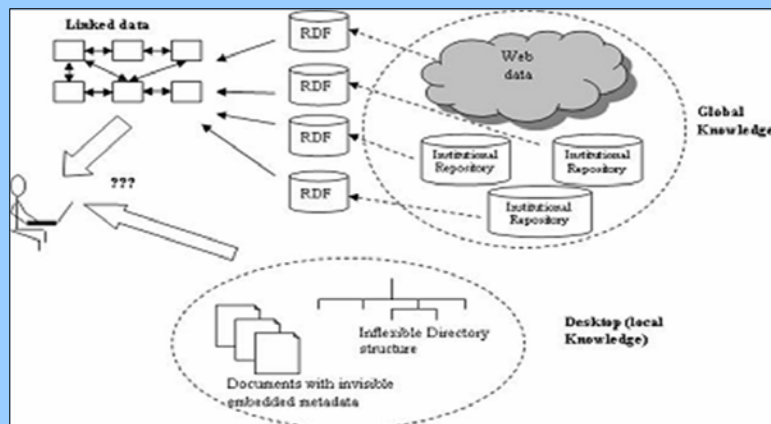❑File system structure & application-defined metadata

INSTITUTIONAL REPOSITORY
❑Institutional repository is a collection of research knowledge

❑Digital library metaphor used by repositories to organize information

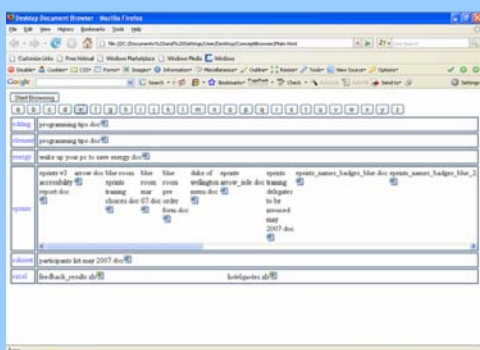❑Rich metadata may be available but not utilized sufficiently to organize information

PROBLEM:
➢Lack of organizing principles for dynamic and flexible organization

❑Neither environment provides tools for relating its contents to external information sources
❑We need to understand how information is organized on each of these collections
❑Need to determine whether we have to change these organization mechanisms or how to adopt them in order to allow for flexibility and easy integration of resources.

ONE SOLUTION (ON THE DESKTOP):
❑Harvest metadata from desktop documents
❑Dynamic categorization of documents using keywords

BENEFITS OF KEYWORDS/METADATA:
❑User-defined attributes gives user freedom to record ideas over time
❑Helps visualize implicit relations between data

FUTURE WORK:
❑Determining connections between the data on the desktop and that on repositories using keywords
❑Translation into semantic data for each platform essential