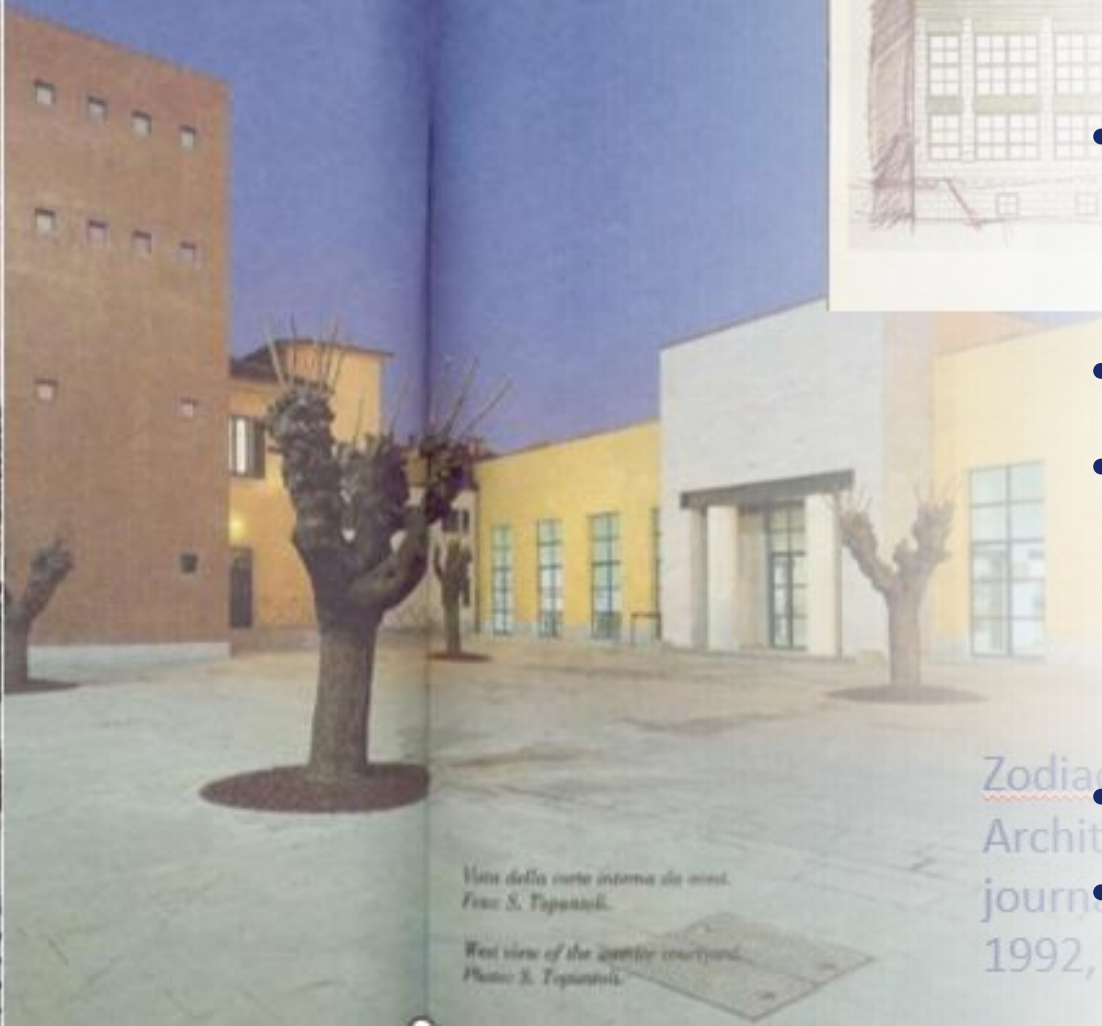# Esploro experience at LIUC University
A case study

Laura Ballestra

Chief Librarian

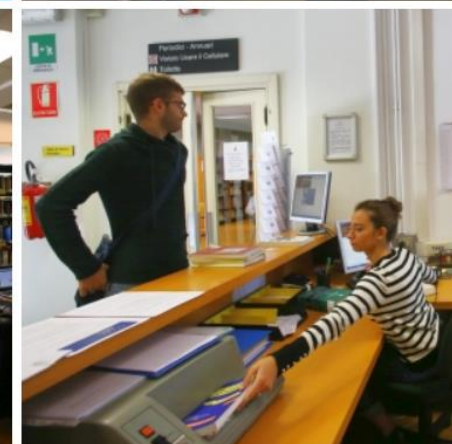IGELU Conference 2024

The context

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

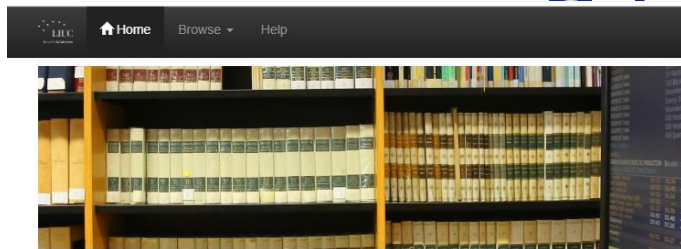- 1 PHD programme

- 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
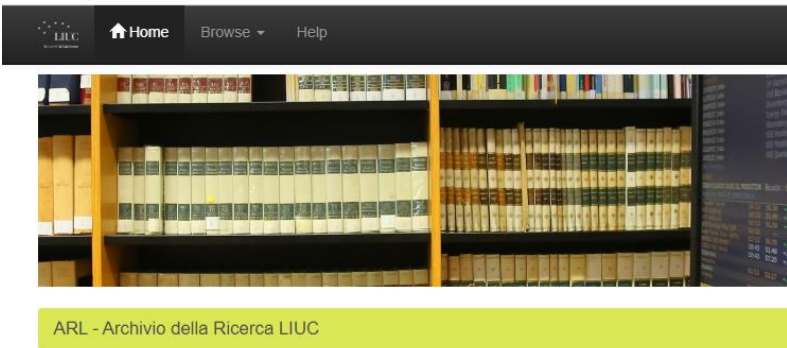

- ARL Archivio della ricerca LIUC (LIUC repository for the research assets - Dspace)
  - To mantain the University Research Repository
  - to send metadata and files to Ministry of University Evaluation System

- Researcher portal

- To communicate the research (CV, publications...)
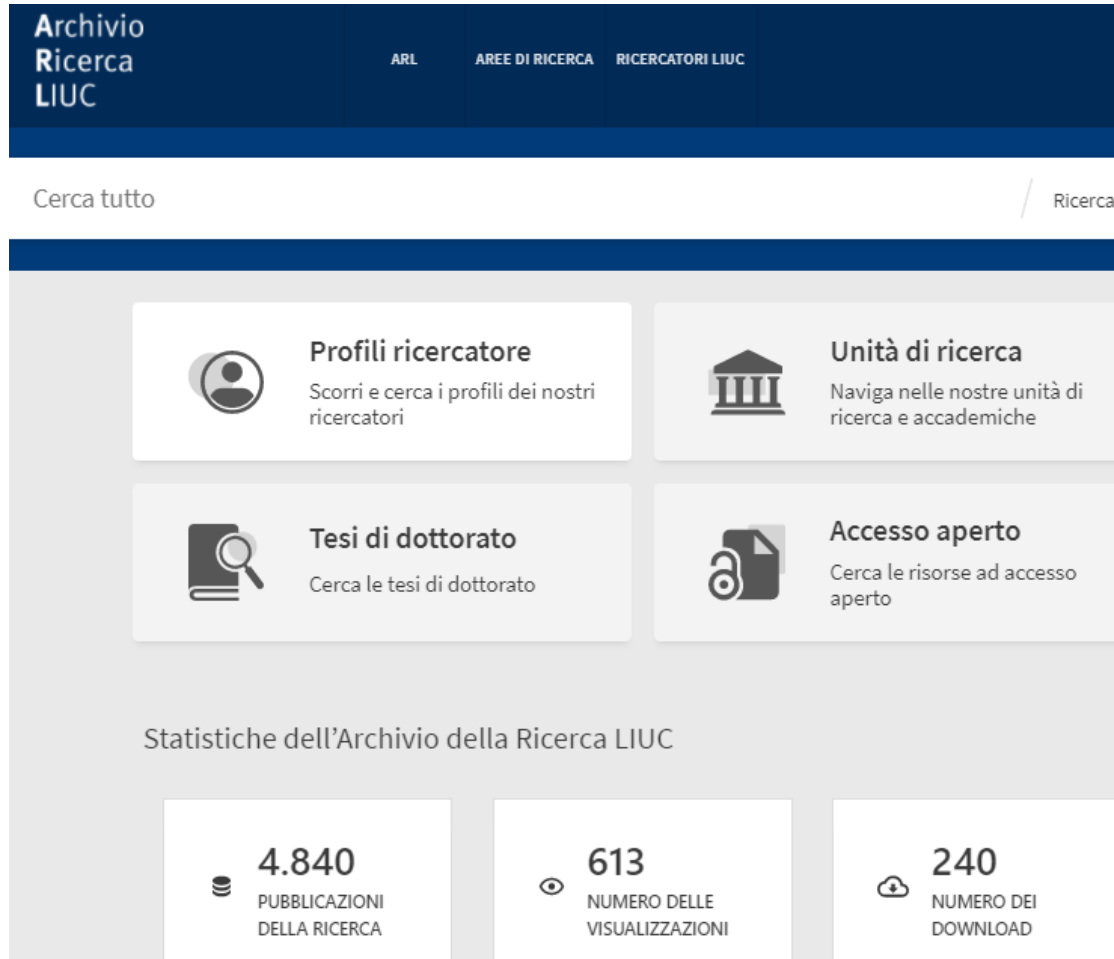
Dec. 2019

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

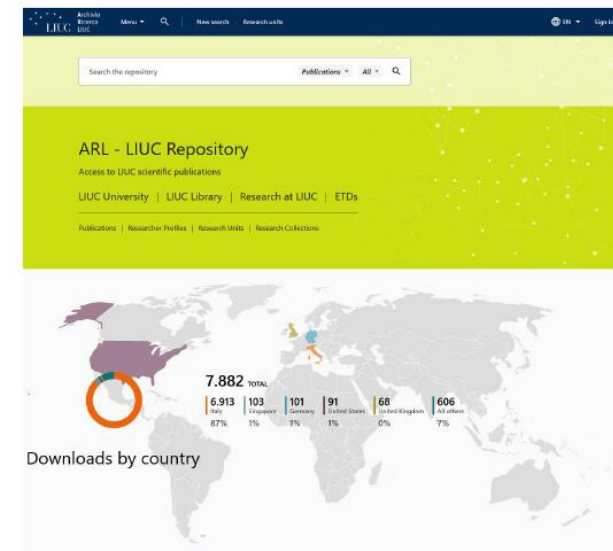- Portal personalization

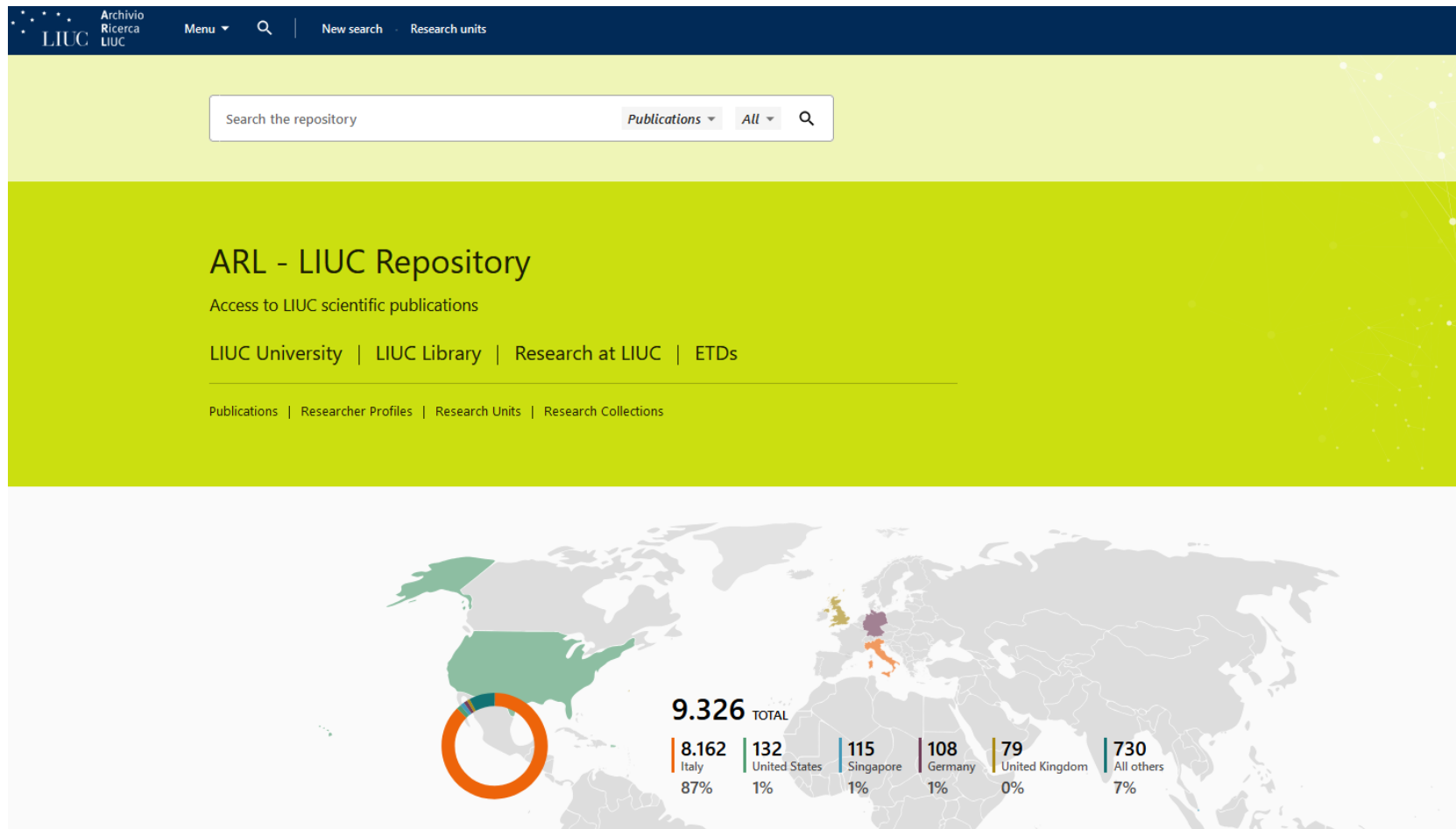# Faculty Presentation: March, 4th2021
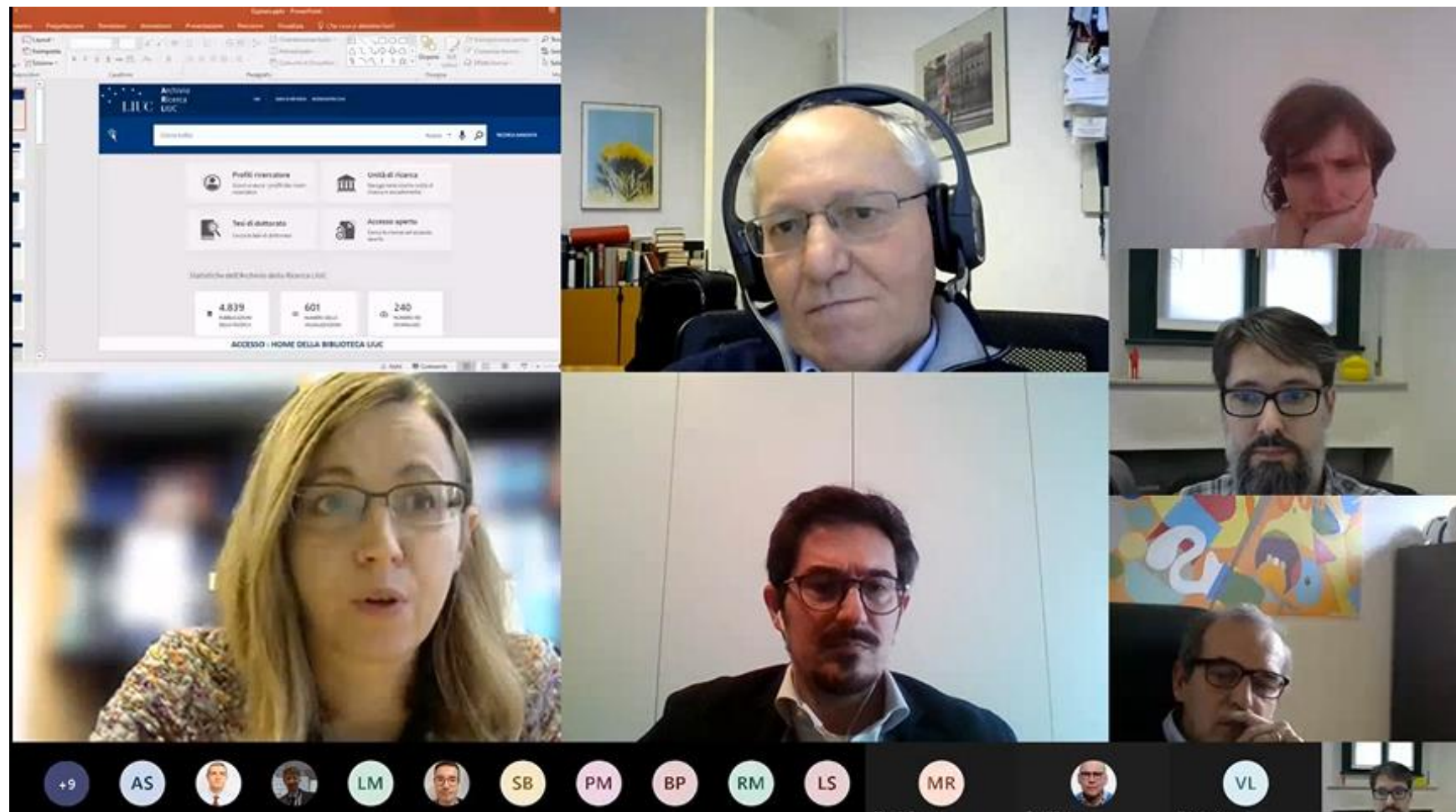
Faculty training and assistance

- Guides and personal assistance for Researchers
- Webinars

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

Researchers' profile

Rossella Pozzi

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

lean manufacturing | modelling of complex systems | quantitative methods in operations managemen | 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 Universita Carlo Cattaneo

Global ID

iD 0000-0001-6610-3545

Scopus ID 56148214500

Email

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)

- 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

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

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Sending Esploro data to CINECA - LIVE

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=NRSMRT78T51F754M, 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

2 journals match the criteria submitted

Ance code

Asset Details

Suture-mediated patent foramen ovale closure using the NobleStitch EL

Asset ID	991000931997805126
Affiliation	Area di ricerca Ingegneria industriale e dell'…
Assigned to	-
Deposit approval date	12/07/2024

Asset type	
Deposit method	
Deposit status	
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

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

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

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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)

Reporting for Research Office. Data Visualisation examples

- Asset by type
- Open access analysis

Asset by type

LIUC
niversità Cattaneo

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

0.02%
0.02%
0.55%
0.97%
1.01%
1.84%
2.23%
3.25%

8.75%

10.04%

5,656

46.82%

23.11%
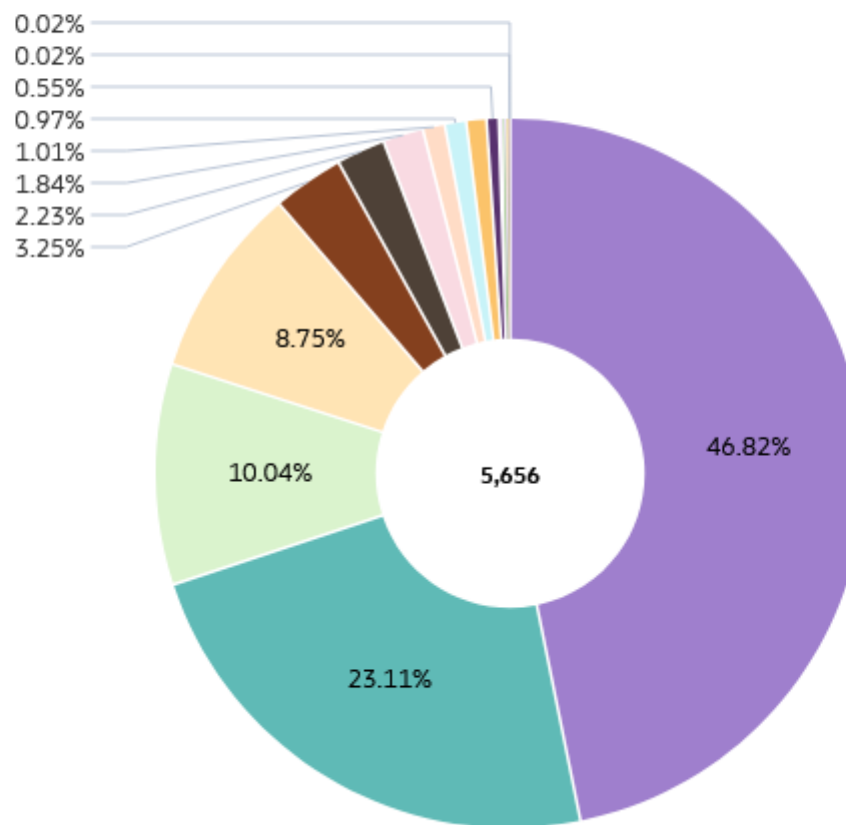
Open access report

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
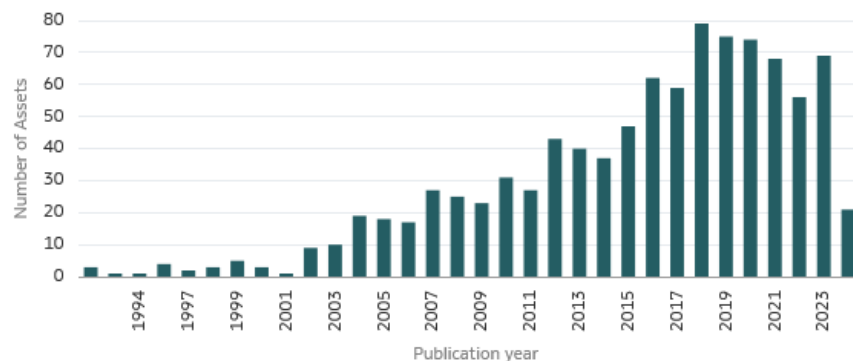
Assets - Open and closed access percentage by year

Open Access Indicator (published version) ■ No ■ Unknown ■ Yes
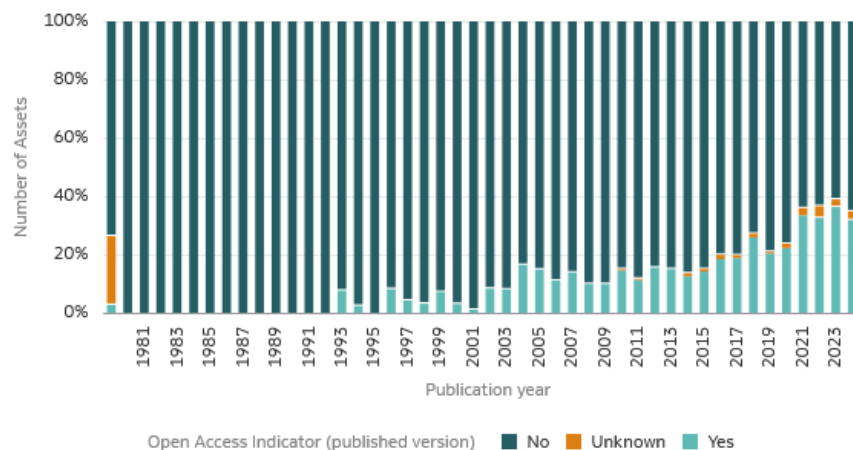
Assets - Open and closed access by year
Number of Assets
5,919

Open Access Indicator (published version) ■ No ■ Unknown ■ Yes
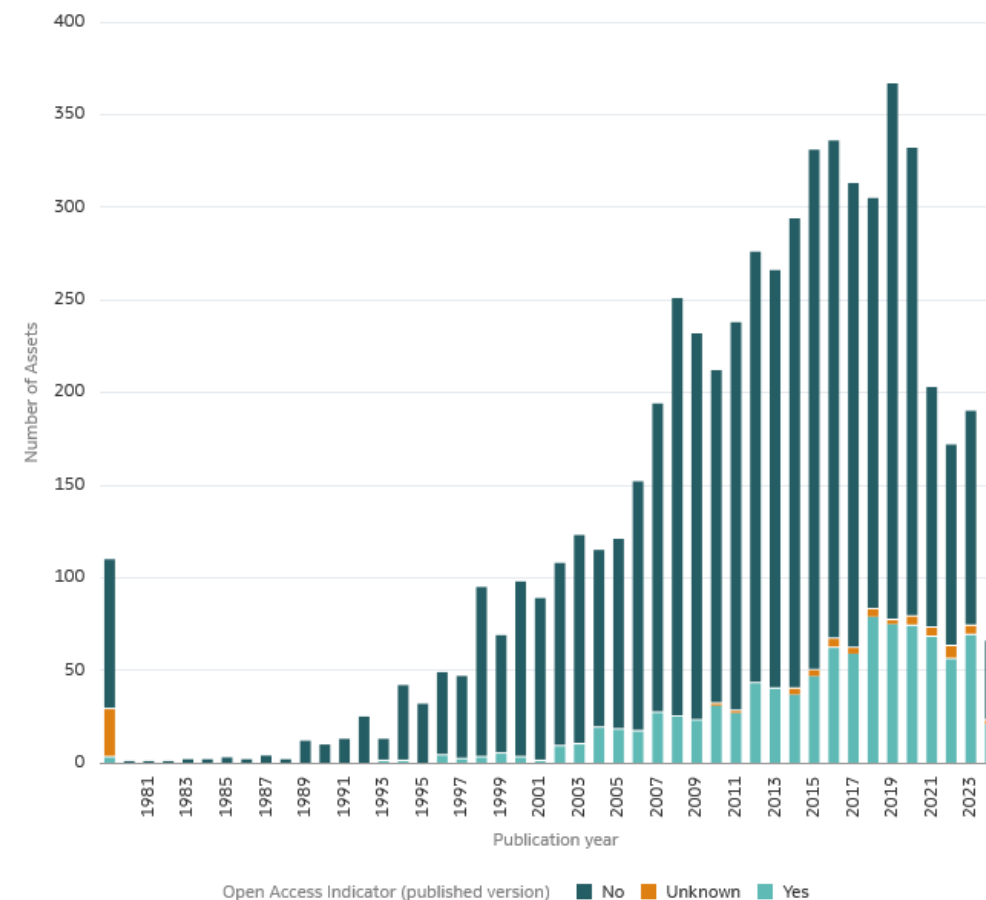
4. PHD Thesis to be preserved by National Library of Florence (legal deposit)

4. PHD thesis

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

5. Other functionalities

Other functionalities

- SDGs

- Collections

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
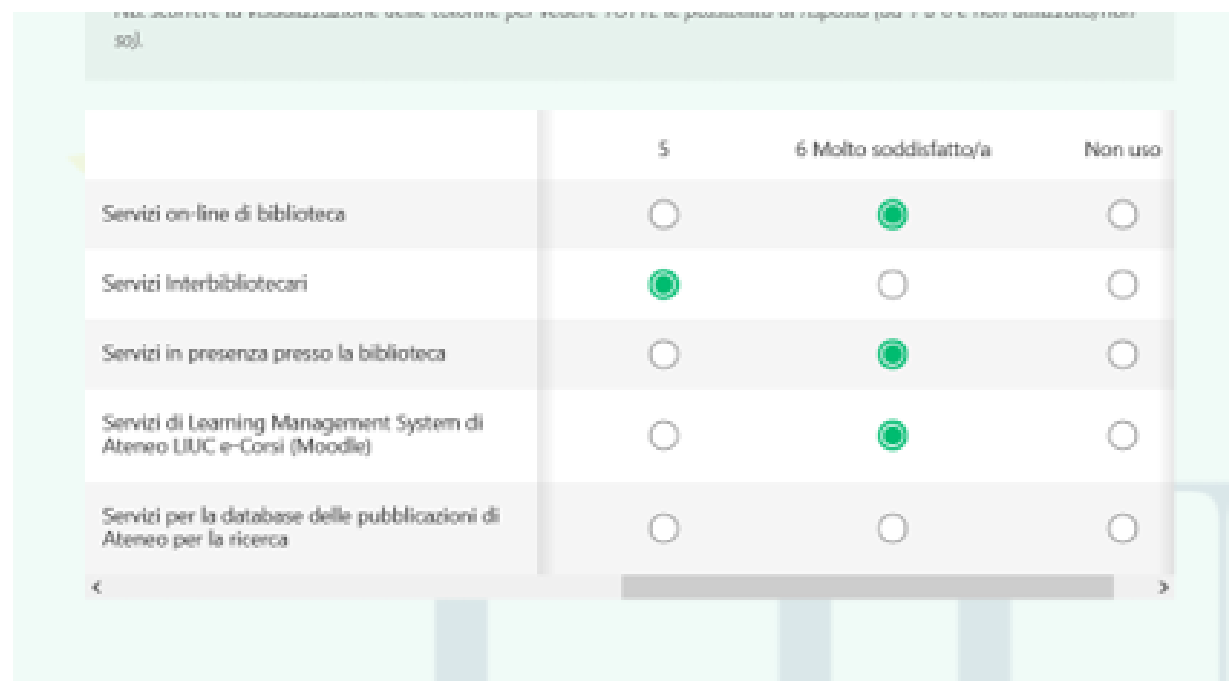
The smart harvesting function for assets in Italian language is inefficient

Sometimes updates cause negative consequences on individual implementations

Researchers' feedback

84% of Esploro users are satisfied and very satisfied

Research office feedback

- ** Grants and projects are managed in a different platform by Research Office

- 100% satisfied about reporting

Waiting for new enanchements!