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THE NATIONAL
LIBRARY
OF FINLAND

Finna
Opening Access to Cultural Heritage and Scientific Information

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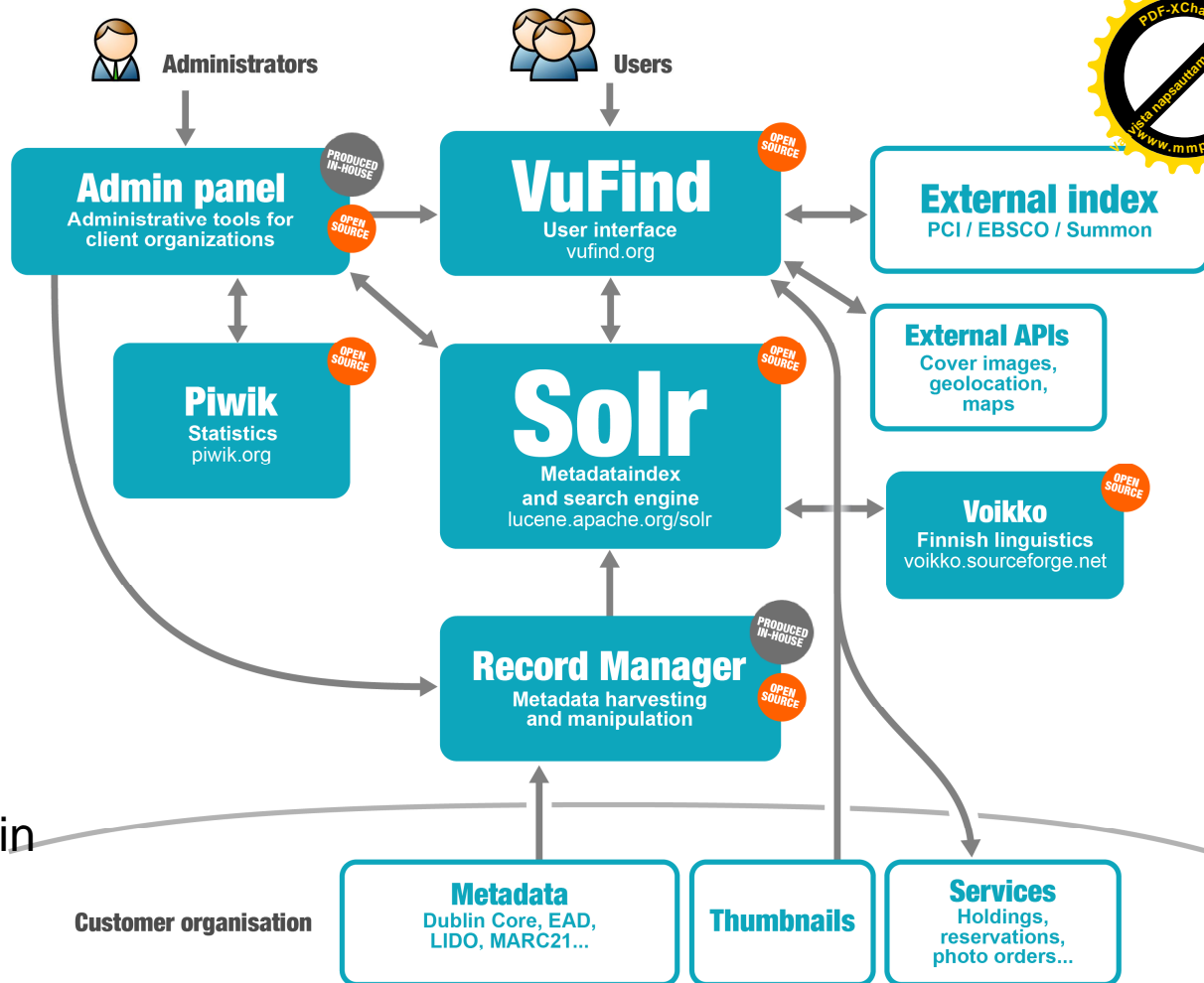# The Public Interface FINNA

Users can:

- Search information from archive, library and museum systems and databases.
- Retrieve materials, such as pictures, documents, newspapers, research documents, video and audio recordings.
- Access digital services, such as renew loans, buy pictures and order documents.

One user interface, multiple end-user views and services:

- National view for all content.
- Local and sector specific views (museum's view).
- Institutions' own views.

Software Architecture of Finna

- Finna is based on several software modules that are integrated together; therefore new modules can be added to the system if necessary
- Finna consists of two main parts:
  - End users' national interface or portal
  - Archives', libraries', and museums' administrator tools
- Main modules of the Finna system are:
  - End users' interface based on VuFind
  - Administrator panel for organisations, customisation and statistics
  - Search engine Solr
  - Metadata harvesting and processing module RecordManager (Formula)
  - Finnish linguistics module Voikko
  - External index and external APIs

- VuFind's role as the user interface is central.

- Admin panel handles statistics and upkeep.

- More functionality and modules can be added in the future.

- Finna's demo:
  www.kdk.fi/en/public-interface

Main Principles Steering the Development of Finna

- Development is based on the requirements defined together with libraries, archives, and museums.

- Organisations will become users of the software in phases.

- Development occurs in development cycles.

- The services are planned together with the customers.

- The user interface software is based on VuFind and additional open source software modules.

- National Library is responsible of the development of the software.

Customer driven development and Finna

- Why open source software (OSS) and agile development method?
    - Value of software is in how it enhances (existing) activities or enables (more efficient) new ways of doing things.
    - Above mentioned issues rely on e.g. how easily or efficiently users can utilize the system/software in question.
    - Note that software's functionality is not enough but usability, integratability (related to openness, APIs), and customization are also important.
- Development progresses in development cycles and issues are priorised according to users' needs.
- NDL's user interface Finna will need to continue to develop also in the future.
- Agile development methods (Scrum in this case) and OSS based development fully support ongoing, customer driven service development work.

Key Factors behind Finna's Success

- Central funding for infrastructure services.

- Tradition of collaboration especially in library domain.

- Systematic development of centralised services.

- Customer organisations involved in steering centralised services.

- Flexible, customer-driven agile development.

- Software architecture is based on modular design with good APIs.
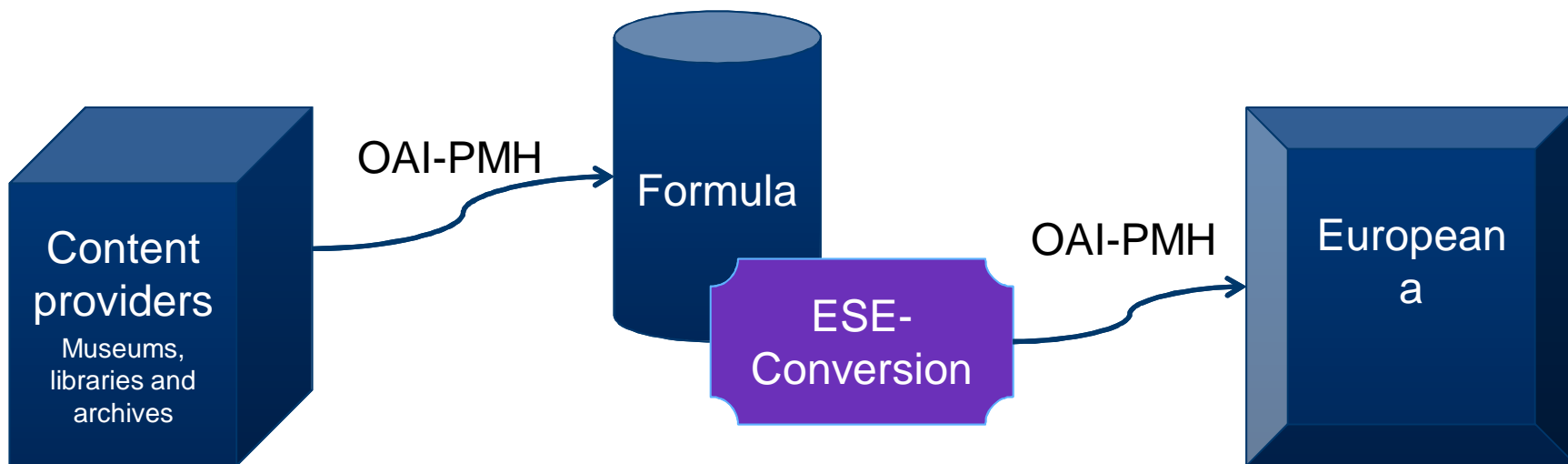
- International collaboration fastens development.

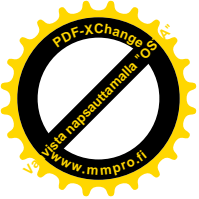# Formula Metadata Converter and National Aggregator

- National Digital Library (NDL) – National aggregator
- National Library of Finland (NLF) – Practicalities

- NLF will sign agreement with Europeana on local content providers' behalf
- NLF makes agreements with local content providers

"Division of Labour"

- Tasks of the National Aggregator (NLF)
  - Instructions and support
  - Harvesting from content providers repository
  - Testing converted data
  - Communication with Europeana
  - OAI-PMH –repository for Europeana
- Tasks of the Customer Organisations
  - OAI-PMH –harvesting interface
  - Conversion rules
  - Confirming rights
- Tasks of Europeana
  - Harvesting ESE format from our Formula Repository
  - ESE/EDM specifications

NATIONAL LIBRARY NETWORK SERVICES

Formula Workflow

Content providers
Museums, libraries and archives

OAI-PMH

Formula

ESE-Conversion

OAI-PMH

Europeana

Thank you!

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For more information see:

http://www.kdk.fi/fi/europeana-ja-muut-hankkeet/formula/formulaukk

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