

# Introduction to the ARROW system

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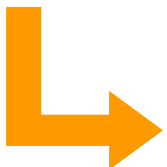
[www.arrow-net.eu](http://www.arrow-net.eu)

ARROW Plus is a Best Practice  
Network selected under the  
ICT Policy Support Programme  
(ICT PSP)



# ARROW

- ARROW is the result of 2 consecutive EU projects lead by AIE
  - } **ARROW** (2008-2011) and **ARROW Plus** (2011-2013)
  - } **26 partners + 10 supporters** are currently involved
- ARROW is a system for
  - } **Integrating distributed data sources** within a comprehensive Rights Information Infrastructure
  - } **Searching for the rights status and rightsholders** of textual works in an automated way, reducing time and costs of any digitisation programme
  - } **Including copyrighted material** in digital libraries, to overcome the black hole of the XX<sup>th</sup> century
  - } **Identifying orphan works** as a results of the diligent search process, in line with the MoU and the EU directive



ARROW builds an **alliance** between **libraries, publishers, authors** and **collecting societies** towards common services for the cultural heritage

# A tool for cultural heritage

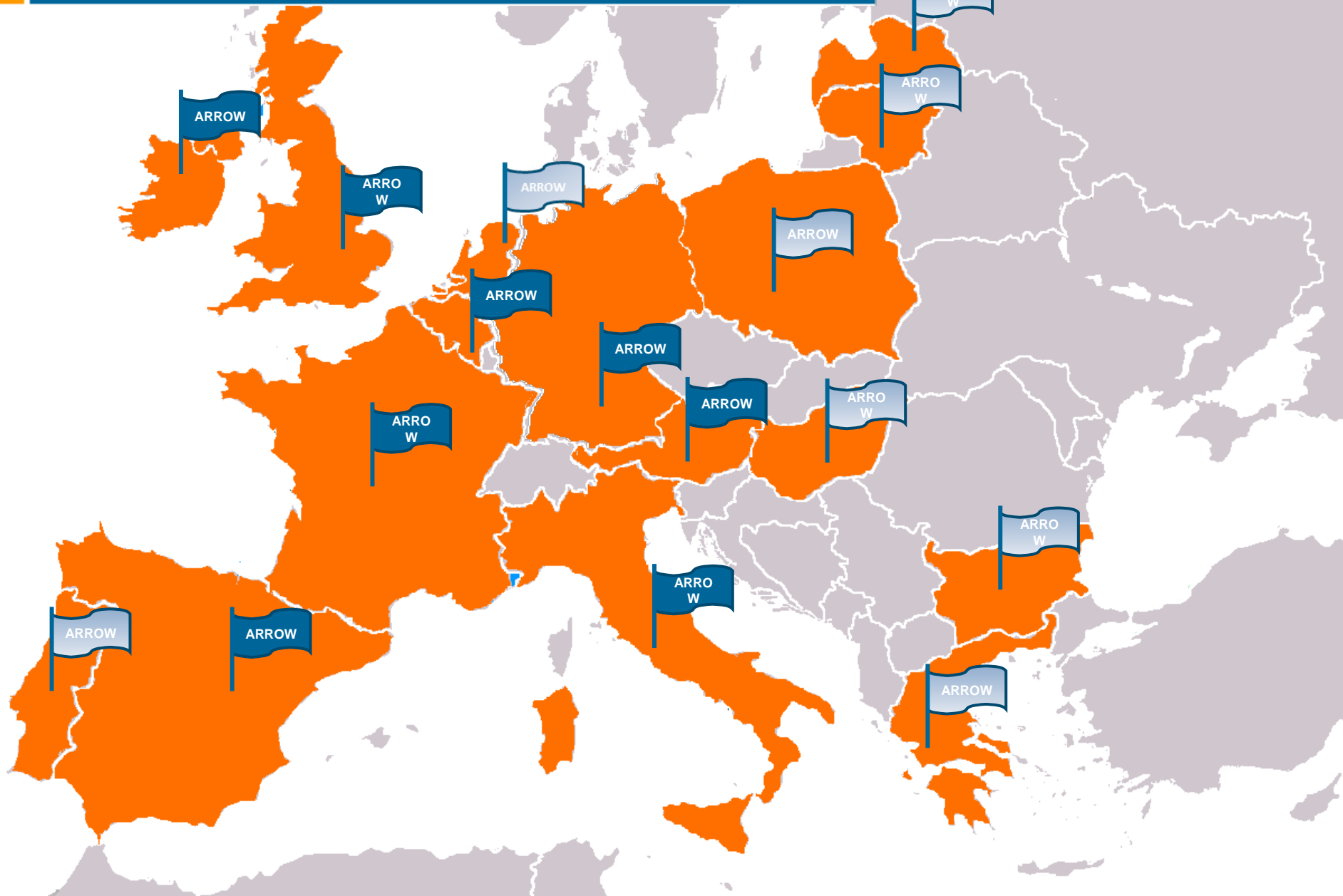
- The ARROW system provides tools to identify the rights status of textual works and to facilitate the **search for rightsholders in any digitisation programme**
  - } **large scale digitisation** programmes, including digitisations projects in the framework of collective licensing agreements on **Out of Commerce works**
    - as demonstrated by the use of ARROW system in France for the **ReLIRE** use case
  - } **smaller scale digitisation** programmes by any library or other organisations wishing to digitise a collection of books
    - as demonstrated by the use of the ARROW system in the UK, for a digitisation project of the **Wellcome Trust** library and by **British Library** in the framework of **Europeana Collection 1914-1918** initiative
  - } **a diligent search**, according to the principles of the Orphan Works Directive
    - as it has been listed among the appropriate sources to be consulted in conjunction with a diligent search process for rightsholders of published works

# From ARROW to ARROW Plus

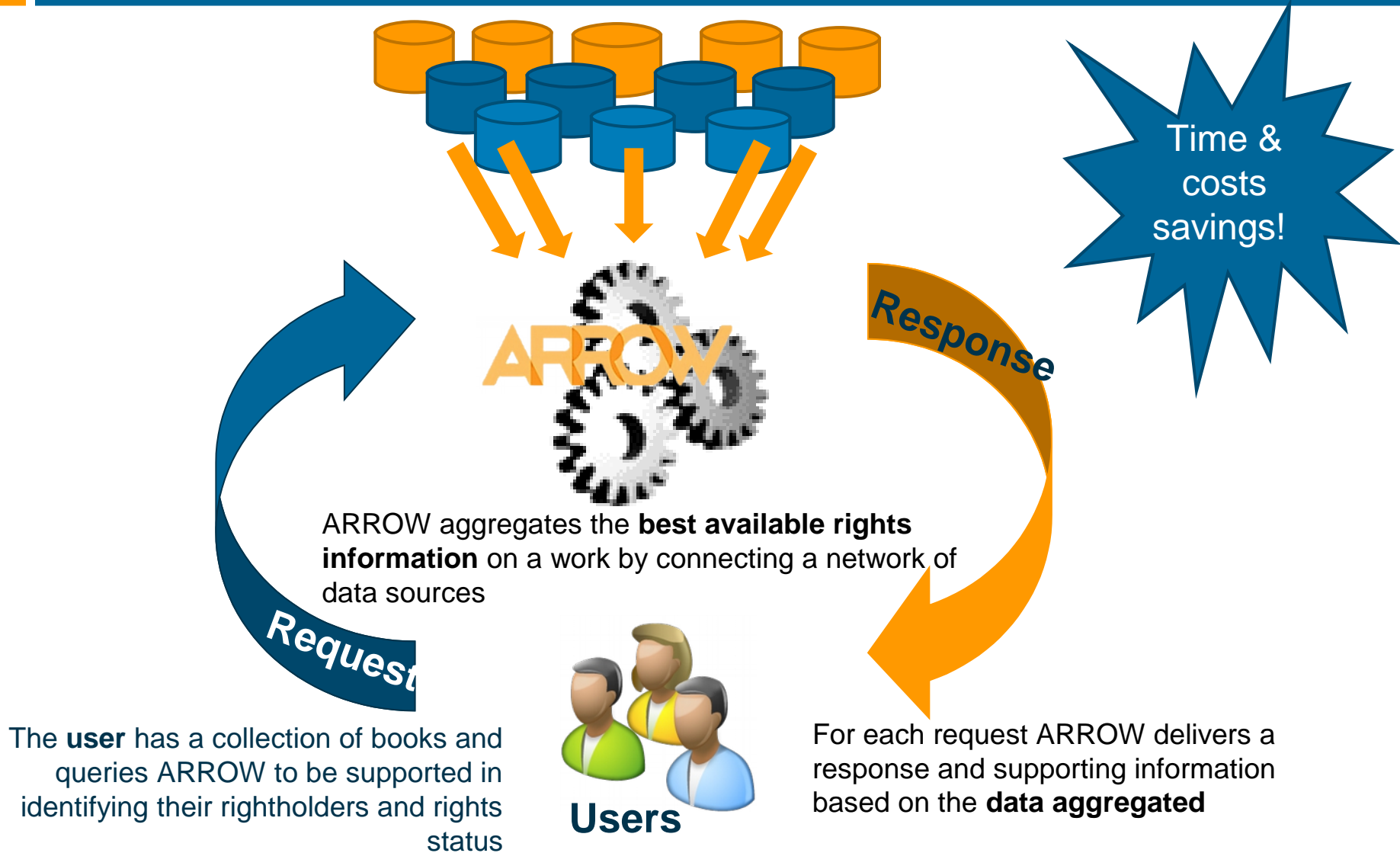


✓ April 2011

✓ December 2013



# How the ARROW system works



# The backbone of the ARROW system

- For each book, ARROW queries and processes data from multiple sources available in the country of publication
  - } **TEL database** (The European Library), to identify the book and to cluster it with all other books containing the same work
  - } **VIAF** (Virtual International Authority File), to better identify the authors and support the identification of in copyright works
  - } **BiP** (Books-in-Print) in the country of publication, to know if any of the books concerned is in print (actively commercialised by any publisher)
  - } **RRO database** (Reproduction Rights Organisation), to see if they know or can trace the rightsholders

# The Registry of Orphan Works

- Orphan works are definable at the end of a search process and ARROW provides an environment and tools to facilitate the search for rightsholders
- ARROW approach to the search for Rights Information was worked out to be compliant with the HLG guidelines on diligent search
  - } the search is done prior to the use of the work
  - } the search is done title by title or work by work
  - } each step of the search is documented and results stored
  - } the workflow is executed on country-basis according to country of the work's origin
- At the end we may have some unsuccessful searches: these works are “candidate orphans”
- It is up to stakeholders, within a given legal framework, to decide whether a work is orphan or additional searches are required

# System Demo



# What we have achieved so far

- } **System enhancements** to make it more fit to mass digitisation projects and to increase the quality of data processing (identification of RHs and copyright status) have been **implemented**
- } **16 countries** in Europe are now connected to the Arrow system, and real use cases emerged
- } **6 countries, including Poland**, will be able to adopt the **ARROW Books in Print Software** and improve the existing book infrastructure
- } A module for being connected to ARROW has become a built-in feature of WISE, the **IFRRO standard software for RROs**
- } A **standard** message suite for Rights Information Services, **ONIX RS**
- } A feasibility study for an ARROW-inspired project **for still images**
- } An ARROW-inspired project for audiovisuals, **FORWARD**

# ...by collaborative effort

- ARROW relies on **knowledge sharing and collaboration** among stakeholders
  - ┆ **Project partners diversity:** libraries, publishers and authors associations, visual artists, collective management organisations, ICT providers, service providers, standard setting organisations and their umbrella organisations
- **Over 50 stakeholders associations** have been actively participating in the network, involving their members in the ARROW events
  - ┆ **Data sources diversity:** national libraries bibliographies and authority files, book supply chain data, rights management data
- **Over 35 data sources** are feeding the system with information that the ARROW system aggregates and elaborates
  - ┆ **Cross-domain and cross-country collaboration**
- National libraries and The European Library collaborated with publishers associations for the initial population of new Books in Print registries
- Organisations managing consolidated and new Books in Print services across Europe, and their IT providers, shared experiences, knowledge and business cases
- Collaboration among NCPs has been established to discuss and agree possible additional developments to the BiP sw beyond the project end