BBMRI-ERIC®

MAKING NEW TREATMENTS POSSIBLE

BBMRI-ERIC FEDERATED PLATOFRM

A DISCOVERY SERVICE FOR BUILDING CROSS-BORDER COHORTS

Konrad Lang

EUROPEAN RESEARCH INFRASTRUCTURE FOR BIOBANKING

24 MEMBER STATES

- BBMRI-ERIC
- BioBanking and Molecular Research Infrastructure ERIC
- Providing tools and services for samples and data
- Make samples and data findable
- Service to negotiate on sample and data exchange

EUROPEAN RESEARCH INFRASTRUCTURE FOR BIOBANKING

PROJECTS

- BY-COVID
- CY-Biobank
- DIAMONDS
- EHDS2
- EOSC Future
- EOSC4CANCER
- EPND
- EuCanImage
- INTERVENE
- ISIDORe
- BIGPICTURE
- canSERV
- CETOCOEN II
- ConcePTION
- EJP RD
- EUCAN-Connect
- IC2PerMed
- PROPHET
- HealthyCloud

WHY FEDERATED PLATFORM
EXPECTATIONS

Researcher

- ✓ Donor and sample level information
- ✓ Real-time search

© German Biobank Node

Biobanker

- ✓ Data harmonized & ready to use
- ✓ Less inadequate requests

© German Biobank Node

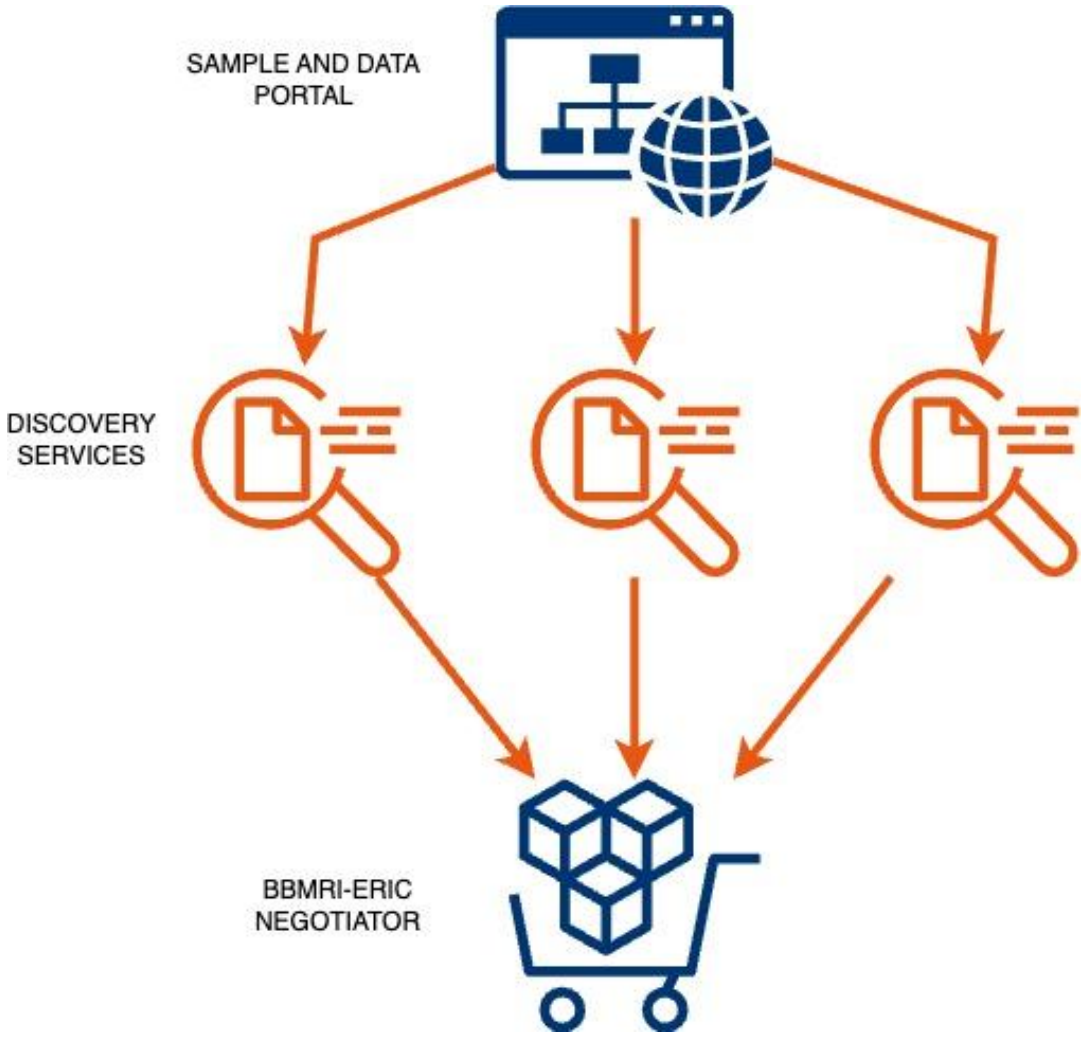
A FEDERATION REQUIRES A FEDERATED SOLUTION

MEMBERS, OBSERVERS, AND THE POTENTIAL

Main Objectives

- ✓ An interconnected system that is safe and spans across borders
- ✓ Federated analysis on Sample and Donor level
- ✓ A community driven data model
- ✓ Expediting data access
- ✓ Increase the datafication of biobanks to prepare for the EHDS regulation

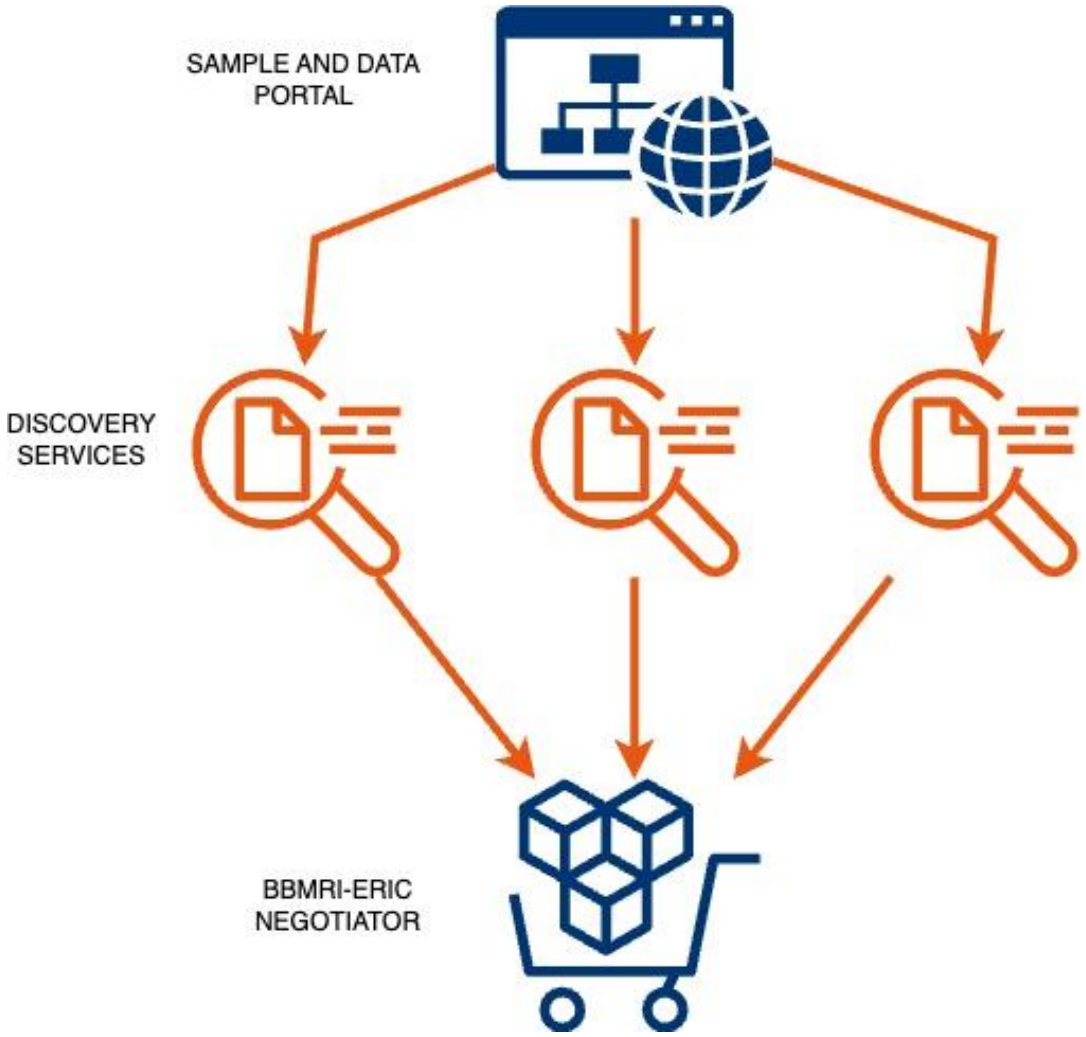
HOW?


SAMPLE AND DATA PORTAL
DISCOVERY SERVICES
BBMRI-ERIC NEGOTIATOR

HOW?

“I need tissue and liquid samples fitting to my research scope.”

- The **Locator** is your access to the samples and data associated to the samples based on real-time search on donor and sample level.



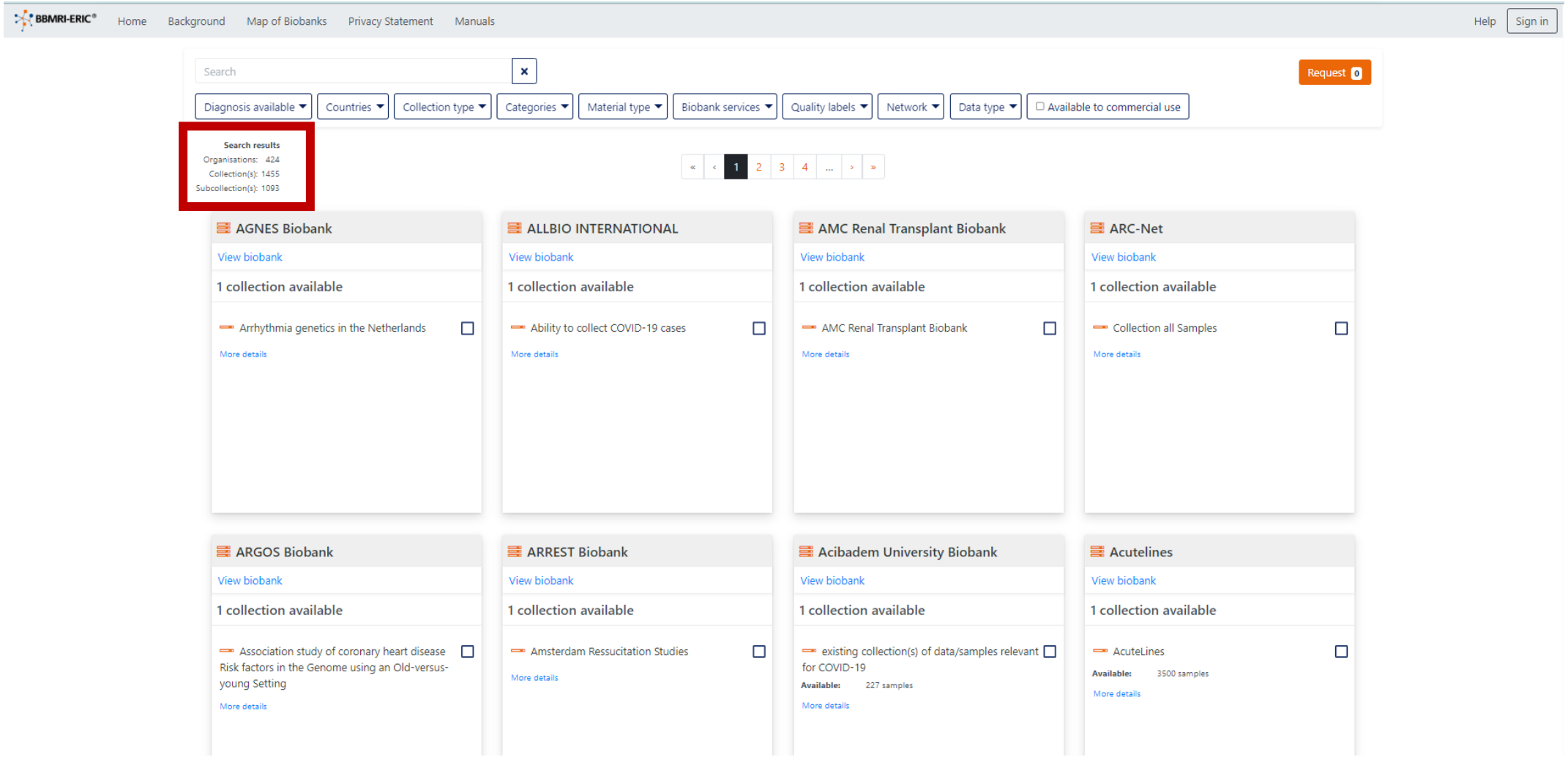
“I am interested more in genomics and population data analysis than samples themselves.”

- The **Finder** is a data analysis tool focused on clinical, phenotypic and genomics data.

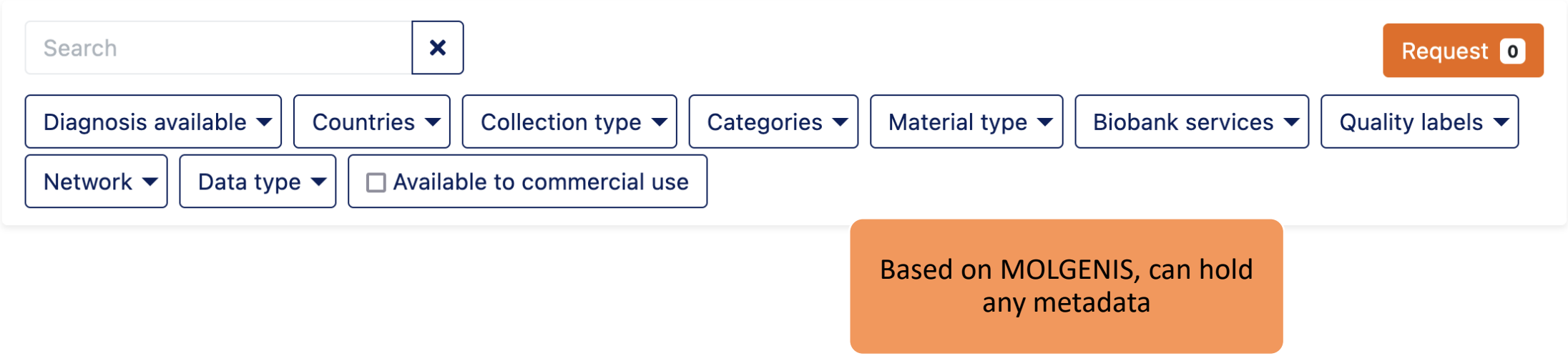
“I want to browse all biobanks in the BBMRI-ERIC.”

- The **Directory** is a broad catalogue of our biobanks with aggregated information on their collections. You can browse and filter by country, sample type, quality marks and more.

BBMRI-ERIC DIRECTORY



JUST A METADATA CATALOGUE



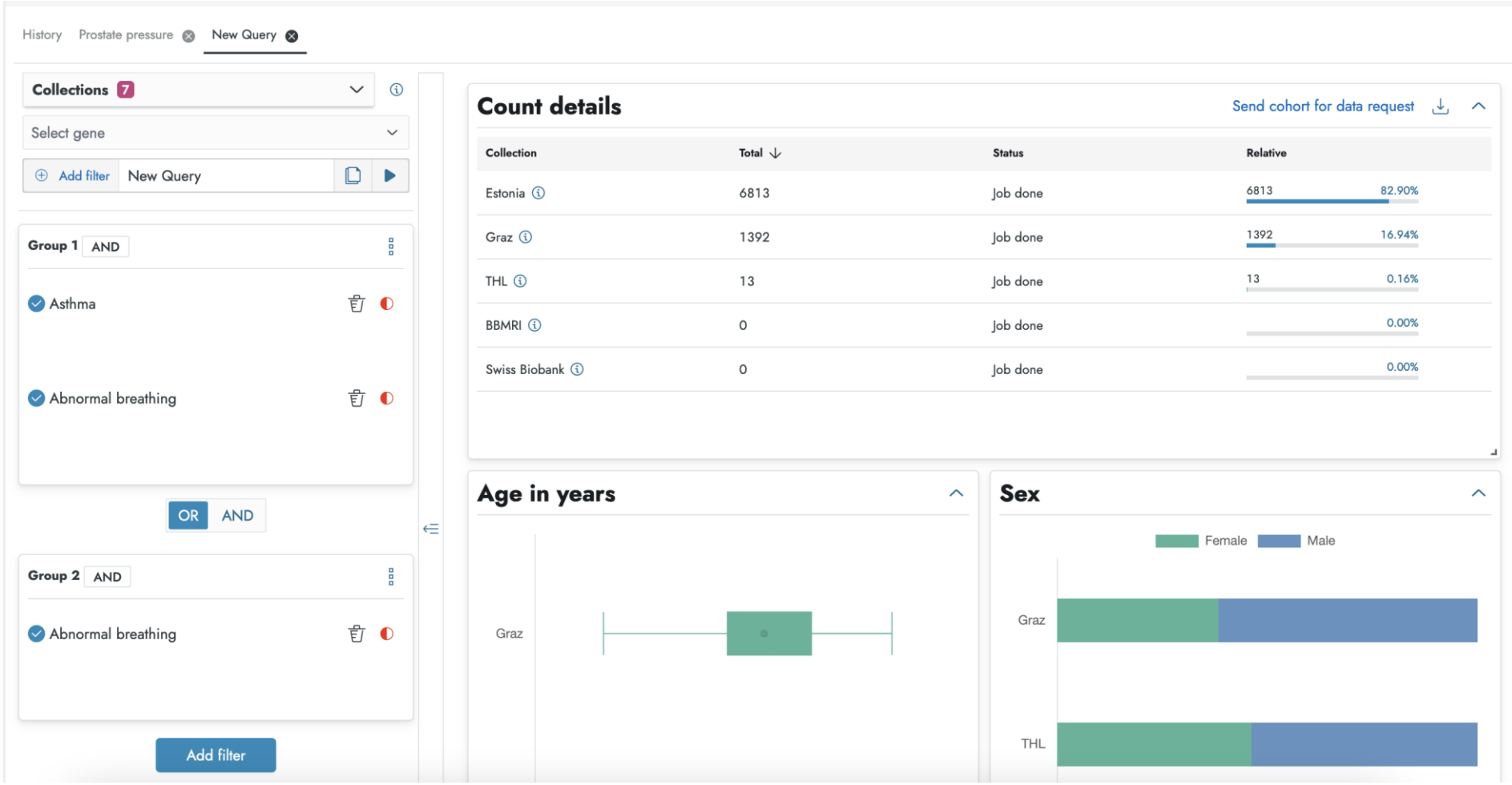
Based on MOLGENIS, can hold any metadata

SAMPLES COLLECTION DESCRIPTION

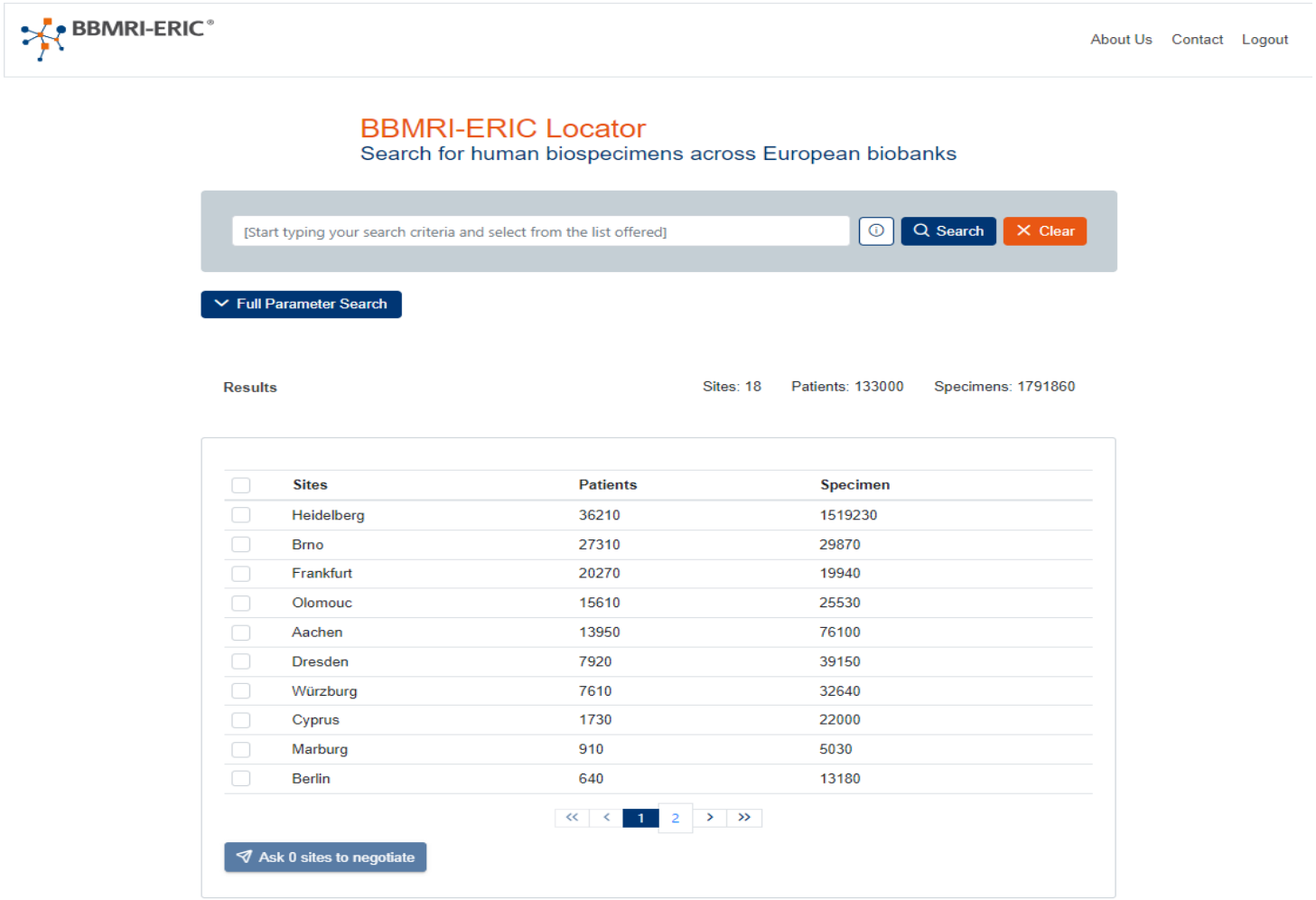
Cells

Id:	bbmri-eric:ID:CZ_MMCI:collection:Cells
Size:	100 - 1000
Age:	18-100 Year
Type:	Hospital, Sample collection
Sex:	Female, Male
Materials:	Cell lines, Peripheral blood cells
Storage:	Liquid Nitrogen
Data:	Biological samples Imaging data Medical records National registries Survey data Physiological/Biochemical measurements
Diagnosis:	Malignant neoplasm of oesophagus Malignant neoplasm of stomach Malignant neoplasm of colon Malignant neoplasm of rectum Malignant neoplasm of bronchus and lung Malignant melanoma of skin Malignant neoplasm of ovary Malignant neoplasm of kidney, except renal pelvis

FINDER.BBMRI-ERIC.EU

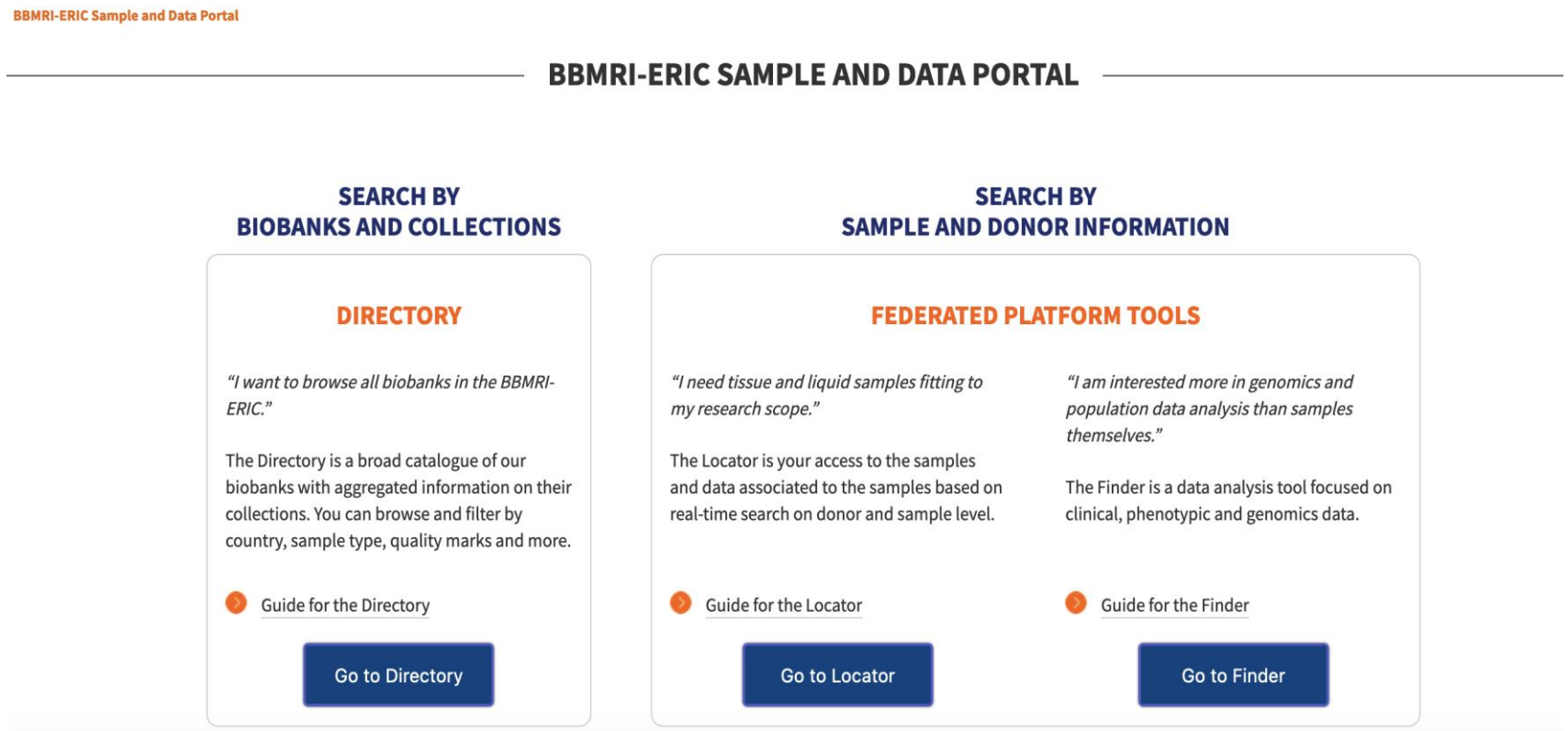


LOCATOR.BBMRI-ERIC.EU



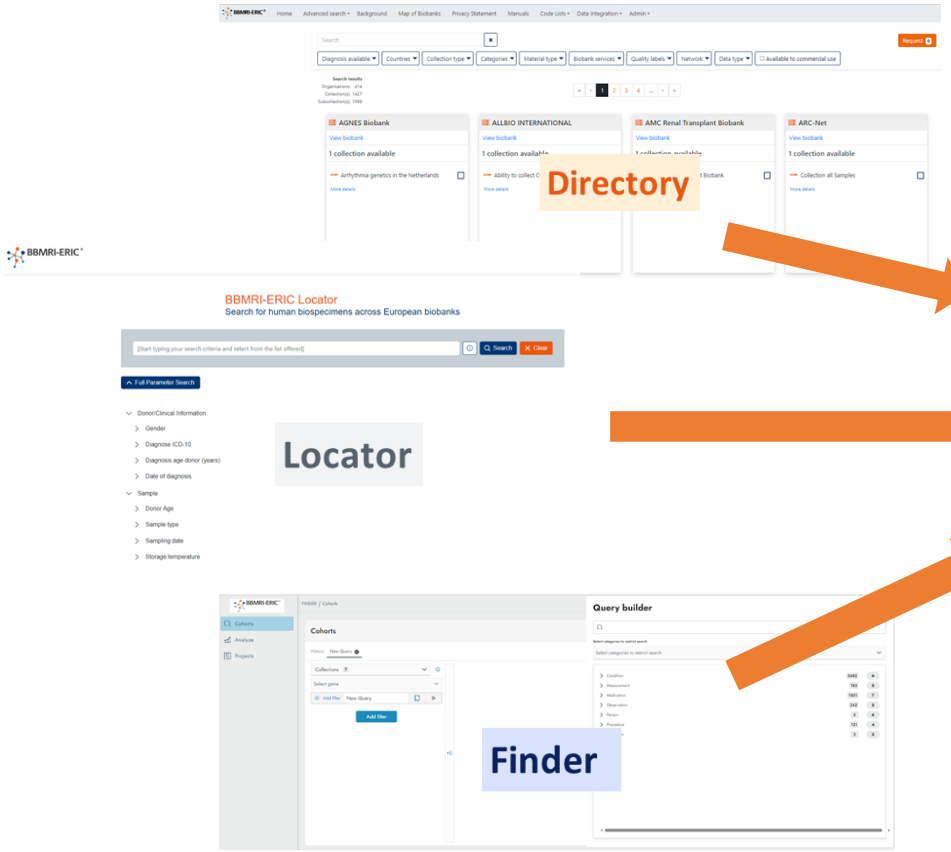
FSP LANDING PAGE

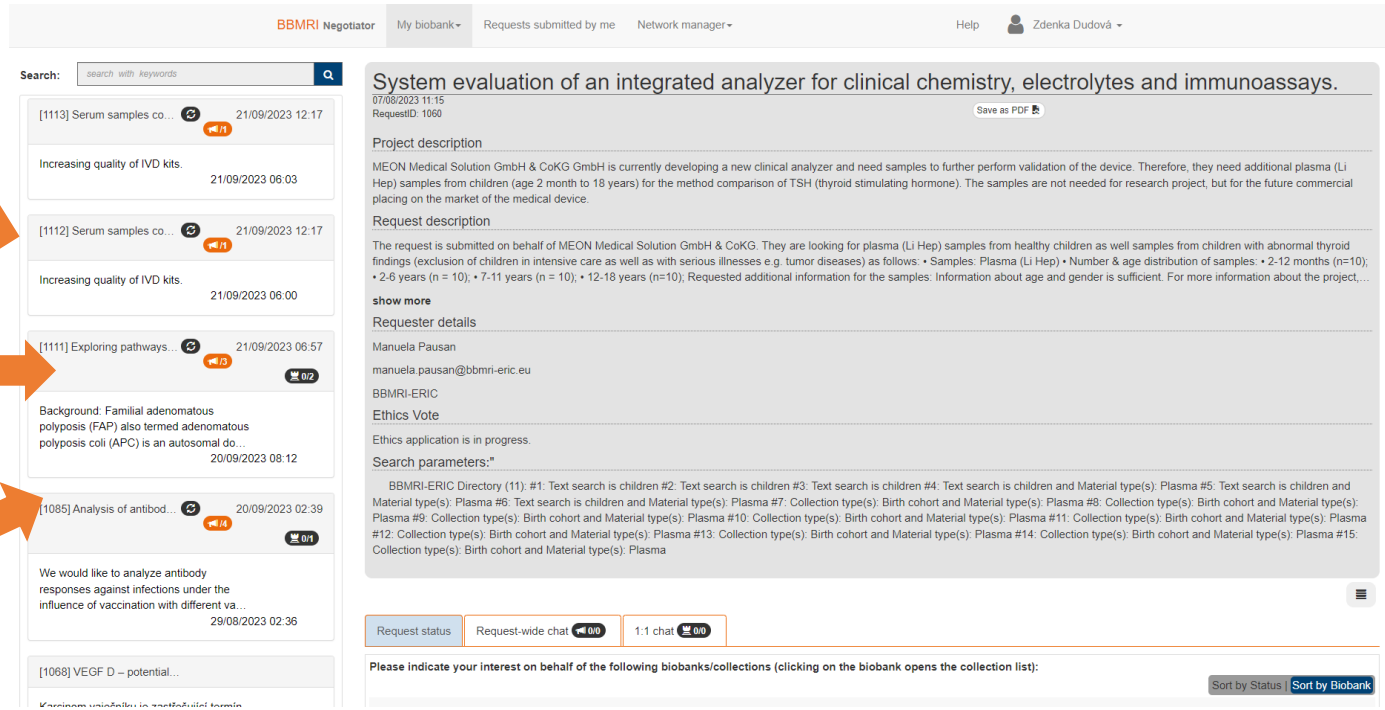
HTTPS://BBMRI-ERIC.EU/BBMRI-SAMPLE-AND-DATA-PORTAL/



NEGOTIATOR

ACCESS NEGOTIATION



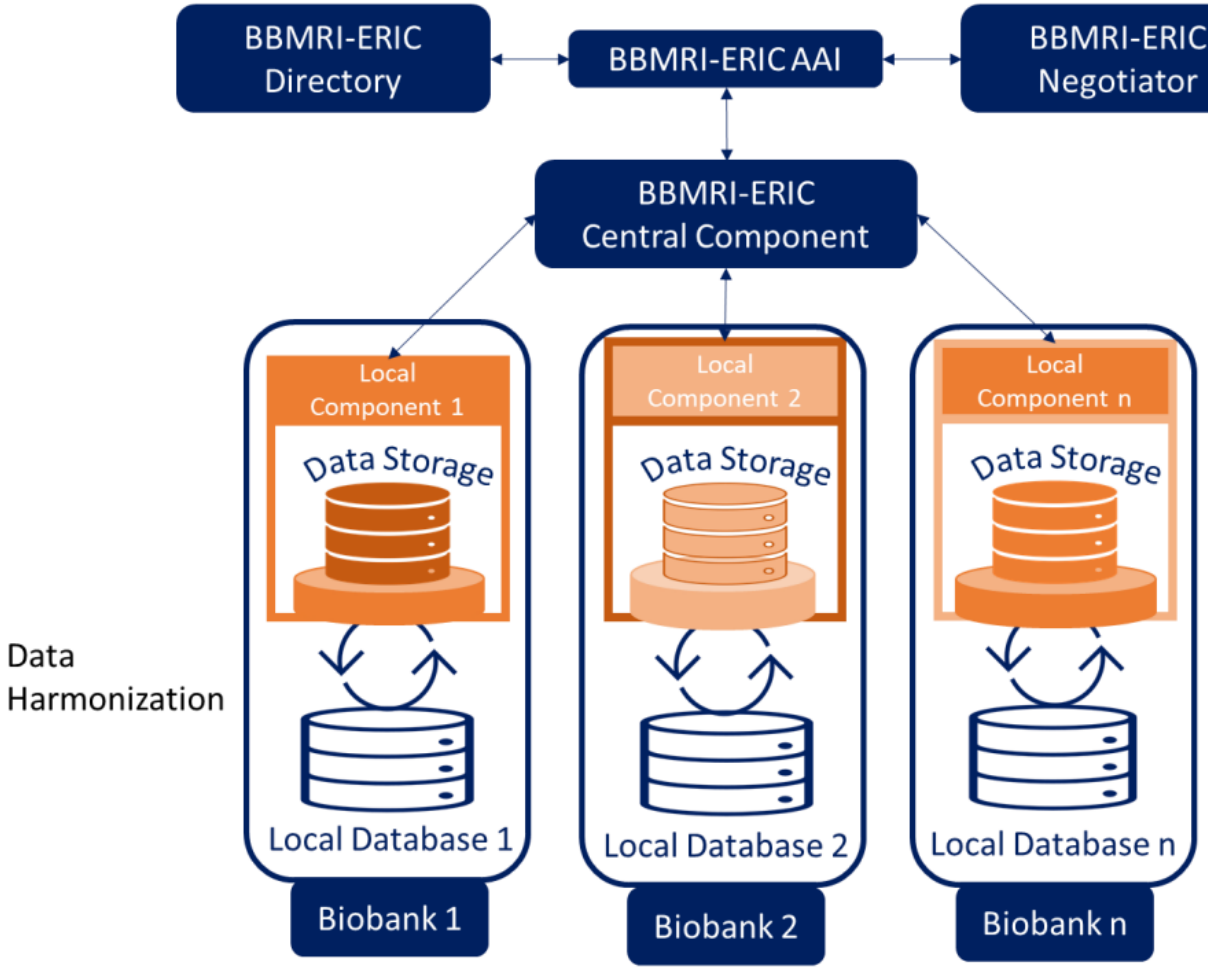


LS LOGIN

AUTHENTICATION AND AUTHORIZATION

- **A single login for using all services in Life Science RI**

FEDERATED SEARCH SOLUTION ARCHITECTURE



Open Source Access Negotiation Solution for Research Infrastructures

FEDERATED SEARCH TASK FORCE

IN-KIND EFFORT TO REACH BIG GOALS

- ✓ Participants from all national nodes

Role

- ✓ Supportive group to provide leadership and guidance on the development of the BBMRI-ERIC Federated Search tools
- ✓ Suggesting practical solutions to assist the longer-term interoperability between the systems
- ✓ Suggesting the visions -> Management Committee & Assembly of Members approval
- ✓ Tight communication with solution providers (deliverables, timeframe)

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THANK YOU!

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