



This work is licensed under a Creative Commons Attribution 4.0 International License.

# Designing TALARIA: a New Software to Support Resource Sharing of International Communities

Silvana Mangiaracina, Alessandro Tugnoli,  
Debora Mazza, Rabih Kahaleh

Dario Nobili Library, Bologna Research Area, National Research  
Council, Bologna, Italy

IT Department, University of Balamand, Kelhat, Lebanon



# Resource sharing consortium

## Library Consortium:

*A formal association of libraries, usually restricted to a geographical area, set number of libraries, type of library, or subject interest, that is established to develop and implement resource sharing among the members and thereby improve the services and resources available to their respective target groups.*

*Cit. Document Delivery and Resource Sharing: Global perspectives – Glossary  
a HERMES project intellectual output*

# Resource sharing community

**Library Consortium**

**+**

**Community** *of knowledge professionals open to collaboration and sharing through the sharing of best practices, knowledge, training, experiences, projects,...*

**=**

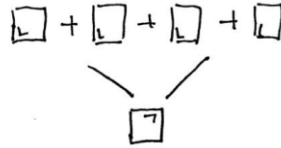
**Resource sharing community**

# The founding pillars of Resource sharing communities

- **People**
- **Common policies**
  - bylaws, rules and regulations
- **Common technology platform**
  - catalog, request system
- **Communication tools**
  - mailing list, website, meetings and conferences, training courses, surveys

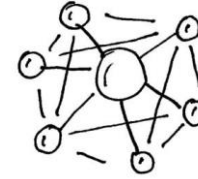


# RS consortium vs RS community



CONSORTIUM

- Coordinator
- Shared goals
- Mutual respect
- Sharing of ideas as a group
- Engagement



COMMUNITY

- Primus inter pares
- Shared vision and values
- Mutual trust
- Generation of new ideas as a group
- Empowerment

# Silos are very big containers used to produce wine



# Resource Sharing communities are like Silos worldwide



# Talaria software

- Hermes EU co-funded project
- Objectives
  - To **improve** the existing RSCVD system to increase robustness, reliability, scalability, user-friendliness, independence from commercial platforms
  - To **bridge** between existing resource sharing communities and fill the gap
  - To provide a **platform for those libraries which do not have their own** RS national community
  - To release an **Open Source software**, which RS communities can take, use and manage independently
- Hermes Software group
  - CNR, Balamand, MEF, Cantabria Universities, Hermes Scientific Committe

Photo by Richmond, W. B.. Mercury [Hermes]. Wood engraving by Jonnard after W.B. Richmond, 1866.. Artstor, library.artstor.org/asset/24880975



HERMES.

(Painted by W. B. Richmond. Groenevor Gallery, 1866.)



# Talaria software

- TALARIA is designed **to support library communities** in their Resource Sharing management, for instance:
  - the RSCVD international community
  - the NILDE community (Italy)
  - any other national, regional, RS community willing to use it as their technological platform
- TALARIA is designed **to be a flexible platform to support different needs and policies** of a RS community

# Talaria «custom» configurations

- **Graphic identity**, such as the LOGO and colours palette
- **Authentication** systems
- **Library RS profiles**
  - Peer-to-peer → each library is Borrower & Lender
  - Different profiles → BASIC: Borrower only, FULL: Borrower and Lender
- **Community policies on ILL costs**
  - Free-of-charge, or Free-of-charge with imbalance threshold
  - Fixed unit cost, ex: IFLA voucher
- **End-users management** → enabling patron requests or not
- **Catalogs** to search for holdings

# Talaria technical characteristics

- **Free and open-source** technologies as much as possible
- **Multilingual** support (English, Italian, Spanish)
- **Progressive Web App (PWA)**. Responsive, fast, secure web browsing on different platforms, including mobile devices
- **User-friendly user-interface**, based on visual communication



# RSCVD HOME



## Welcome to RSCVD - Resource Sharing during COVID-19 (RSCVD)

A high-quality, open and collaborative resource sharing service to help guarantee universal and equitable access to information. Volunteers libraries belonging to RSCVD will provide access to materials requested by interlibrary loan professionals of not-for-profit-libraries

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum



Search a reference by entering DOI, PMID or ISBN or exact title

Es: 10.1002/hlca.19740570315



Or fill the form manually

Go to the form

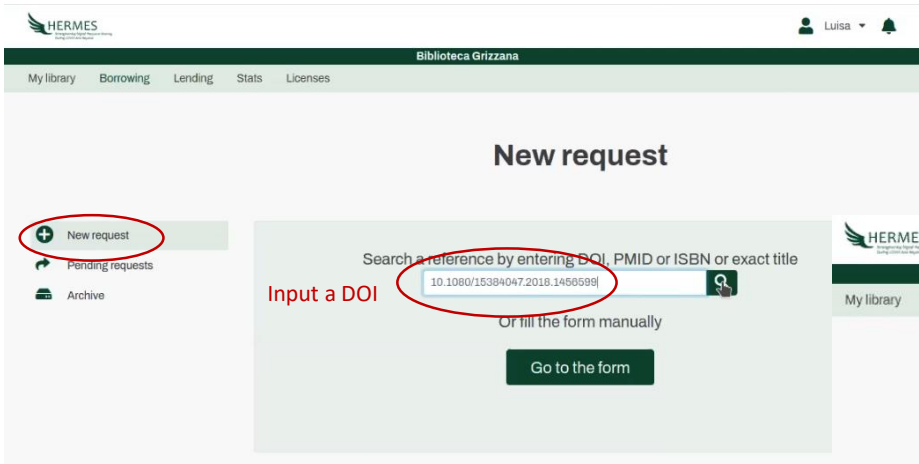


Search and import of bibliographic citation from external sources/API

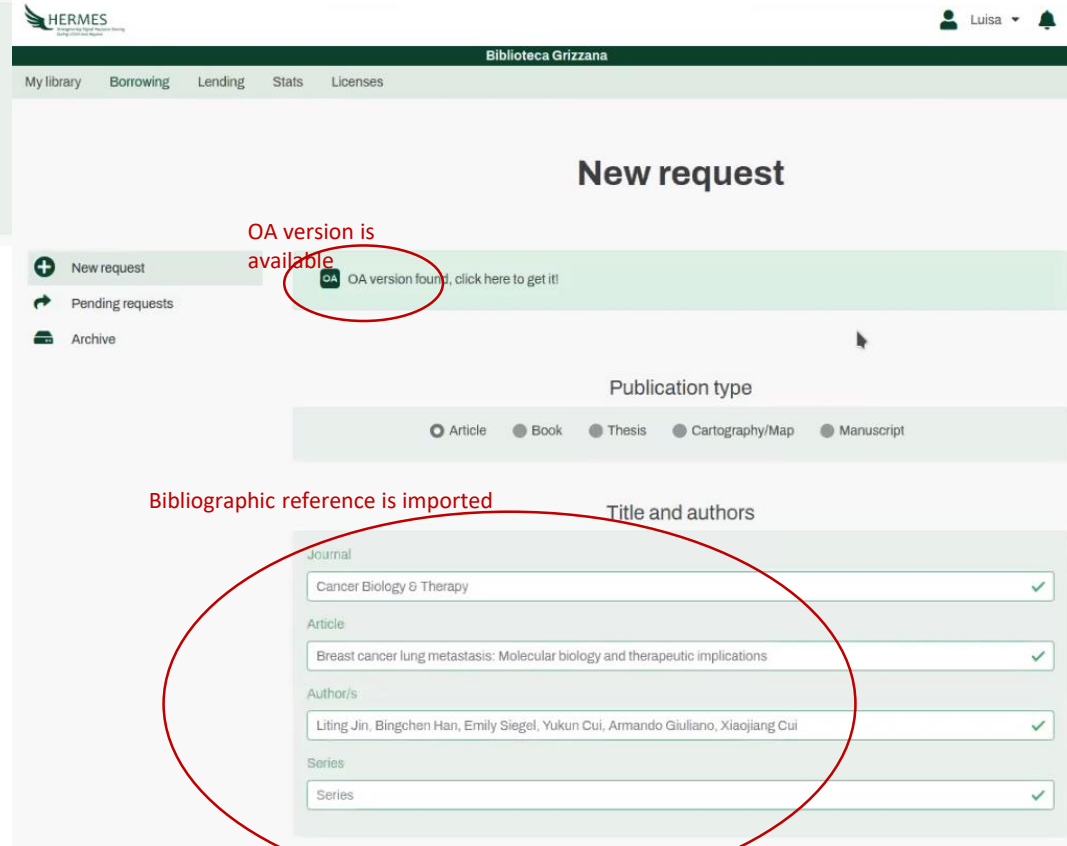


Integration with OpenAccess Button to find the OA version of a work, if available

Open Access Button is powered by OA.works



# NEW REQUEST WITH OPEN ACCESS SEARCH



# REQUESTS SUBMISSION & MAINTENANCE

The screenshot displays the HERMES library system interface for 'Biblioteca Grizzana'. The user is logged in as 'Luisa'. The navigation menu includes 'My library', 'Borrowing', 'Lending', 'Stats', and 'Licenses'. The main heading is 'Pending requests'. On the left, there are buttons for 'New request', 'Pending requests', and 'Archive'. A search bar and a 'Tags' dropdown are at the top. Below, two request cards are shown. The first card (ID: 144) is for a 'Journal of pharmaceutical sciences' article, with a status of 'Not received' and a date of '12/18/2021 11:36 AM'. The second card (ID: 143) is for 'Nature photonics', with a status of 'New' and a date of '12/09/2021 12:09 PM'. Both cards show the author and year. A red circle highlights the 'Pending requests' button and the first request card. A red circle highlights the 'ID', 'Status', 'Date', and 'Operator' fields of the second request card. A red arrow points from the first request card to the second. A red box on the right contains text about sending requests to a single library or all libraries. At the bottom, there are icons for 'Modify', 'SearchOA', 'Complete', and 'Locate Holdings', along with a 'Show rows' dropdown set to '20' and '1-2 of 2'.

HERMES  
Biblioteca Grizzana

My library **Borrowing** Lending Stats Licenses

## Pending requests

+ New request  
↻ Pending requests  
📁 Archive

Search [ ] [ ] Tags [ ]

Selected 0 di 2

ID: 144  
● Not received  
🕒 12/18/2021 11:36 AM  
👤 Luisa Rossi

📖 tag 2 ×  
📄 Journal of pharmaceutical sciences  
*Physicochemical properties of glycyrrhizic acid in aqueous media II: Effect on flocculation-deflocculation behavior of suspensions of sulfathiazole and graphite.*  
Author/s A Otsuka, Y Yonezawa, Y Nakamura Year 1978

🏠 TestBiblio29  
🕒 61 days ago  
Unfilled

👁️ ↻ 📁

Reiterate/Archive as unfilled

ID: 143  
○ New  
🕒 12/09/2021 12:09 PM  
👤 Luisa Rossi

📖 tag 2 ×  
📄 Nature photonics *photonics*  
Author/s J. Root, A. Gray Year 2010

📄 🔍 🗂️ 🔍

QA

Modify/ SearchOA/ Complete/ Locate Holdings

Show rows 20 1-2 of 2 << >>

a requests can be sent:

- to a **single** library
- to **ALL** libraries

# Different models of fishing (and resource sharing)

## Fly fishing

Fisherman throws the hook and someone takes the bait

He does not know who

→ RSCVD requesting model



ILDS 2022, Qatar National Library  
20-22 September 2022



The *tonnara* is a millenary system for fishing tuna fishermen build very complex nets to convey tunas. Each fisherman **hits one** fish and **kill it (the mattanza)**

→ The requesting model we know in resource sharing We use library catalogs to expose and share library holdings (Z39.50 search) Or RS software manage internal holdings database

# Talaria orphaned requests

It works like a **community bulletin board**

Contains all those requests that are visible to all libraries.

As for normal requests, it is necessary to accept a request to supply it.

After accepting the Orphaned request, the other libraries will no longer be able to see it or fulfil it.





# REQUESTS PROCESSING & FULFILLMENT

The screenshot shows the HERMES library system interface for 'Biblioteca Dario Nobili CNR Bologna'. The navigation menu includes 'My library', 'Borrowing', 'Lending', 'Stats', and 'Licenses'. The 'Lending' menu item is circled in red. The main content area is titled 'Orphaned requests' and features a search bar, a list of request actions (Pending requests, Orphaned requests, Archive), and a list of request details. The 'Orphaned requests' menu item is circled in red. A red arrow points to the 'Orphaned requests' menu item. Another red arrow points to the 'Orphaned requests' list item. A third red arrow points to the 'Request Received' status. A fourth red arrow points to the 'Request Received' status. A fifth red arrow points to the 'Request Received' status. A sixth red arrow points to the 'Request Received' status. A seventh red arrow points to the 'Request Received' status. A eighth red arrow points to the 'Request Received' status. A ninth red arrow points to the 'Request Received' status. A tenth red arrow points to the 'Request Received' status. A eleventh red arrow points to the 'Request Received' status. A twelfth red arrow points to the 'Request Received' status. A thirteenth red arrow points to the 'Request Received' status. A fourteenth red arrow points to the 'Request Received' status. A fifteenth red arrow points to the 'Request Received' status. A sixteenth red arrow points to the 'Request Received' status. A seventeenth red arrow points to the 'Request Received' status. An eighteenth red arrow points to the 'Request Received' status. A nineteenth red arrow points to the 'Request Received' status. A twentieth red arrow points to the 'Request Received' status. A twenty-first red arrow points to the 'Request Received' status. A twenty-second red arrow points to the 'Request Received' status. A twenty-third red arrow points to the 'Request Received' status. A twenty-fourth red arrow points to the 'Request Received' status. A twenty-fifth red arrow points to the 'Request Received' status. A twenty-sixth red arrow points to the 'Request Received' status. A twenty-seventh red arrow points to the 'Request Received' status. A twenty-eighth red arrow points to the 'Request Received' status. A twenty-ninth red arrow points to the 'Request Received' status. A thirtieth red arrow points to the 'Request Received' status. A thirty-first red arrow points to the 'Request Received' status. A thirty-second red arrow points to the 'Request Received' status. A thirty-third red arrow points to the 'Request Received' status. A thirty-fourth red arrow points to the 'Request Received' status. A thirty-fifth red arrow points to the 'Request Received' status. A thirty-sixth red arrow points to the 'Request Received' status. A thirty-seventh red arrow points to the 'Request Received' status. A thirty-eighth red arrow points to the 'Request Received' status. A thirty-ninth red arrow points to the 'Request Received' status. A fortieth red arrow points to the 'Request Received' status. A forty-first red arrow points to the 'Request Received' status. A forty-second red arrow points to the 'Request Received' status. A forty-third red arrow points to the 'Request Received' status. A forty-fourth red arrow points to the 'Request Received' status. A forty-fifth red arrow points to the 'Request Received' status. A forty-sixth red arrow points to the 'Request Received' status. A forty-seventh red arrow points to the 'Request Received' status. A forty-eighth red arrow points to the 'Request Received' status. A forty-ninth red arrow points to the 'Request Received' status. A fiftieth red arrow points to the 'Request Received' status. A fifty-first red arrow points to the 'Request Received' status. A fifty-second red arrow points to the 'Request Received' status. A fifty-third red arrow points to the 'Request Received' status. A fifty-fourth red arrow points to the 'Request Received' status. A fifty-fifth red arrow points to the 'Request Received' status. A fifty-sixth red arrow points to the 'Request Received' status. A fifty-seventh red arrow points to the 'Request Received' status. A fifty-eighth red arrow points to the 'Request Received' status. A fifty-ninth red arrow points to the 'Request Received' status. A sixtieth red arrow points to the 'Request Received' status. A sixty-first red arrow points to the 'Request Received' status. A sixty-second red arrow points to the 'Request Received' status. A sixty-third red arrow points to the 'Request Received' status. A sixty-fourth red arrow points to the 'Request Received' status. A sixty-fifth red arrow points to the 'Request Received' status. A sixty-sixth red arrow points to the 'Request Received' status. A sixty-seventh red arrow points to the 'Request Received' status. A sixty-eighth red arrow points to the 'Request Received' status. A sixty-ninth red arrow points to the 'Request Received' status. A seventieth red arrow points to the 'Request Received' status. A seventy-first red arrow points to the 'Request Received' status. A seventy-second red arrow points to the 'Request Received' status. A seventy-third red arrow points to the 'Request Received' status. A seventy-fourth red arrow points to the 'Request Received' status. A seventy-fifth red arrow points to the 'Request Received' status. A seventy-sixth red arrow points to the 'Request Received' status. A seventy-seventh red arrow points to the 'Request Received' status. A seventy-eighth red arrow points to the 'Request Received' status. A seventy-ninth red arrow points to the 'Request Received' status. An eightieth red arrow points to the 'Request Received' status. An eighty-first red arrow points to the 'Request Received' status. An eighty-second red arrow points to the 'Request Received' status. An eighty-third red arrow points to the 'Request Received' status. An eighty-fourth red arrow points to the 'Request Received' status. An eighty-fifth red arrow points to the 'Request Received' status. An eighty-sixth red arrow points to the 'Request Received' status. An eighty-seventh red arrow points to the 'Request Received' status. An eighty-eighth red arrow points to the 'Request Received' status. An eighty-ninth red arrow points to the 'Request Received' status. A ninetieth red arrow points to the 'Request Received' status. A ninety-first red arrow points to the 'Request Received' status. A ninety-second red arrow points to the 'Request Received' status. A ninety-third red arrow points to the 'Request Received' status. A ninety-fourth red arrow points to the 'Request Received' status. A ninety-fifth red arrow points to the 'Request Received' status. A ninety-sixth red arrow points to the 'Request Received' status. A ninety-seventh red arrow points to the 'Request Received' status. A ninety-eighth red arrow points to the 'Request Received' status. A ninety-ninth red arrow points to the 'Request Received' status. A hundredth red arrow points to the 'Request Received' status.

**Orphaned requests**  
→ requests visible to ALL libraries

A library has to **accept to supply** an orphaned request

- Fulfillment supports a set of Delivery Methods:**
- SED (Secure E-Delivery- embedded into system)
  - e-delivery external (Article Exchange, URL)
  - traditional (mail, fax)
  - Copyright statement form

- Not fulfillment reasons:**
- Not available for ILL
  - Not Held
  - Not on Shelf
  - Wrong reference
  - ILL not permitted by license or copyright law
  - Order exceeding maximum number of requests

# Patron initiated requests

End-users management will be available only when it has been enabled in the initial Talaria setup

## User roles

User roles allow **different levels of control** over actions.

Library Operators manage the resource sharing workflow and they can be authorised for **multiple roles** at the same time, in the same or in multiple libraries, depending on their tasks.

# Where are we now?

**Talaria Alpha** has been tested in August, 2022

We have started to collect very valuable feed-back and improvement suggestions

## Our **future plans**

- Talaria Beta will be tested in October, 2022, during a Hermes distance training course
- Talaria 1.0 will be released by end of 2022
- RSCVD community move to Talaria in 2023
- In 2023 more distance training activities, and software guidelines published
- Talaria SW development will continue to connect with other systems, based on ISO18626 - ILL Transaction protocol

## Conclusions

*The RSCVD service started as a pilot project run by and dependent upon volunteers, based on the great digitisation work carried out over the years by American libraries. The intention was to continue this service for as long as access to library collections was restricted in any part of the world.*

*However, we have come to the creation of a shared tool that can be easily used to connect libraries around the world and fill gaps left by existing resource sharing communities.*

# Thank You

The HERMES Project website  
<https://www.hermes-eplus.eu/>

Project Coordinator  
CNR Bologna Research Area «Dario Nobili» Library  
[email: biblio-education@area.bo.cnr.it](mailto:biblio-education@area.bo.cnr.it)

