

Charting Vanishing Voices: A Collaborative Workshop to Map Endangered Oral Cultures

World Oral Literature Project
2012 Workshop
CRASSH, Cambridge



Sustainable Solutions for Endangered Languages Data: The Language Archive

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Topics



- Introduction
- Sustainable data from linguistic fieldwork
- The Language Archive (TLA) @ MPI-PL
- Language Archiving Technology (LAT)
- Open access, legal & ethical issues
- Summing up: key challenges for sustainable data



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Introduction: TLA



- Work of the Technical Group at the Max-Planck-Institute for Psycholinguistics in Nijmegen
- Now a new unit @ MPI: “The Language Archive”
- First as institutional solution for digital data (experiments, CHILDES, ESF-SL, fieldwork)
- From 2000 on: Central archive and technical centre of the DOBES programme (documentation of endangered languages)
- Integration with other centers and European data and research infrastructures



Introduction: DOBES



- Initiative by the VolkswagenStiftung together with German linguists
- DGFS summer school 1993, first DOBES call 1999
- Independent research teams, steering committee, advisory boards
- The heart is one central technical project and archive at the MPI Nijmegen, now “TLA”
- Total of ca. 65 individual projects (28Mio €) on about 90 target languages
- Programme will end around 2016 (>15 years)



DOBES main features:

- Focus on data (linguistic analysis, revitalization and other activities welcome but additional)
- Language documentation in cultural context
- Interdisciplinary (e.g., Anthropology, Music-ethnology, Archaeology...)
- Partnership with community, training
- Emphasis on legal and ethical questions
- Common methodology and workflow
- Dissemination of language documentation (training courses, workshops, book)



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Sustainable data from linguistic fieldwork



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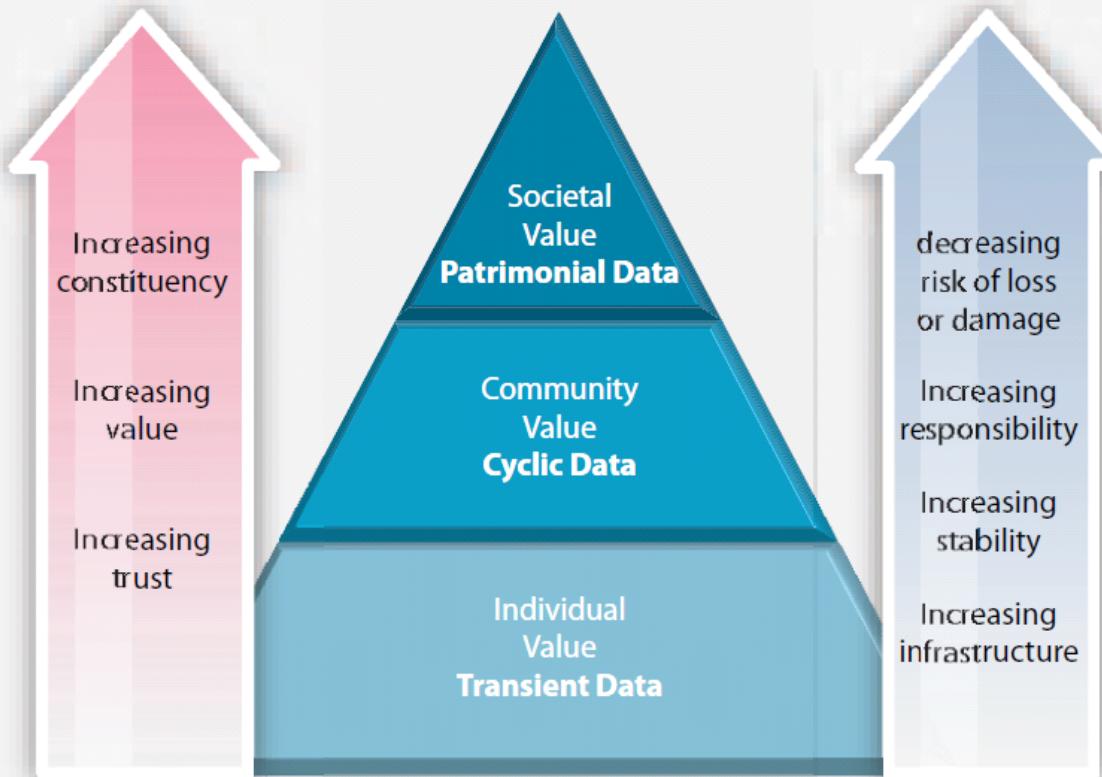
The data pyramid - a hierarchy of rising value and permanence

Digital Data Collections

Reference,
nationally and
internationally
important,
irreplaceable
data collections

Key research and
community data
collections

Personal data
collections



Repositories/ Facilities

National- and
international-scale
repositories,
libraries, archives

"Regional" - scale
libraries and
targeted data
archives and
centers

Private
repositories

Source: Adapted from Francine Berman, UC San Diego, in Communications of the ACM.

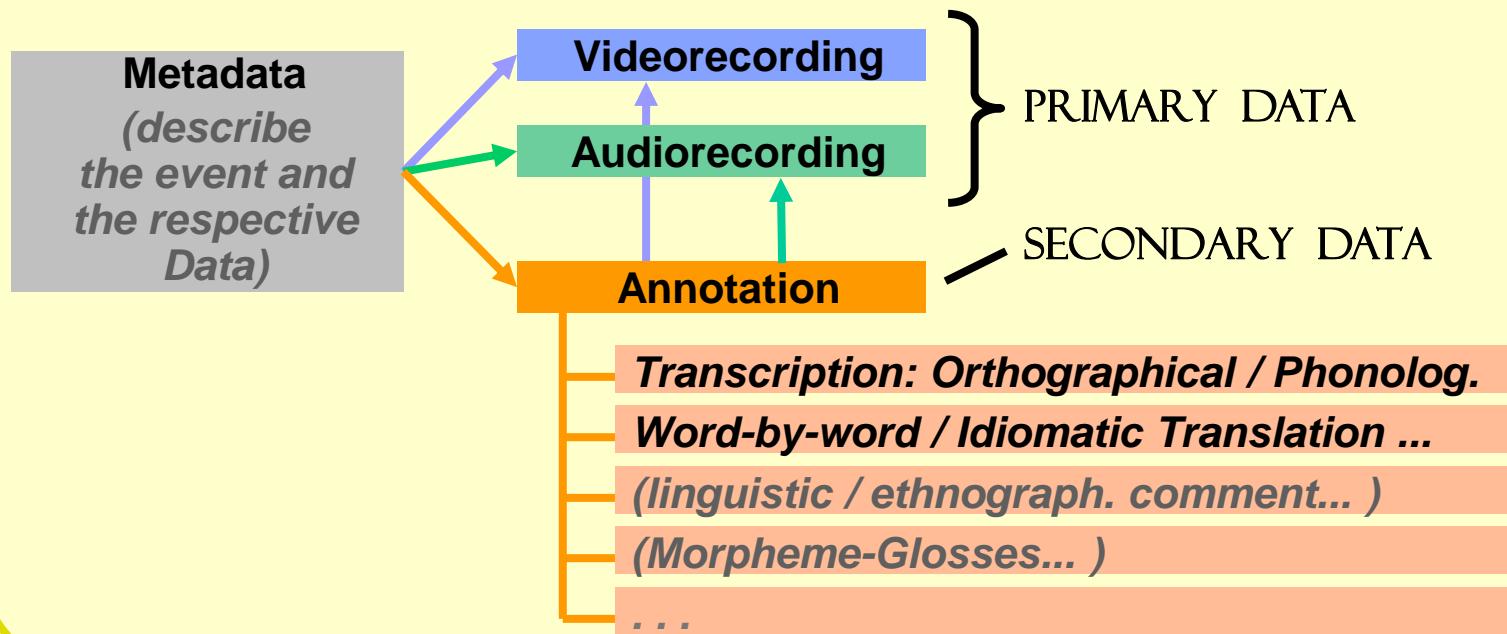


Sustainable data from linguistic fieldwork



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SESSION





Challenge of *sustainability*:

- *Physical level*: limited lifetime of carriers
→ constant copying and replacement of carriers
- *Logical level*: limited lifetime of formats
→ adherence to standards (Unicode, XML, open formats), constant updating of encodings
- Careful with transformations (lossy encodings, artefacts being introduced...), provenance info

Physical archives: “don’t touch!”

Digital archives: “touch frequently”



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- Currently: 80TB data in well-structured sessions
- PIDs (DOI / Handles) for all resources (versions), checksum... , implementing policy rules
- Data on ca. 200 languages, & CHILDES, Dutch...
- DOBES: 25TB on ca. 60 languages
- All data is online accessible (with access rights)
- Software and infrastructure development depends on project funding
- Establishing “The Language Archive” aims at a long-term perspective for a sustainable archive

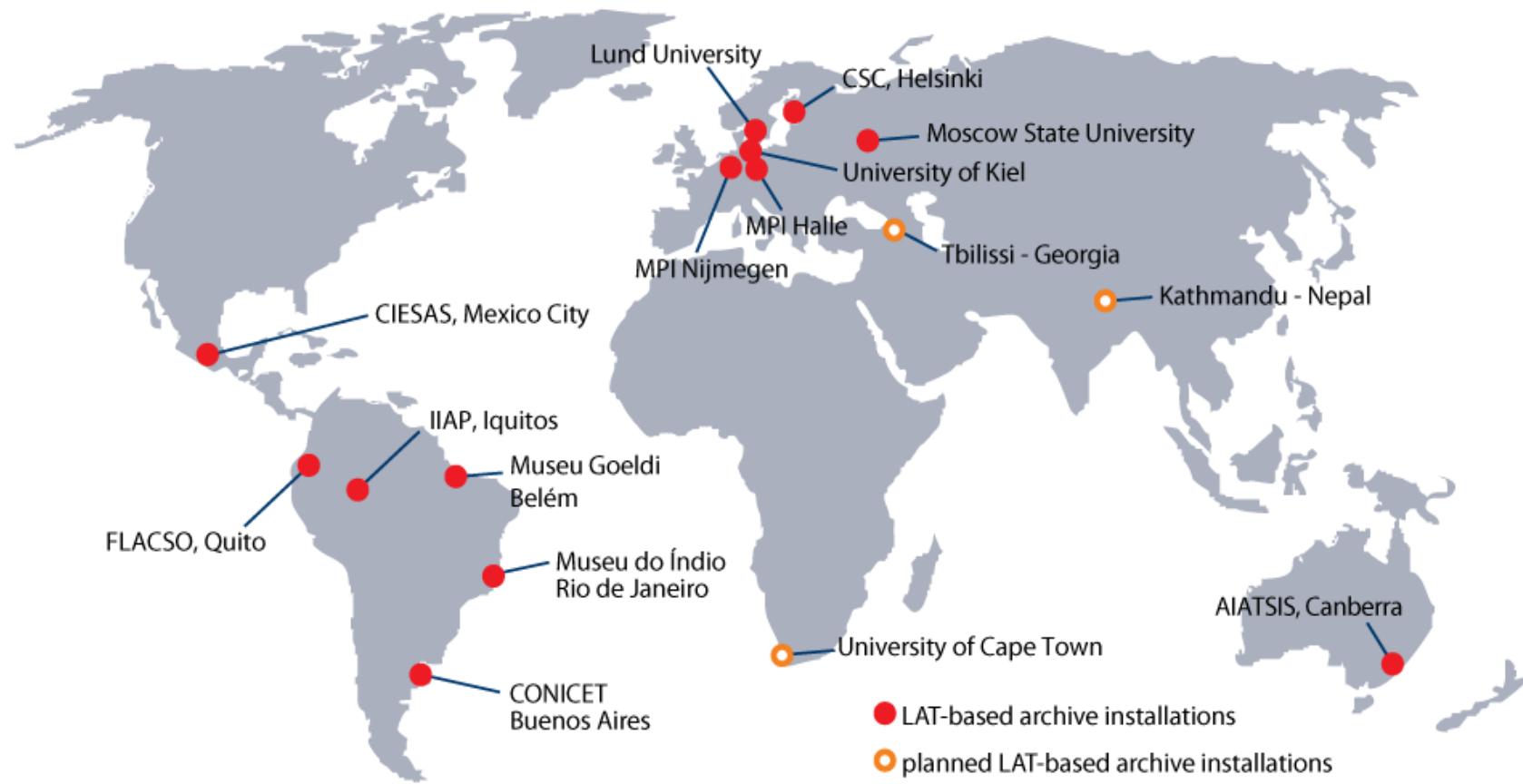


DOBES field sites





“Regional” LAT archives





The Language Archive (TLA) @MPI-PL

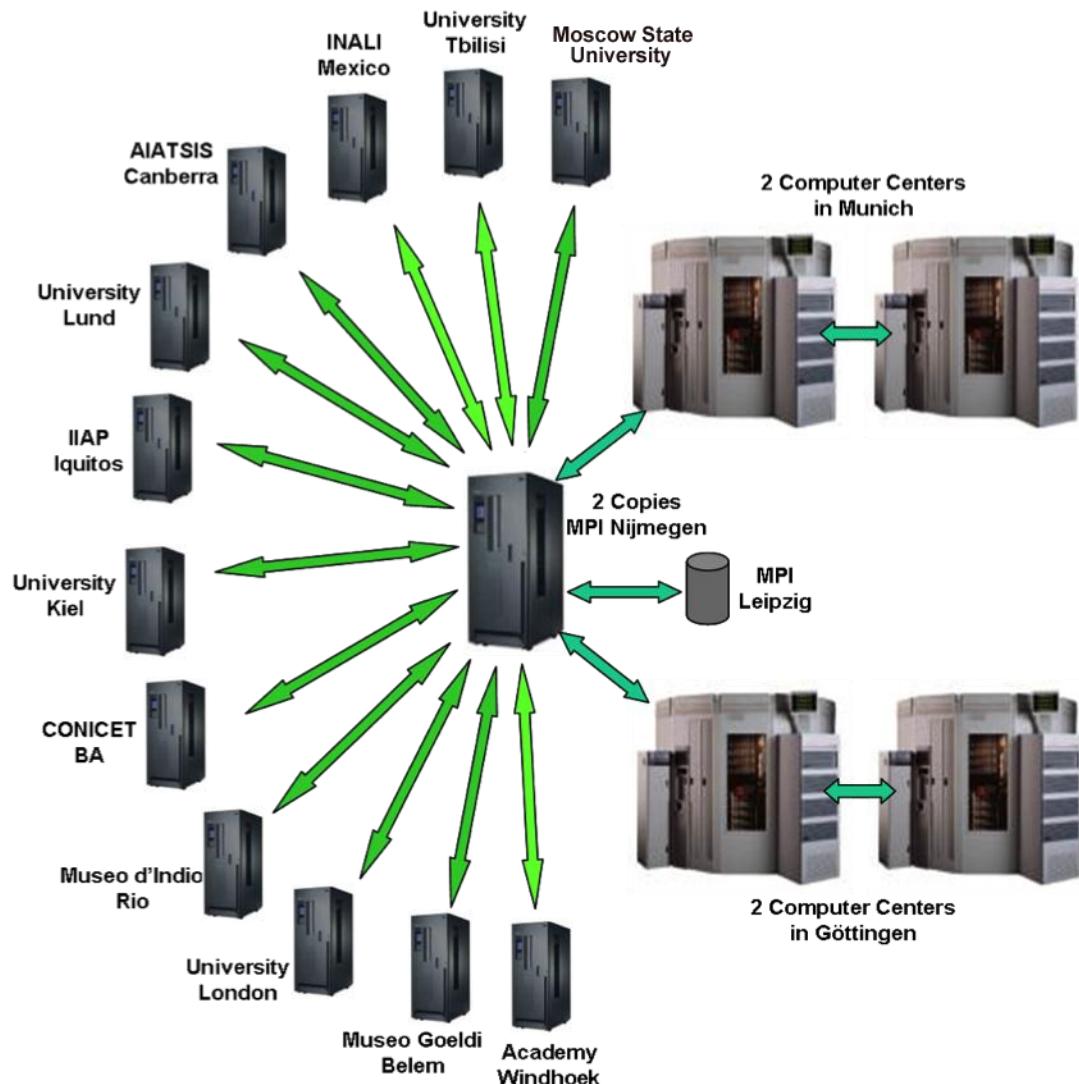


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Growing number
of archives using LAT

Six automatic full copies
at three locations
in Germany

Institutional guarantee
for bitstream-preser-
vation by the MPG
for 50 years





- Primary data: uncompressed PCM audio, MPEG video, in future jMPEG2000 (lossless compressed)
- Secondary data: Elan Annotation Format (XML-based, Unicode), “standard format” (Toolbox), and other open formats, also PDF
- Metadata: IMDI standard (in future: CMIDI)
- Based on an integrated set of tools for archive administration and access, the “Language Archiving Technology” (LAT) suite of tools
- Regional archives based on LAT are being set up



Collaboration in larger projects (applying LAT):

- Leading role in different EU projects working on developing e-science infrastructure for the humanities (digital humanities / “eHumanities”)
- CLARIN (Common Language and Technology Research Infrastructure): Lang. Res. & Techn.
- DASISH (Data Service Infrastructure for the Social Sciences and Humanities)
- European Strategy Forum on Research Infrastructures (ESFRI)
- Cooperation outside Europe (DELAMAN, RELISH)



Topics



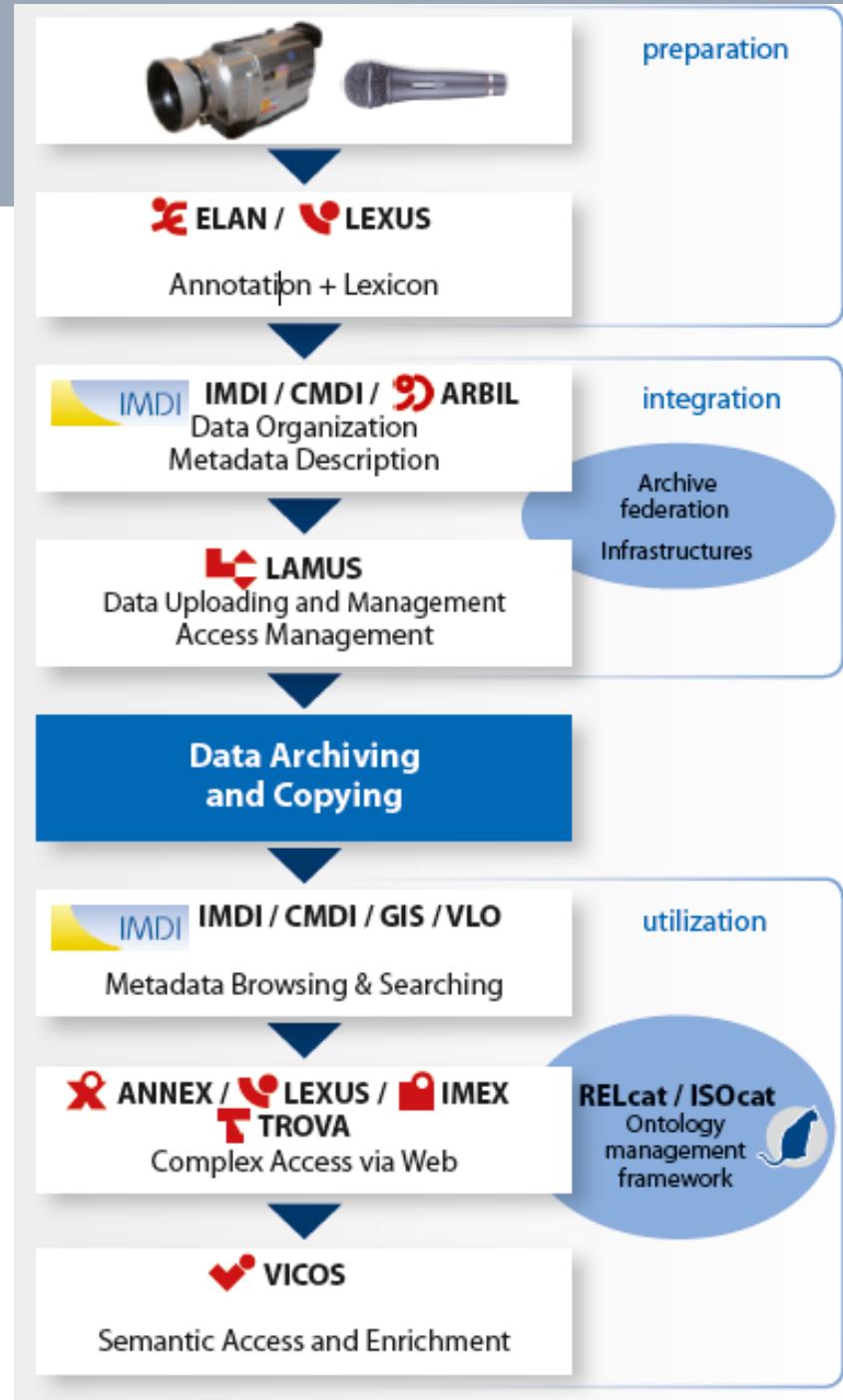
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Language Archiving Technology (LAT)

tool	state
LAMUS	mature
AMS	mature
IMDI	oldish
ARBIL	mature
CMDI	in progress
ELAN	mature
ANNEX	mature
IMEX	mature
TROVA	mature
LEXUS	redesign
VICOS	redesign
ISOcat	mature
Bridge	started
ADDIT	taken out





Language Archiving Technology (LAT)



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IMDI-Browser

settings manual register user: seba@mpi.nl login logout

Session

Name 026_autobiogr
Title 026 tells the story of his life
Date 2002-06-20

Description

An autobiographical relatory given by 026, one of the older men of the village.
There is an audio and a video recording to this session.
The main part of the session is on media files 026_autobiogr2.wav and 026_autobiogr2.mpg. Introductory and concluding remarks are on separate media files.

Location

Project Aweti

Keys

Path in BrowsableCorpus BrowsableCorpus\MatFromLangCult\LinguisticData\NonElicited\Monological\Biographies
Path in Archive .\fr-Ing-clt\ling\monolog\biogr\
basic annotation Port. only

Content

Actors

Description

SD asks the consultant, 026, to tell his autobiography.
017 translates between SD and 026.

Aweti

- From Language and Culture
- Cultural Data
- Linguistic Data
 - Dialogical
 - Elicitation
 - Monological
 - Biographies
 - 010_autobiogr
 - 025_autobiogr
 - 026_autobiogr
 - 026_autobiogr1.mp4
 - 026_autobiogr1.mpg
 - 026_autobiogr1.wav
 - 026_autobiogr2.mp4
 - 026_autobiogr2.mpg
 - 026_autobiogr2.wav
 - 026_autobiogr3.wav
 - 026_autobiogr-2.eaf
 - 026_autobiogr-2.txt
 - 043_autobiogr
 - 046-marriage
 - Descriptions
 - Explanations
 - Narratives-083
 - Narratives-157
 - Procedural
 - Word lists
 - Bakairi, Katxuyana and Mawe project
 - Bakola
 - Baure
 - Beaver Archive
 - Cashinahua project
 - Chaco languages
 - Chintang and Puma Documentation Project
 - Chipaya project



Language Archiving Technology (LAT)



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ANNEX manual ? embed settings user: seba@mpi.nl logout

Text

Grid

Subtitle

Waveform

Timeline

Combined

Video display min

Media information min

Resource: 026_autobiogr-2.eaf
Media file: 026_autobiogr2.m4a
Elapsed time: 00:00:12:900
Selected chunk:
Begin time: 00:00:04:484
End time: 00:00:08:220
Text: kype i'atu ti a'yn , kype me

Mini Data Frame min

(ite te) itemoajpu a'yt kype a'yn
itemoaiпу a'yt kype a'yn **kype i'atu ti**
a'yn , kype me kype jatā net itā kitā
na'yt ne tazu'jyt tetam 'etu jatā pe a'yn
nanype a'ang a'yt i'atu a'yn kype mejka
itekozokotu a'yt kaminu'azan net
itekwahapu jatātsu ika'akwahapejutu
mā 'jyt katu met akwawap wā a'yn
akwawap 'jyt jatā [mune] mā'jy[t]katu

Tier: Sort@026

Font size: 14

Timeline

Play selection

Clear selection

< > << >> < > + -

00:08:500 00:00:09:000 00:00:09:500 00:00:10:000 00:00:10:500 00:00:11:000 00:00:11:500 00:00:12:000 00:00:12:500 00:00:13:00

SmngP@026 isso se chama a aldeia da formiguinha

Sort@026 jatā net itā kitā na'yt ne tazu'jyt tetam 'etu jatā pe a'yn

com@026

ref@026 4



Language Archiving Technology (LAT)



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Mozilla Firefox

File Edit View History Bookmarks Tools Help New Window

Back Forward Reload Stop Home http://lux07.mpi.nl/mpilexusDojo/Lexus.html

Getting Started Latest Headlines Language Archiving ... LAMUS - Language A... IMDI Browser

Lexus View Help

Wichita corrected glottal stop

List Tree Selections

StartLetter: <all> Lexicon: Wichita corrected g

Selection: <Please select query>

List items

hahr

hahrDa

hahri

hahris

hahwi:ri

haik

hakDa

hakDaic

Remove New

Result 12 of 2577

First Previous Page 28 Next Last

Lexical Entry View Lexical entry

hahri vis
be angry

01 né?ati:cháris
he is angry
né?at ta i2 uc hahri s2
bad pres pfocat predat angry imp

02 né?ataki:cháris
I am angry
né?at ta kif uc hahri s2
bad pres oneob predat angry imp

03 ne?ah ke:ki:cháris
I will be angry
né?at kef ki uc hahri s2
bad fut oneob predat angry imp

04 ne?ah ke:ki:cha:r?i

Advanced search — Max Planck Institute CallList - TG Wiki

File Switch to Help marquesan

http://corpus1....selectedIndex=0

Galerie de photos: Link between lexemes, photo galleries, photo captions and corresponding video clips

<switch lexicon> <grapheme> <filter>

Switch to structure view

Lexical entries

'apau kokomi médicament ; purge pour des bébés medicine ; purgative for babies galerie de photo

farao pain bread galerie de photo

halka 'eka kira médicament ; purge medicine ; purgative galerie de photo

halka 'epa médicament ; purge (femmes) medicine ; purgative (women) galerie de photo

halka hali vaeav médicament (jambe cassée) medicine (broken leg) galerie de photo

halka hō 'enana motua huile de massage massage oil galerie de photo

halka hō toiki huile de massage massage oil galerie de photo

halka ho'oi kivaka médicament (rein) medicine (kidneys) galerie de photo

halka ko'ē 'ehi médicament (bébé, fille) medicine (baby girl) galerie de photo

halka motō médicament (bébé, fille) medicine (baby girl) galerie de photo

halka pūtēna médicament (après accouchement) medicine (after birth) galerie de photo

halka putululu toiki médicament contre bobos medicine (spots) galerie de photo

halka tekēo īka médicament (empoisonnement) medicine (fish poisoning) galerie de photo

halka tōto mē'ama médicament (menstruation) medicine (menstruation) galerie de photo

Lexical entry Lexical Entry View

'apau kokomi

01



'apau kokomi

02



The Language Archive



Language Archiving Technology (LAT)



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ISocat

Welcome Guest Help

intransitive

My Workspace Public Thematic Views Metadata Morphosyntax Morphosyntax Basics Cases FormRelated MorphologicalFeatures Operations PartOfSpeech RegisterDatingFrequency Semantic Content Representation Syntax Language Resource Curation Lexicography Language Codes Terminology Multilingual Informatique Lexical Resources Lexical Semantics Translation Sign language Audio CLARIN-NL GOLD

search result for 'intransitive'

#	Name	Version	Administration	Registration status	Check	Type	Owned by
1322	Intransitive	1:0	private	private		simple	Declerck, Thierry
3080	AntiCausativeVoice	1:0	private	private		simple	gold-user
3427	Processive	1:0	private	private		simple	gold-user
3533	Transitivizer	1:0	private	private		simple	gold-user
3457	Repetitive	1:0	private	private		simple	gold-user
3247	ImpersonalPassiveVoice	1:0	private	private		simple	gold-user
3276	Intransitivizer	1:0	private	private		simple	gold-user
3548	Versive	1:0	private	private		simple	gold-user
1225	absolutive case	1:0	private	private		simple	Francopoulo, Dimitra
3003	light verb	1:0	private	private		simple	Francopoulo, Dimitra

Intransitive - 1:0

2. Description Section

Profile	Syntax
2.1 Language Section	
Language	English (en)
2.1.1 Name Section	
Name	Intransitive
Name Status	admitted name
2.1.2 Definition Section	
Definition	Refers to a verb that does not take a direct object; that is, to a verb that does not express an action which directly affects another person or thing.
Source	www.southwestern.edu/~carlg/Latin_Web/glossary.html
2.1.3 Example Section	



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Open access, legal & ethical issues



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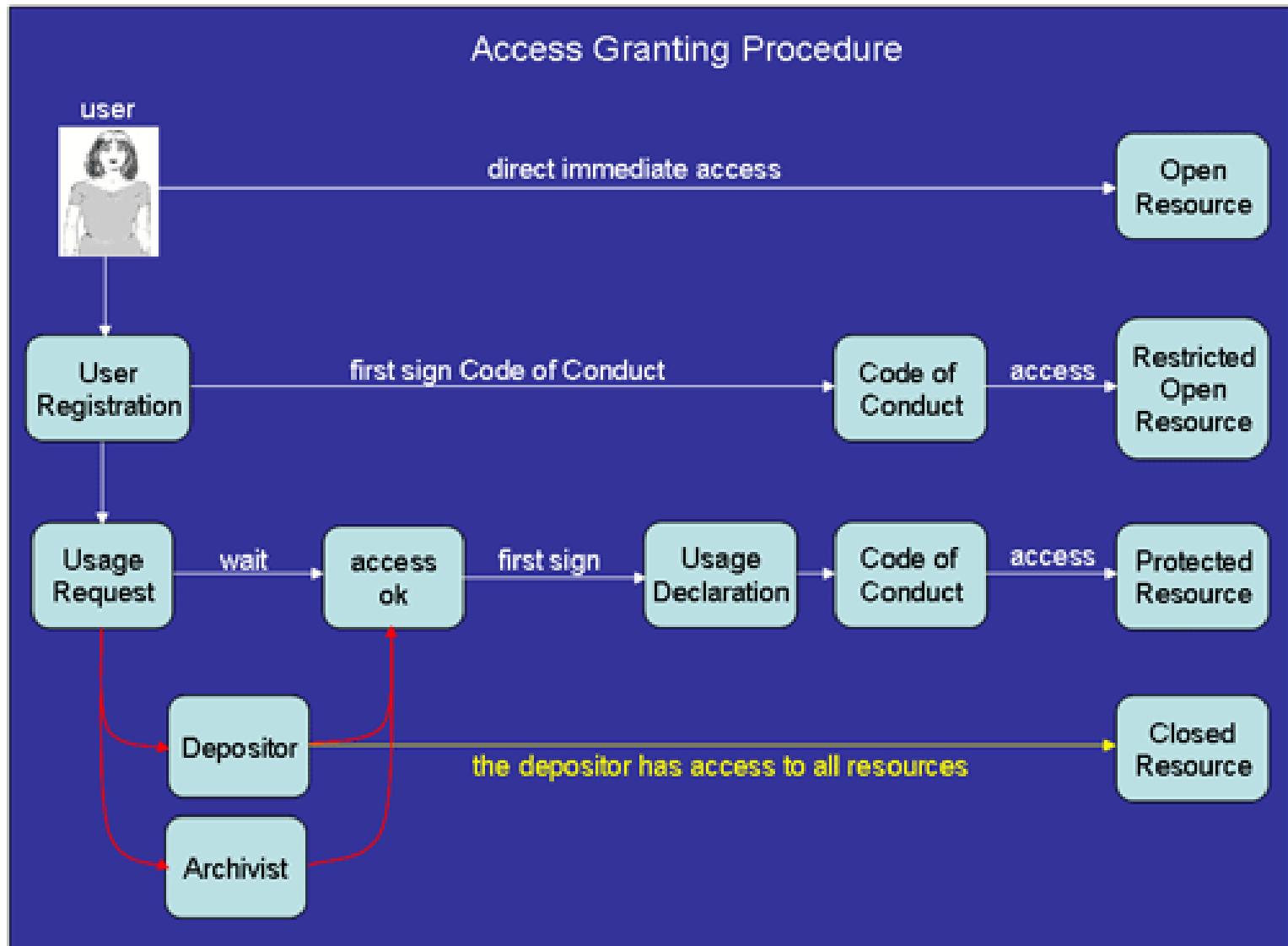
- Open access to research results *and data*
(Berlin declaration on Open Access to Scientific Knowledge)
- Accountability: EL data are irreproducible
- But: respect for privacy of human subjects
- Informed consent and anonymisation?
- Legal situation is complicated for all online-resources (national vs. international law etc.)
- DOBES: legal and ethical considerations are important (code of conduct, agreements, LAB)
- Trust between all parties is of key importance



Open access, legal & ethical issues



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Summing up: sustainable data



- Longevity:
 - (1) bit-stream → copies, migration,
 - (2) interpretability → standards, format update
- Access:
 - (1) identify & locate → metadata, search tools,
 - (2) retrieve & visualize content → access tools, download
- Public access: trust, Code of Conduct, responsibility, access management
- Provide data to the people we record: support for dedicated portals & enriched publications



Summing up: sustainable data



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- Maximum advantage of the access to data:
A language archive is just one component
in a digital research environment, interoperability
- Embed our analyses in accessible data: planned
authoring environment for scholarly work
- Standards-conformant formats: good and useful
tools will attract users (ARBIL, ELAN, in future
with semi-automatic interlinearization function,
possibly integrated with LEXUS, LMF, ISOcat)
- Support for most stages in the lifecycle
of language documentation data

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