

# DAM-LR

## Distributed Access Management for Language Resources

### overview

Peter Wittenburg  
MPI for Psycholinguistics

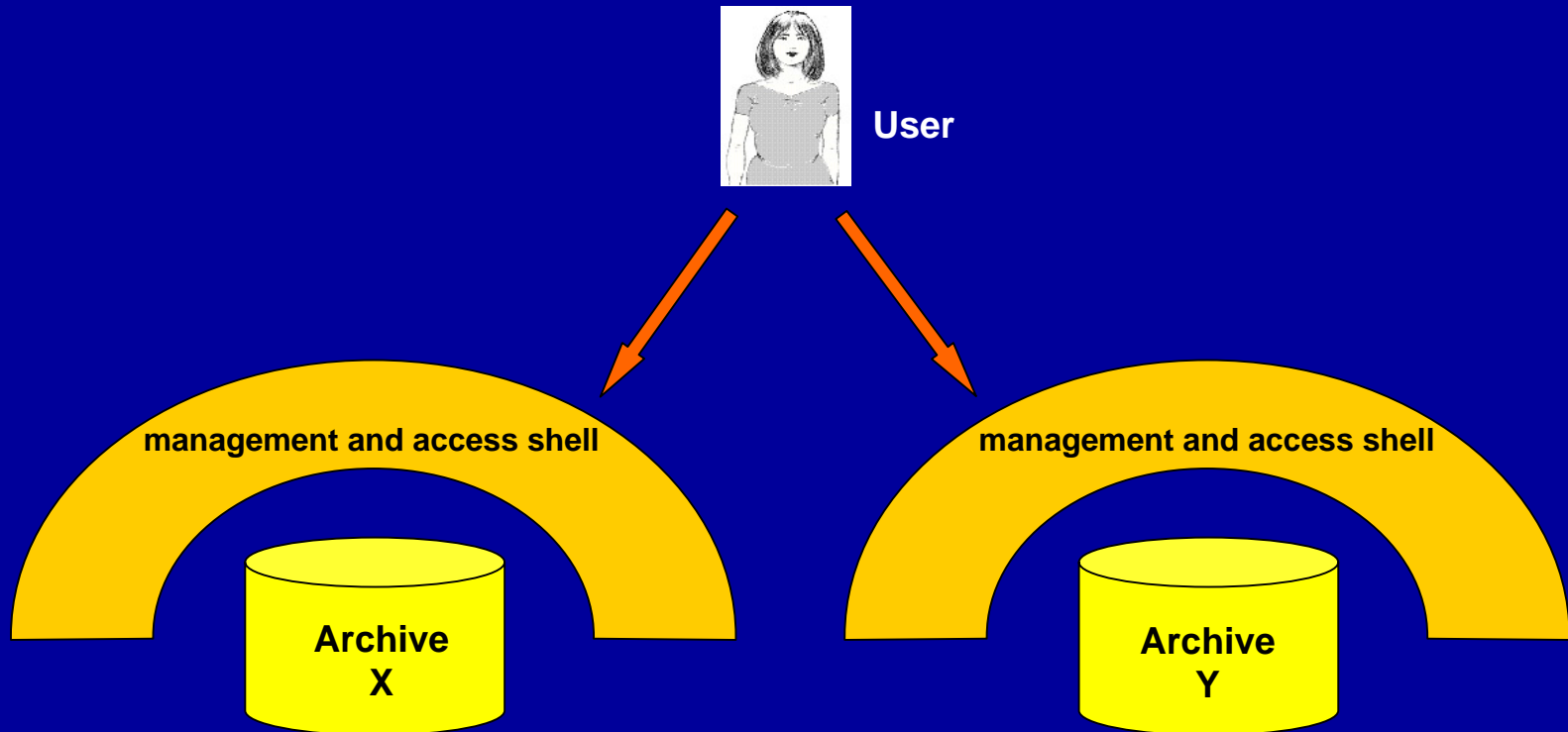
# What is it about?

---

- joining LR archives from the users perspective
- interoperability at the organizational and access level
- what are LR archives:
  - organized and dynamic collections of language resources
  - language resources have a certain status making them interesting for others and future generations

# Scattered Landscape

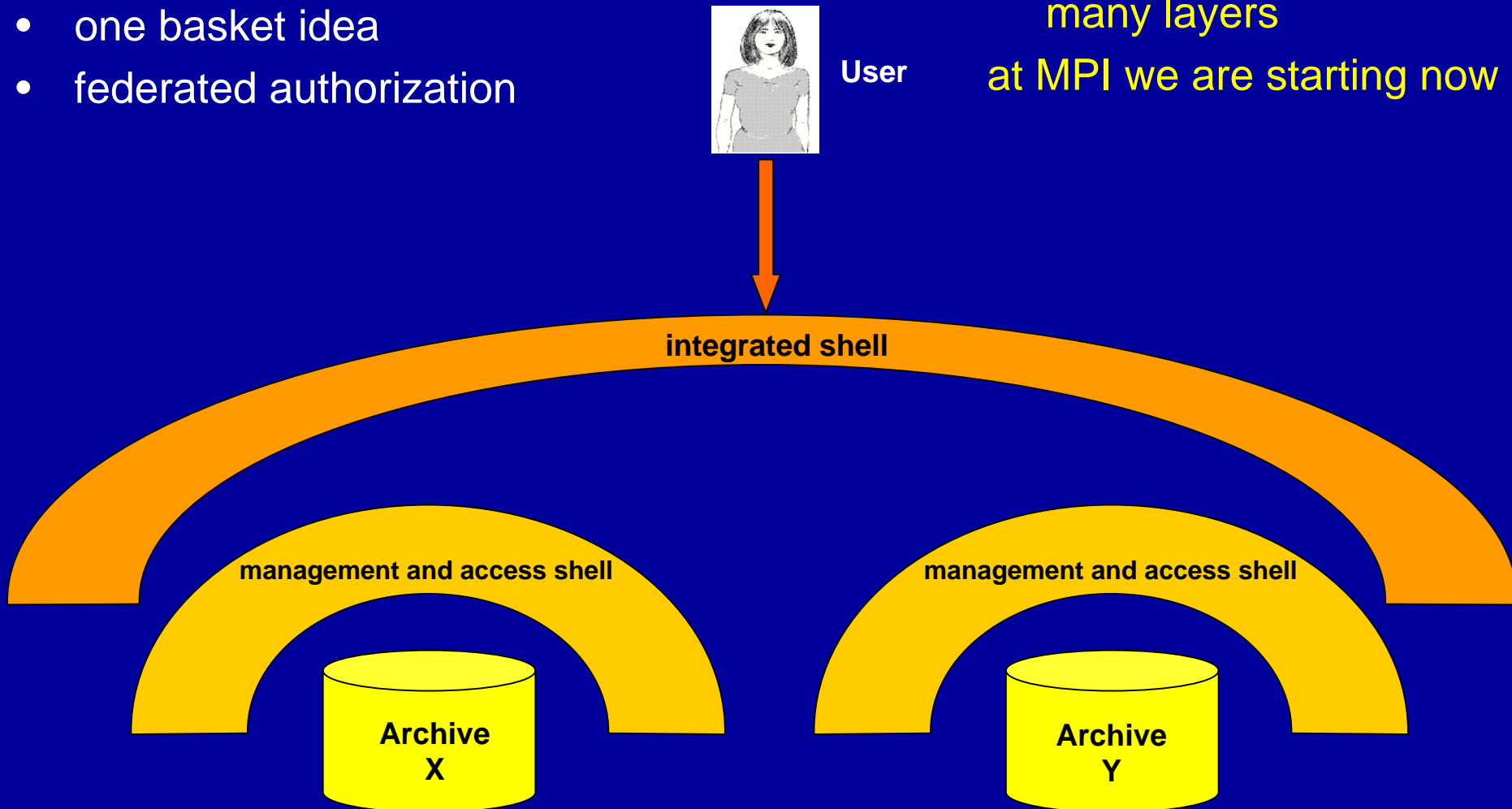
- lots of disadvantages
  - idiosyncratic ways of access management
  - several identities
  - no joint operations on archival content
  - etc



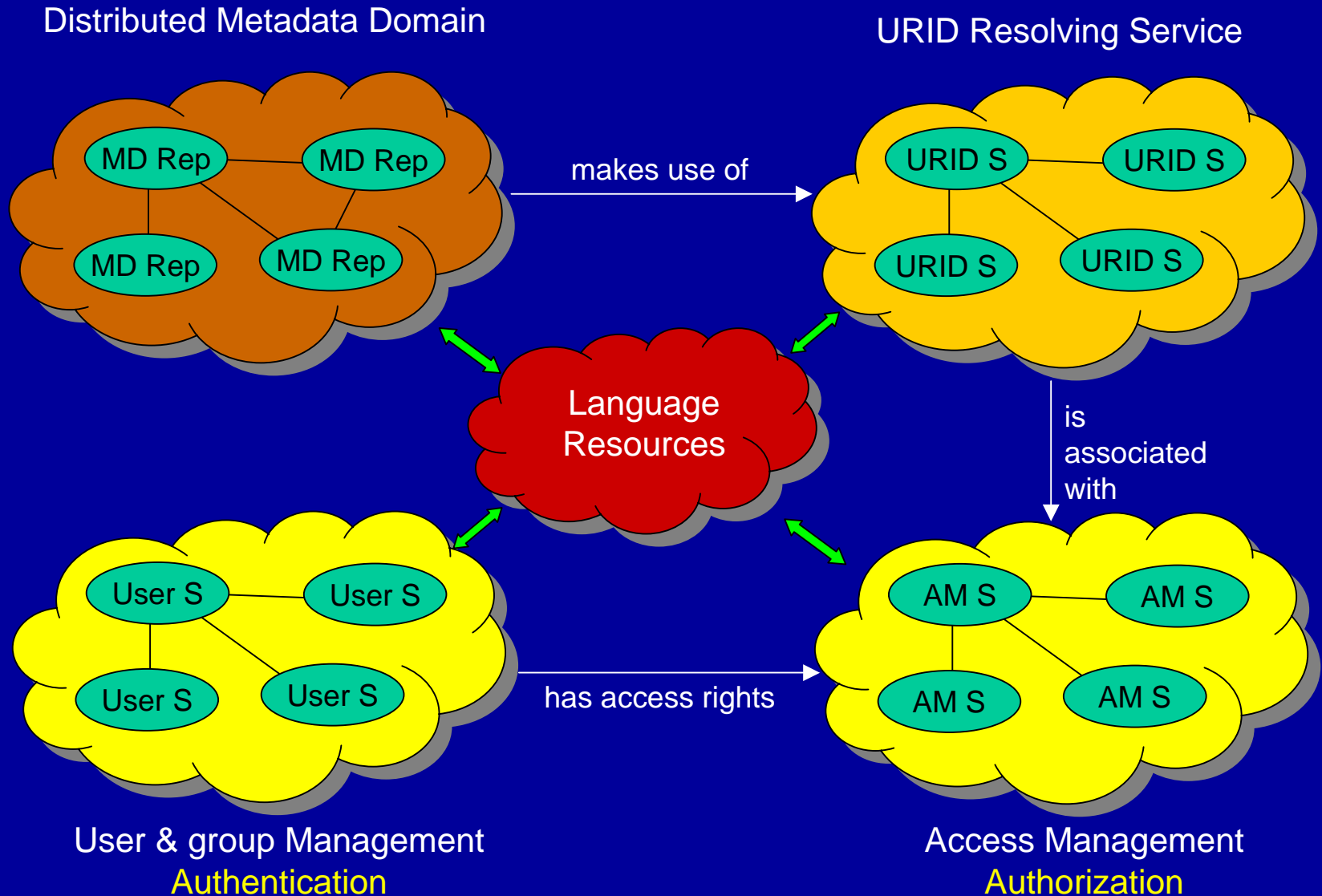
# Integrated Landscape

- single sign-on
- integrated metadata layer
- one basket idea
- federated authorization

way to true interoperability  
is long and includes  
many layers  
at MPI we are starting now



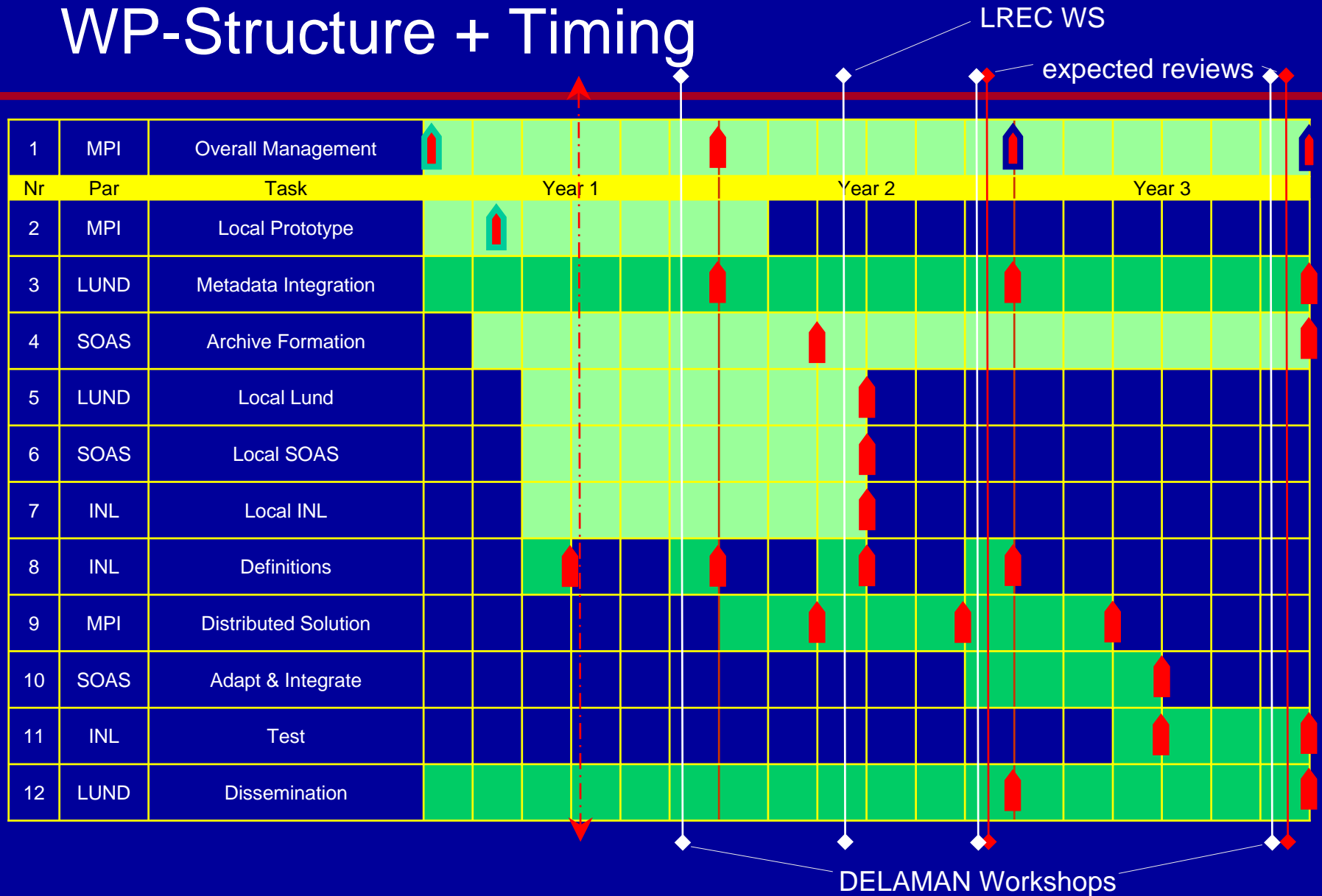
# Pillars of the Solution



# DAM-LR Project Goals

- joining the collections (or part of the collections) of
  - MPI
  - Lund
  - SOAS
  - INLin that way
- at the end: demonstrate this sort of access interoperability
- personally: MPI wants to continue that way, partners don't have to do
- it's along the goals of DELAMAN
- organization of DAM-LR chosen to solve the task

# WP-Structure + Timing



WP-Leaders: think, initiate, keep control of timing, write deliverables (you need content)  
 LREC is a MUST, DELAMAN Workshops as part of dissemination

# Deliverables

Deliverable	deadline	leader	partners	state
D1.1 Management Plan and Annual reports (1)	1.June	mpi	all	done
D1.1 Annual Reports (12/24/36)	December	mpi	all	
D2.1 Prototype (LAMUS+) Specification (3)	1.July	mpi		done
D2.2 Prototype final report (14)	1.Mar06	mpi		
D3.1 Metadata Integration Report (12/24/36)	1.Jan06	lund	all	
D4.1 Archive Formation Report (16/36)	1.May06	soas	all	
D5.1 Lund Archive (18)	1.July06	lund		
D6.1 SOAS Archive (18)	1.July06	soas		
D7.1 INL Archive (18)	1.July06	inl		
D8.1 Definition Report (6/12/18/24)	1.Sept05	inl	all	to come
D9.1 Distributed Solution Specification Report (14)	1.Mar06	mpi	all	
D9.2 DS Infrastructure (20/28)	1.Sept06	mpi	all	
D10.1 Adapt&Integration Report (30)	1.July07	soas	all	
D11.1 Test Scenario Report (30)	1.July07	inl	all	
D11.2 Final Test Report (36)	1.Jan08	inl	all	
D12.1 Training Plan (24)	1.Jan07	lund	all	
D12.2 Training Report (36)	1.Jan08	lund	all	

- have to come in time!!!! – delays create trouble
- Work reports: 31.12.05, 31.12.06, 31.12.07
- Financial reports: 31.12.06, 31.12.07

# WP1 – Management (MPI)

<b>Objectives</b>	The overall management has to setup proper <b>communication channels</b> incl. a <b>web-site</b> , to <b>keep track of all work</b> carried out in DAM-LR, to assure that the goals and milestones are met and that the deliverables are finished in time. Further, the <b>interaction with the PO</b> will be handled.		
<b>Description of Work</b>	The <b>Executive and the Working Committees</b> will be built and appropriate communication channels ( <b>Email-lists, web-site, web-forms</b> ) will be established. Overall Management will take care that <b>regular meetings of the EC and WC</b> will be organized and <b>minutes</b> will be distributed. The contribution of all partners will be monitored. At the specified time points <b>cost statements and project reports</b> will be written and sent to the PO. To carry out this work personnel will be hired and travels have to be organized.		
<b>Milestones:</b>	<ol style="list-style-type: none"> <li>1. A <b>management plan</b> will be presented at T1 that includes a communication plan.</li> <li>2. A project <b>web-site</b> will be created until T2</li> <li>3. <b>Intermediary reports</b> will be presented at T12/24 to assess the overall state of the DAM-LR project.</li> </ol>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D1.1	Management Plan and Annual Reports ( <b>done</b> )	T1/12/24/36	PU

# WP2 – Local Prototype (MPI)

<b>Objectives</b>	<p>A <b>prototypical access management solution</b> will be developed that can serve as <b>reference installation</b> for all partners. It will contain solutions for the four essential pillars: <b>browsable and searchable metadata, unique resource identifier, access management, user management</b>. Training sessions will be done to inform the partners about the essentials of the solution.</p>		
<b>Description of Work</b>	<p>An <b>international workshop</b> about current software approaches to implement the DAM-LR goals will be organized in the preparation phase and evaluated. Based on these discussions <b>decisions will be taken about suitable components</b>. The metadata setup will be based on the working <b>IMDI framework</b>, for the <b>URID, access and user management suitable frameworks will be selected</b>. These will be installed, integrated and where necessary adapted. Mainly developers and IT managers will take part in this task to develop a prototypical solution for the essential components. Some travels will have to be organized for technical interaction purposes.</p>		
<b>Milestones:</b>	<ol style="list-style-type: none"> <li>1. At T7 the first version of the <b>access management prototype</b> will be presented.</li> <li>2. <b>Project workshops will be organized to disseminate</b> the knowledge within the project.</li> <li>3. The <b>final prototype</b> will be delivered at month T14.</li> </ol>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D2.1	Prototype Specification <b>(done)</b>	T3	PU
D2.2	Prototype Final Report <b>(could be written now)</b>	T14	PU

# WP3 – Metadata Integration (LUND)

<b>Objectives</b>	The participating archives have to see that they <b>setup their metadata frameworks</b> , take care that the metadata is interoperable and that the metadata can be integrated to <b>form one browsable and searchable domain</b> . <b>IMDI will play a major role for the integration</b> . At various times new metadata will be added to the domain by the partners.		
<b>Description of Work</b>	In a workshop the IMDI metadata concept and framework will be explained. Each partner has to <b>setup his metadata infrastructure and adapt to the overall IMDI domain</b> . Each partner can <b>decide to have an own portal</b> . Metadata descriptions of the repositories will be added dependent on the policies of the archives <b>during the whole funding period</b> . Different types of persons will be involved: developers to setup portals and metadata technology and to integrate the metadata repositories, archive managers to create archive structures and to train users, student assistants to create metadata, check their correctness and integrate it.		
<b>Milestones:</b>	After 12 months an integrated metadata domain has to be achieved.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D3.1	Metadata Integration Report	T12/24/36	PU

# WP4 – Archive Formation (SOAS)

<b>Objectives</b>	Each partner has to <b>setup a local archiving system</b> and has to <b>document the decisions</b> to the partners. The archival system will be maintained throughout the course of the project.		
<b>Description of Work</b>	Each partner will setup an <b>operational archive infrastructure</b> that ranges <b>from hardware to administrative issues</b> . With respect to almost all decisions the archives must be <b>free in choosing their setup</b> . Each partner will setup a <b>complete system</b> . During the course of the project the archives will be extended, <b>automatic copying</b> will be carried out, <b>migration to new storage architectures</b> will be carried out, <b>access rights management systems</b> will be implemented, <b>web-services</b> will be setup as well as many other things that are characteristic for professional archives. In this task money will be spent for various different aspects ranging from <b>setting up storage architectures to hiring system managers and other highly qualified IT personnel</b> .		
<b>Milestones:</b>	After 12 months each partner will demonstrate an archival system. After 16 Months the archival systems should be operational.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D4.1	Archive Formation Report	T16/36	

# WP5 – Local LUND (LUND)

<b>Objectives</b>	<p>The task is to <b>install a local solution for all four major access management pillars</b> for the Lund archive such that it can be <b>integrated later into the distributed solution</b>. The decisions taken by the archive have to be documented to the other partners and it is LUND's responsibility to take care that compatibility can be achieved later.</p>		
<b>Description of Work</b>	<p>The <b>prototypical solution developed in WP2 will be studied carefully</b> to fully understand the components, their interaction and the way how the distributed solution can be achieved. LUND will have to take the decision whether it will <b>take over the prototype</b> or whether it will <b>vote for another solution</b>. In the second case LUND is fully responsible to <b>solve for adequate interfaces to later hook up to the distributed solution</b>. LUND will hire personnel, organize training courses if necessary, reserve funds for knowledge transfer and similar activities that are necessary to either take over the prototypical or install another solution.</p>		
<b>Milestones:</b>	<p>After 8 months basic decisions about the type of local solution have to be taken. After 12 months the specifications have to be documented.</p>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D5.1	Lund Archive	T18	PU

# WP6 – Local SOAS (SOAS)

<b>Objectives</b>	<p>The task is to install a local solution for all four major access management pillars for the SOAS archive such that it can be integrated later into the distributed solution. The decisions taken by the archive have to be documented to the other partners and it is their responsibility to take care that compatibility can be achieved later.</p>		
<b>Description of Work</b>	<p>The prototypical solution developed in WP2 will be studied carefully to fully understand the components, their interaction and the way how the distributed solution can be achieved. SOAS will have to take the decision whether it will take over the prototype or whether it will vote for another solution. In the second case SOAS is fully responsible to solve for adequate interfaces to later hook up to the distributed solution. SOAS will hire personnel, organize training courses if necessary, reserve funds for knowledge transfer and similar activities that are necessary to either take over the prototypical or install another solution.</p>		
<b>Milestones:</b>	<p>After 8 months basic decisions about the type of local solution have to be taken. After 12 months the specifications have to be documented.</p>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D6.1	SOAS Archive	T18	PU

# WP7 – Local INL (INL)

<b>Objectives</b>	The task is to install a local solution for all four major access management pillars for the INL archive such that it can be integrated later into the distributed solution. The decisions taken by the archive have to be documented to the other partners and it is their responsibility to take care that compatibility can be achieved later.		
<b>Description of Work</b>	The prototypical solution developed in WP2 will be studied carefully to fully understand the components, their interaction and the way how the distributed solution can be achieved. INL will have to take the decision whether it will take over the prototype or whether it will vote for another solution. In the second case INL is fully responsible to solve for adequate interfaces to later hook up to the distributed solution. INL will hire personnel, organize training courses if necessary, reserve funds for knowledge transfer and similar activities that are necessary to either take over the prototypical or install another solution.		
<b>Milestones:</b>	After 8 months basic decisions about the type of local solution have to be taken. After 12 months the specifications have to be documented.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D7.1	INL Archive	T18	PU

# WP8 – Definitions (INL)

<b>Objectives</b>	Basic agreements and specifications about solutions of the major 4 components documented carefully. In particular, decisions about interfaces have to be documented. They will serve as reference documents.		
<b>Description of Work</b>	The task is to monitor and document all decisions and specifications by the partners that are relevant to the goal of the project in a unified manner. All specifications that were made during the project have to be documented such that other interested parties can take over the solution. Explicitness has to be requested where decisions and motivations are not transparent. The work will have to be carried out by software developers and IT managers. Some interaction will be necessary, most of it can be done electronically. The work will have to be carried out at regular intervals.		
<b>Milestones:</b>	During the course of the project the state of formal definitions have to be monitored and at regular intervals the documentation has to be updated to represent the state of the work. At T6,T12 and T18 the state will be reported.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D8.1	Definition Report	T6/12/18/24	PU

# WP9 – Distributed Solution (MPI)

<b>Objectives</b>	The task is to come to a <b>distributed solution for the four basic pillars (metadata, URID management, access and user management)</b> that is based on the local solution worked out in WP2.		
<b>Description of Work</b>	The <b>distributed IMDI metadata solution</b> has to be adapted only slightly to meet the needs of DAM-LR. For the other 3 major components <b>optimal state-of-the-art components</b> have to be chosen. The components will be carefully <b>analyzed and tested</b> . After successful tests they will be <b>integrated to achieve an operational and integrated distributed system</b> . During the course of the development work it has to be indicated where and <b>how the local solutions have to be adapted</b> to meet the requirements of the DAM-LR integration. Software developers, IT Managers, archiving specialists and archive users will be involved to work out the specifications and carry out the development work. Travel money will be involved to achieve the necessary synchronization between the teams.		
<b>Milestones:</b>	At T14 a specification report will be presented that is based on the results of the prototype, of the analysis of existing software solutions and on the local solutions that are being implemented. At T20 a first prototype of the integrated solution will be demonstrated.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D9.1	Specification Report	T14	PU
D9.2	Infrastructure	T20/28	PU

# WP10 – Adapt + Integrate (SOAS)

<b>Objectives</b>	Dependent on the choices for the components for the distributed and the <b>various local solutions adaptations</b> have to be carried out to integrate the archives with respect to the four pillars. In particular, the <b>local solutions have to adhere to the specification of the interfaces</b> .		
<b>Description of Work</b>	The key components and interfaces of the emerging distributed solution will be analyzed carefully. It will be checked which <b>adaptation processes have to be carried out</b> in particular at the local systems to be able to carry out the integration work. Finally, the <b>necessary adaptations will be done</b> . This work will include software developers of different degree and IT managers. Also this task may include traveling to get the integration done. Knowing that adaptation and integration work is dependent on many parameters this task could take more person months as specified.		
<b>Milestones:</b>	After 24 months a description of the work to be carried out has to be available.		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D10.1	Integration Report	T30	PU

# WP11 – Test (INL)

<b>Objectives</b>	<p>The integrated distributed solution aimed at as the result of DAM-LR has to be <b>tested intensively</b> to find out whether it is fully operational. <b>Tests have to lead to adaptations</b> of the software used.</p>		
<b>Description of Work</b>	<p>A <b>test scenario</b> has to point to crucial aspects of the distributed DAM-LR solution and develop a test scenario. This includes the <b>type of tests</b> to be carried out in terms of <b>functionality and users</b>. According to this scenario description <b>tests will actually be carried out and the test results will be documented</b>. They will be communicated to the developers to <b>carry out the necessary adaptations</b>. Of course, testing and debugging will be carried out interactively in several steps. The work will be carried out by software developers of different qualification level. The communication can largely be done electronically.</p>		
<b>Milestones:</b>	<p>At month T30 a test scenario will be presented.</p>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D11.1	Test Scenario Report	T30	PU
D11.2	Final Test Report	T36	PU

# WP12 – Dissemination (LUND)

<b>Objectives</b>	<p>It is <b>one of the major goals</b> of the DAM-LR partners to <b>disseminate the knowledge and experience</b> to other interested parties. The idea is of course to <b>convince other relevant language resource centers to participate</b> in the emerging distributed solution to the benefit of the users. Also <b>users will be made aware</b> of the emerging solution and its attractiveness. <b>Training sessions</b> will be done at various occasions to train interested archivists and users.</p>		
<b>Description of Work</b>	<p>A <b>training and dissemination plan</b> will be established that will describe how the partners will transfer the knowledge and expertise to other interested resource centers and also users. While <b>users will mainly be addressed at conferences and meetings such as LREC</b>, for interested resource centers other methods such as <b>training seminars will be scheduled</b>. Different type of training courses will be required, i.e. different types of persons will be involved. There will be training courses by software specialists for other interested language resource centers, there will be courses for archive managers and courses for users. Training material has to be written that meet the needs of the different groups. Much travel effort will be involved.</p>		
<b>Milestones:</b>	<p>At T24 a training plan will be presented.</p>		
<b>Deliverable Number</b>	<b>Deliverables</b>	<b>Time</b>	<b>Dissemination Level</b>
D12.1	Training Plan	T24	PU
D12.2	Training Report	T36	PU

MPI has already a couple of interested parties to take over our solutions.

# And now?

---

Let's start!

Good luck for our collaboration 😊