



THE NEW SYSTEM ARCHITECTURE – BETTER SERVICES

**Finnish National Digital Library project for archives,
museums and Libraries**

10.9.2008

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Agenda

WHY?

WHAT?

HOW?

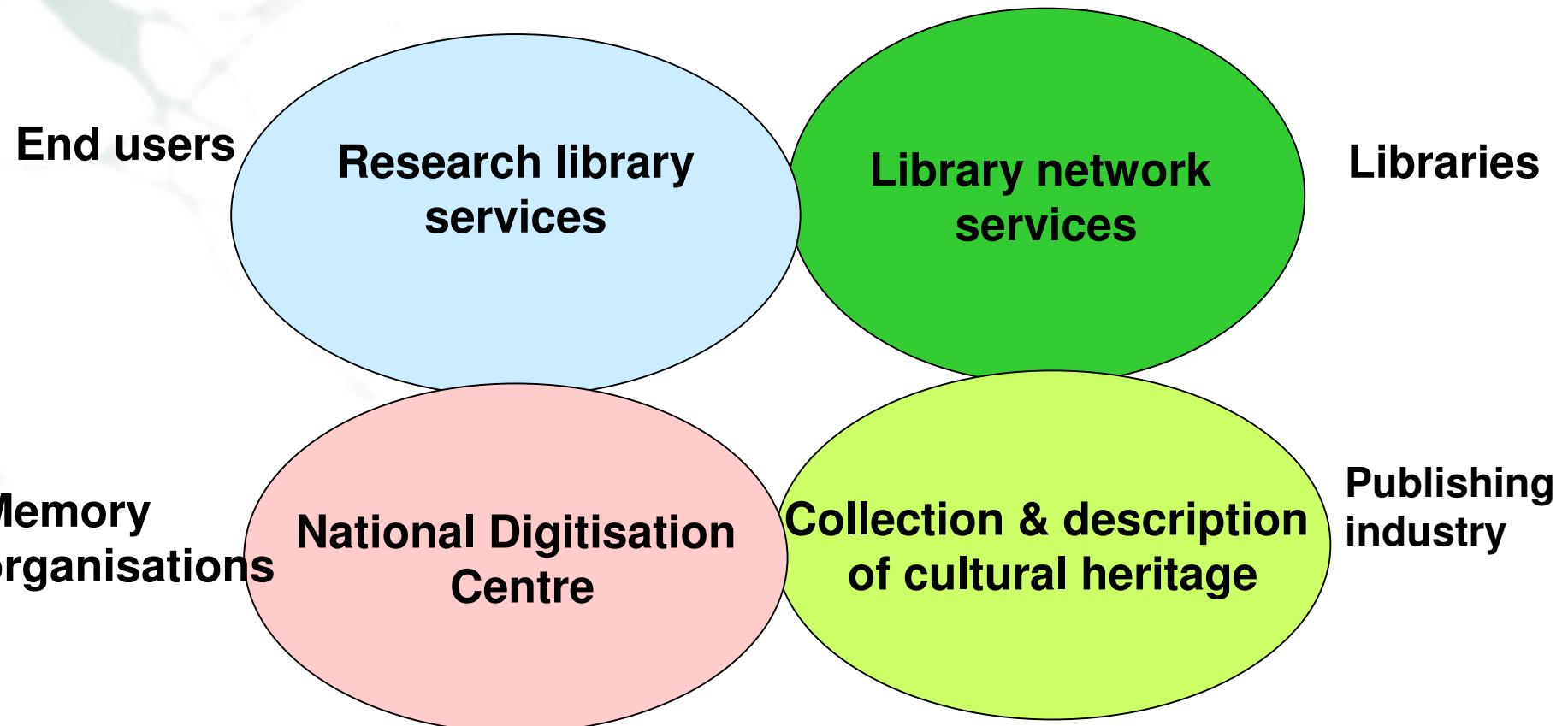
- The National Library of Finland
 - Customers
 - Services
- System Architecture Project /National Digital Library
 - Aims of the project
 - Scale of the project
 - The New System Architecture
 - IT infrastructure
- Opportunities and challenges
 - OSS or not



The National Library of Finland

Library Network Services

National Library Organisation 2007



Customers of Library Network Services

- All Finnish university libraries (20)
- All Finnish polytechnics (28)
- All Finnish public libraries (more than 400 municipalities)
- Special libraries (some 30)

National Library Network Services (1/3)

- Top quality availability of information resources
 - National catalogues
 - Linda, Union Catalogue
 - Arto, Reference Database of Finnish Articles
 - Fennica, the National Bibliography of Finland
 - Viola, the Finnish National Discography and National Bibliography of Sheet Music
 - National licensing and usage support
 - FinELib, the National Electronic Library
 - Nelli, the National Information Retrieval Portal

National Library Network Services (2/3)

- Development of the digital working environment
 - Library system - Voyager
 - Nelli Library Portal – MetaLib/SFX
 - Digital Object Management System – Dspace
 - Union Catalogue - Aleph
 - Standards and formats
 - > NLF is Service Center for Finnish Libraries

Services for the Library Network (3/3)

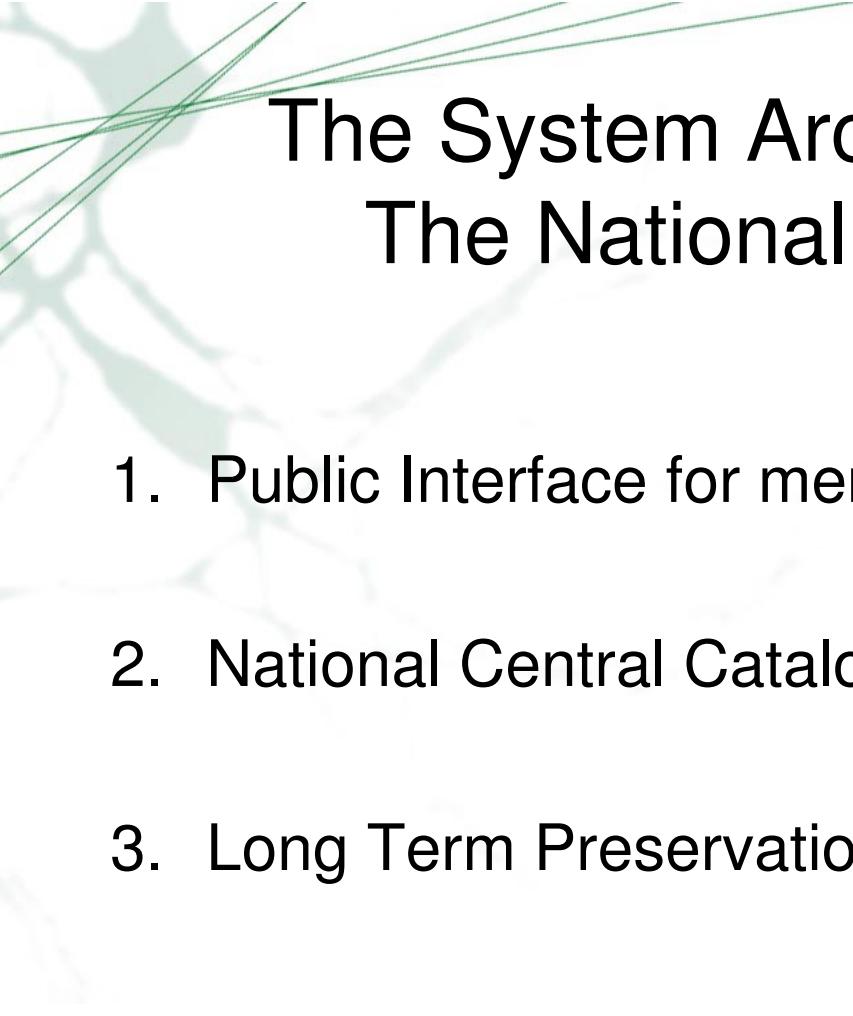
- Tools for evaluation and impact assessment
 - Quantitative - library statistics
 - Maintenance and development of Research library statistics database
 - Statistics of electronic resources (FinELib)
 - Qualitative – surveys
 - National surveys for libraries network and its customers

What happened in 2007

1. National IT Strategy for Libraries

- Public Interface
- Long Term Preservation System
- National Union Catalogue
- National Digitizing Project
- Merging and rationalizing Consortia
- Librarian skills & workflows & co-operation

2. National Digital Library Definition



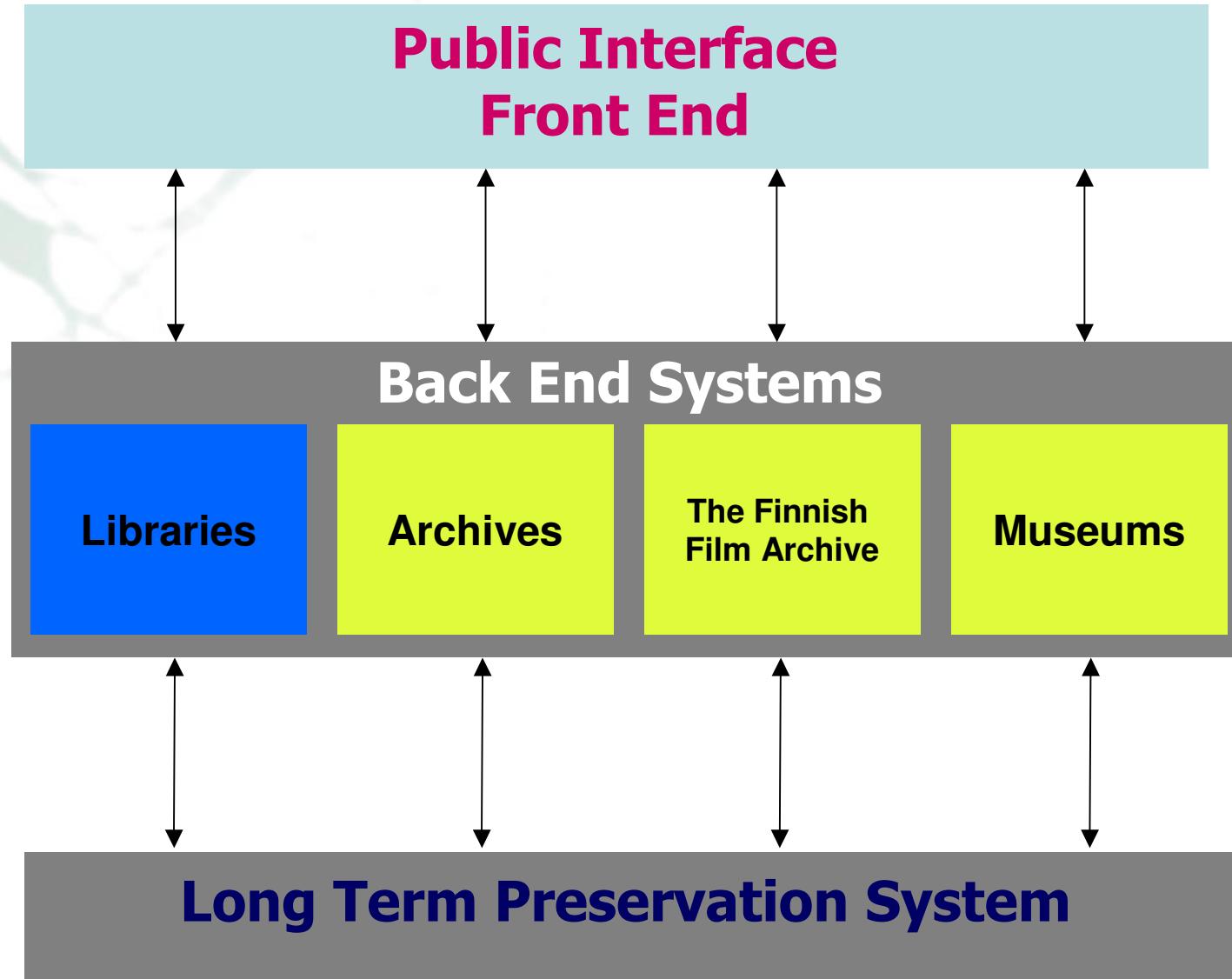
The System Architecture Project

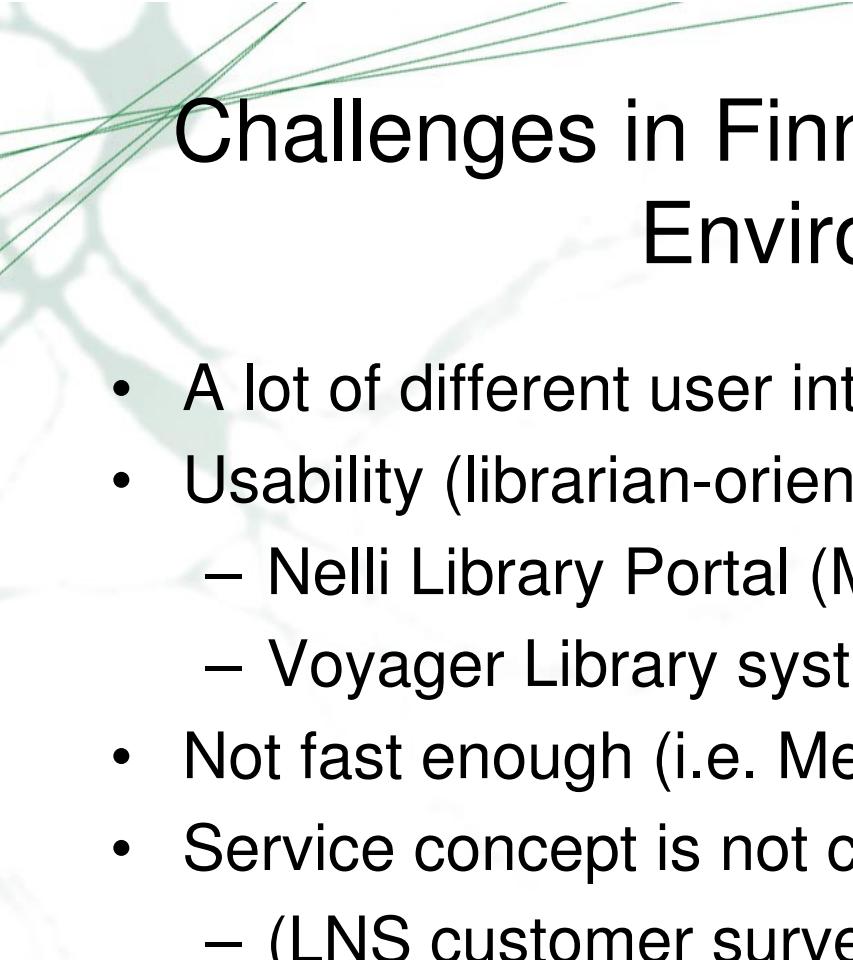
The National Digital Library



1. Public Interface for memory institutions
2. National Central Catalogue ... (National Library System)
3. Long Term Preservation System for memory institutions

The National Digital Library



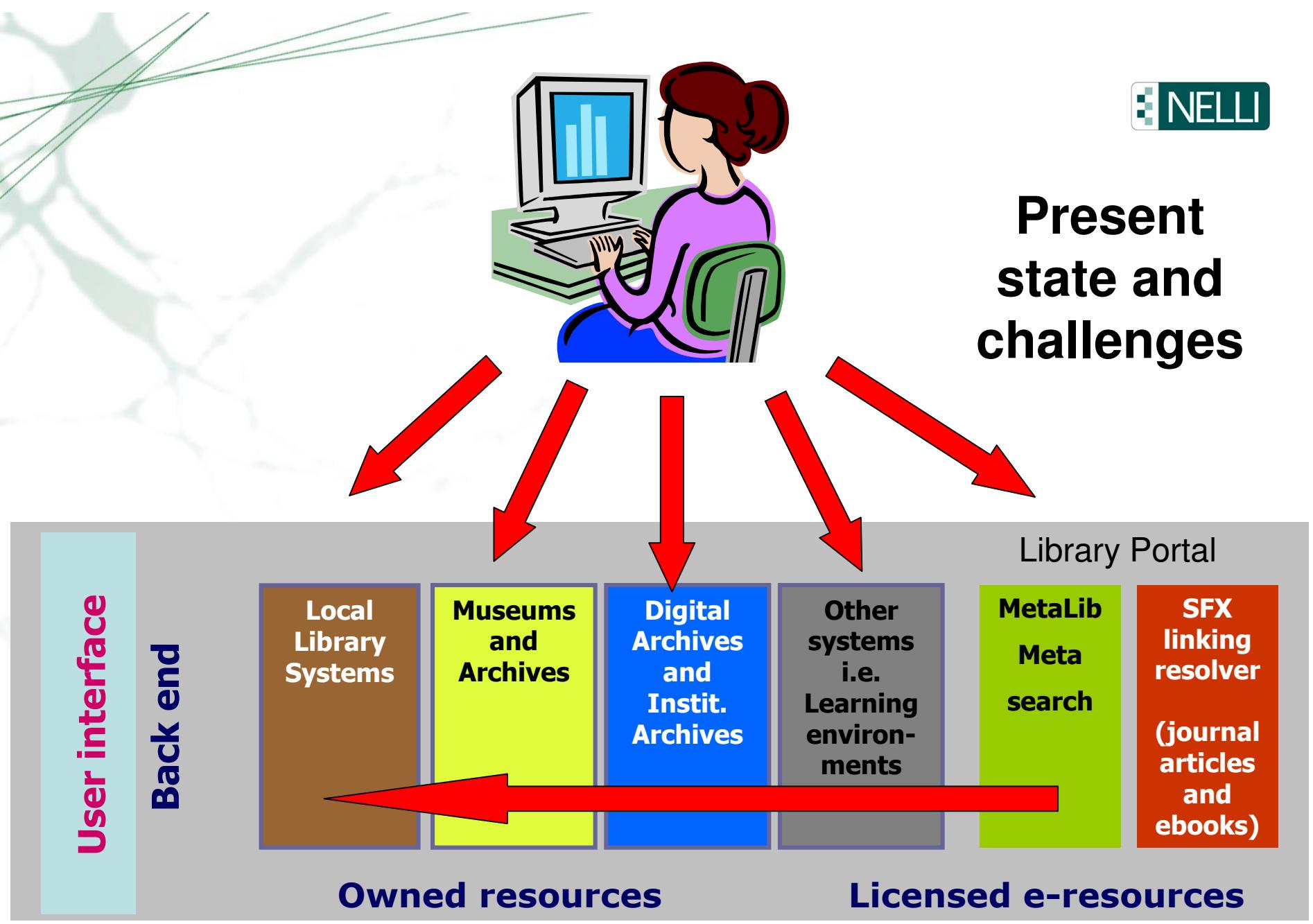


Challenges in Finnish Digital Working Environment



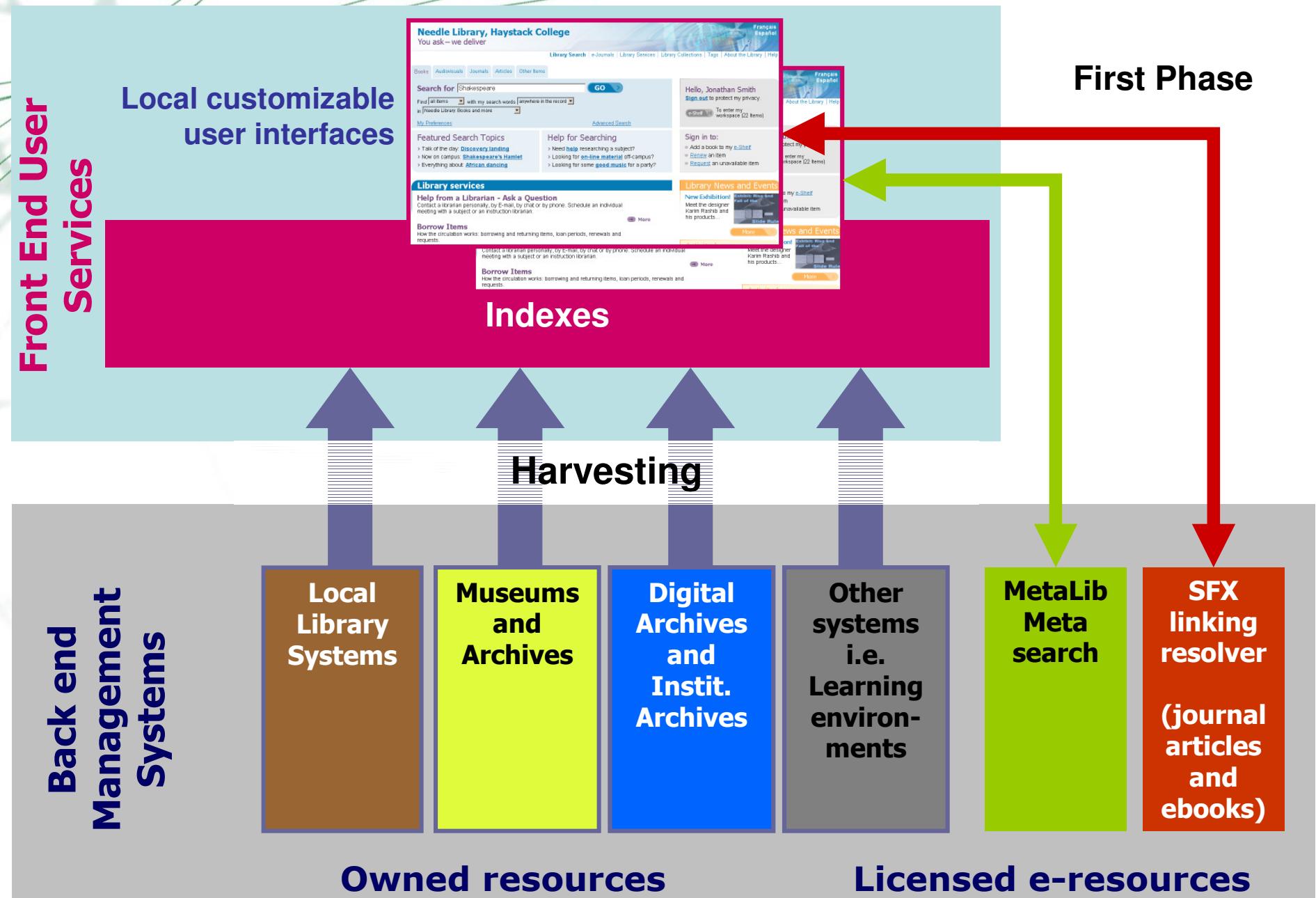
- A lot of different user interfaces
- Usability (librarian-oriented, technology)
 - Nelli Library Portal (ML/SFX)
 - Voyager Library system
- Not fast enough (i.e. MetaLib metasearch)
- Service concept is not clear
 - (LNS customer survey - 6% and 30 %)
- Librarian-oriented or organisation-oriented

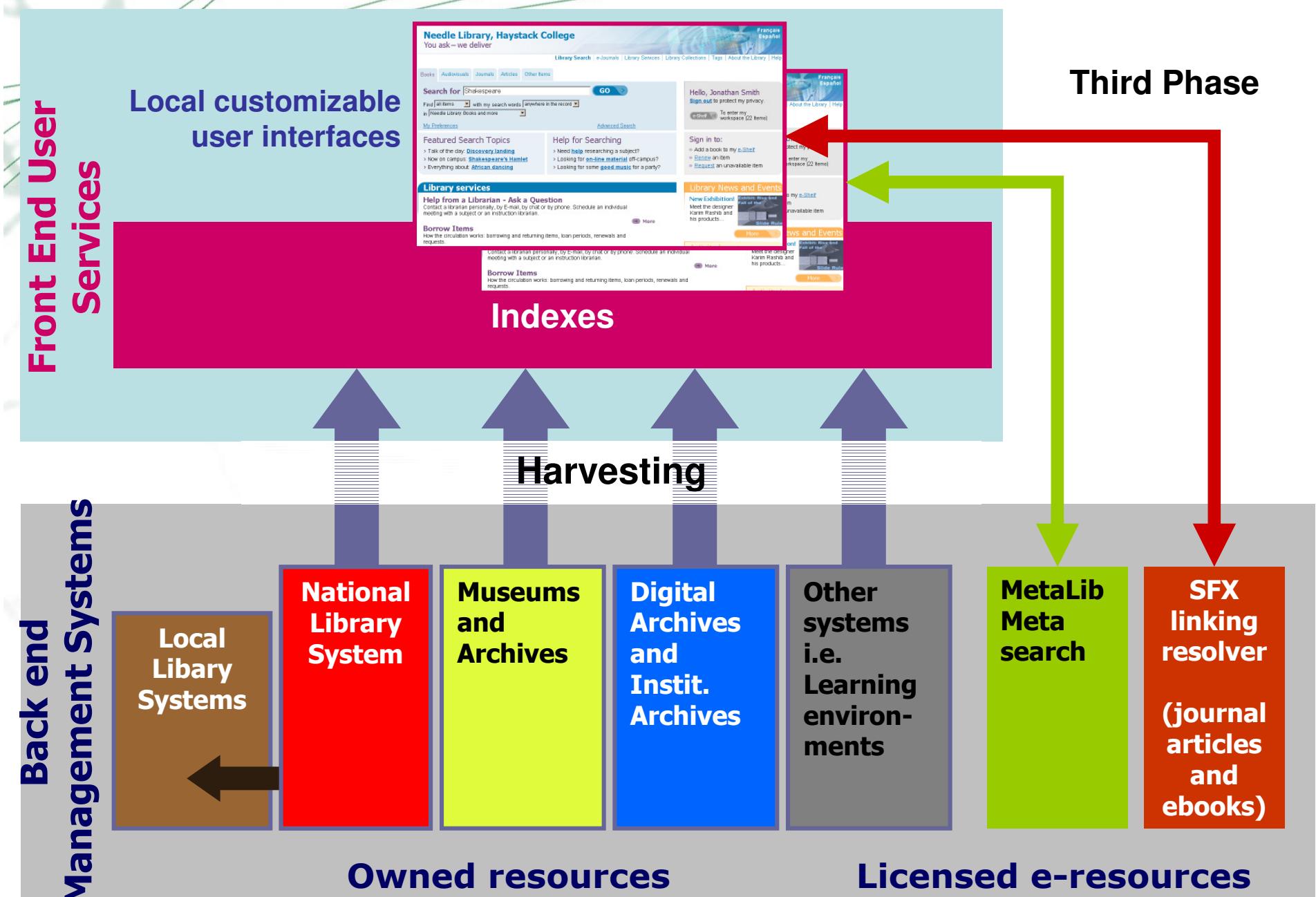
Present state and challenges



Solution: New System Architecture

- Separating user interface from back end systems
- Hiding back end systems from users
- Public interface will replace current user interfaces
(library systems, portals, institutional archives, DPS...)
- Public interface: one installation, many instances
- Public interface: search uses local indexes





The Aims of the Public Interface Project

- One user interface for services of **all libraries, museums and archives**
- Availability & accessibility
- Usability - quick and easy
- Open interfaces
- Easy to integrate
- Easy to tailor
- Economical
- Effectiveness & workflows
- Co-operation between memory institutions
- Development of Finnish research infrastructure
- A part of European research and IT infrastructure

Schedule of the Project

2008

- Marketing
- Reach the Consensus
- Requirements (tech. & func.)
- Demos

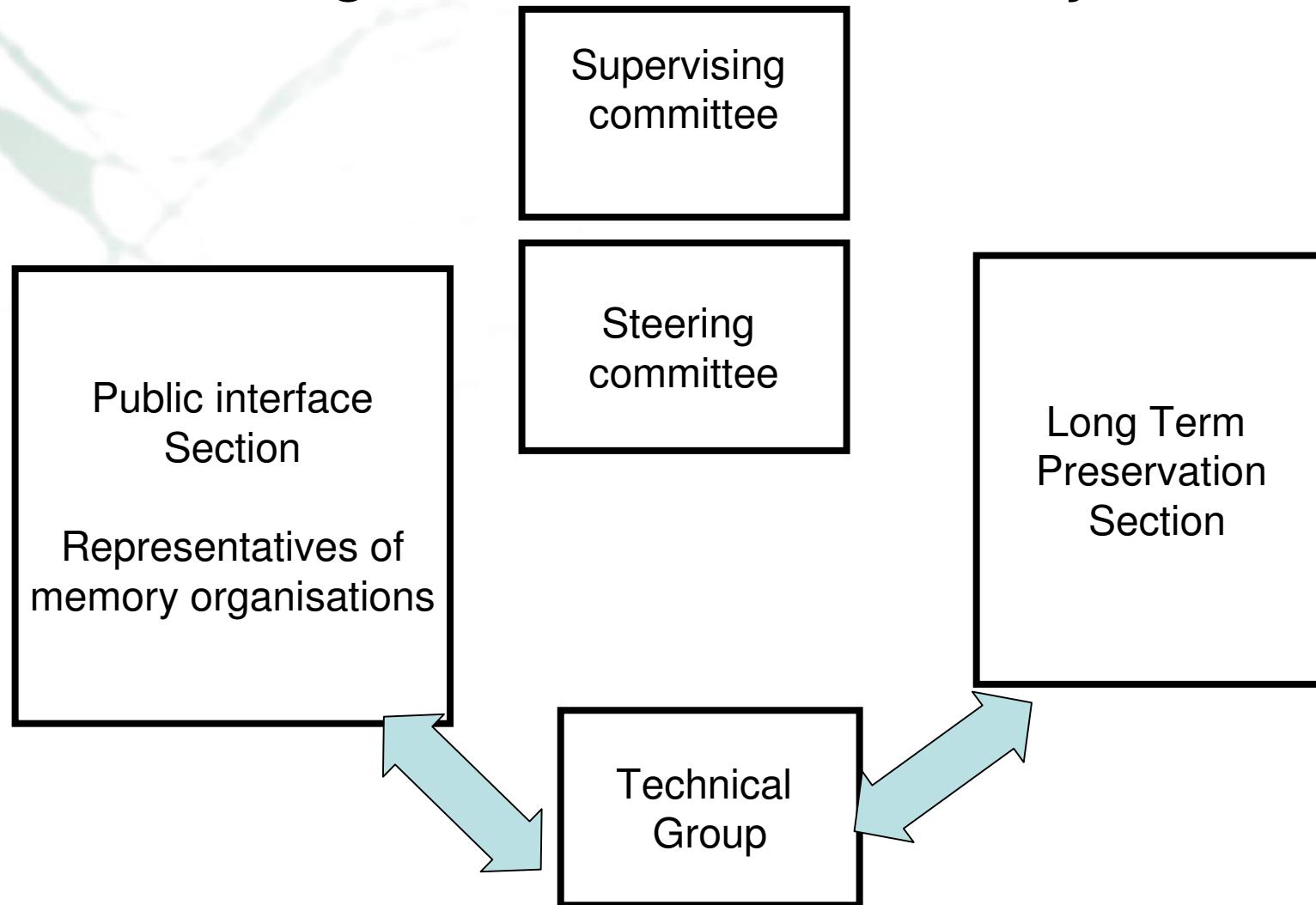
2009

- Selecting the system
- Pilot-project with
 - a university library
 - A public library
 - A museum
 - A archive
 - Europeana project

• 2010-2011

- Go to live
- More customers

The organization of NDL -Project



Opportunities and Challenges

- Clearly defined responsibilities (servers, systems, services)
- Development (systems and services)
- Co-operation
- Economic & effective workflow = better services
(rearranging workflows)
- National & European research infrastructure

- Can we satisfy local needs?
- centralized system – too rigid? (co-operation is the key to success)
- Flexibility in decision making?



Open Source Software?

- OSS SWOT

SWOT Part one

STRENGTHS

- OSS already exist for this purpose
- **No License fee**
- Tailorable
- **Image**
- Disaster proof
- Commercial vendors use OSS
- We could do it ourselves
- No need for EU procurement process
- Implementation of Standards
- Quick respond to changes in environment

WEAKNESSES

- **Staff expense**
- **Technical skills of staff**
- Weak documentation
- **Missing strong partner like Ex Libris**

OSS SWOT: Part two

OPPORTUNITIES

- **Vivid development community**
- Working structure
- We can provide an excellent service for our needs

THREATS

- Tinkering
- Disagreement with community
- Degeneration of Community
- **Different needs** -> Forking
- Aimlessness – **lack of vision**

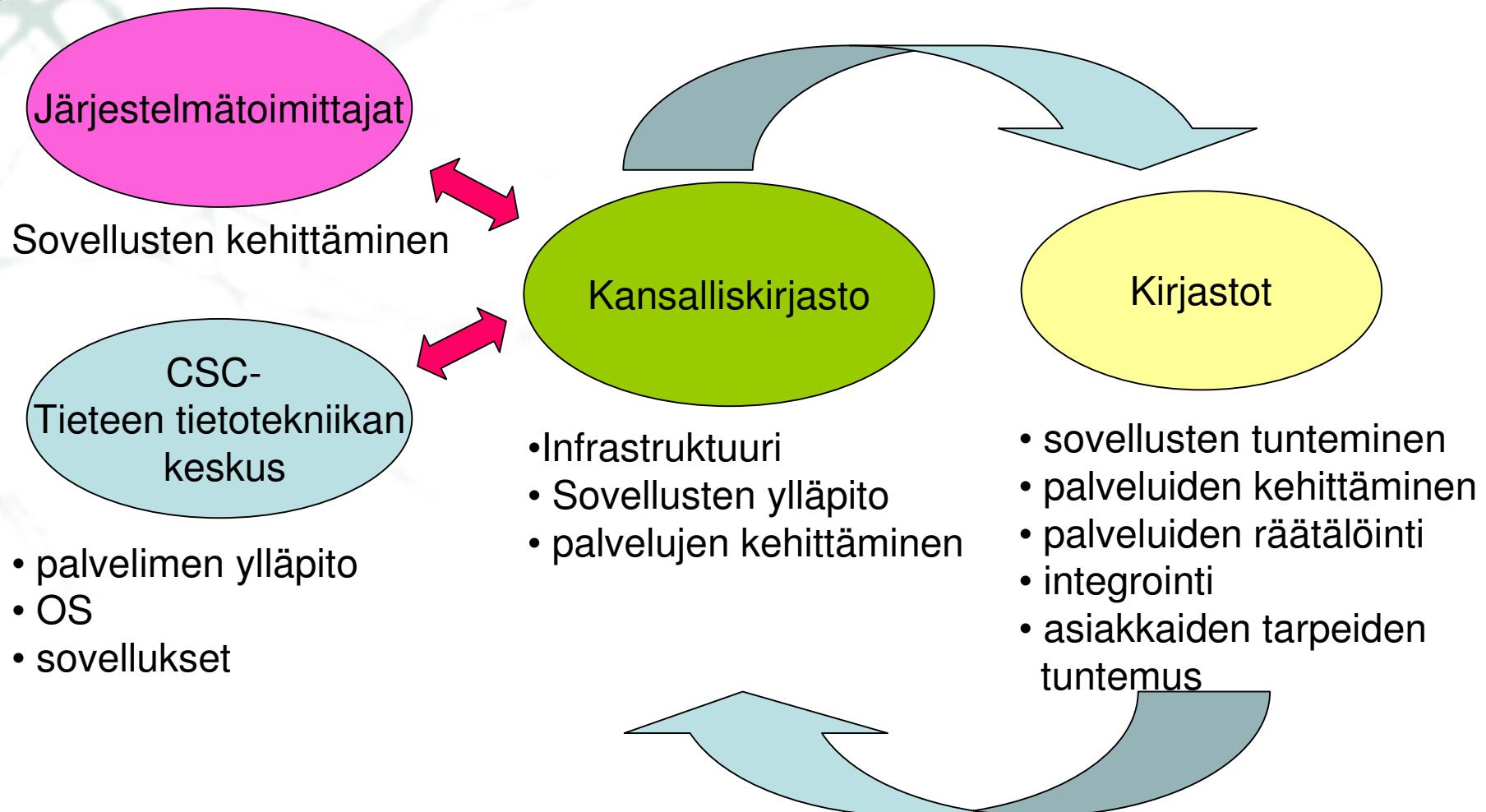


Thank You!

The National Library of Finland

Library Network Services

Nykyinen työnjako



Digitaalisen kirjaston määritelmä 07

Digitaalinen kirjasto edistää tiedon ja kulttuuriperinnön saatavuutta verkossa.

**Digitaalinen kirjasto tuottaa ja kerää,
hallinnoi sekä säilyttää digitaalisia sisältöjä
ja tarjoaa niistä palveluita asiakaslähtöisesti,
suunnitelmallisesti ja laadultaan mitattavasti.**

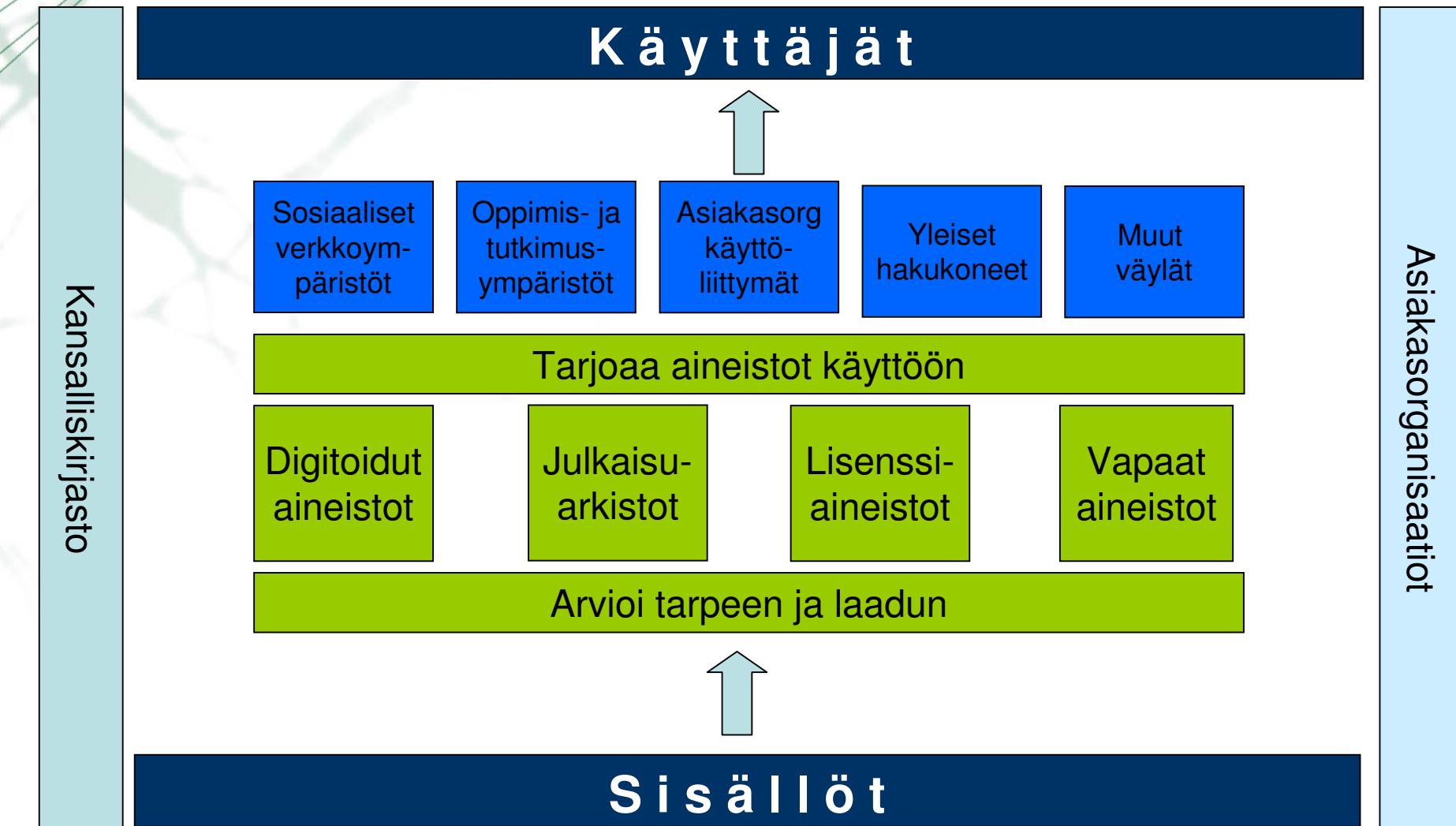
Sisältöjen tuottamiseen ja keräämiseen kuuluvat digitointi, hankinta ja lisensiointi.

Hallinnointi sisältää järjestelmät, kuvailun, käyttöön asettamisen ja käyttöoikeuksien hallinnan.

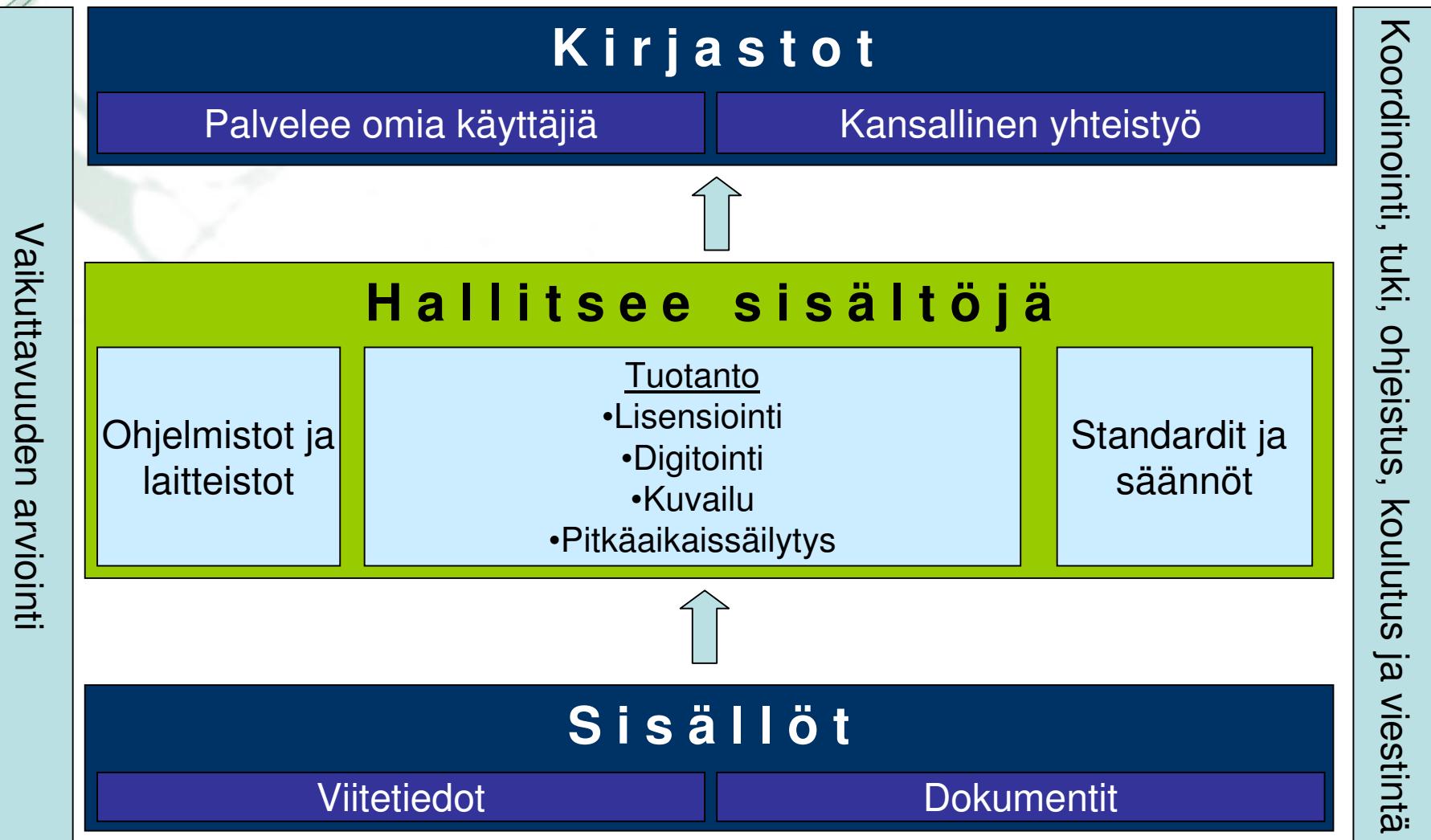
Säilyttäminen tarkoittaa aineiston käytettävyyden varmistamista pitkällä aikavälillä.

Asiakaslähtöisyys on palvelujen toiminnallista suunnittelua asiakkaiden tarpeiden ja jatkuvan vuorovaikutteisuuden pohjalta.

DIGITAALISEN KIRJASTON PALVELUT KÄYTTÄJILLE



DIGITAALISEN KIRJASTON PALVELUT KIRJASTOILLE



Tietohallintotoimenpideohjelma

- **Asiakasliittymä** 2008-2011
- Pitkääikaissäilytysjärjestelmä 2009-2012
- Kansallinen yhteisluettelo 2008 ->
- Digitoinnin tuotannonohjaus 2008-2009
- Konsortiot (selvitys ... mahdollinen yhdistäminen)
- Osaaminen ja toimintatavat (selvitys 2008-2009)

Asiakaslittymän aikataulutus

Valmisteluvaihe 2008-2009

- Tahtotilan saavuttaminen
- Ideoiden kehittely,suunnittelu
- Järjestelmien esittely (Arena, Endeca, Encore, Primo,Summa)

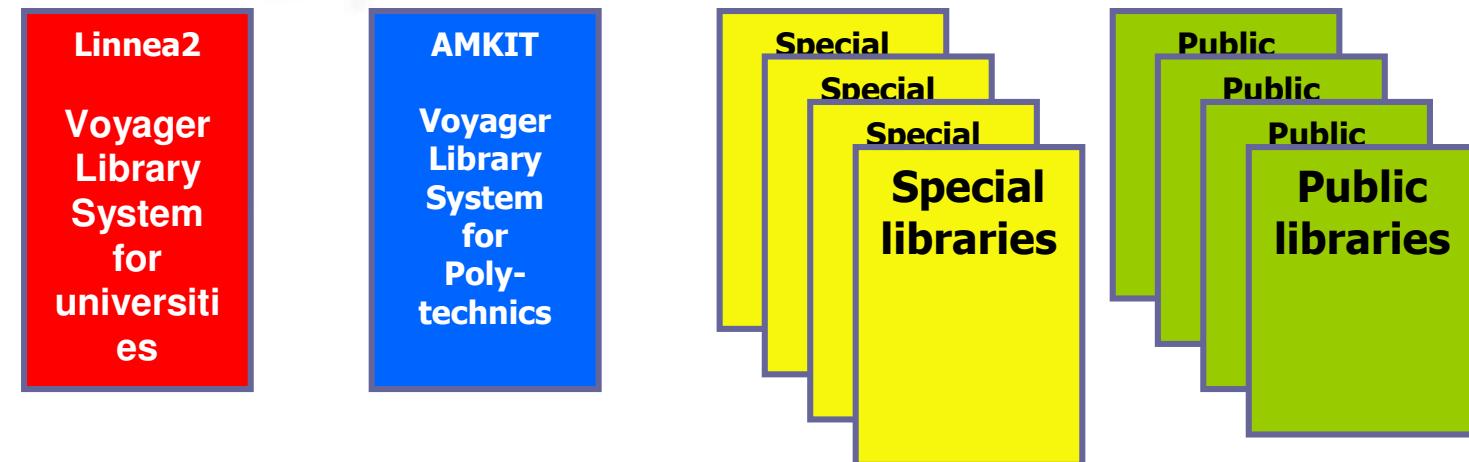
Pilottivaihe 2009-2010

- Järjestelmän valinta
- Pilottivaihe (eri sektorien kirjastoja yksi museo ja yksi arkisto)
- Rajapintatyö
- Koulutussuunnitelma

Tuotantoon 2010-2011

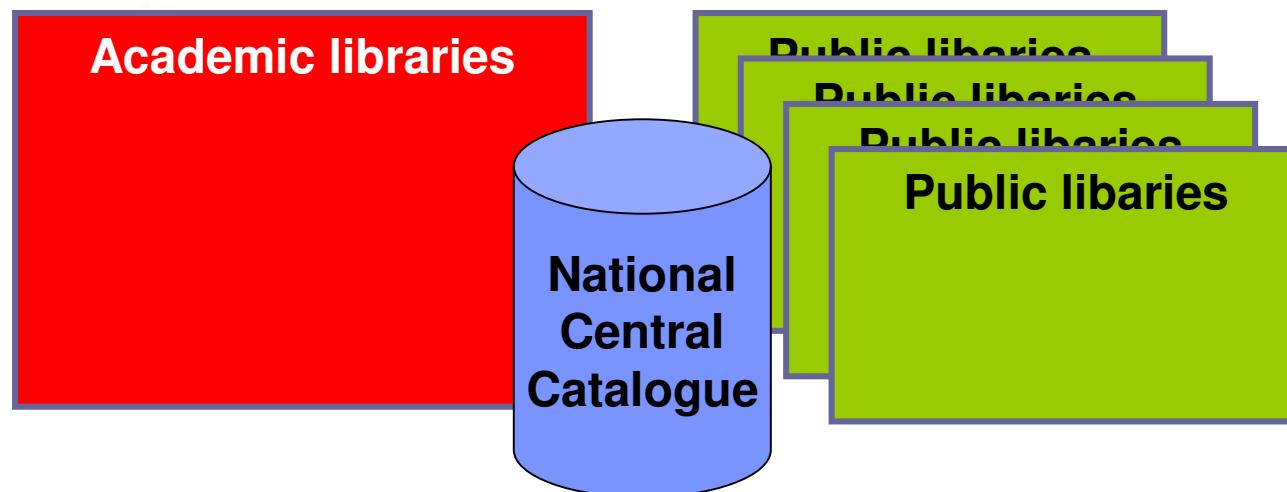
- Laajempi ohjelmistolisenssi
- Laitteiston laajennus
- Europeana

Vision: National Library System : Present state and scenarios



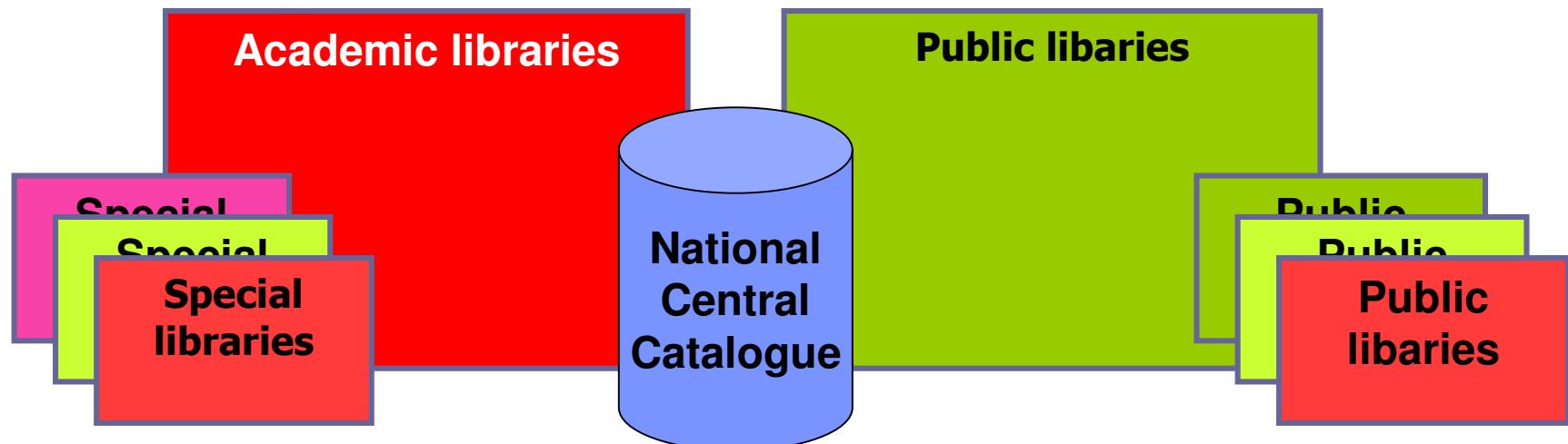
A couple of Centralized Systems

- One library system for universities, polytechnics and special libraries
 - Yleisillä kirjastoilla useita järjestelmiä (mahd. keskitetysti ylläpidettäviä)
 - One Central Union Catalogue



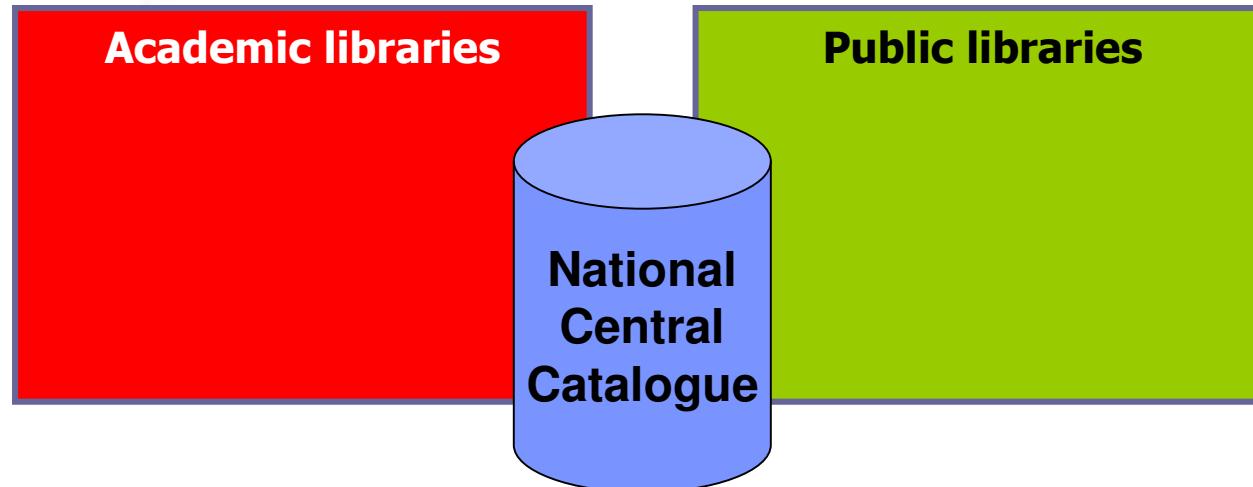
A couple of Central ILS and many Local ILS

- Yksi kirjastojärjestelmä yliopistoille, AMKeille ja osalle erikoiskirjastoja
- Yleisillä kirjastoilla keskitetty järjestelmä ja useita muita (mahd. keskitetysti ylläpidettäviä)
- Kansallinen yhteisluettelo yhteinen molemmille



Two Central Library Systems

- One for academic libraries
- Another for public libraries
- National Central Catalogue for all



”The National Library System”

- Yhteinen kirjastojärjestelmä kaikille
- Kansallinen yhteisluettelo
- Mukaan asteittain

