

Eureka! User friendly access to the MPI linguistic data archive

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The MPI linguistic archive

Misconception about archiving

Your stuff is buried here and gone forever



The MPI linguistic archive



- only 10 years since we started
- 300,000 audio, video & text resources
- 100,000 metadata descriptions
- 16.5 TB of data

...and still growing daily

The MPI linguistic archive





MPI researchers' data DoBeS projects

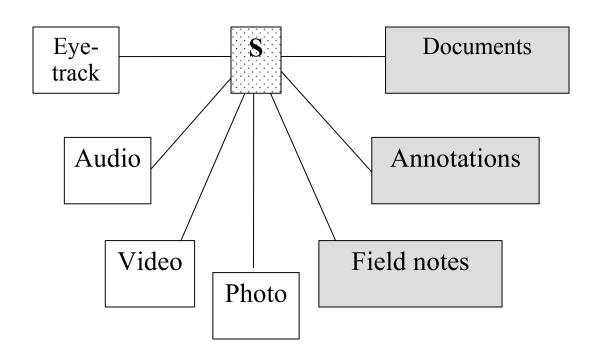
Corpora from other research institutions

- Corpus Nederlandse Gebarentaal
- European Science Foundation's Second Language Acquisition by Adult Immigrants
- Dutch Bilingual Database

Diverse Sources - One Structure



- all data described using IMDI metadata format
- central organisational concept: the session resource bundle
 - obligatory metadata
 - a set of annotations & transcriptions
 - a set of media data (video, audio, photo)



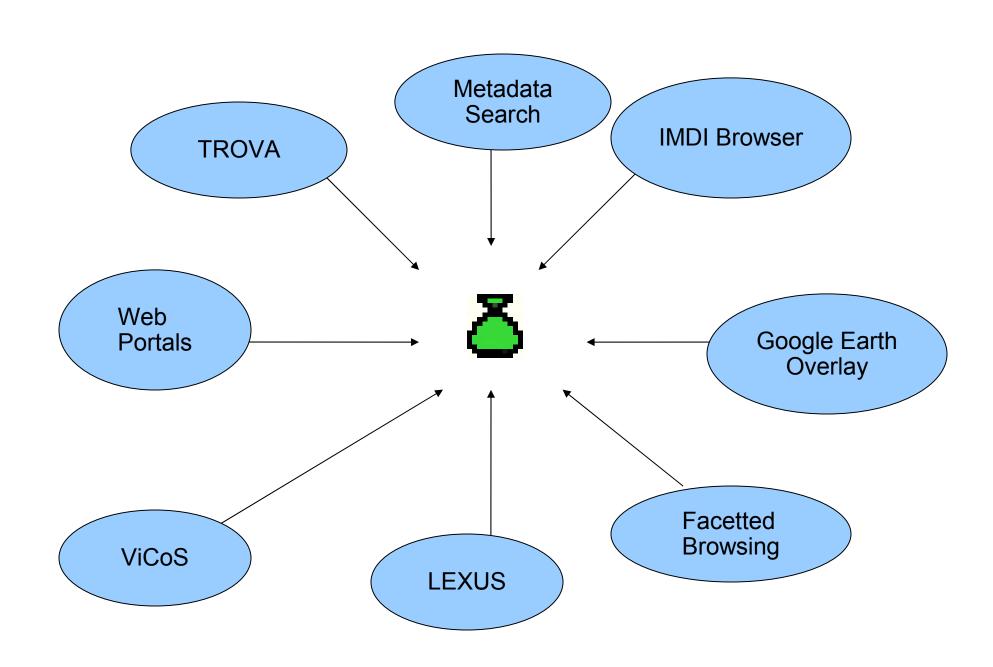
Diverse Sources - One Structure



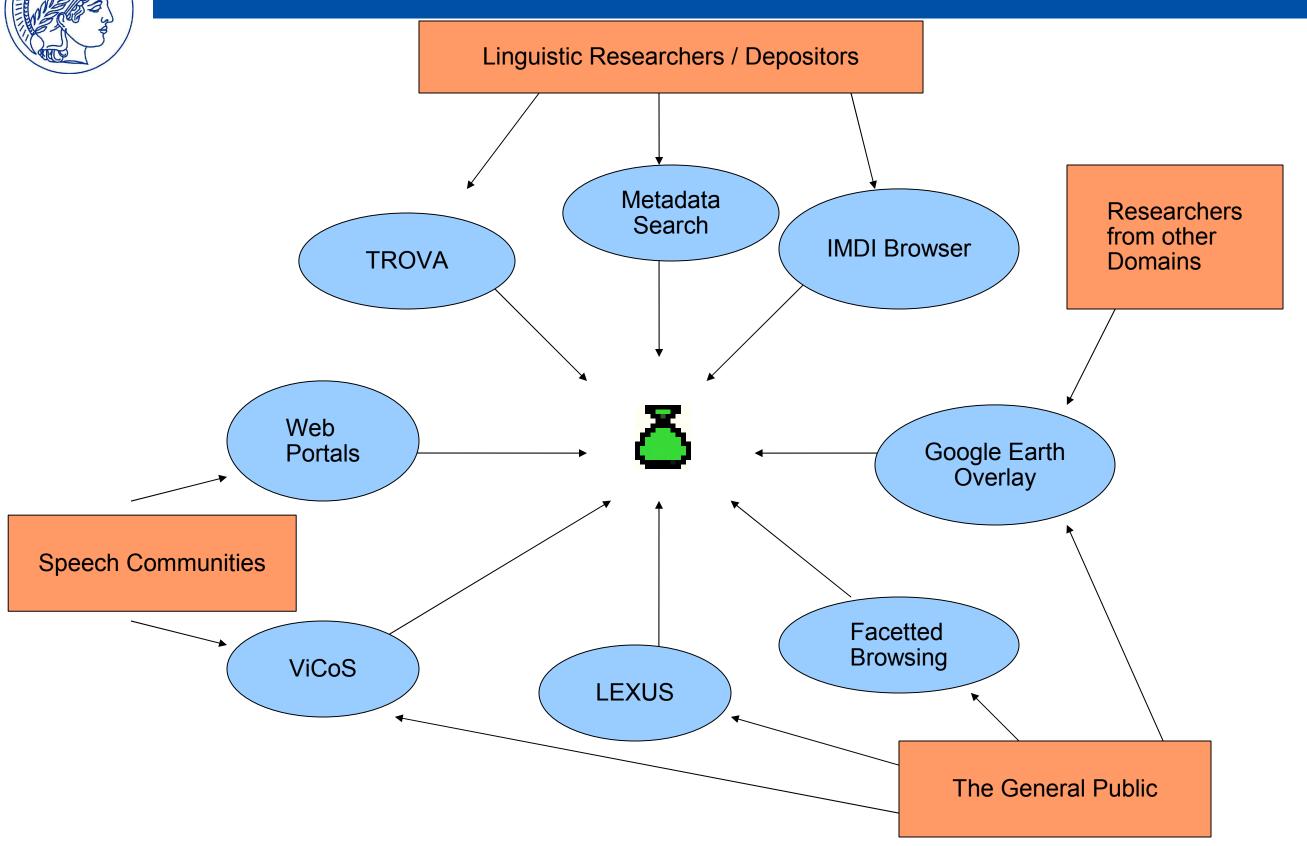
- every resource and metadata description has a URID (http://www.handle.net/)
- all data in principle available online
 - http://corpus1.mpi.nl
- complex access management system regulates who can access what



Accessing the Data



Accessing the Data



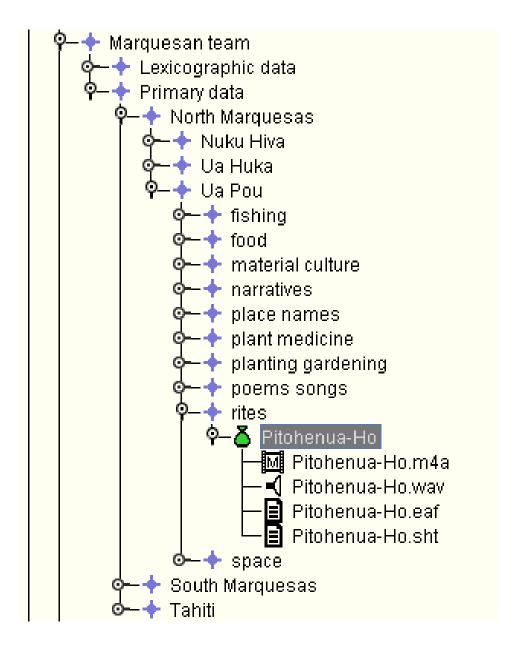




The Traditional Method The IMDI Browser



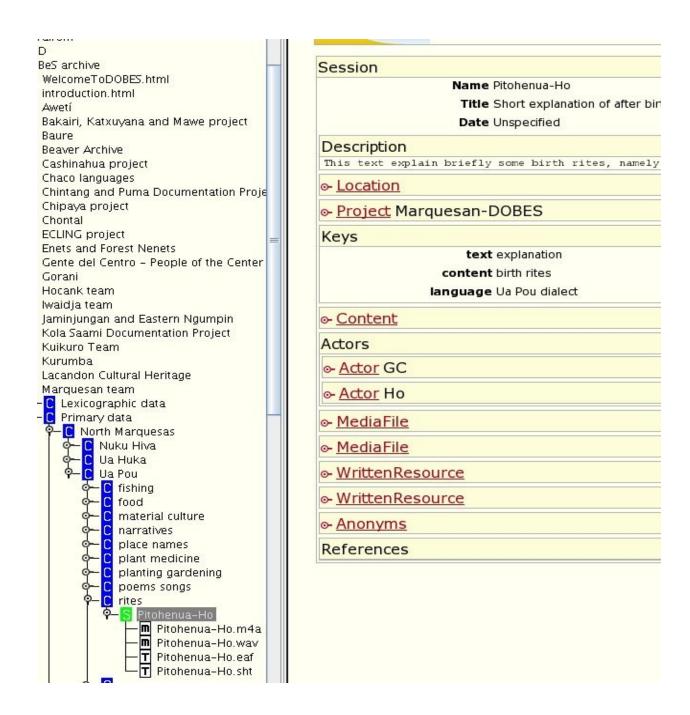
- data is structured by researchers
- can be ordered by geographic location or thematic subject or combination of these



The Traditional Method – The IMDI Browser



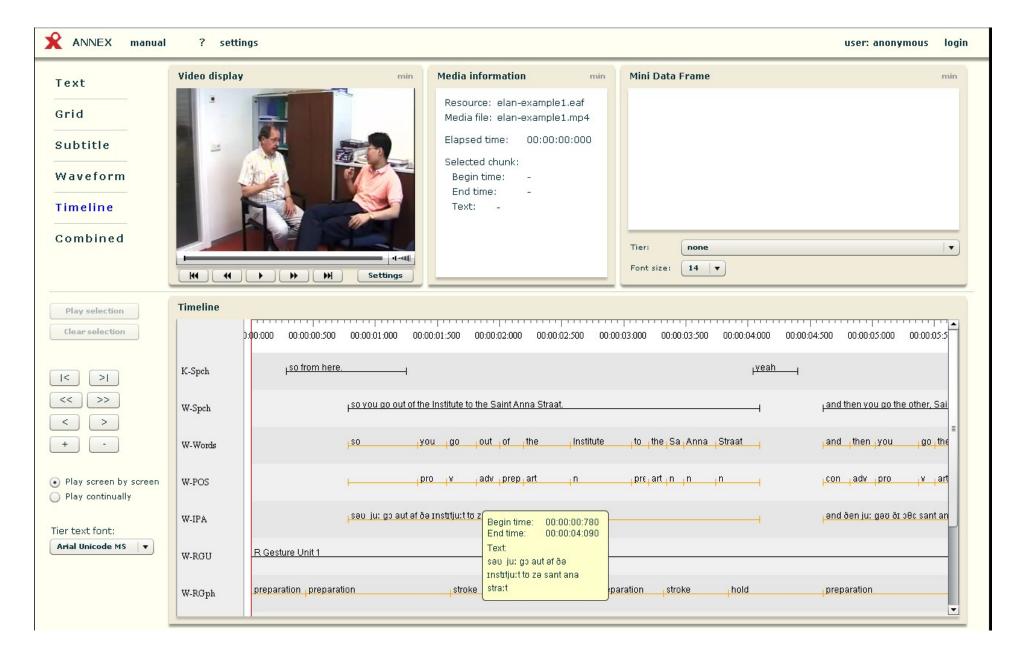
 Metadata is directly visible from the IMDI browser







Resources can be viewed using ANNEX



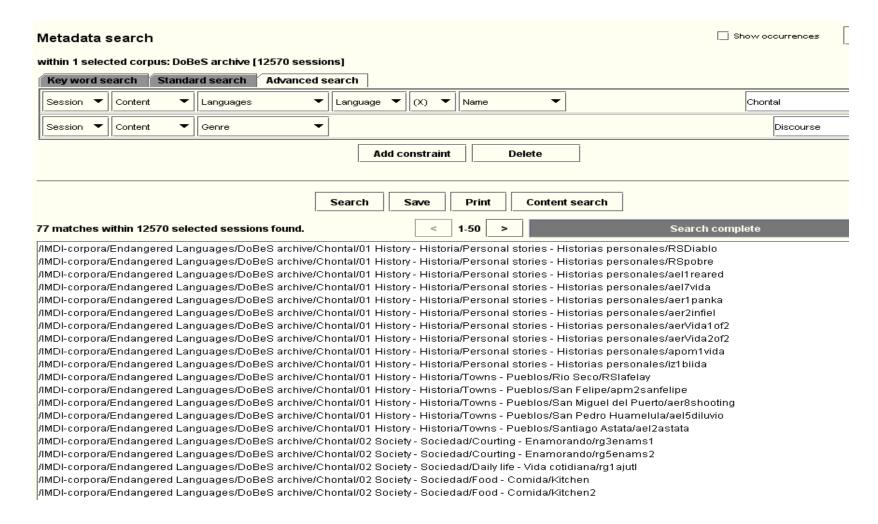


More than just Browsing – Metadata and Content Search



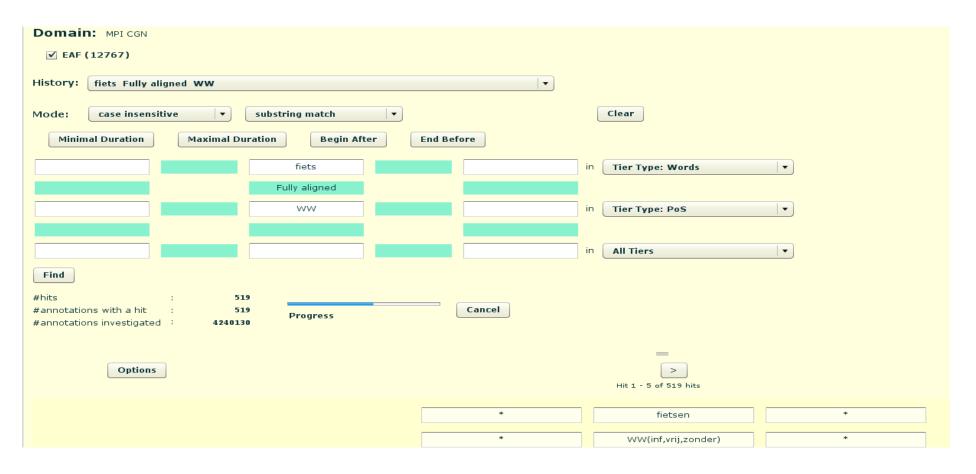


Metadata is always open and can be searched





 If you have access to the resources, you can also search the annotations







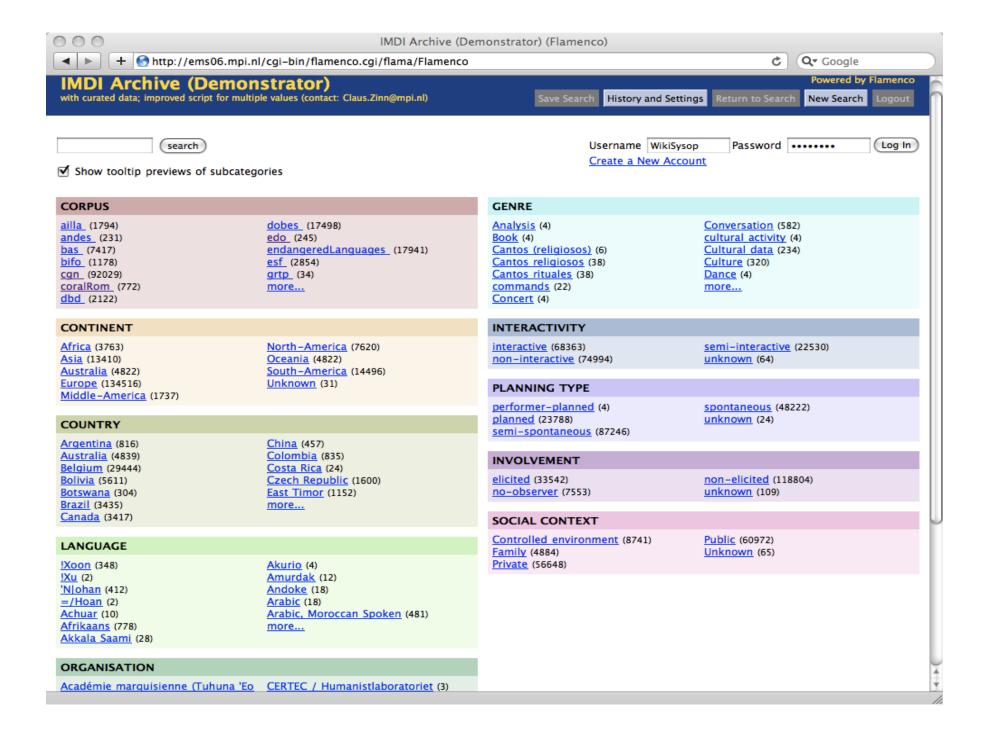
The Narrow-down Method Facetted Browsing



- facets are taken from IMDI metadata
- users can browse through data
 - user selects facet (i.e. genre: conversation)
 - only matching sessions are shown
 - user selects another facet (i.e. country: Brazil)
 - an even smaller subset is shown



The Narrow-down Method – Facetted Browsing







Easy as Geography Google Earth Overlays

Easy as Geography – Google Earth Overlays



- geographic navigation seems like an obvious approach for novice users
- Google Earth is a popular, freely available tool
- KML format is widely used and easily convertible





- place marks for
 - linguistic archives
 - language sites
 - entry point for sets of resource bundles



Easy as Geography – Google Earth Overlays



 place marks can be enriched with introductory texts, photos and direct links to the MPI archive

Yell Draye

Second Disord Molarados

Yell Draye (also known as Rossel, Yela, Yele, Yelejong, Yelethye) is a Papuan language spoken on Rossel Island, Louisade Archipelago, Pieus New Guines. Although surrounded by Austronesian language, Yell Draye shows little evidence of influence by then, making this language an solate. Yell Draye is known as the language with the world's most complex phonemic inventory.

Project leader is <u>Stephen Levinoon</u>

browselde corpus.

Language and Cognition Yell Draye webpage.

LEXUS example. 1 ANNEX example 2 ANNEX example 3. Pronests of bland Melanesia webpage.

Village on Rossel bland.

LEXUS and ANNEX example:

Village on Rossel bland.

LEXUS and ANNEX examples.



Back to the Communities Community Web Portals

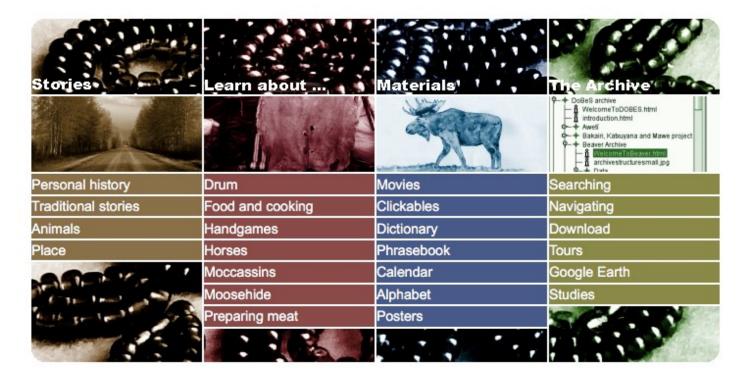


- attractive graphical design
- tailor-made for a specific language community
- open source CMS as back end
- communication with the MPI archive through REST interface



Back to the Communities – Community Web Portals









Word for word navigation LEXUS

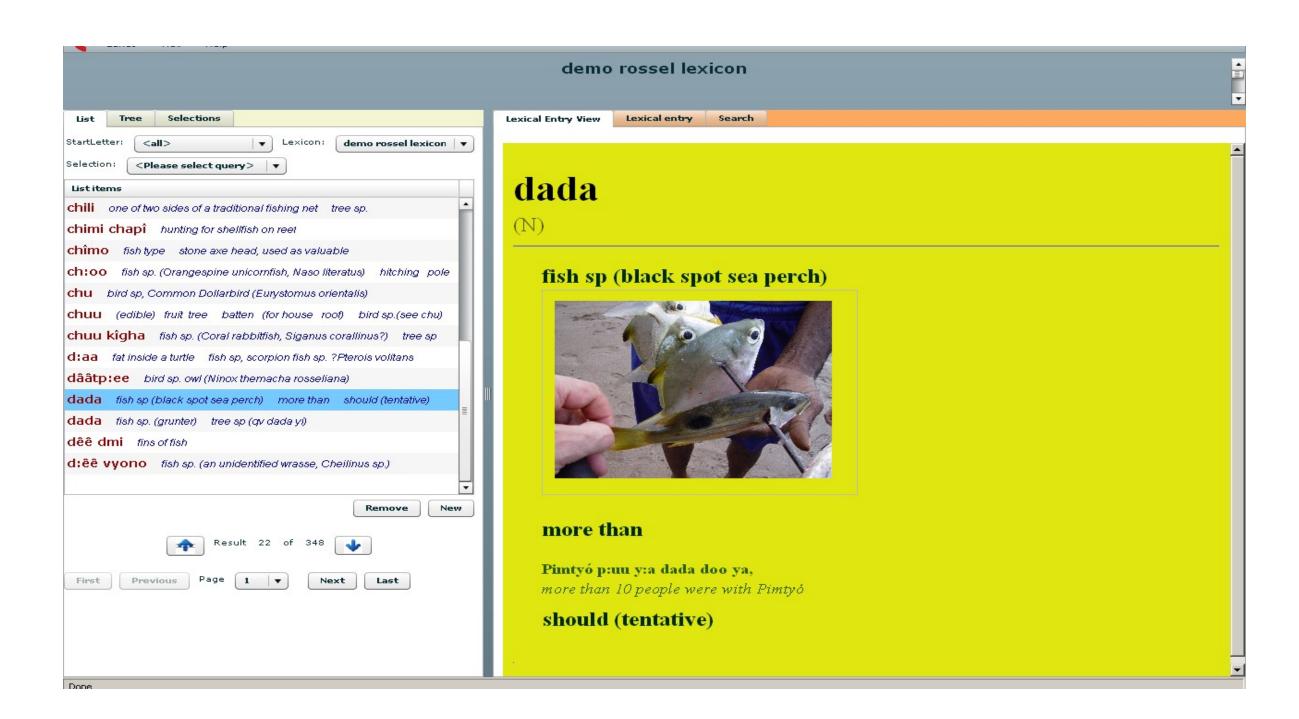
Word for word navigation - LEXUS



- web-based tool for creating & editing lexica
- complies to LMF ISO standard
- but still very flexible
- lexical entries can be enriched with multimedia (video, audio, photos)
- multimedia can simply be linked from the archive



Word for word navigation - LEXUS







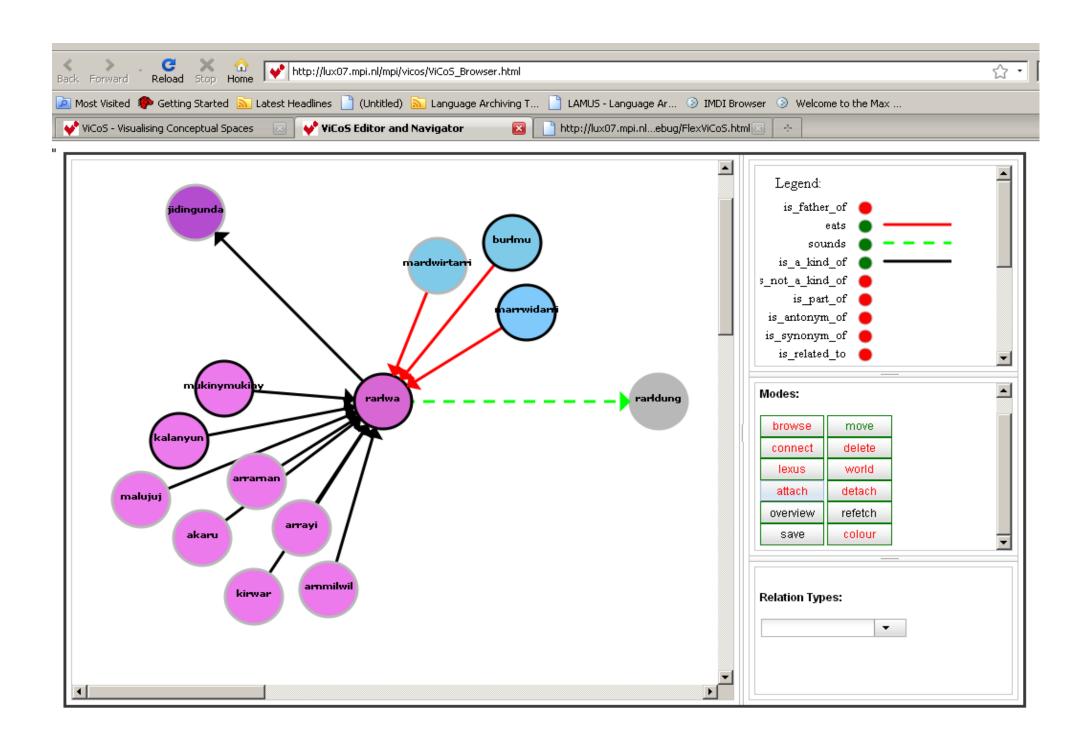
Browsing Concepts ViCoS



- supplement to LEXUS
- also web-based
- users can link concepts
- a number of "universal" relation types are provided
- users can define their own culture-specific relations
- idea is to bring indigenous people onboard



Browsing Concepts - ViCoS



Conclusion



- diverse data in the MPI archive
- different user groups want access
- (open) IMDI standard and REST interfaces make different ways of accessing possible
- MPI tries to create alternative access methods customized for specific groups





Archiving instance, Max Planck Institute for Psycholinguistics

Archive managers: 3

Archive developers: 2

System manager: 1

Archiving software development: 4

Enrichment software development: 4

Archive for language data:

40 Terabyte of data

400.000 archived objects





Max Planck Institute for Psycholinguistics

