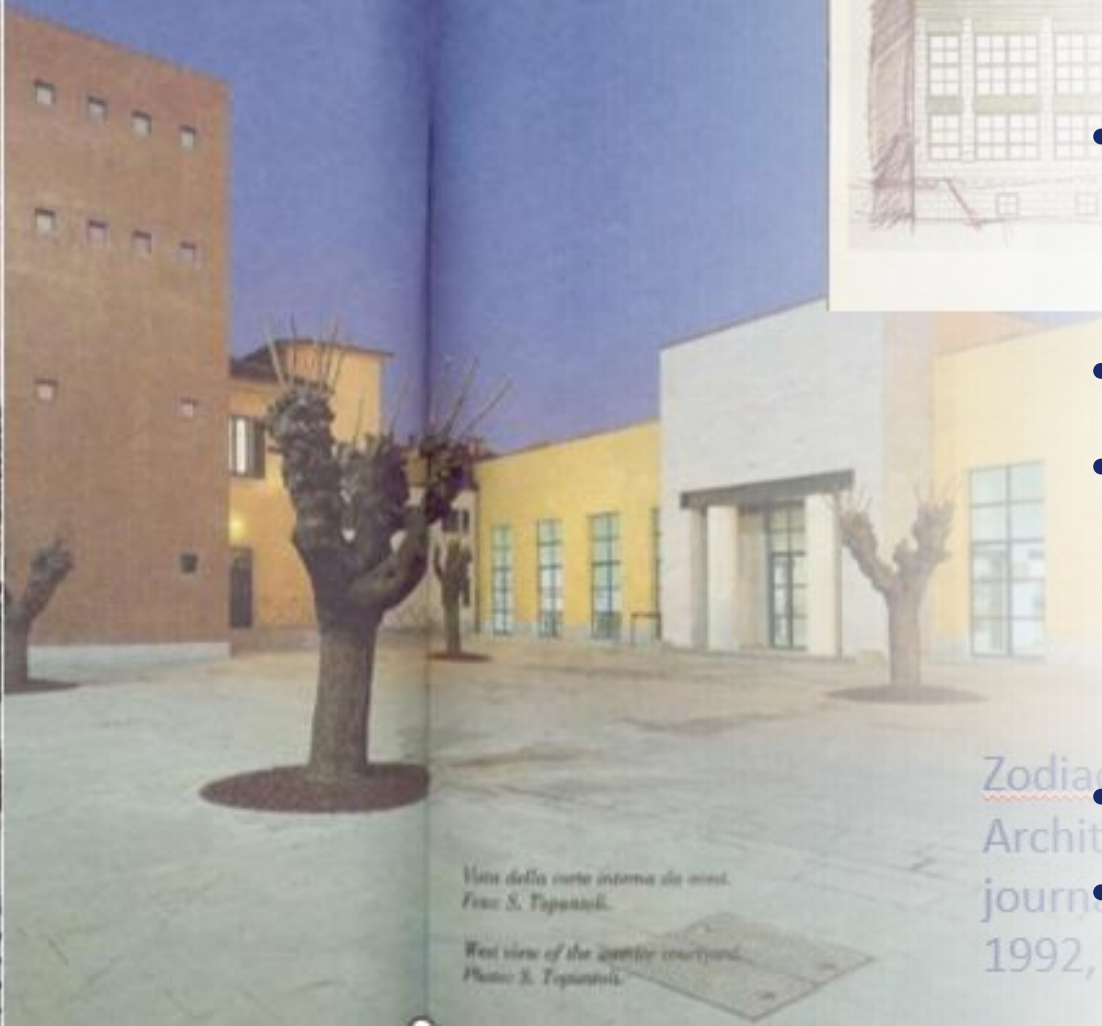




# Esploro experience at LIUC University A case study

Laura Ballestra  
Chief Librarian  
IGELU Conference 2024

# The context



Vista della corte interna da ovest.  
Foto S. Tapanelli.

West view of the square courtyard.  
Photo S. Tapanelli.

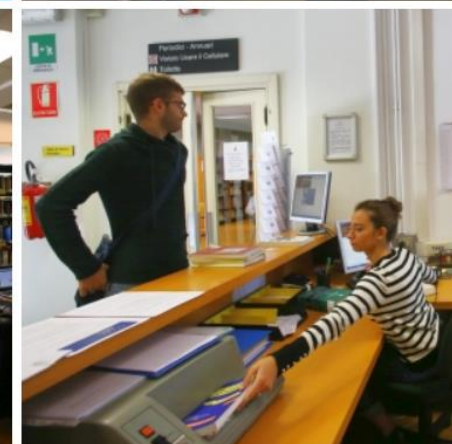
# LIUC University: a Business University

- Very small university near Milan and Varese, North of Italy
- Young : 30 years old
- 2 Schools for master degrees and bachelor degrees:
  - Management and Economics
  - Managerial Engineering
- 1 PHD programme
- 1 Business School



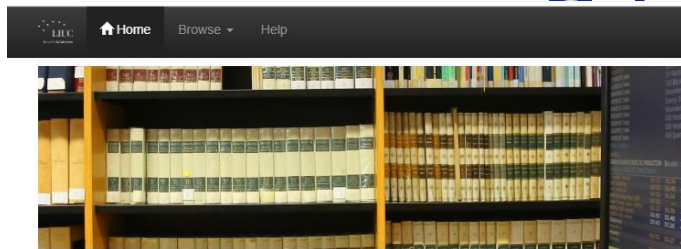
# Mario Rostoni Library

- One main library
- Our mission
  - Learning and teaching library
  - Research library+Research Repository
  - Library as a place of study and socialization
    - + digital library and digital services
- LMS Alma
  - + Primo VE + Leganto +Esploro



**Esploro@LIUC  
University**

# The starting point 2019: 2 platforms



ARL - Archivio della Ricerca LIUC

## Communities in DSpace

Choose a community to browse its collections.

- Deposito legale
- Pubblicazioni della ricerca LIUC
- Tesi di Dottorato

## Discover

Subject		Date issued
Open innovation	43	2020 -
Italy	38	2010 -
Gestione	32	2000 -
Italia	29	1990 -
SECS-P/07	29	1980 -



## Home

Permanent Faculty  
PhD students and post  
doctoral fellows

## User login

Username \*

Password \*

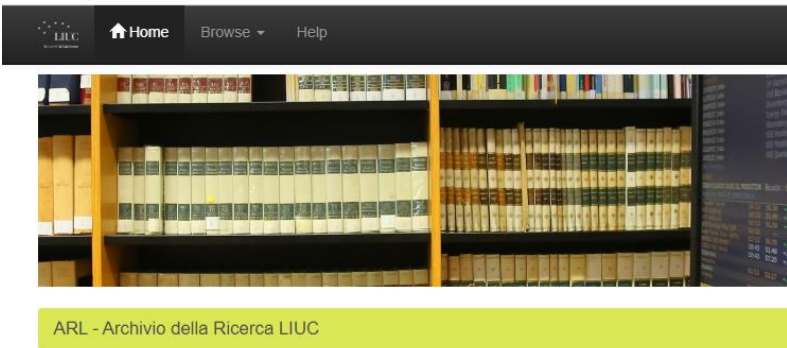
• Request new password

Log in



1 2 3

- ARL Archivio della ricerca LIUC (LIUC repository for the research assets - Dspace)
  - To maintain the University Research Repository
  - to send metadata and files to Ministry of University Evaluation System
  
- Researcher portal
  - To communicate the research (CV, publications...)



ARL - Archivio della Ricerca LIUC

### Communities in DSpace

Choose a community to browse its collections.

- Deposito legale
- Pubblicazioni della ricerca LIUC
- Tesi di Dottorato

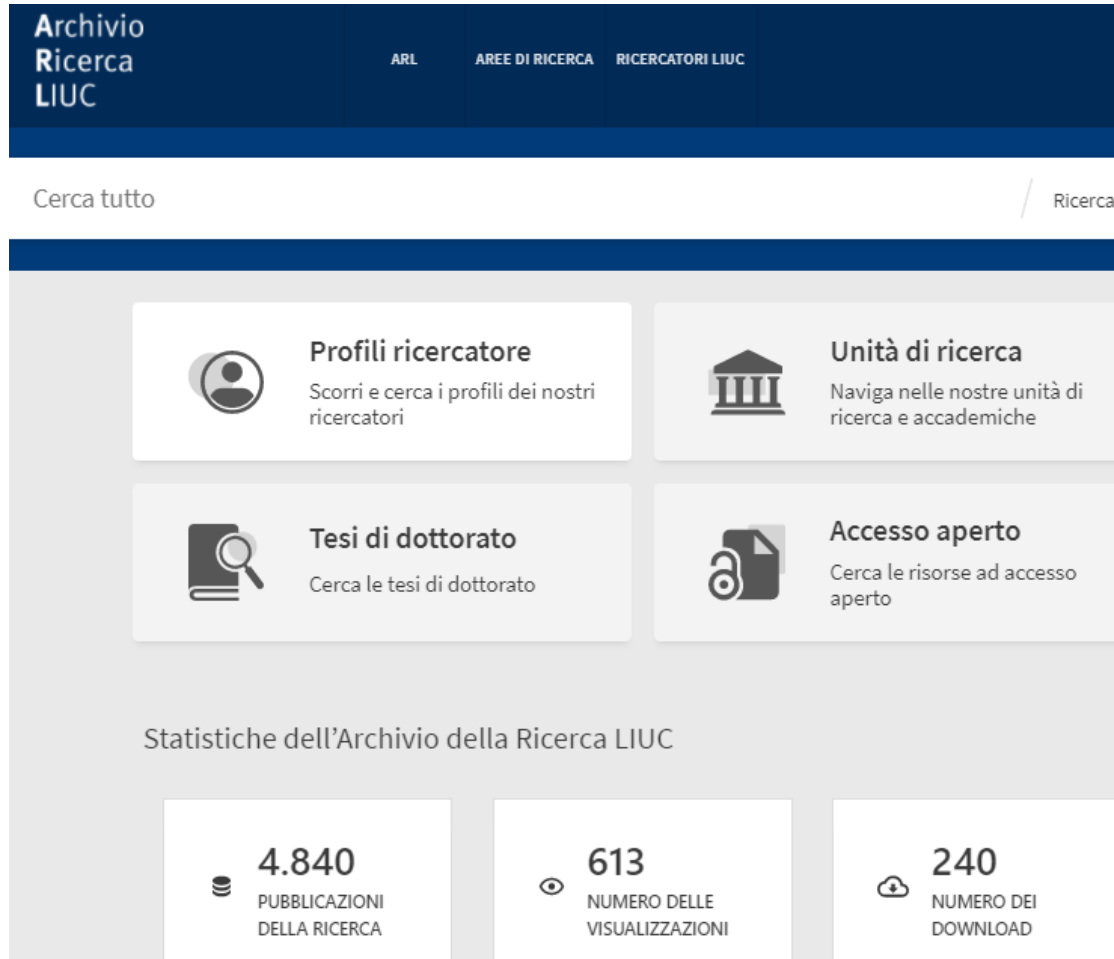
### Discover

Subject		Date issued
Open innovation	43	2020 -
Italy	38	2010 -
Gestione	32	2000 -
Italia	29	1990 -
SECS-P/07	29	1980 -

2019



Dec. 2019



Dec. 2019: Esploro as early adopter. From Dspace and «Researcher profile platform» to Esploro



# The journey: from DSpace to Esploro

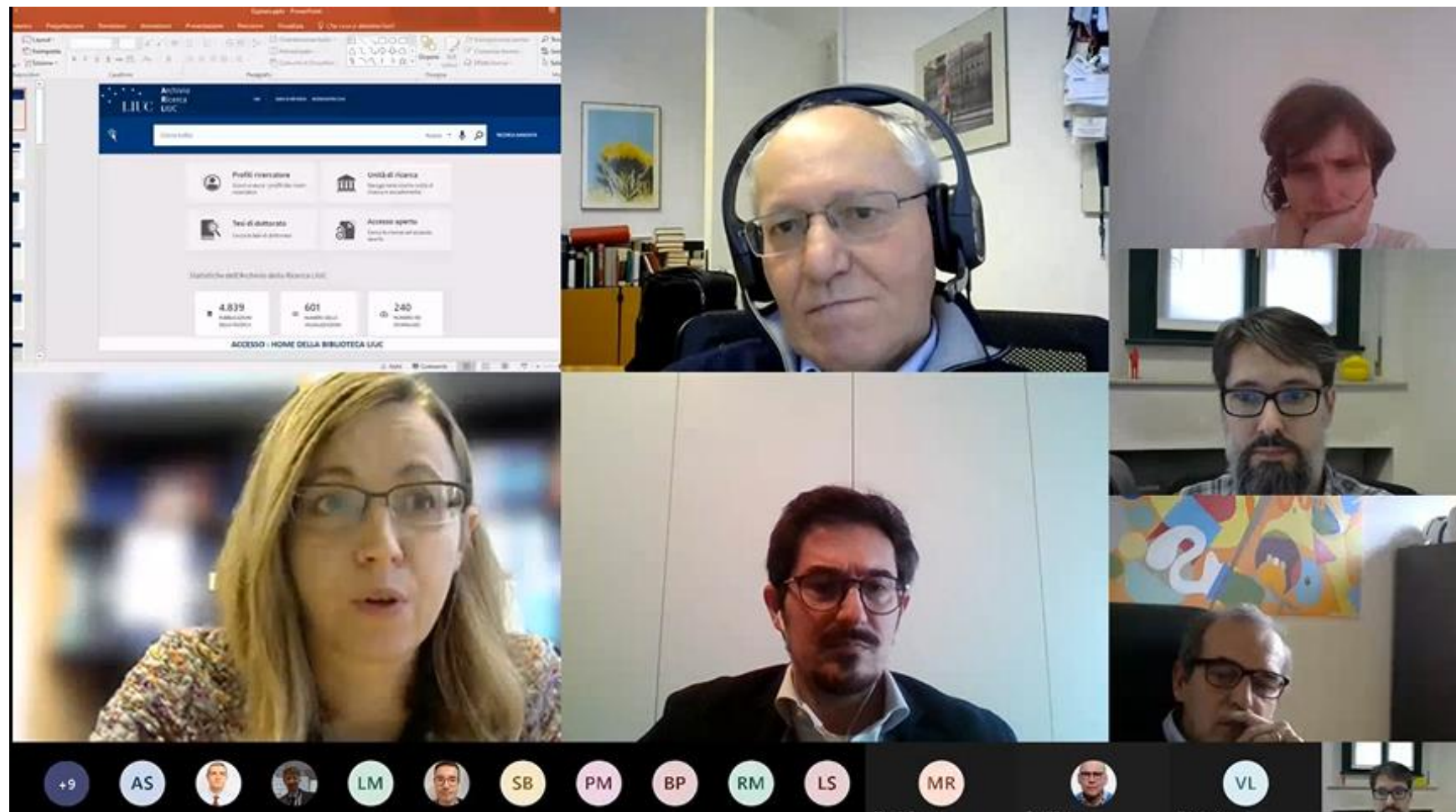
- Dec. 2019- : analysis of needs for Italian university libraries and cooperation with Esploro Team in the development
- 8 months to implement as early adopter:
  - April, 14 2020: kick off
  - December, 5 2020: in production
  - March 2021: Faculty presentation
  - March 2021- : Researchers' training offered by Library Team
- Librarians involved: 4 librarians (20 hours a week as average)



# The journey : from DSpace to Esploro

- Migration made by ExLibris Team: 4713 assets to migrate, 2200 authors
- Local fields for Italian Ministry of University research platform to upload metadata and assets
- Portal personalization

# Faculty Presentation: March, 4th 2021

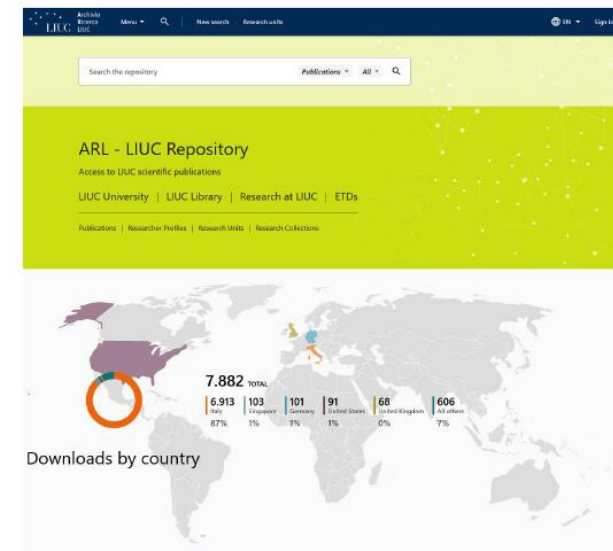


# Faculty training and assistance

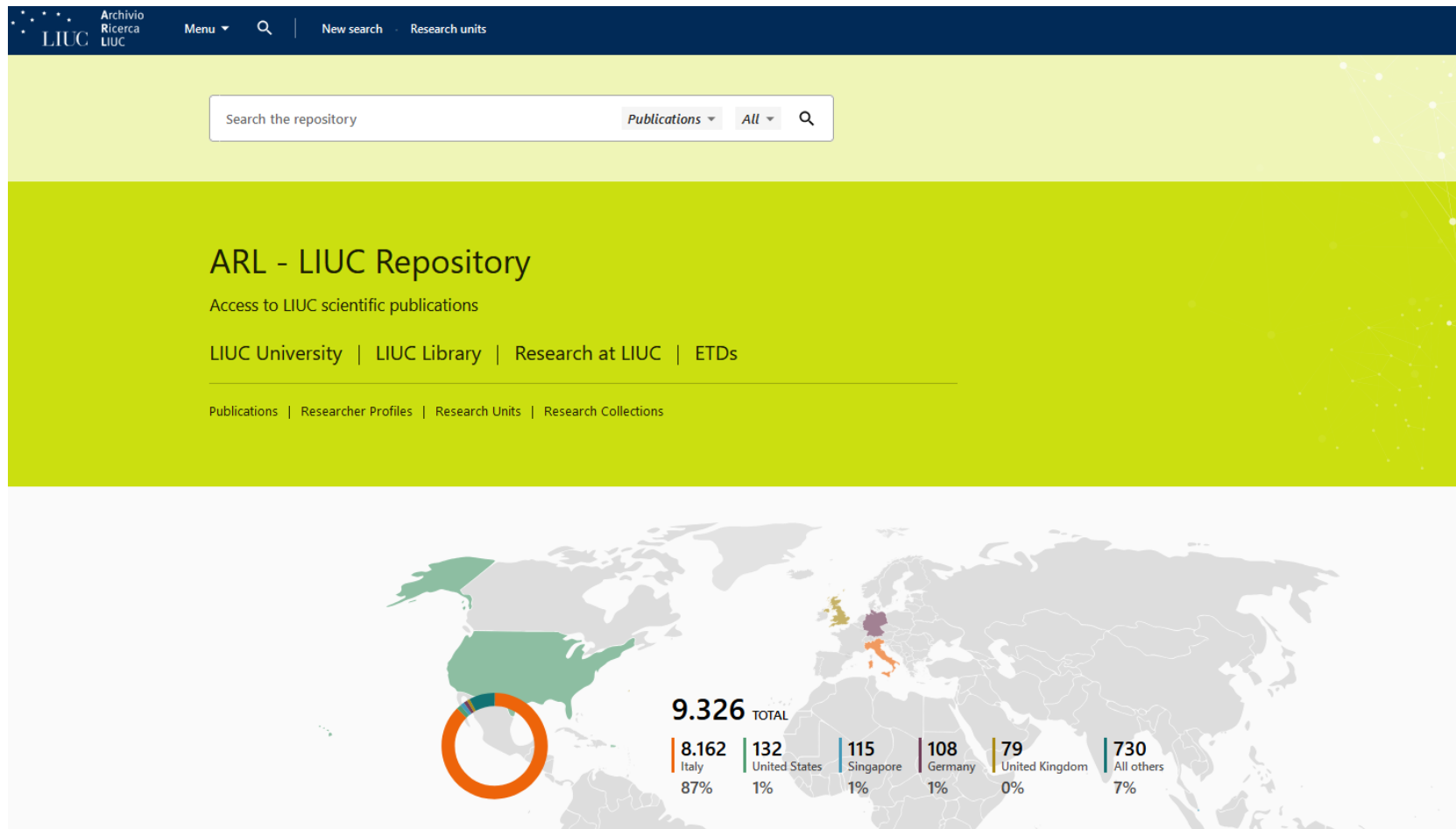
- Guides and personal assistance for Researchers
- Webinars



Guida per il ricercatore



# ARL Esploro Today



2024

Total assets: 5.908

Researchers: 3.161



# Main functionalities managed with Esploro

- 1) University portal for Researchers
- 2) Institutional Repository for Metadata and assets to be sent to MUR (Ministry of University) for research evaluation and professors' career
- 3) Institutional Repository for «internal evaluation» of researchers
- 4) Legal deposit of PHD dissertations to National Library of Florence
- 5) Other services

# What is «not used» at the moment

- Projects, Grants

Research Office is in charge and other products are used

# 1. Researcher portal

# A Portal to communicate researchers and their assets

Menu ▾ 🔍 | New search · Research units

Search bar: [ ] Researchers ▾ All ▾ 🔍

1-9 of 76 results [Grid] [List]


### Refine the results

#### Current Affiliation ^


- Area di ricerca Ingegneria industriale e dell'informazione 29
- Area di ricerca Scienze economico - aziendali 28
- Area di ricerca Scienze economiche e statistiche 10
- Area di ricerca Scienze giuridiche 8

#### Researcher Topic ^


- Logistics 2
- Cost Benefit Analysis 1
- Economic Development 1
- Engineering Administration or Management 1
- Engineering Innovation Processes 1




**Fernando Giuseppe Alberti**  
Professor, Area di ricerca Scienze economico - aziendali




**Martina Baglio**  
Researcher (temporary position), Area di ricerca Ingegneria industriale e dell'informazione  
*Logistics | Supply Chain Management*




**Federica Belfanti**  
Researcher (temporary position), Area di ricerca Scienze economico - aziendali



**Daniele Bellavia**  
Research fellow (temporary position), Area di ricerca Ingegneria industriale e



**Francesco Bertolotti**  
Research fellow (temporary position), Area di ricerca Ingegneria industriale e



**Francesco Bollazzi**  
Senior Lecturer, Area di ricerca Scienze economico - aziendali



# Researchers' profile



## Rossella Pozzi

Researcher (temporary position), Area di ricerca Ingegneria industriale e dell'informazione, LIUC Università Carlo Cattaneo

*lean manufacturing / modelling of complex systems / quantitative methods in operations management / industry 4.0*

Overview

Output

## Biography and Expertise

Rossella Pozzi, Ph.D., is Assistant Professor at Università Cattaneo LIUC since 2017 and licensed as Associate Professor for the 09/B2 area since April 2020. From 2016 to 2017 she was Post Doc Research Fellow in the same University. She got her Ph.D. at Università Cattaneo LIUC (Italy) in 2016 and visited the Istituto Dalle Molle per l'Intelligenza Artificiale - IDSIA (Switzerland) during her doctoral studies. In 2012 she spent a period as Visiting Student at MIT - Center for Transportation and Logistics. From 2013 she teaches in Università Cattaneo LIUC and Politecnico di Milano. From 2013 to 2017 she contributed to mobility and Erasmus + projects, with didactic tutoring for the definition of the study plans that every student of the School of Industrial Engineering must prepare for his period abroad, providing support for the organization of student mobility, teaching and training activities within the Erasmus + program. She serves as scientific reviewer for several

[Show more](#)

## Links

[MyLIUC](#)

[ResearchGate Profile](#)

## Organizational Affiliations

Researcher (temporary position), Area di ricerca Ingegneria industriale e dell'informazione, LIUC Università Carlo Cattaneo

## Global ID

 [0000-0001-6610-3545](#)

[Scopus ID](#) 56148214500

## Email

[rpozzi@liuc.it](mailto:rpozzi@liuc.it)

## Phone

**Office** 0331572587

## Address

Corso Matteotti, 22  
Castellanza 21053  
Italy

## **2. Institutional Repository for Metadata and assets**

2. Esploro is our Institutional Repository for Metadata and assets to be sent to MUR (Ministry of Education)



The screenshot shows the login interface for the CINECA platform. At the top left, there is the MUR logo (Ministero dell'Università e della Ricerca) and the text 'In collaborazione con CINECA'. The main heading is 'Accesso per il personale di Università ed Enti'. Below this, there are two input fields: 'Username' and 'Password'. A link 'Mostra/nascondi password' is located below the password field. A blue button labeled 'Procedi' with the text 'Entra con SPID' is positioned to the right of the password field. To the right of the login fields, there is a 'Benvenuti!' section with a welcome message: 'Questa pagina rappresenta l'unico punto di ingresso per i docenti ed i ricercatori, strutturati e non strutturati, degli Atenei e degli Enti pubblici di ricerca, accreditati all'impiego dei servizi ministeriali.' Below the login fields, there are two links: 'Se non hai mai effettuato la registrazione clicca qui' and 'Codici di accesso smarriti? Clicca qui.'. At the bottom, there is a link for 'Per assistenza contattare il supporto.'. The footer contains the text 'MUR - Ministero dell'Università e della Ricerca'.

- Interaction, based on CINECA web services, with CINECA Platform LoginMIUR

# The process of interaction

- Assets and pdf files uploaded by researches + Smart Harvesting
- Library validation of assets
- Metadata and pdf files sent by the Library to Ministry of University for the research evaluation (CINECA Platform Login MIUR)



# How it works (Library side)

- **couple of web services**, *mods* and *fulltext*, activated in a CINECA server
- The first CINECA webservice, ***mods***, is intended to acquire and store metadata sent using XML messages following the MODS standard from US Library of Congress.
- The second endpoint, ***fulltext***, is used to upload the PDF file of the asset
- the ExLibris API enabled us to create the whole interface for accessing and extracting data from Esploro using our preferred programming or scripting language
- Ubuntu (a Linux distribution) + Java + JSP + Web interface + a PostgreSQL to store our local data.

# How CINECA Platform LoginMIUR «responds»

- Yes
- No

## Sending Esploro data to CINECA - LIVE

[Back to home](#)

Submitting work using following asset ids  
**991000994481205126**

Send codes

Pub reqs

Delete resources

Send2Cineca

### Send ARL codes (present in ESPLORO) to be registered in CINECA web-services

Enter the codes to be processed: a code per line or separated by a blank space, then press <Send Data> button

[Log Folder](#)

A code per line or separated by a blank space

Send Data

*The reports will be top down (last managed assets info will be displayed at the top of the list)*

#991000994481205126

Id used for Cineca WS: 7949 - MIUR resource type code: 262

OK - Operation result: SUCCESSO - Tipologia assegnata: 262. Articolo in rivista

Ready to send file data (2023 Measurement - On the interpretation of the measurement equation.pdf) - sequence # 1

OK - File trasferito con successo

Operations completed

Submitting work using following asset ids  
991000853463105126

Send codes

Pub reqs

Delete resources

Send2Cineca

### Send ARL codes (present in ESPLORO) to be registered in CINECA web-services

Enter the codes to be processed: a code per line or separated by a blank space, then press <Send Data> button

Log Folder

A code per line or separated by a blank space

Send Data

**WARNING**  
You are not authorised to send information  
because the author is not a member of your institution



The reports will be top down (last managed assets info will be displayed at the top of the list)

#991000853463105126

Id used for Cineca WS: 6428 - MIUR resource type code: 296

\*\*\* WARN \*\*\* - 20201 - Operation result: AVVERTIMENTO - Autore n.1, cf=NRSMT78T51F754M, posizione=2: Non sei autorizzato a scrivere - l'Autore non appartiene al tuo Ateneo.

No file associated to the asset - skip activity

Operations completed

## Sending Esploro data to CINECA - LIVE

Submitting work using following asset ids  
**991000931997805126**

Send codes   Pub reqs   Delete resources

Send2Cineca

### Send ARL codes (present in ESPLORO) to be registered in CINECA web-services

Enter the codes to be processed: a code per line or separated by a blank space, then press <Send Data> button

A code per line or separated by a blank space

Send Data

The reports will be top down (last managed assets info will be displayed at the top of the list)

#991000931997805126

Id used for Cineca WS: 8187 - MIUR resource type code: 262

KO - 20504 - Operation result: FALLIMENTO - Impossibile individuare un'unica rivista: 2 riviste corrispondono ai criteri inviati: La ricerca ha prodotto i seguenti risultati: [E188925]  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH - 1660-4601 [E204106] INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH - 1661-7827;  
Operations completed

### Asset Details

Suture-mediated patent foramen ovale closure using the NobleStitch EL

Asset ID	991000931997805126	Asset type
Affiliation	Area di ricerca Ingegneria industriale e dell'...	Deposit method
Assigned to	-	Deposit status
Deposit approval date	12/07/2024	OAI Publishing ID

Asset   Attachments   Internal Notes   Communications   History   **MIUR**

Field	Value
1	ANCE code - codice ANCE E188925
2	Country of publication CHE
3	Refereed anonymous

2 journals match the criteria submitted

Ance code

# Communication Security



How the data exchange toward external servers is secured?

- CINECA and ExLibris use different approaches: CINECA issues a certificate valid only for the server that will be involved in the data exchange process while
- ExLibris, through its developer's platform, issues an API key to be included in each web request sent to its server, the Esploro servers in this case



# National fields for Ministry of University

Asset Attachments Internal Notes Communications History **MIUR**

+ Add field  

	Field	Value
1	ANCE code - codice ANCE	E188925
2	Country of publication	CHE
3	Refereed	anonymous

Field \*

- Event Participation Type
- Conference Relevance
- Other information (es. Asset type)
- Authors of volume
- Editors of volume
- SSD
- PhD Cycle
- Academic Year

# Extention of Asset types for Ministry of University

Asset types added		
	Esploro types	+ Subtypes
Foreword/Afterword	Book chapter	Foreword/Afterword
Introduction	Book chapter	Introduction
Abstract in conference proceeding	Conference proceeding	Abstract in conference proceeding

# **3. Esploro for annual evaluation of researchers and research office support with reporting**

# VQR\* simulation and internal annual evaluation of researchers

- From Esploro Analytics to MySQL

\*The Evaluation of Research Quality (VQR) exercises aim at evaluating the research outcomes of public universities. VQR is carried out every five years by Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR)



The screenshot shows a web interface for the internal evaluation of research publications. At the top left, there is a logo for 'Archivio Ricerca LIUC' with a starburst icon. The main heading is 'Valutazione interna delle pubblicazioni di ricerca' and the subtitle is 'Biblioteca Mario Rostoni - Ufficio Ricerca'. Below this is a 'Login' section with two input fields: 'Email' and 'Password'. A dark blue button labeled 'Accedi' is positioned below the fields.

# Reporting for Research Office.

## Data Visualisation examples

- Asset by type
- Open access analysis

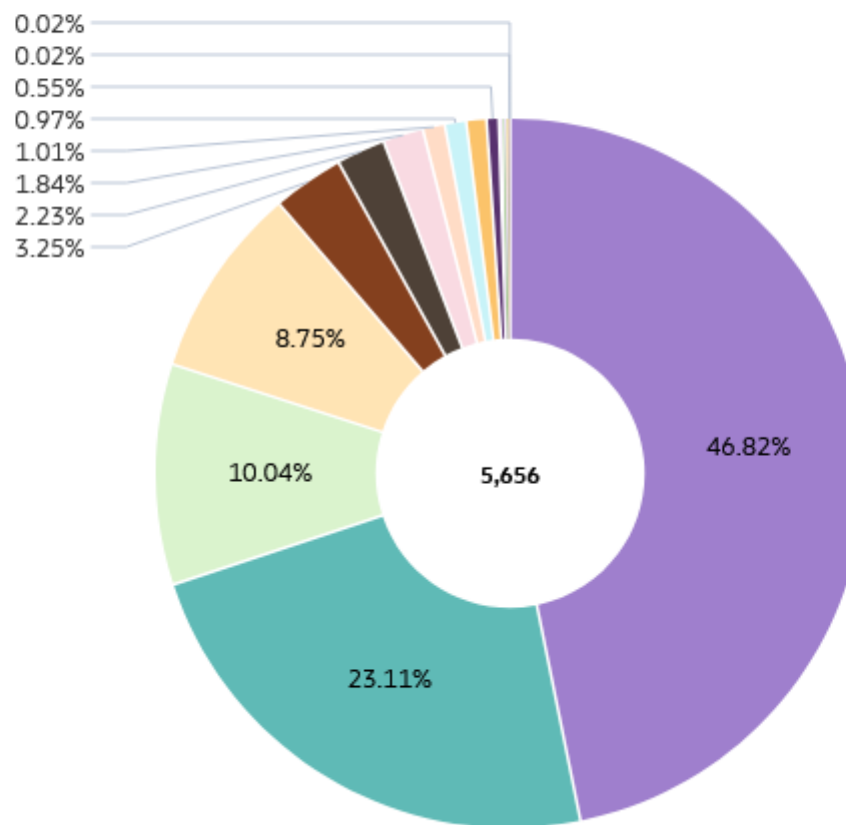
Number of Assets

**5,656**

Number of Assets by Asset Type

Asset Type

- Journal article
- Book chapter
- Conference procee...
- Book
- Edited book
- Conference paper
- ETD-Doctoral
- Encyclopedia entry
- Annotation
- Other
- Review
- Working paper
- Conference presen...
- Magazine article
- Preprint
- Accepted manuscript
- Conference poster
- Bibliography
- Code
- Dataset





# Open access report

## Assets by publication year

Number of Assets	Publication year
66	2024
190	2023
172	2022
203	2021
332	2020
367	2019
305	2018
313	2017
336	2016
331	2015

## Assets - Total number

Number of Assets  
**5,919**

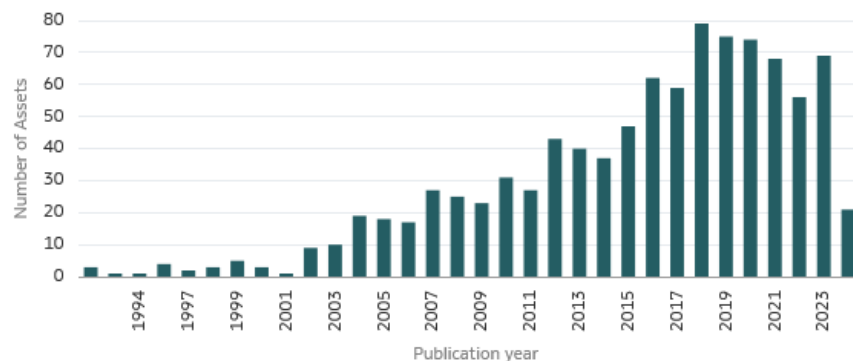
## Assets - Total number

Open Access Indicator (published version): Yes  
Number of Assets  
**959**

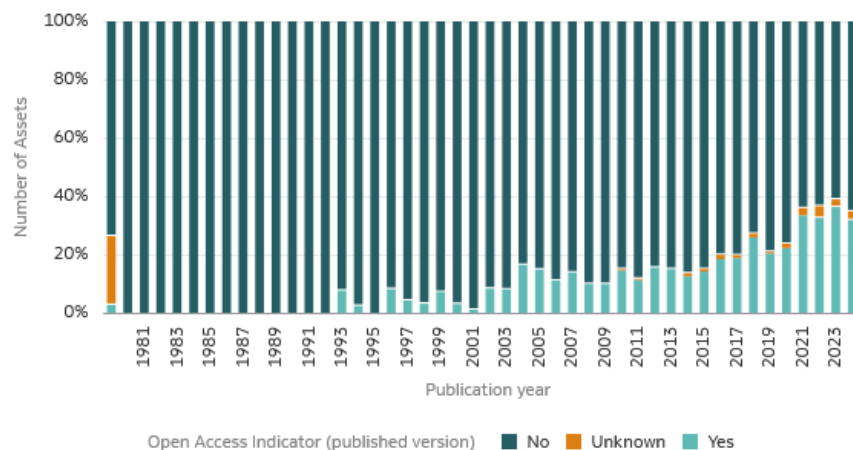
## Open Access by Year

Number of Assets

**959**



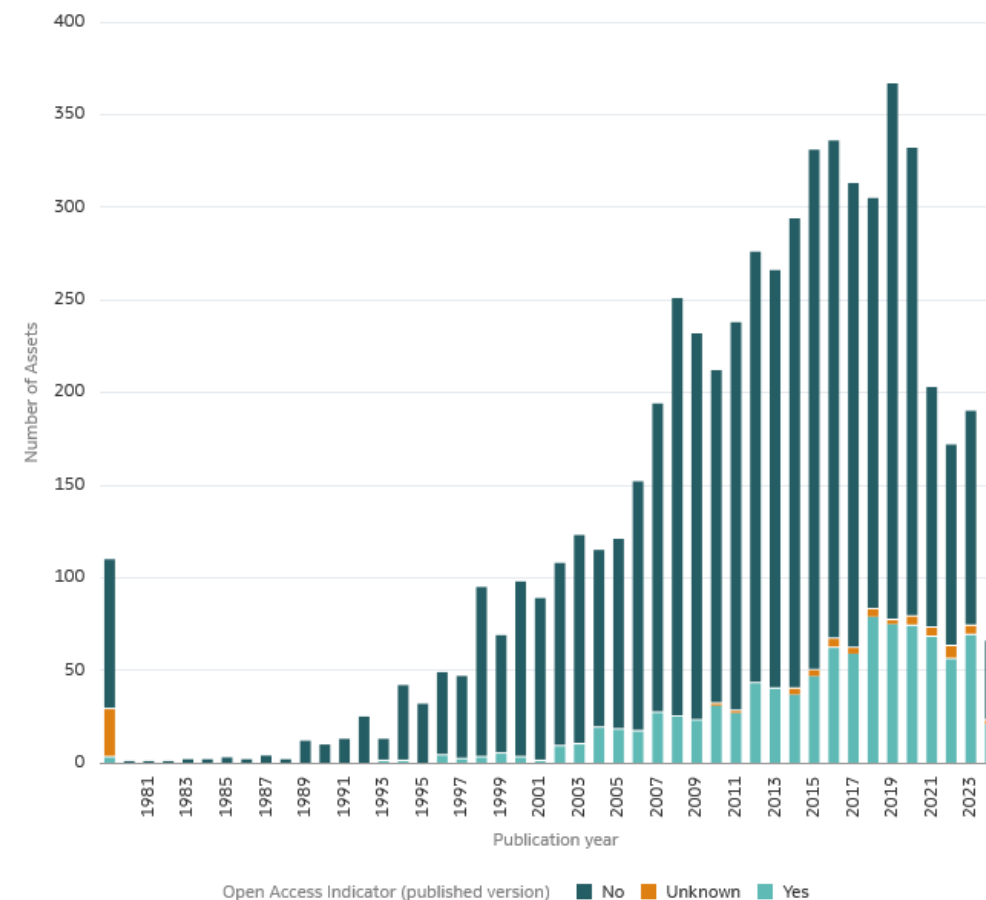
## Assets - Open and closed access percentage by year



## Assets - Open and closed access by year

Number of Assets

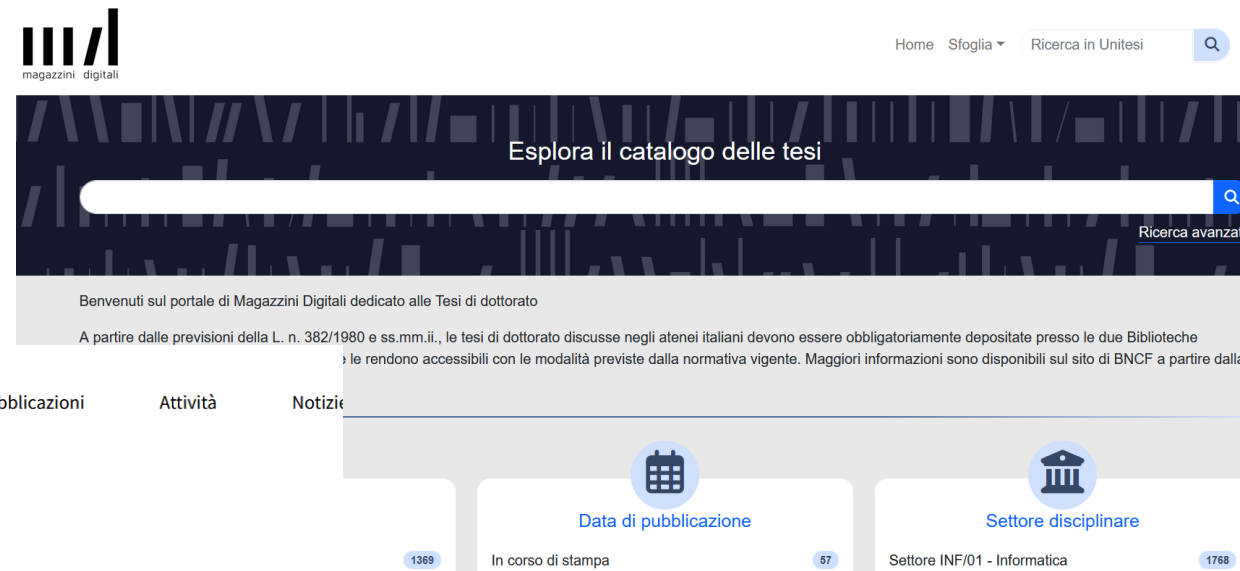
**5,919**



**4. PHD Thesis to be  
preserved by  
National Library of  
Florence (legal  
deposit)**

# 4. PHD thesis

BNCF does harvesting using the OAI-PMH protocol available in Esploro



## Deposito delle tesi di dottorato

A partire dalle previsioni della L. n. 382/1980 e ss.mm.ii., le tesi di dottorato discusse negli atenei italiani devono essere obbligatoriamente depositate presso le due Biblioteche Nazionali Centrali di Firenze e Roma, che le rendono accessibili con le modalità previste dalla normativa vigente.

- ↳ Un nuovo ambiente per il deposito e l'accesso alle tesi di dottorato
- ↳ Modalità di deposito delle tesi di dottorato
- ↳ Tracciato dei metadati
- ↳ Formato dei file depositabili
- ↳ Modalità di accesso al full-text delle tesi depositate
- ↳ Licenze d'uso
- ↳ Tesi di dottorato contenenti dati lesivi o potenzialmente lesivi di diritti di terzi
- ↳ National Bibliography Number (NBN)

### Un nuovo ambiente per il deposito e l'accesso alle tesi di dottorato

Dal 2010 gli atenei italiani hanno potuto scegliere se depositare le tesi di dottorato in formato cartaceo o in formato digitale, inizialmente inviando CD o DVD-Rom poi tramite raccolta automatica.

Nel 2023, la Biblioteca Nazionale Centrale di Firenze (BNCF) è entrata a far parte del [Consorzio Interuniversitario Cineca](#), al fine di migliorare e implementare i servizi di conservazione e accesso a lungo termine per i prodotti digitali della ricerca scientifica degli atenei e dei centri di ricerca italiani.

# 5. Other functionalities

# Other functionalities

- SDGs
- Collections

back to top ↑ <https://doi.org/10.1007/s10997-021-09568-8> [View](#)  
 Published (Version of record) | [CC BY V4.0](#), Open

- Abstract
- Files and links (2)
- Metrics
- Details
- UN Sustainable Development Goals (SDGs)

## Metrics

6 File views/ downloads   57 Record Views

## Details

**TITLE** Integrated reporting quality and BoD characteristics

**CREATORS** Lucrezia Songini (Author)  
 Anna Pistoni (Author)  
 Patrizia Tettamanzi (Author) - LIUC Università Carlo Cattaneo, Area di ricerca Scienze economico - aziendali  
 Fabrizio Fratini (Author)  
 Valentina Minutiello (Author) [Show the rest](#)

## UN Sustainable Development Goals (SDGs)

This output has contributed to the advancement of the following goals:



## 📁 Pubblicazioni sulle imprese familiari = Family business publications



Raccolta di  
passaggio  
familiari

Archivio Ricerca LIUC   Menu   New search   Research units   EN

Back   Collections /

# Pubblicazioni sulle imprese familiari = Family business publications



Raccolta di pubblicazioni scientifiche presenti in ARL, Repository della ricerca LIUC, sulle imprese familiari. I contributi affrontano tematiche quali il passaggio generazionale e l'apporto delle nuove generazioni all'azienda, l'innovazione

[...more](#)

1-10 of 95 results

## Refine the results

Sort by Relevance

## Availability ^

- Peer-reviewed Journals 45
- Open Access 10

## Resource Type ^

### BOOK CHAPTER

**Do we really want to cut out the deadwood? Family-centered noneconomic goals, restructuring aversion and escalation of commitment**

by **Claudia Pongelli (Author)**, **Salvatore Sciascia (Author)** and **Tommaso Minola (Author)**

The Palgrave handbook of heterogeneity among family firms, pp.485-505

Palgrave Macmillan

2019

We contribute to the theoretical depiction of family firms' reactions during a downturn by adopting the ability and willingness approach. Specifically, we suggest that the combination of the ability and the willingness to pursue family-centered noneconomic (FCNE) goals makes family firms less likely to engage in restructuring activities and more likely to engage in an escalation of commitment.

[...more](#)

# Services and Processes



# Services and processes. New researchers

- Personnel office notification to the Library
- New researcher ingest in ALMA-Esploro
- Smart harvesting to populate assets
- New researchers training
- Communicate with researchers using Esploro

# Services and processes. New PHD students

- PHD School notification to the Library
- New PHD student ingest in ALMA-Esploro
- PDH student dissertation upload (Library)
- Harvesting from National Library of Florence (Protocol: OAI-PMH)

# Our evaluation

# Librarians feedback



Smart harvesting for scientific literature in English

Comprehensiveness of the information in Profiles

Easy retrieval of researcher information from ALMA

Using Esploro for communicate with researchers about assets

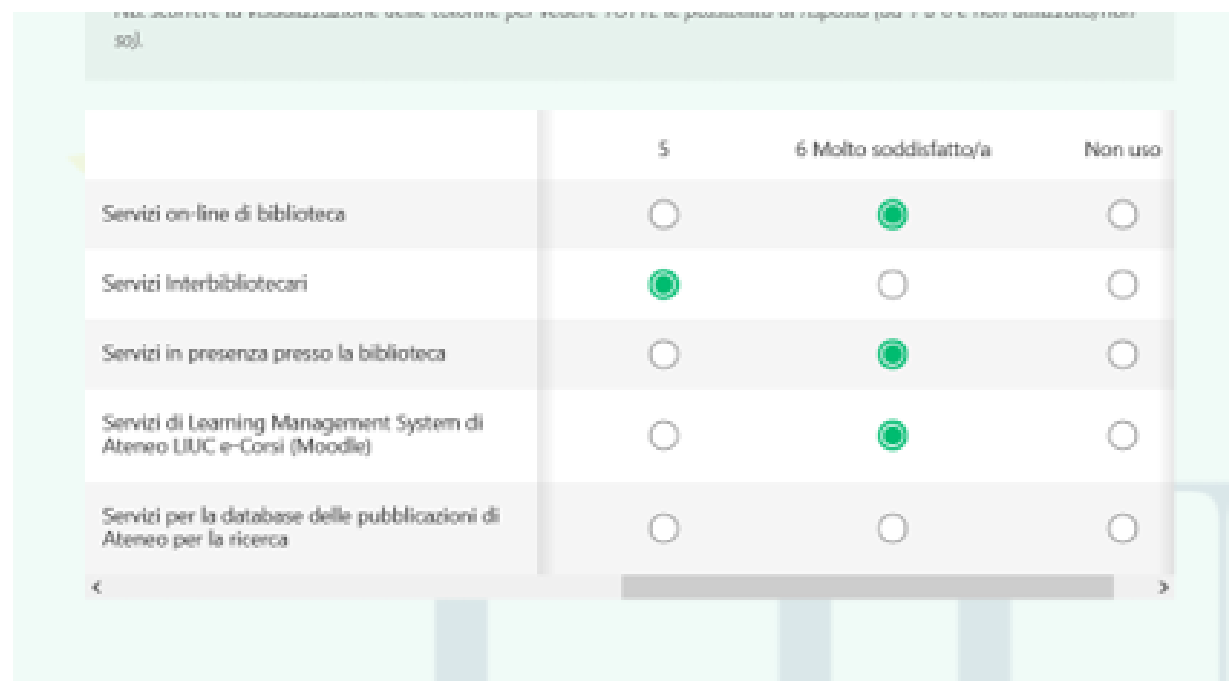
The smart harvesting function for assets in Italian language is inefficient

Sometimes updates cause negative consequences on individual implementations



# Researchers' feedback

84% of Esploro users are satisfied and very satisfied



	5	6 Molto soddisfatto/a	Non uso
Servizi on-line di biblioteca	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Servizi interbibliotecari	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Servizi in presenza presso la biblioteca	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Servizi di Learning Management System di Ateneo LIUC e-Corsi (Moodle)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Servizi per la database delle pubblicazioni di Ateneo per la ricerca	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# Research office feedback

- \*\* Grants and projects are managed in a different platform by Research Office
- 100% satisfied about reporting

**Waiting for new  
enanchements!**

Thanks to all!

Laura Ballestra, [lballestra@liuc.it](mailto:lballestra@liuc.it)

Many thanks to my colleagues  
Chiara Pincioli and Alberto  
Refraschini