

Interlib Technology Integration

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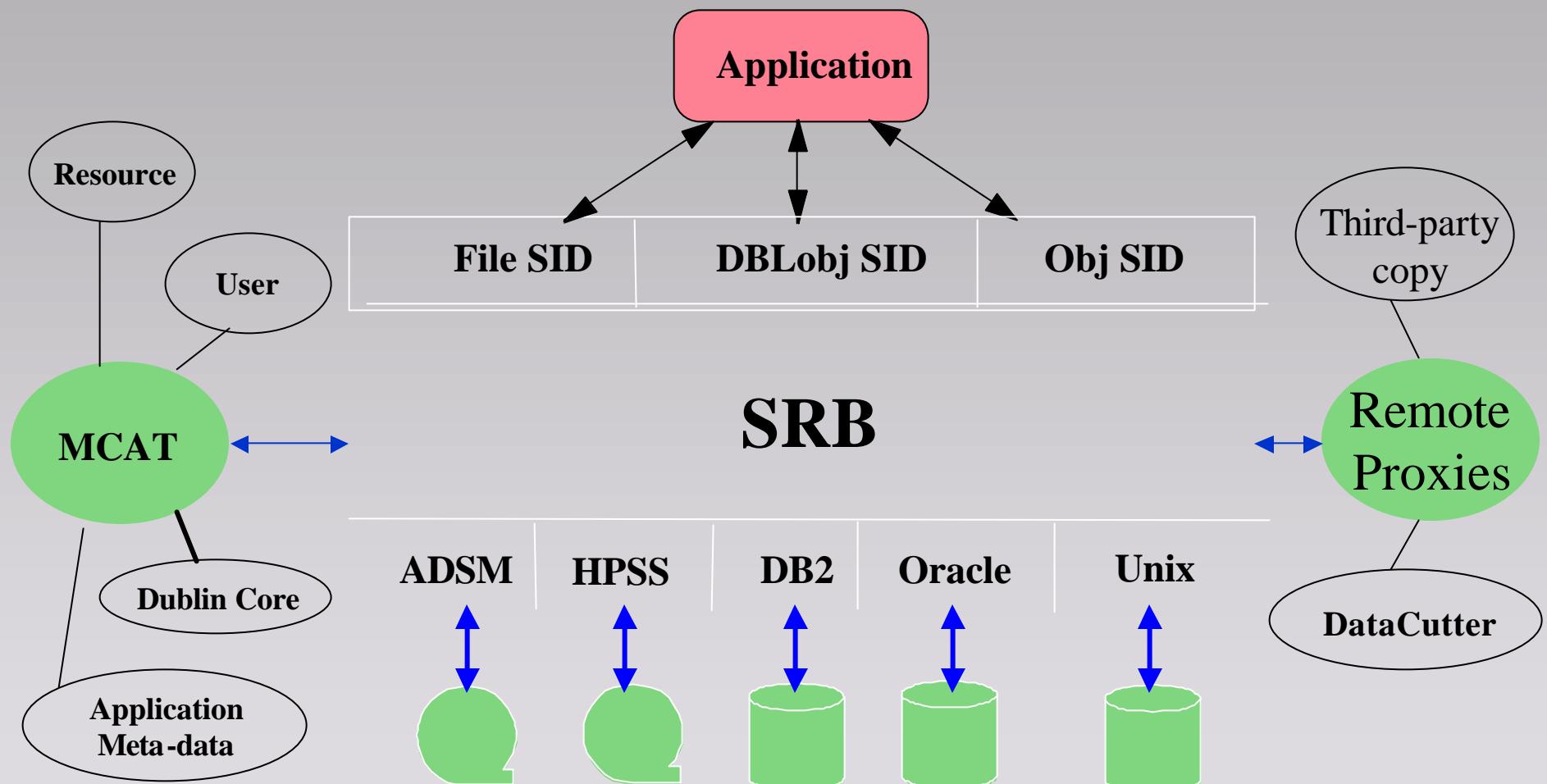
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Integrating Data Set Management

- **Model-Based Information Management**
 - Rule-based ontology mapping, conceptual-level mediation - **CMIX**
- **Data Grid**
 - Data federation across multiple libraries - **MIX**
- **Digital Library**
 - Interoperable services for information discovery and presentation - **SDLIP**
- **Data Collection**
 - Tools for managing data set collections on databases - **MCAT**
- **Data Handling**
 - Systems for data retrieval from remote storage - **SRB**
- **Persistent Archives**
 - Storage of data collections for 30 years

SDSC Storage Resource Broker & Meta-data Catalog



Integrating Information Modeling

- **Information Presentation Models**
 - Rendering of spatial objects (VML)
 - XML stylesheet transformations (XSLT)
- **MIX: Mediation of Information using XML**
 - Model-based mediation
 - View definition, schema integration (XML queries & transformations)
 - Wrapping text, HTML, databases, collections
- **SDLIP: DL-Interoperability protocol**
- **XML databases & XML organized data collections**
 - commercial systems:
 - AMICO@Exelon, AMICO@TAMINO,
 - Oracle8i,...



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AMICO Demo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address: http://dice.sdsc.edu/AMICO/

Links: Backflip It!

AMICO Collection

Search for Artist

Enter the Artist: gogh

Search Type:

- Artist's name contains all of the search words
- Artist's name contains any of the search words

[Search](#) [Clear Data](#)

Search for Title

Enter words in the title:

Search Type:

- Title contains all of the search words
- Title contains any of the search words

[Search](#) [Clear Data](#)

Note: You must spell the words in the Title search for "picasso" will find works by Pablo Picasso.

Enter XPATH query

Enter query:

Search Type:

[Search](#) [Clear Data](#)

SDLIP TEST

/MultiDoc_Container/am_ [Search](#) [Clear Data](#)

[Done](#)

http://www.npaci.edu/DICE/AMICO/Demo/amico-objects.xsl.xml - Microsoft Internet Explorer

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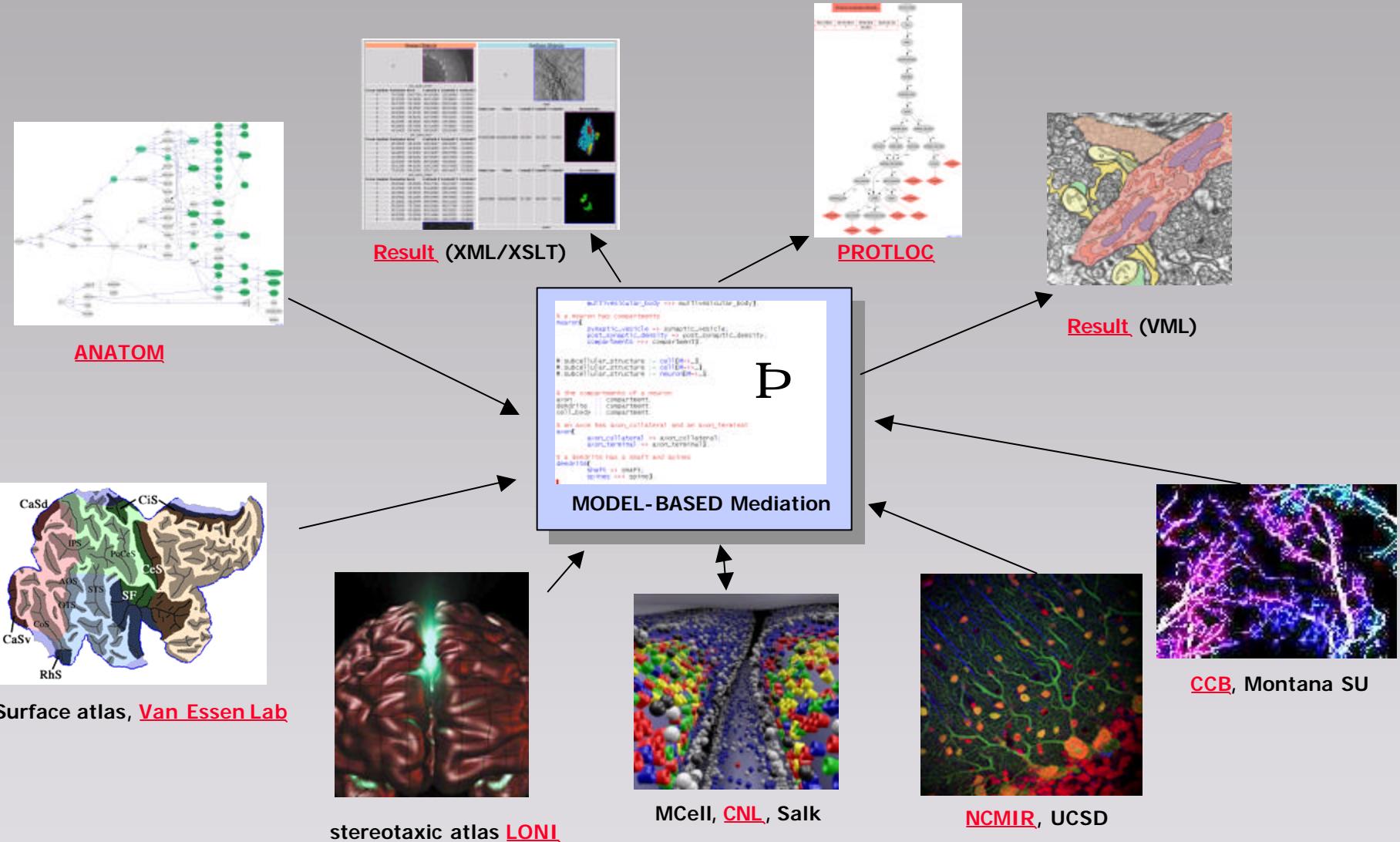
Links: Backflip It!

AID	OTY: Object Type	OTG+: (OTN, OTT): Title (Type)	GRG*.CRT: Creator Name	OCG*.OCT: Creation Date	ORG*,(ORS, ORL): Copyright (Link)	RIG*,RIL: Related Image Link (Thumbnail)
AGO_.95/143	Painting	The Battle between the Israelites and the Amalekites	Luca Giordano.	unknown	Copyright 1998: Art Gallery of Ontario (e)	Full view:
AIC_.1910.238	Mummy Goods	Mummy Case of Paankhenenamun (preferred)	Egyptian.	Third Intermediate Period, Dynasty 22, c. 945 - 715 B.C.	(e)	front view: front view, photo x-ray: view of top of he...
AKAG.1964:16	Painting/Oil	Dynamism of a Dog on a Leash	Giacomo Balla, Italian, 1871-1958.	1912	(e)	Full View: Full view: front: Full view: back:
ASIA.1979.251	Ceramics	Tea Leaf Jar	Nonomura Ninsei.	Edo period, mid-17th century	(e)	full view:
CCP_.94:057:038	photograph	Harlem Globetrotter Baseball Players, 1949	Mickey Pallas.	1949	(e)	full view:
CMA_.1940.465.a	Drawing	Studies for the Sistine Ceiling: Ignudo (Former) Studies for the Sistine Chapel Ceiling: The Nude Figure next to the	Michelangelo.	1510/1511	(e)	Full View:

Model-Based Mediation

- **Knowledge-based mediation**
 - conceptual-level integration
- **Rule-based ontology maps**
 - map source XML to CM to FL (ontologies, views)
- **Models for exporting**
 - rules
 - integrity constraints
 - query capabilities
 - data & schema (XML/DTDs)

Collection Management: Federation of Brain Data



Further Information

<http://www.npaci.edu/DICE>



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