



## Zpráva ze zahraniční služební cesty

Jméno a příjmení účastníka cesty	<b>Mgr. Andrea Fojtů (AF)</b>
Pracoviště – dle organizační struktury	1.5 Oddělení dlouhodobé ochrany digitálních dat (ODODD)
Pracoviště – zařazení	1.5.2 Oddělení správy obsahu digitálního repozitáře
Důvod cesty	<b>Účast na konferenci „Aligning National Approches to Digital preservation“</b>
Místo – město	<b>Tallinn</b>
Místo – země	<b>Estonsko</b>
Datum (od-do)	<b>22. - 26.5. 2011</b>
Podrobný časový harmonogram	<p>Pondělí 23.5. – registrace na konferenci, komentovaná prohlídka Národní knihovny, Keynote Address by Laura Campbell – Kongresová knihovna USA <b>Panel 1: Technical Alignment</b> <b>Panel 2: Organizational Alignment</b></p> <p>Úterý 24.5. – Keynote Address by Gunnar Sahlin – Národní knihovna Švédska <b>Panel 3: Standards Alignment</b> <b>Panel 4: Legal Alignment</b> Breakout Sessions for panels 3 &amp; 4</p> <p>Středa 25.5. <b>Panel 5: Education Alignment</b> <b>Panel 6: Economic Alignment</b> Breakout Sessions for panels 5&amp;6 Synthesis/Closing remarks</p>
Spolucestující z NK	<b>PhDr. Bohdana Stoklasová (BS)</b> <b>Ing. Tomáš Svoboda (TS)</b>
Finanční zajištění	<b>IOP NDK</b>
Cíle cesty	Přítomnost na konferenci s mezinárodní účastí, získání kontaktů pro oblast dlouhodobé ochrany digitálních dokumentů a povinného elektronického výtisku, podrobnější vhled to problematice dlouhodobé ochrany digitálních dokumentů (zejména) v národních knihovnách.
Plnění cílů cesty (konkrétně)	Závěry konference „Aligning National Approches to Digital Preservation“ vesměs kopírují závěry workshopu „The Future of the Past – Shaping new visions for EU-research in digital preservation“ (zpráva dostupná na <a href="http://cordis.europa.eu/fp7/ict/telearn-digicult/future-of-the-past_en.pdf">http://cordis.europa.eu/fp7/ict/telearn-digicult/future-of-the-past_en.pdf</a> ), např. v případě chybějící ekonomického modelu pro komerční sféru, která by dlouhodobou ochranu vnímala jako neoddelitelnou součást všech svých procesů. Byl navázán kontakt s pracovníky národních knihoven Estonska a Finska (pracovníci pro archivaci webu a dlouhodobou ochranu obecně).

Program a další podrobnější informace	Hlavním cílem konference bylo sjednotit národní postupy v oblasti dlouhodobé ochrany digitálních dokumentů napříč všemi oblastmi, od technických, organizačních, vzdělávacích až po standardizační, ekonomické a finanční.
Přivezené materiály	konferenční program, letáky vystavujících firem (Tessella, Equella, Guardtime) + další materiály, zápisky
Datum předložení zprávy	8.6.2011
Podpis předkladatele zprávy	
Podpis nadřízeného	
Vloženo na Intranet	
Přijato v mezinárodním oddělení	

**Příloha k této zprávě: Poznámky z konference v anglickém jazyce**

## Příloha: Poznámky z konference v anglickém jazyce

Exploring What We Can Do Together – Strategic Alliance for International Collaboration / Laura Campbell

- 185 digital preservation partners in more than 25 countries (education, research, LAM)
- strategic goals: National Content Stewardship Network (national digital collection, technical architecture, public policy outreach)
- NDIIPP – Content Domain Map – a mind map of geospatial, audiovisual, image&text and web content
- then & now: cognitive surplus vs. digital libraries/digital preservation
- solution: framework, actively working together, special interest groups, establishing a common index, international digital collection (freely available)

### PANEL 1

Technical Alignment (The role of testing) / Prof. Dr. Michael Seadle (Panel Head)

- to collaborate on requiring and implementing rigorous and independent tests

DNB Contribution to the Tallinn Alignment / Sabine Schrimpf

- key theme is infrastructure
- network of hard- and software that permits operation of application of SW
- question of interoperability is crucial (standards, technical specifications)
- SW elements
- Components of the DP infrastructure was compared to the pallets at railroads
  - o Source: PARSE.Insight Roadmap 2020
- PersistentID resolvers, certification process
- kopal (ingest KoLiBri)
- nestor (German Network of Expertise)
- DP4Lib – Digital Preservation as a Service; reduce dependency between components
  - o redundant storage at different locations
  - o KOLIBRI Modules
- LUKII – set up as an economical LOCKSS network in Germany
- SHAMAN
- APARSEN – wants to bring coherence and cohesion to the digital preservation research
  - o trends in DP research projects
  - o modular DP systems
  - o distributed as SOA
  - o elimination of technology dependencies

EDINA THE UK LOCKSS Alliance / Adam Russbridge

- EDINA offers underlying technical support & coordination
- threats to digital stewardship:
  - o failure (media, HW, SW, network, format obsolesce, natural disaster, economic/organization failure)
  - o attack (insider/outsider)
  - o operator error
    - source: Requirement to Digital Preservation
- projects PEPRS and PECAN help identify coverage and requirements for DP

Public testing / Michael Seadle

- traditional physical archiving relies heavily on trusted institutions
- distrust, not trust, need to be the basis of digital archiving – testing therefore plays a key role
- goals of testing: demonstrate functionality, reveal weaknesses, provide data for planning improvements
- key issues for testing – integrity, authenticity (can the origin or geniuses be shown?), usability (can migration/emulation be demonstrated?), access, financial integrity
- Dr.Who (drwho1.com)
- bit stream testing is the most important – authenticity and usability may be impaired
  - o the type of storage media, the number of copies + frequencies of checking and replacement get us to the relevant results
  - o no reliable metrics exists, however (what is an acceptable loss, etc.?)
- without well-documented, peer reviewed, publicly available test results, librarians are buying archiving systems on faith

#### Presentation without a title /Andy Rauber

- evaluation vs. testing vs. benchmarking
- DP testing and testing – evaluation rather than testing, far from benchmarking (few tests, but not near a definition of benchmarks)
  - o existing evaluations are not repeatable
  - o focus on the simple things
  - o building the frameworks before having clear test scenarios
- necessary to move towards comparative benchmarking
- what is needed: commit that we want a culture of benchmarking and comparative evaluation, understanding of what we want to benchmark, benchmark data + ground truth, measurement scales and measures that remain constant, knowledge bases to collect these

#### Organizing digital preservation on an international level / Michelle Gallinger (NDIIPP)

- focus on an national DP agenda
- community – driven, action-oriented (National Digital Stewardship Alliance)
  - o present a distributed national digital collection for the benefit of citizens

#### The European Research Arena / David Giaretta

- technologies – GEANT, EGEE/EGI
- EU research projects: TIMBUS, BLOG4EVER, SCAPE, ENSURE, APARSEN, ARCOMEM, WF4EVER
  - o SCIDIP – ES (2011 – 2014)
- Alliance for Permanent Access (APA) – formed as a legal entity 3 years ago
  - o opportunities for networking
- ISO 16363 – Audit and Certification of Trustworthy Digital repositories
- ISO 16919 – Requirements for Bodies Providing Audit and Certification

#### Observation from the MetaArchive Cooperative program / Martin Halbert

- distributed DP programs, different from other programs:
  - o replication of content, distribution of these replicated copies to distinct geographical locations and network organization to connect these replicated copies
- MetaArchive – established in 2003, funded by NDIIPP
  - o seeks to foster broader awareness to digital preservation issues
- IIPC – members are all institutions that focus on WA
  - o 39 members - national, university libraries + other organizations (Internet Archive)

- o ISO standard WARC format for web archives + Heretrix and Nutchwax
- o growing membership (Africa & South America)

## DAY 2

### Keynote address

International and National Collaboration in the digital age / Gunnar Sahlin

- 2012 – a new law for e-deposit
- Samsök (search together) – in 2005 (upgrade – new system)
- Swepub and long-term preservation
- Consortium of the Swedish research libraries for licensing e-journals and databases (ICOLC)
- Open Access and e-publishing (all universities have their repositories for e-pubs)
- NL: aggregator for the Europeana, TEL, Apres, Athena, EU-screen
  - o common system for the preservation of digital materials
  - o common search portal for materials from the Swedish National Library and Swedish National Archive

### Raivo Ruusalepp

- standard RAC, DSA, CIDOC (CRM), PAIMAS, ISA (DG), DDI
- use of information security standards for digital preservation
- information security: administrative and technical (physical = data security vs. IT = communication)
- company implemented security measurement with typical cyber crime scenarios
- survey of security:
  - o provision for information security in national legislation and development plane (1/2 of the respondents - ISO 27000 series, only 2 formal audits, the rest are „looking into it“; ½ of the respondents do not use standards or formal measurements to control information security)
  - o IT & disaster plan – 65% (data recovery from the off site location tested – 0%)
- alignment:
  - o better use of community standards for information security and preservation
  - o agreement on security requirements

### Standards-based approach to preservation planning / Matthew Woollard

- ISO 27001 – very expensive implementation, 100 000 £
- Basic Data Seal of Approval Guidelines (helps understand your business better)
- Audit And Certification of Trustworthy Digital Repositories
- Memorandum of Understanding to Create a European Framework
- ISO 16363 – external / DSA or ISO 16363 – self-audit

### Best Practices & Standards / Bram van der Werf

- self-assessment ← trust → audits
- certification → trust
- ISO 30300 (draft) Record Management

### PANEL 4 – Legal Alignment

#### Legal deposit & Web Archiving / Adrienne Muir

- legal deposit provisions: purpose, scope, deposit mechanisms, roles & responsibilities & liability, access provisions, sanctions
- implementation definitions: scope – offline/online, freely available/pay well, technology neutral/incremental
- legal deposit vs. voluntary (interim/hybrid approach, model agreements and licenses, flexibility)
- other legal issues: intellectual property rights, preservation, access, unlawful material, privacy/data protection
- voluntary approaches have disadvantages but maybe necessary and can be useful

#### Breakout Session

- standards bring along alignment by themselves; but only if you use them to the full, not half-way
- depends on community (users) – enforceable or voluntary compliance (standards)
- next step for standard alignment:
  - o corpora as benchmarks
  - o export-import completeness
  - o educational standards
  - o validation tools
  - o accredited training courses to accredit auditors
  - o framework standards

#### DAY 3

##### PANEL 5 Educational Alignment

- key elements of the DCC Curation Lifecycle Model
- Framework for the Education Alignment (USA – grads programs for digital preservation; new models for grad programs / internship programs (diverse knowledge) / workshops)
  - o sharing tools
  - o national programs
- related issues to digital preservation:
  - o nature of costs and business models
  - o strategies for selection & appraisal
  - o ground roles and responsibilities
  - o effectiveness and demand for services
- focus of the panel: factors influencing the actual sustainability of a digital archive
- 2 considerations – collaboration + user demand
- challenges + gaps – span national boundaries, public + private funding, education, exportation, DP certification, competition, funding gaps, policy, selection criteria, roles & responsibilities standards
- Magazzini Digitali – e-legal deposit in Italy
- PADI – a failed project (discontinued in 2010)

#### Presentation without a title / Neil Grindley

- how much does it cost to manage information?, what institutional financial strategies are required to facilitate effective preservation?, what general economic frameworks are required to enable information to persist and be accessible?

- JISC – 2010 – Infrastructure for Education and Research Programme
- archival storage and preservation activities are constituting a very small proportion of the overall costs – 15%
- 31% - access, 55% - outreach, acquisition, ingest
  - o approx. 333 Euros for a set of 1000 records
- KRDS2, p. 83 – future tool development supporting automation of ingest

Sustainable Preservation in North America: ADPNet & Friends / Aaron Trehub

- solution – distributed digital preservation (in at least 3 copies vs. LOCKSS – 6 copies)
  - DPP + LOCKSS = PLN – open SW developed at Stanford
  - MetaArchive, COPPUL: Canada, ADPNet – [www.adpn.org](http://www.adpn.org)
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