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26th December 2004 to 25th June 2005

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2 Summary

This progress report covers the time frame 26th of December 2004 until 25th of June 2005. Deliverables starting in month 12 (= June 2005) have also been taken into consideration.

During the reporting period, a remarkable number of highlights may be pointed out: First of all the coordinating team is pleased to state that the workplan is still according to schedule and no deviations have occurred yet. Further on we experienced that the reUSE-service seems to meet a great request within public sector institutions: the positive feedback is enormous and the time is just right to provide solutions for long-term preservation of digital master files.

All partners also systematically contacted and informed public (and private) sector institutions as well as NGOs. Drafts for Submission Agreements have been made and the workflow is finally implemented and turned out as successfully. To cope with organisational and administrative issues, CRM-software-solutions and in-house developments came into consideration. At last each partner/demonstrator decided to use the system which best suited into already established workflows and the technical background as well.

In the reporting period also two project meetings have taken place: the Innsbruck-meeting in February mainly focussed on implementation matters whereas the June-meeting in Tallinn was occupied with the presentation of first results, worksteps and the discussion concerning the status quo particularly with regard to the progress report and review meeting.

From January to June 2005 mainly the following 4 working areas have been covered:

1. Work at the demonstrators
2. Evaluation framework
3. Dissemination issues
4. Management

Work at the demonstrators

The National Library of Estonia successfully finished the set up of their digital repository DIGAR, the German and Austrian partners improved and upgraded their archives. The main focus was the implementation of the reUSE-service and intensive contact management with numbers of public sector and private institutions as well as NGOs.

Evaluation framework

In the reporting period NUK, LJU and DDB up a framework for the evaluation of the reUSE repositories. In addition to that the questionnaires for the user surveys were translated into German and Estonian language and distributed to the demonstrators. The universities of Innsbruck, Graz, Linz and the National Library of Estonia completed the first user survey. Also the technical questionnaires have been distributed and instructions were given to the demonstrators to prepare log statistics for their digital repositories.

Dissemination issues

All partners acting as demonstrators created local reUSE-homepages. The reUSE-flyer (example attached) was presented and distributed to the partners at the February-meeting in Innsbruck. The main objectives were to present as much information as possible and deliver the reUSE-message in a clear and short form. The project was introduced at various conferences and meetings in several European countries (cf. Nr. 6 Awareness and Dissemination).

Management

The main management issues during the said period of time were dealing with the deliverables, the preparation and execution of the audit certificate and the cost claims. The coordinator also acted as advisor for the partners in these two cases (preparation of forms, assistance etc.). The project management team was further on occupied with the organisation of the Innsbruck meeting in February 2005. Another important assignment was the support of the evaluators in terms of translation of the questionnaires and methodical problems.

Survey ARGE KNV

As part of work package 1 a survey on the long-term preservation of digital documents at European scientific libraries is planned and organized by the working group "Krimbacher, Neuhauser & Vogl (KNV)", a company experienced in the field of quantitative and qualitative market research in close cooperation with the coordinator of the reUSE project. The selection was taken among five well-known companies and research organisations. The offers from the call differed from 19.000 EUR to 90.000 EUR.

A design for the study was provided by the company and presented to the reUSE partners in May. A pre-test with the participation of all partners as "testing target group" has been made during the Tallinn-meeting in June 2005. It was decided to address all scientific research libraries such as university libraries, national libraries as well as general important research libraries if they play a certain scientific role within a region or country. University libraries are included in the survey unless they are highly specialised institutes which are only devoted to very specific subjects (dental surgery, military science and the like). Colleges which do not offer a complete academic career, i.e. not offering the possibility to achieve a higher academic degree, are supposed to be of minor importance in terms of scientific research and documentation and therefore excluded from the survey as well. These basic criteria yield a list of about 700 libraries in question, most of which hold a number of bound volumes higher than 100,000. Since the survey is designated to examine the general status quo in the archiving of digital documents at European academic libraries, it is no criterion whether the libraries actually deal with long-term preservation of digital documents.

Survey FH Eisenstadt

Another sub-project which contributed with more than 700 working hours to the reUSE project was done by the FH Eisenstadt-College "Information & Knowledge Management". The sub-project should give an overview on the status quo of long-term preservation on public sector institutions and publishing houses in three Austrian regions (Vienna, Lower-Austria, Burgenland) and South-Tyrol. The aim was to find out about the standard of knowledge, awareness and ongoing activities concerning long-time digital preservation of digital master files at public sector institutions. For this purpose the project team carried out around 30 interviews with public sector institutions interviews between February and May 2005. The selection of the institutions was partly decided by the reUSE-Coordinator and after research accomplished by the working group. Research- and educational institutions, media business groups, associations, townships and communities were taken into consideration as well as publishers and printing offices. The working group was responsible for the contact management and the selection of their dialog partners (responsible for publications neither content-related or technically) to ensure the quality of the gathered information.

User related aspects

Concerning the user related aspects the project partners put emphasis on informing public sector institutions about the new service and were working intensively on establishing relationships and setting up workflows for collecting the digital objects. Some hundred public sector institutions in Austria, Germany and Estonia have been contacted and informed about the reUSE service. To provide a legal base for the long term preservation submission agreements have been worked out. The reactions the reuse-service gained were very positive and motivating so we think about the development of added value services in order to satisfy user needs in an even better way.

Work plan

Work phase (Milestones)	Period	Due date	Objectives	Results/Note
II Implementation	Month 6 - 9	Month 9	Implementation - Demonstrators	Successfully finished in time.
III Ongoing service Milestone 3	Month 9-24	Month 24	Ongoing service	Start of work phase III in month 9 has successfully been accomplished.
IV Testing and evaluation Milestone 4	Month 12-18	Month 18	Evaluation	Preparation of the Evaluation framework supported by demonstrators Austria, Estonia and Germany.

Deliverables completed

Deliverable	Responsibility	Due date	Current status	Description
1.1 White paper on digital repositories	ÖNB	Month 9	done	White paper on digital repositories. Summary of current developments, basic approaches and recent developments in the field of digital preservation.
1.2 Digital repository Austria	UBI	Month 9	done	Set up of digital repository ALO for demonstrator Austria.
1.3 Digital repository Estonia	NLE	Month 9	done	Set up of digital repository DIGAR for demonstrator Estonia.
1.4 Digital repository Germany	UBER	Month 9	done	Set up of digital repository EDOC for demonstrator Germany.
1.5 Tender / Call	UBI	Month 6	done	Tender for study on the "Current use of digital repositories" at national and university libraries in Europe.
2.1. Interim report for demonstrator:	I3s3	Month 12	done	Interim report on the progress of implemented workflows, deliverables,

Austria				resources and meetings.
2.2. Interim report for demonstrator: Estonia	NLE	Month 12	done	Interim report on the progress of implemented workflows, deliverables, resources and meetings.
2.3. Interim report for demonstrator: Germany	UBER	Month 12	done	Interim report on the progress of implemented workflows, deliverables, resources and meetings.
3.1. Evaluation Framework	NUK	Month 12	done	Definition of user groups and the user related aspects of each. Draft of the questionnaires for each group. First run for end-users and non-users questionnaires.
5.2. Statement of success stories	UBI	Month 12	done	Statement on successful implementation of the reUSE-service for content providers (public sector institutions) in Austria. Contact management, introduction and approach, technical issues, submission agreement, content guidelines, implementation of workflow, delivery, upload/storage.
6.5. Annual report according to Appendix A	UBI	Month 12	done	Annual report on 12 months of reUSE: approach, workflow, implementation, résumé.

Project and task meetings

Type	Participating partners	Place/Date	Description
Task meeting	NUK, LJU, UBI, ÖNB	Ljubljana 10.-11. January 2005	Evaluation framework, White paper, technical meeting.
Task meeting	UBI, i3s3, UBG	Linz 14. February 2005	User related aspects concerning Austrian partners (example: RIS)
Project meeting	UBI, ÖNB, LJU, DDB, UBER, i3s3, NLE, NUK, UBG	Innsbruck 23.-25. February 2005	Implementation and ongoing working process. Attendance of all partners.
Task meeting	UBI, ÖNB, i3s3, UBG	Vienna 31. March 2005	Technical aspects, ongoing workflow.
Project meeting	UBI, ÖNB, LJU, DDB, UBER, i3s3,	Tallinn 16.-17. June 2005	Status of work: implementation,

	NLE, NUK, UBG		evaluation framework, user related aspects, success stories. Attendance of all partners.
Task meeting	UBI, i3s3, UBG	Linz 5. July 2005	Technical meeting and administrative issues for Austrian partners.

3 Status

Concerning the use and allocation of resources within the project there are no major deviations from the technical annex.

3.1. Resources

Project effort for the 6-month reporting period (person-months) – costed resources							
Participants short name	WP 01 Dig Reps	WP 02 Ongoing service	WP 03 Eval Fr	WP 04 Added value	WP 05 Aware-ness	WP06 PM	Total
UBI	2,52	5,79	0,87	3,95	1,98	1,73	16,84
ÖNB	1,868	6,711	0,286		0,493		9,357
UBG		6,73	1,9	0,51			9,14
i3s3	0,759	8,393	0,627	0,348	0,767		10,893
LJU	0,75		1,27		1,48		3,5
NUK	3,65	0,98	5,44	0,6	2,34		13,01
NLE	3,86	16,40	1,01	2,21	0,43		23,91
DDB	1,03		0,39		0,19		1,61
UBER	0	6,75	1,3	4,5	0,2		12,75
Total	14,437	51,754	13,093	12,118	7,88	1,73	101,01

Project effort for the 6-month reporting period (person-months) – non costed resources							
Participants short name	WP 01 Dig Reps	WP 02 Ongoing service	WP 03 Eval Fr	WP 04 Added value	WP 05 Aware-ness	WP06 PM	Total
UBI	0,18	1,85	0,21	0,23	0,48	1,23	4,19
ÖNB							
UBG		1,3		1,5			2,8
i3s3	0,132	3,495	0,181	0,086	0,338		4,231
LJU	0		0,21		0,74		0,95
NUK	3,79	1,11	4	0,51	2,39		11,82
NLE	0,14	6,77	0,49	2,38	0,44		10,22
DDB	0,92		0,56		0,14		1,62
UBER	0,04	1,35	0,9	1,30	0,18		3,77
Total	5,202	15,875	6,551	6,006	0,48	1,23	39,601

3.2. Cumulative

The deliverables are underway and in time.

Deliverable	Current status (completed/underway)	On schedule (yes/no)	Original completion date <i>(as in Annex I + Calendar Date, e.g. "T06 = June 2004")</i>	Actual/planned completion date <i>(Calendar Date, e.g. "15 June 2004")</i>
Work package 1				
Digital repositories	completed			
D1.1 White paper		yes	T09 = March 2005	31 March 2005
D1.2 Digital repository - Austria	completed	yes	T09 = March 2005	31 March 2005
D1.3 Digital repository - Estonia	completed	yes	T09 = March 2005	31 March 2005
D1.4 Digital repository - Germany	completed	yes	T09 = March 2005	31 March 2005
1.5 Tender for study	completed	yes	T06 = December 2004	28 February 2005
Workpackage 2				
Ongoing service	underway			
D 2.1 -2.3 Interim Reports	completed	yes	T12 = June 2005	T 9
D 2.4 Report scalability	underway	yes	T18 = December 2005	T18
D 2.5 -2.7 Report results service	underway	yes	T24 = June 2006	T24
Work package 3				
Evaluation	underway			
D3.1 Evaluation framework	completed	yes	T12 = June 2005	T 12
D 3.2 Final survey	underway	yes	T18 = December 2005	T18
D3.3 National report Slovenija	underway	yes	T21 = March 2006	T21
Workpackage 4				
Added value services	underway			
D 4.1 Market survey	underway	yes	T18 = December 2005	T18
D 4.2-4.3 Implementation	underway	yes	T18 = December 2005	T18
D 4.4 -4.6 Exploitation plans	underway	yes	T24 = June 2006	T24
Work package 5				
Dissemination	underway			
D 5.1 Initial material	completed	yes	T03 = September 2005	T06
D 5.2 Success stories	completed	yes	T12 = June 2005	T 12
D 5.3 Dissemination Report	underway	yes	T24 = June 2006	T24
D 5.4 Final Showcase	underway	yes	T24 = June 2005	T24

Project effort in person-months – costed resources			
Participants' short name	Old Total, carried over from last Progress Report	This period's Total, carried over from 2.1. Resources	New TOTAL
UBI	13,91	16,84	30,75
ÖNB	7,08	9,36	16,44
UBG	1,00	9,14	10,14
i3s3	8,64	10,89	19,53
LJU	4,25	3,5	7,75
NUK	7,01	13,01	20,02
NLE	11,66	23,91	35,57
DDB	3,46	1,61	5,07
UBER	9,05	12,75	21,08
TOTAL	101,01	77,1	

Project effort in person-months non-costed resources			
Participants' short name	Old Total, carried over from last Progress Report	This period's Total, carried over from 2.1. Resources	New TOTAL
UBI	3,35	4,19	7,54
ÖNB			
UBG	3,00	2,8	5,8
i3s3	4,59	4,23	8,82
LJU	0,75	0,95	1,7
NUK	4,15	11,82	15,97
NLE	10,48	10,22	20,7
DDB	4,11	1,62	5,73
UBER	1,25	3,77	5,02
TOTAL	31,68	39,6	71,28

4 Achievements

4.1 Workpackage 1: Digital Repositories (leader: ÖNB)

Task 1:

This task finished with the completion of deliverable D1.1 – White paper on Digital Repositories. The White Paper is based on two main pillars, an environmental scan of current developments and open issues in the international arena, and a status check and cross-analysis of the ongoing implementation work at the reUSE demonstrators. The paper aims to feed into demonstrator implementation, guide the development of the evaluation framework (Work Package 3 in the reUSE project), and contribute to internal discussion and exchange of experience.

International digital repositories research achieved major advancements in the last couple of years. Fundamental theoretical works nourished international discussion and shaped thinking about digital repositories, and wide-spread implementation efforts further contributed to research and raised the standing of digital repositories in society. While in the late 1990s digital repository initiatives struggled mainly with technicalities, the focus has now moved to establishing 'trusted' digital repositories that are organisationally viable and sustainable in the long term. reUSE builds heavily on the work on 'trusted' digital repositories and the OAIS (Open Archival Information

System) model. The White Paper introduces both, and further highlights other relevant issues with references to relevant literature for detailed discussion.

The second pillar of the White Paper presents the status quo at reUSE demonstrators. The analysis is underpinned by interviews and surveys at reUSE demonstrator organisations. reUSE demonstrator organisations stem from a range of organisational settings. Yet all follow the common goal of tying into the traditional publication process and collecting digital master files of public sector publications along with their print counterparts. Besides establishing the digital repository infrastructure at reUSE demonstrators, other core challenges are of an organisational nature including negotiations with information producers and the creation of feasible workflows for accessioning publications into the repository. In the rapidly ongoing implementation work, this analysis is of course only a snapshot of a transient situation. Yet, this analysis enables self-assessment and furthers discussion among the reUSE partners.

Task 2:

This task finished with the integration of a section on the state-of-the art in preservation metadata in the D.1.1 White Paper. Leading international initiatives, in particular the PREMIS working group, have been contacted. All implementers provided reports on their current metadata systems.

Task 3:

ONB undertook an analysis comparing different models of submission agreements currently in use internationally. This analysis was presented to the project partners at the reUSE General Meeting in Innsbruck. Within the reporting period all implementing partners finished their respective submission agreements or submission agreement frameworks. All implementing partners concluded agreements with depositing public sector institutions based on their submission agreement templates.

Task 4:

This task finished with the completion of the comparison of workflows in the different reUSE institutions which has been starting in reporting period 1. The results of the surveys undertaken have been fed into a respective section of the D.1.1 White Paper.

Task 5:

Repository Austria:

Within the reporting period work on ONB's repository system comprised mainly improvements of the current software. ONB will upgrade its system to a new version in summer 2005. Enhancements of the new version will include a more modular software design, improved data ingest routines and a more flexible metadata management. The design of the new version of the repositories system was presented to the project partners at the reUSE General Meeting in Tallinn. In the reUSE repository of the ALO-System all the publications are stored in PDF-Format. As a storage solution the ALO-Group uses the IBM Tivoli Storage Manager which enables protection of the organization's data from failures and other errors by storing backup, archive, space management.

Repository Germany:

The edoc server got a new hardware basis and the next step to a server that only store xml-files was made (decrease the number of different file formats). Also a new metadata database with a www interfaces was established and the changeover to dynamic XML and XSLT technology was made. The goal to have a XML-document management system including a search engine was reached.

Repository Estonia:

Within the reporting time the DIGAR system was constructed and is running since June 2005. DIGAR is built on FEDORA software version 2.0. The digital objects are stored as Fedora Object XML files. The Fedora extension of METS will continue to be supported as an ingest and export format. In upcoming releases, Fedora will also support other formats for ingest and export such as METS 1.4 and MPEG21/DIDL. Based on performance tests and user feedback, the development team is compiling a specification for further development of the repository.

Call for a study:

A tender for a study was organised and “Krimbacher, Neuhauser & Vogl (KNV)”, a team of three young professionals experienced in the field of quantitative and qualitative market research has been commissioned. The team will work in close cooperation with the coordinator of the reUSE project. In the survey University libraries unless they are highly specialised institutes which are only devoted to very specific subjects (dental surgery, military science and the like) will be analyzed. Colleges which do not offer a complete academic career, i.e. not offering the possibility to achieve a higher academic degree, are supposed to be of minor importance in terms of scientific research and documentation and therefore excluded from the survey. These basic criteria yield a list of about 700 libraries in question, most of which hold a number of bound volumes higher than 100,000.

4.2. Workpackage 2: Ongoing Services (leader: i3s3)

Partners in Austria, Germany and Estonia started to inform its target groups about the reUSE project, with the aim to collect, preserve and make available digital publications through the reUSE trusted digital repository. Within this workpackage three Deliverables were due in the reporting period, namely Interim reports for the demonstrator in Austria, Germany and Estonia. Throughout the Deliverable each country described the relationship with content providers, the Customer Relationship Management System that is used to gain an overview about the contacts, the legal aspects and the technical aspects of the repository.

The interim Report for Demonstrator in Austria defines the reUSE-Repository in Austria, which is based on the ALO-System (Austrian Literature Online) originally designed for digitised documents. The target group are public sector institutions, such as parishes, municipalities, political parties etc. The Deliverable contains details of the relationship with content providers, from the first contact through e-mail or phone until the delivery of the digital documents and the subscription of the Submission Agreement. First addresses of possible content providers were collected via Internet and with help of the presentation copies of the library. Then the whole contacts were clustered into main groups and its corresponding subgroups, which we called focus groups. In the reporting period the partners in Austria started to contact particular institutions of each focus group, in order to get an overview about the needs of digital preservation and the documents published in these institutions. The “first round” was in general very positive and summarizing the reactions of the institutions it could be said, that reUSE started its activity exactly at the right time. In the last month of the reporting period we started to use the top-down strategy, which means contacting umbrella organisations, which spread the reUSE-Information to their smaller entities. As a CRM-Solution the Institute “Integriert Studieren” and die University Library of Graz decided to use the programme ACT, whereas the university library of Innsbruck uses a self-constructed database to manage their contacts.

The second Deliverable came from the National Library of Estonia and describes the work done so far in Estonia. The reUSE-Service in Estonia is called DIGAR (DIGital ARchive) and is built on FEDORA software version 2.0. The structure of digital object was finished and a completed list of metadata elements was worked out. Database structure for user system, depositor management and temporary ingest buffer has been designed. First version of depositor management database is finished and management and access tools that interact with the FEDORA repository are developed. An update of the Ingest Client for handling electronic documents has been done. The target group of the digital repository are also public sector units, where the first ones were contacted in autumn 2004 to get an idea about the needs of digital preservation in these institutions. In the reporting period further contacts followed by phone and e-mail. Personal Meetings took place from September 2004 to explain the project objectives, archive's idea and discuss about publishers needs. Valuable meetings with specialists on digitisation and publishing area were on special seminars and conferences. NLE designed 2 alternative forms of Submission Agreement for publishers joining the digital archive. The easiest way is to agree with the –licence

agreement published on the webpage of DIGAR. The second possibility is to sign a written agreement. In the reporting period 9 institutions adopted the Submission Agreement.

In Germany reUSE is based on the edoc-Server, which offers the organisational and technical framework for publishing digital scientific documents. The development of the edoc-Server started with the project "Digital Dissertations" in 1997. Since the beginning in the year 1997 UBER takes part in several projects to advance the edoc-System. The edoc-System contains digitally born documents as well as digital versions of printed documents. All members of the Humboldt University and also other non-University Research Institutes are the target group of the System. In order to get in contact with the possible content providers UBER invited them to take part in the reUSE Meeting in Autumn 2005. The topic of this one-day meeting will be the technical and organisational possibilities offered by the Computer and Media Service for authors and publishers and the Open Access initiative of the Humboldt-University. Moreover the value added service ProPrint has been set up on the edoc-server and the University Library Tübingen, the technology and know-how of the doc-server has been shared with the HTWK Leipzig and the amount of collected and archived files is still increasing. Actually the digital repository contains about 2.200 documents and every day 14.700 requests on the edoc-server could be registered.

4.3. Workpackage 3: Evaluation framework (leader: NUK)

Background:

In the reporting period NUK, LJU and DDB worked on setting up a framework for the evaluation of the reUSE repositories. The expected project outcomes were considered and compared with the project objectives, which were: to set up trusted digital repositories in Austria, Estonia and Germany for collecting, preserving and making available digital master files from printed publications edited by public sector bodies; and to create added value services in order to exploit these data collections. It was also important to analyse the impacts and benefits from the new services in the local environment.

In this regard the evaluation was focused on:

- the organizational aspects;
- the digital repositories developed by the demonstrators from their technical and content point of view;
- the long-term preservation strategies planning, and;
- the services, including value added services to the users and their impact and benefit in the local environment.

These four topics will be evaluated from different aspects. There was no appropriate methodology in the scientific literature which would encompass all aspects in this specific case. Furthermore, all the existing methodologies were implemented in particular contexts, which in some way differ from the needs of reUSE project. That was the main argument for choosing to take a new integrated approach, combining some of the elements of different experiences and standards.

Our evaluation methodology integrates two different approaches: a multi-attribute evaluation, which considers four elements: the organizational issues, the technical aspects of the repositories, the services together with value-added services and the cost benefit aspects; and a SWOT analysis of the four repositories.

D 3.1 Evaluation framework

At Ljubljana meeting in January 2005 it was decided that the evaluation framework should be guided by the RLG Trusted Digital Repositories Report as regards the OAIS standard and long-term preservation. However, it is only one of the aspects in the evaluation framework and it will be evaluated together with other aspects (organizational, users, technical, and content providers). In this context we made several changes in the evaluation table trying to adjust to the concepts defined in the White Paper, which draft we received in January 2005. We decided to use some of

the surveys in the White Paper and to repeat some part of the survey that has already been done in order to find out the real situation in demonstrators' institutions.

According to the evaluation table we had to change the questionnaires and adjust their content, specially the technical part, to the concepts dealt in the White Paper and OAIS standard. We finally managed to integrate all the questionnaires to the overall evaluation framework, obtaining in this way a useful tool for gathering relevant data. Complete Evaluation Framework document with questionnaires is in Annex 1.

The questionnaires for the users were prepared by our partner from the Ljubljana University (LJU). Their main goal was to evaluate the services from the users' perspective. LJU decided to use a machine readable form in order to automate the process of counting the answers. Two questionnaires were prepared, one for non-users and another for users. In the survey the users are enquired about their views on the content, interface, performance and efficiency of the repository as well as on their personal and subjective perceptions. The survey will take place twice, in June and in September 2005. The questionnaires were translated to German by the University of Innsbruck and to Estonian by the National Library of Estonia.

Another questionnaire for the developers of the repository was prepared and the questions were reorganized and reformulated in a way that they follow the content of the former survey for the White Paper in order to compare the answers on recent developments. The analysis of the answers will help us to get relevant information on the technical aspect of the repositories. In addition information on log statistics is planned at the same time when the questionnaires for the users will be distributed. The log will help us find out the real use and functionality of the repositories.

Three questionnaires were prepared for the managers of the repository, top managers of the core institutions, and content providers. The survey will help us get some information on the environment, the goals and the mission of the repository as well as the interests of the stakeholders in its maintenance. It will be important to find out how much the organizational strategy and organizational culture are favourable to the development of such repository and whether the organization is prepared for implementing such an important task. If, for instance, the management is not interested in including the methods of future financing of the repository in the strategic plan, or does not consider important its role in the community, we can hardly speak of a trusted digital repository. It is also necessary to consider the national legal framework concerning electronic archiving, which could represent an obstacle or a promoter in implementing its roles.

Another issue that pertains to organizational aspects evaluation is the cost-benefit dimension. We know that the benefits of the services of such digital repositories, as well as most of the library services, do not have short-term, but long-term manifestations. They will show up in a few years after reUSE project's conclusion. That is why in this evaluation we shall not be able to describe the real benefits. Another problem is that most of the financial information, like salaries or cost of infrastructure, is not publicly available and depends on the financial models of the different types of organizations involved. As a consequence we had to focus on a qualitative evaluation of cost-benefit aspects. We shall compare the real expectations of the content providers with the plans and services' implementations by the developers. We shall also evaluate the time and staff needed for the delivery and processing of the electronic documents in the repository and the time needed to access it. In this regard there will be a detailed questionnaire prepared for the staff in charge of the repository. We shall obtain from them contextual data on the practice with the repository and its users. Being aware that the top management will hardly take more than five minutes to answer our questionnaire, we shall interview them by phone and evaluate their responses. The content providers will tell how much they are satisfied with the repository services and what benefits they see in it.

The survey strategy was presented to all the partners at Innsbruck meeting in February 2005. The time-schedule is presented in table 1.

Target groups	June	September	October/November
Q2 -Developers	X Log statistics	Log statistics	
Q1 - End users	X	X	
Q3 - Content providers			X
Q4 -Operators/librarians		X - interviews	
Q5 - Top managers			X phone call

Table 1: Evaluation survey time-schedule

D 3.2 Final survey

NUK prepared a list of 100 potential content providers and started preparing a questionnaire to be sent to all the addresses.

4.3. Workpackage 4: Exploitation and value added services (leader: UBER)**Workpackage 4: Exploitation and added value services***Deliverable D 4.1 Market survey*

Task 1: To carry out a survey on promising technologies and added value services; investigations; site visits, contacts, and talks with technology and content providers; editing the survey. The recording of the value-added services (Vas) is carried out in two phases. The intensions of the first phase are to collect the gained experiences of libraries, public and internal archives and private companies in establishing services for electronic documents or archives. In the first phase the available Vas are collected and a general overview of these is created. The data-acquisition grid is based on the DINI questionnaire for document servers. The internet searching serves as basis. In the second phase a closer look will be taken at the specific services and contact with the responsible persons will be established.

The Duties for the reuse-partner are:

Answering the first survey phases specially collecting the envisaged but not realised services (established and planned services could be found in the server-documentation)

Result of this interview is an analysis of available Vas and future possibilities.

Technical aspects: The questionnaire is made using Microsoft InfoPath. The data is stored in XML and can very well be reuse and evaluated.

Task 2: To implement print on demand services in Germany and Austria. To investigate the possibilities for intelligent access, such as automated indexing features. AMENOTEC, one of the leaders in this area will be contacted. The print on demand service ProPrint is based on the possibilities of metadata harvesting. This harvesting is made possible by OAI-PMH. Therefore archives and document servers need an OAI interface for ProPrint. A further condition is that the documents are available in the PDF format. ProPrint has extended the Dublin Core metadata set with specific elements that are defined in a separate (ProPrint) name space. The starting point of this task was a check of some PDF documents of the University Library Graz. The Test was positive. But OAI interface, the current version of ALO doesn't offer any OAI interface at the moment. It has to be cleared, whether an OAI interface will get ALO.

Task 3: To work out exploitation plans for Austria, Estonia and Germany, to collect reactions of participants, end-users, etc., to contact content suppliers, content providers and publishers, to edit the report. The plan for using VAS will be based on the collection of VAS from the first task.

5 Management

The leading management topics in the said period were principally concerned with internal administrative subjects. In chronological order the management-staff was turning its attention to the following major points:

- the organisation of the Innsbruck-meeting in February 2005.
- preparation and execution of the audit certificate and the cost claims. The coordinator also acted as advisor for the partners in these two cases (preparation of forms, assistance etc.).
- monitoring and consultation of the partners concerning the supply of the deliverables within the agreed time.
- Another important assignment was the support of the evaluators in terms of translation of the questionnaires and methodical problems.

All in all one can state that the reUSE project organisation is working very well. The project coordinating-team (UBI) succeeded in creating a management-framework which allows individual solutions for all partners as well as following decentralised approaches that finally assembled to a consistent general view. Each partner is well aware of its role, objectives and tasks. At least until today no deviations from the work-plan occurred.

6 Awareness and Dissemination

The project and the project's objectives have been announced at several conferences and meetings

The list provides an overview about the dissemination activities during the second reporting period:

Type	Partner	Title	Event	Place	Date	Note
Dissemination activity, short presentation	NLE	Presenting reUSE project and digital archive to the team of Estonian Television	Meeting, discussion	Tallinn, NLE	20 Jan	18 people from Estonian Television in NLE, discussing digital heritage archiving issues.
Dissemination activity	NLE	National Library of Lithuania. Visit of General Director of NLL in NLE	Meeting with Director Technology, Mihkel Reial	Tallinn NLE	26 Jan	General Director's deep interest towards reUSE project, discussing project objectives and future plans
Dissemination activity	NLE	Presentation	Meeting, NLE	Tallinn	5 April	Presenting reUSE project, Discussing the reUSE approach with the specialists NL of Lithuania.
Workshop talk	NLE	Digital archive DIGAR, created under the reUSE project	Workshop for Estonian librarians	NLE, Tallinn	18 April	presentation about the reUSE archive
Conference talk, poster session on reUSE project	NLE	Presentation "uploading files to digital archive"/ M.Reial, L.Enok, K.Kiisa	International Conference "Managing Heritage Collections" II, NLE,	Tallinn	5-6 May	International conference held under EU MINERVA project (organised by Min. of Culture, Estonia)
Conference talk	NLE	Liina Enok "Electronic Resources in the National Library of Estonia".	Annual International Conference	Rumyantsev Readings, Moscow State Library, Russia	5-7 April	Presentation includes overview of reUSE project. International Conference, 200 attendees.
Presentation	NLE	presentation of new digital archive DIGAR	workshop for county librarians of Estonia	Tallinn	19 May	Presenting reUSE digital archive for librarians as users
Conference / Dissemination activity	NLE	Dissemination of reUSE and DIGAR flyer	Forum of Information Policy.	Tallinn	26 May	dissemination of reUSE and DIGAR flyer in annual state conference (106 registered participants)
Meeting	NLE	Needs for digital archiving.	ReUSE meeting in Ministry of Social Affairs	Tallinn	2 June	Discussing activities connected to digital archive. Ministry's publications and their preservation and access issues.
Meeting	NLE	Discussion on digital archiving needs of Legal Counsellor Office	Meeting in the office of Legal Counsellor	Tallinn	3 June	Discussion on practical activities connected with the digital archive, analysing the publications and their archiving issues.

Meeting / Dissemination activity	NLE	Needs for digital archiving.	Meeting in the office of Secretary General, Estonian Academy of Sciences	Tallinn	6 June	presenting the archive in the office of Secretary General, Estonian Academy of Sciences. Signing the cooperation/submission agreement.
Workshop talk	NLE	Electronic resources and e-projects in the National Library of Estonia	Baltic States national libraries summer meeting LILAEST. Baltic National libraries and EU projects	Lithuania	27 June – 1 July	Presenting reUSE project to experts of Latvian and Lithuanian libraries.
Symposium, poster session on reUSE project	NUK		Annual Symposium Bobcatss	Budapest	31 Jan. - 2 Feb.	A poster on reUSE project was prepared and presented
Paper Presentation Conference talk	NUK, LJU	Libraries in the Digital Age	LIDA Conference	Dubrovnik	30 May- 3 June	International Conference: (140 registered participants) Presentation: Kavcic-Colic, Alenka Majenovic, Darko Zupanc, Spela Smid, Mateja: "User-centered evaluation of digital repositories"
Newsletter	NUK				Feb. 2005	Short impression of the reuse-project in the newsletter called "n – new strategies of NUK".
Meeting, Presentation	UBI	Project Presentation reUSE	ÖVP-Tirol (Party on County Level)	Innsbruck	15. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBI	Project Presentation reUSE	FPÖ-Tirol (Party on Countylevel)	Innsbruck	17. Feb.	presenting the repository ALO in the office of director discussion about archiving
Meeting, Presentation	UBI	Project Presentation reUSE	Grüne Tirol (Party on Countylevel)	Innsbruck	17. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBI	Project Presentation reUSE	Studienverlag (Publishing House)	Innsbruck	21. Feb. & 22. March	Talk about current problems of long term preservation in publishing houses in the office of the director talk about Long term preservation of the Cultural journal "quart" in the office of director
Meeting, presentation	UBI	Project Presentation reUSE	Community Telfs	Telfs	15. March	Project presentation talk about presenting the needs for digital archiving in the office of mayor.

Meeting, Presentation	UBI	Project Presentation reUSE	Studienverlag (Publishing House)	Innsbruck	21.Feb. & 22. March	Talk about current problems of long term preservation in publishing houses in the office of the director talk about Long term preservation of the Cultural journal "quart" in the office of director
Meeting, Presentation	UBI	Project Presentation reUSE	Community Götzens	Götzens	22 Feb. & 8. June	presenting the archive in the office of the mayor with the head official talk about needs for archiving, meeting in the office of the mayor with the head official presentation of their archived material in ALO, technical explanations
Meeting, Presentation	UBI	Project Presentation reUSE	Chamber of Employee Matters	Innsbruck	22. Feb. & 8. March	PR-Department Project presentation, talk about needs for digital archiving via ALO. Talk about data-transfer
Meeting, Presentation	UBI	Project Presentation reUSE	Diocese Innsbruck	Innsbruck	11. March	PR-Department Identify content information to be preserved Project presentation
Meeting, Presentation	UBI	Project Presentation reUSE	"Academic Gymnasium" (Secondary School)	Innsbruck	16. March	Presenting the repository ALO in the office of director discussion about archiving and long term preservation
Meeting, Presentation	UBI	Project Presentation reUSE	"Tiroler Bezirksblätter und Print Zeitungsverlag" (District Newspapers and Publishing House)	Innsbruck	24. March	Presenting the repository ALO in the office of director discussion about archiving, long term preservation
Meeting, Presentation	UBI	Project Presentation reUSE	Moser Holding (Main Publishing House and printing plant in Tyrol) Printing house for the main tyrolian newspaper	Innsbruck	24. March & 1. June	Meeting with assistant of management board Presentation reUSE, talk about needs for archiving digital materials, added value services, as well as current problems of long term preservation in publishing houses
Technical Meeting		technical meeting-printing plant			29. June	Define terms on delivering digital masterfiles of different organisations (e.g. Chamber of Economy Matters)

Meeting, Presentation	UBI	Project Presentation reUSE	Gemeindeverband Südtirol (umbrella organisation)	Bozen	7. June	Presentation reUSE, talk about needs for archiving digital materials and about cooperation with RIS Communal as well as about added value services
Meeting, Presentation	UBI	Project Presentation reUSE	Nature-museum South Tyrol	Bozen	7. June	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBI	Project Presentation reUSE	Athesia (Main Publishing House and printing plant in Southtyrol) Printing house for the main southtyrolian newspaper	Bozen	7. June	Meeting with head of the marketing department presentation reUSE, talk about needs for archiving digital materials, added value services, as well as current problems of long term preservation in publishing houses
Meeting, Presentation	UBI	Project Presentation reUSE	WKO (chamber of economy)	Innsbruck	8. June	Presentation reUSE, talk about needs for archiving digital materials
Online News	i3s3	reUSE Information	www.schule.at	Schools in Austria	27.04-03.05.2005	reUSE Info on the webpage www.schule.at, section News
E-mails	i3s3	reUSE Information	e-mails	Linz	01.03-24.06.2005	In this period of time lots of e-mails with reUSE Information were sent to possible content providers.
Phone call	i3s3	reUSE Information	Phone calls	Linz	08.03-24.06.2005	Publishers were informed about reUSE through phone calls.
Meeting	i3s3	reUSE Information	Personal Meeting	Linz	04.04-24.06.2005	Personal meetings in order to give more detailed information, to answer questions and to discuss further details with interested institutions were held.
Umbrella organisation	i3s3	reUSE Information	e-mails (Focus Group: culture)	Upper Austria	23.May	Umbrella organisation (U-Hof) spread reUSE Information to its smaller entities. (around 40)
Presentation	DDB	Talk about projectivities on long-term-preservation: "Langzeiterhaltung digitaler ressourcen – eine Investition in die Zukunft"	Deutscher Bibliothekartag 2005	Düsseldorf	17. March	Presentation includes overview of reUSE project. Librarians

Creation reUSE-Flyer Styria	UBG	Local Flyer for reUSE				
Presentation	UBG	Governor of Styria (Mrs. Klasnic) Needs for digital archiving.		Graz	30. March	The reuse project was presented to the Governor of Styria
Info on reUSE	UBG	Mentioning the reuse project by trainers on workshops organized by "Kleine Zeitung" (Newspaper)	Workshops	Styria	Going on since May	reuse mentioned by trainers and workshop leaders of about 20 Workshops organized by the "Kleine Zeitung" for Staff-Members of Styria Societies (different locations in Styria)
Informal talks on reUSE	UBG	Project Presentation reUSE	"Open House Day" Government of Styria	Graz	22. April	Informal talks on reuse and contacts with all the departments of the styrian administration
Meeting, Presentation	UBG	Project Presentation reUSE	Federal state government of Styria	Graz	4. Feb.	PR-Department: Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Chamber for employees matters	Graz	4. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	FPÖ Styria (Party on County level)	Graz	9. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Chamber for economy matters	Graz	9. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Diocese Graz-Seckau	Graz	9. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	City Kapfenberg	Kapfenberg	14. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	City Bruck an der Mur	Bruck an der Mur	14. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Parish Liezen St. Veit	Liezen	14. Feb.	Parson Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	City Graz	Graz	15. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	ÖVP – Styria (Party on County level)	Graz	15. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials

Meeting, Presentation	UBG	Project Presentation reUSE	Communist Party (Party on County level)	Graz	15. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Caritas	Graz	17. Feb.	Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Printhouse Leykam	Graz	17. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials, added value services, as well as current problems of long term preservation in publishing houses
Meeting, Presentation	UBG	Project Presentation reUSE	Nova – Das gratismagazin (free Magazine)	Graz	17. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Telekom Austria (Umbrella Organisation)	Graz	28. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Medienproduktion. Print-www-cd.rom-firmenzeitungsberatung (print house)		28. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Karl-Franzens-University Natural sciences association	Graz	28. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Chamber for economy matters, Styria	Graz	28. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Reha Druck (printing house)	Graz	2. March	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Karl-Franzens-University Institute for European law	Graz	11. April	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Meeting, Presentation	UBG	Project Presentation reUSE	Kronen Zeitung (Newspaper)	Graz	14. Feb.	PR-Department Presentation reUSE, talk about needs for archiving digital materials
Dissemination/ Concertation	ONB		2 nd NESTOR Meeting about Trusted Digital Repositories	Frankfurt, Germany	4. March	Presenting the preliminary results of the WP1 analysis about trusted digital repositories to experts in this field
Conference Talk	ONB		Austrian Library Network Conference	Vienna, Austria	18. May	Presenting ONB's submission workflows and reUSE to the library community

Conference Talk	ONB		Public NESTOR Workshop on Trusted Digital Repositories	Munich, Germany	21. June	Presenting the results of the reUSE White Paper on Digital Repositories to the public
Article	UEBER	Sven Bahnik: „The reuse-Project“	CMS-Journal	Berlin	June 2005	Still in publication

7 Any other remarks

8 Conclusion

The main objectives of the reporting period have successfully been achieved. The reUSE-service is implemented and obtained great approval that exceeded all our expectations in a wide range. This allows us a more than optimistic view into the future of long term preservation of digital documents.