



European Union European Social Fund

BEING IN CONTROL: HOW TO CREATE A NEW DIGITISATION PROCESS AND MONITOR THE WORKFLOWS?

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Background

National Library of Finland (NLF) has in recent years built up its mass digitisation processes for different materials using external fundings

NLF realized that it must at any time be able to know what material is being digitised, where it's located and what step is in progress

The Ephemera project (years 2008 – 2012) funded by the European Union and the European Social Fund

 was established to develop a digitisation process and functional workflows with metadata expertise for extremely heterogenous and mostly uncatalogued small printings (e.g. brochures, price lists, leaflets)



Google maps





Methods

➢ First we <u>made a survey</u> of harvesting several Libraries seeking out ways and models other Libraries have done

Second we studied old documentation made in the past and gathered information created previously (historical analysis) by interviewing experts => creating a comprehensive written documentation of the expert's tacit knowledge

Third we <u>established</u> various <u>working groups</u> across organizational boundaries in the NLF to address the special issues

➢Fourth we gathered systematic all information regarding the need for changes in the digitisation systems

➢Fiftth we had weekly conference calls with the supplier of the production data systems (NLF and CCS)



Working together – developing a new process and monitoring tools





Goals

=> Integrating cataloguing to the digitisation process and recording technical metadata during it

reason: overall economy and efficiency

Used developmental work research methods such as adapting change laboratory and knot working techniques

- Using mirror material
 - Videos, recodings, old documents as a reflector material by applying the process of planning
- Joint process dates
 - Experts discussing, solving problems and designing the new workflow and process

=> Expanding learning





Ephemera feature specifications for three digitisation systems (RIT, ScanClient and DW)

Information system requirement specification need emerged directly from the workflow and process documentation done (action)

> A few main features needed by the NLF:

- Possibility to mark and separate documents during scanning of the box (ScanClient – scanning utility)
- New printout (Inventory list, Remote Item Tracking)
- Genre list (docWORKS post processing system)
- Customized MODS-form (docWORKS) for cataloguing



Workflow and Item Tracking

- Situation: Decentralized conversion workflow
 - Material for digitization assembled at the library
 - Scanning of (printed) material at a remote location
 - Conversion workflow at another location
 - Material to be returned to library
- Goal: Seamless overview/control of all media passing the digitization process
 - Starts with creating a new batch of material at the library
 - Ends with returning the batch to the library after scanning/conversion
 - Gapless Status & Location Tracking at a glance
 - Individuals at different locations with access to the same web interface (project managers, scan operators, QA operators ...)



Workflow Overview

- Helsinki delivers Ephemera documents
 and provides batch and item information
- Inspection and item check-in at Mikkeli
- Scanning of items using various devices
- Conversion of scanned images
- Interactive verification (QA)
- Automated validation and final QA on digital output
- Delivery/Transportation to Helsinki
- Need to track items at every stage





Ephemera Workflow and Processing (collection based process)



Figure: Jukka Kervinen, NLF



Remote Item Tracking (1)





Remote Item Tracking (2)

Source provider (libra

- Create Batch
- Edit Batch
 - add physical uni
 - finalize batch aft
- Prepare Batch for
- Ship batch to digit
- Receive batch fro
- Verify content of r

🖡 Ephemera	3									
lome Ephemera	CCST	EST								
		Edit Batch								
orkflow Source	•	Create new Batch	Edit Batch Prepare Bat	ch Batch Shipment Receive re	turned Batch Verify Batch					
orkflow roduction	•	Enter/Scan the	Batch Barcode you want	to edit below, or choose from	n dropdown-list.					
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Remote Item Tracking (3)

Digitization Center workflow

Receive batch from Library

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Home Ephemera CCSTEST										
瓣 Ephemera										
Home Ephemera CCSTEST										
Check In										
Workflow Source	•	Receive Batch Check In Vault In Vault Out ConservationIn ConservationOut Check Out Return Batch								
Workflow Production	×	First enter/scan batch, then scan all physical units.								
Tracking	F	Batch Name EPHEME-2011-0004								
Statistics	•	Physical Unit ID								
Notifications		Mark not scanned items as missing								
Lists		Done								
Documents										



Remote Item Tracking (4)

🎁 Ephemera

Home Ephemera CCSTEST

Batch Status

Monitoring

	This Site											
	-	Home Ephemera	CCST	EST								
View project statu		Recent Statistic										
	project stati	Workflow Source		Current Statistic Recent Statis	tic Scanning Sta	atistic						
		Workflow	•	Tin	neframe				Filte	r		
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Project Status		Notifications		◯ last month	🔘 week	ak .			E	EPHEME-2011-0003 EPHEME-2011-0002		
kflow Source 🕨	Project Status Batch Status Phys.Un			◯ total	O month					EPHEME-2011-0001 EPHEME-2011-0004		
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	Remarks			Date / Timeframe Wed 31.08.2011	Items cr	eated I	tems shipped	Items scanne	d Items processed	Items returned		
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	Where 'Current Status' =			Sun 28.08.2011 Sat 27.08.2011								
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Item Tracking at a glance

- Let's you manage, monitor and analyze mid- and large-scale digitization projects
- Supports decentralized workflows spread over various locations
- Tracks projects, batches, physical and logical units
- Offers extensive monitoring and statistical evaluation
- Easy to integrate with the docWorks digitization/conversion workflow
- Enables efficient project execution and crisis management



Practical innovations and tools made during developing the process

A tool to get single Ephemera publications catalogued: MODScataloguing form customized for Ephemera material

a key feature, when it comes to creating search options on a user interface

New viable ideas were generated along the way, such as the inventory list

practical tool for the collection management





Conclusions behind the success of establishing the digitisation process for Ephemera

- The systematic formal documentation from the very beginning helps in manage the entire development process
- Learning by doing is the best teacher
- Numerous experts building the workflow over functional units and organisations and the entity lead by the project organisation
- Genuine <u>enthusiasm</u>, a touch of <u>insanity</u> and <u>commitment</u> to resolve the difficult issues are key factors for the success
- Precise written requirement specifications with process descriptions done for the data system supplier
- ⇒ Well-planned processes and data systems with practical tools are essential for mass digitisation and logistic management



Thank You!

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