MERIL

MAPPING OF THE EUROPEAN RESEARCH INFRASTRUCTURE LANDSCAPE

The MERIL portal; Current status, assets and options for further development

Paul Beckers, MERIL Project Manager

Final MOFRI/ MERIL Workshop
12-13 November 2012, Strasbourg

**The MERIL project is supported by the European Commission under Framework Programme 7 - Contract # 262159.*

Outline

- Process of meta-data collection
- Current facts and figures
- Demonstration of MERIL portal (beta-version)
  - display and search features (front-end)
  - how to enter and update RI metadata (back-end)
- Further completion and development

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Process of meta-data collection

March 2011-mid April 2012

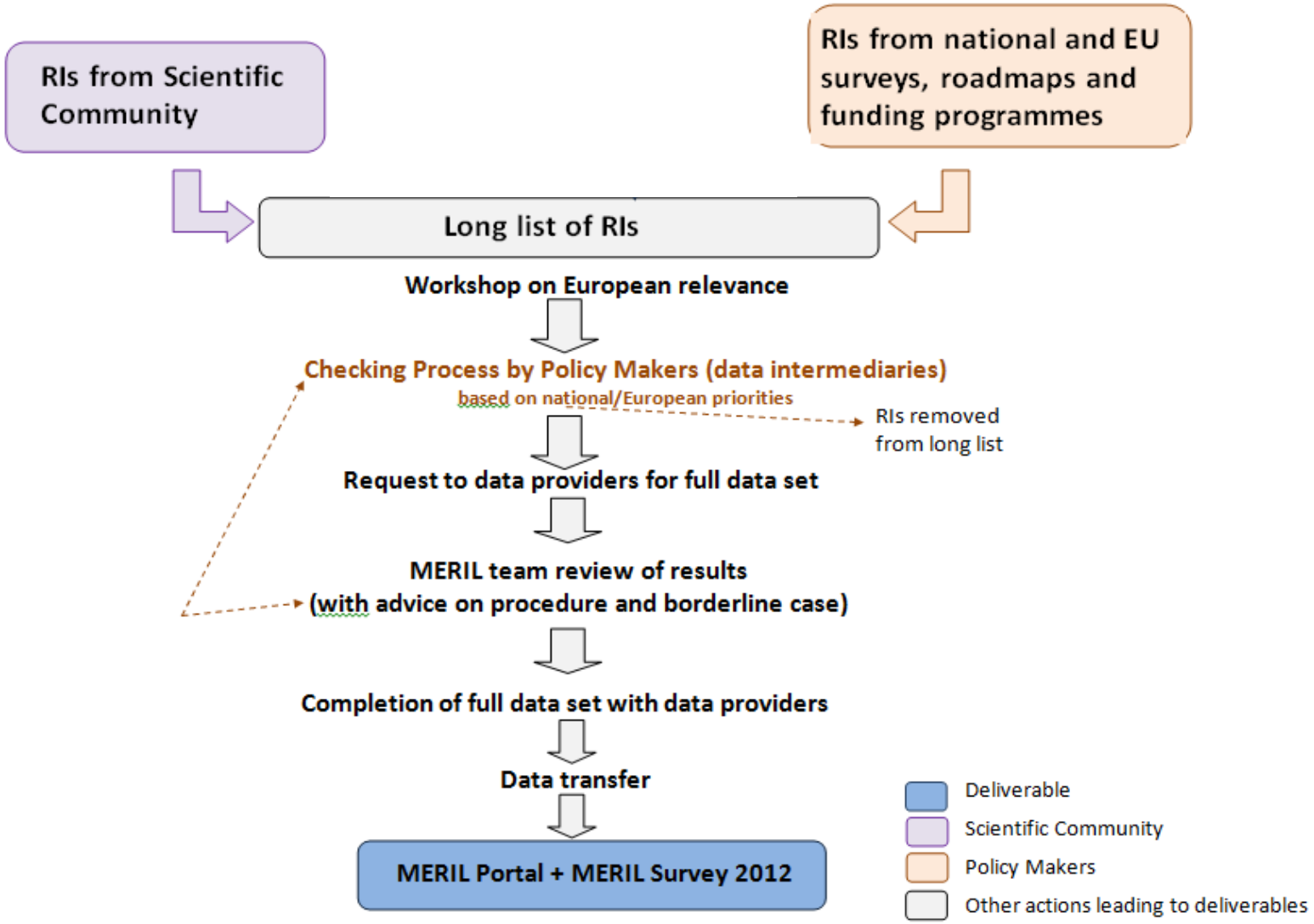
23-24 April 2012

May 2012

June 2012

July-Dec. 2012

December 2012; January 2013



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Process of meta-data collection

Checking "more than national relevance"

1. Quality

- **assessment by funding organisation** → meet acceptable quality standards.

For a database

- data should easily and consistently retrievable,
- appropriate metadata to enable the data to be analysed, compared and re-used,
- use harmonised standards with other equivalent centres.

2. Access

- **clear and public rules and procedures**
- **access based on an assessment** of the quality when limited resource
- **significant time must be available for outside users**

3. Management

- **single entry point** for the RI
- **support arrangements for Science Users**;
- **procedures for the management of data.**
- **funding approved for a period sufficient to deliver the type of access typical for that class of facility**. For new projects, initial funding for construction and a clear timetable for the opening of research services.

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Process of meta-data collection

RIs checked for
"more than national relevance"
(quality, access, management)
by data-intermediaries

Country
AUSTRIA
BELGIUM
BULGARIA
CROATIA
CYPRUS
CZECH REPUBLIC
DENMARK
ESTONIA
FINLAND
FRANCE
GERMANY
GREECE
HUNGARY
ICELAND
IRELAND
ITALY
LATVIA
LITHUANIA
LUXEMBOURG
MALTA
NETHERLANDS
NORWAY
POLAND
PORTUGAL
ROMANIIA
SLOVAKIA
SLOVENIA
SPAIN
SWEDEN
SWITZERLAND
TURKEY
UK

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Current facts and figures

Current status:

1252 RIs from national lists;

total estimation about 1500 including main missing countries

Requests sent out for full data in June-July; deadline 1 November

Received so far:

About 200 rather complete

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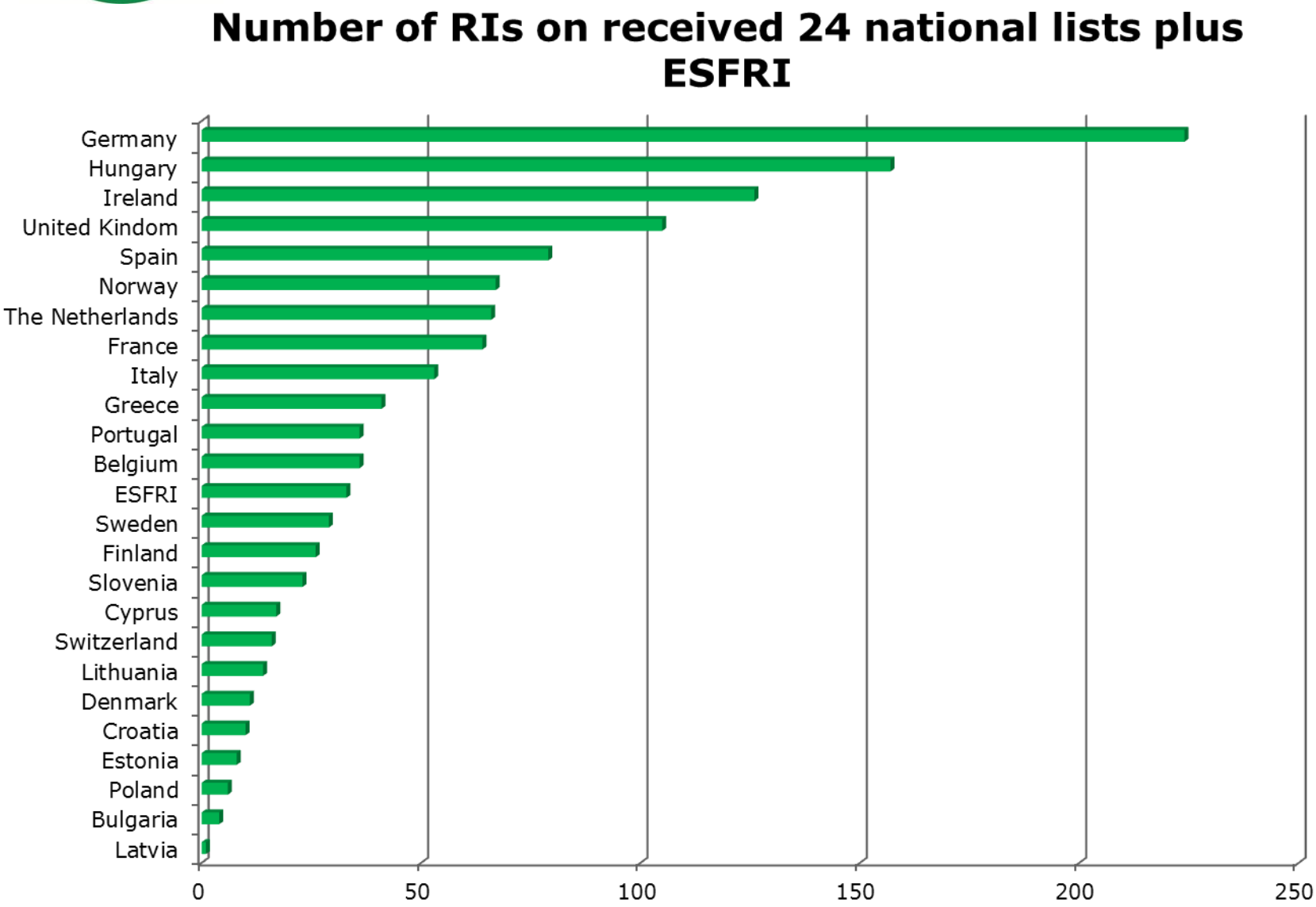
Process of meta-data collection



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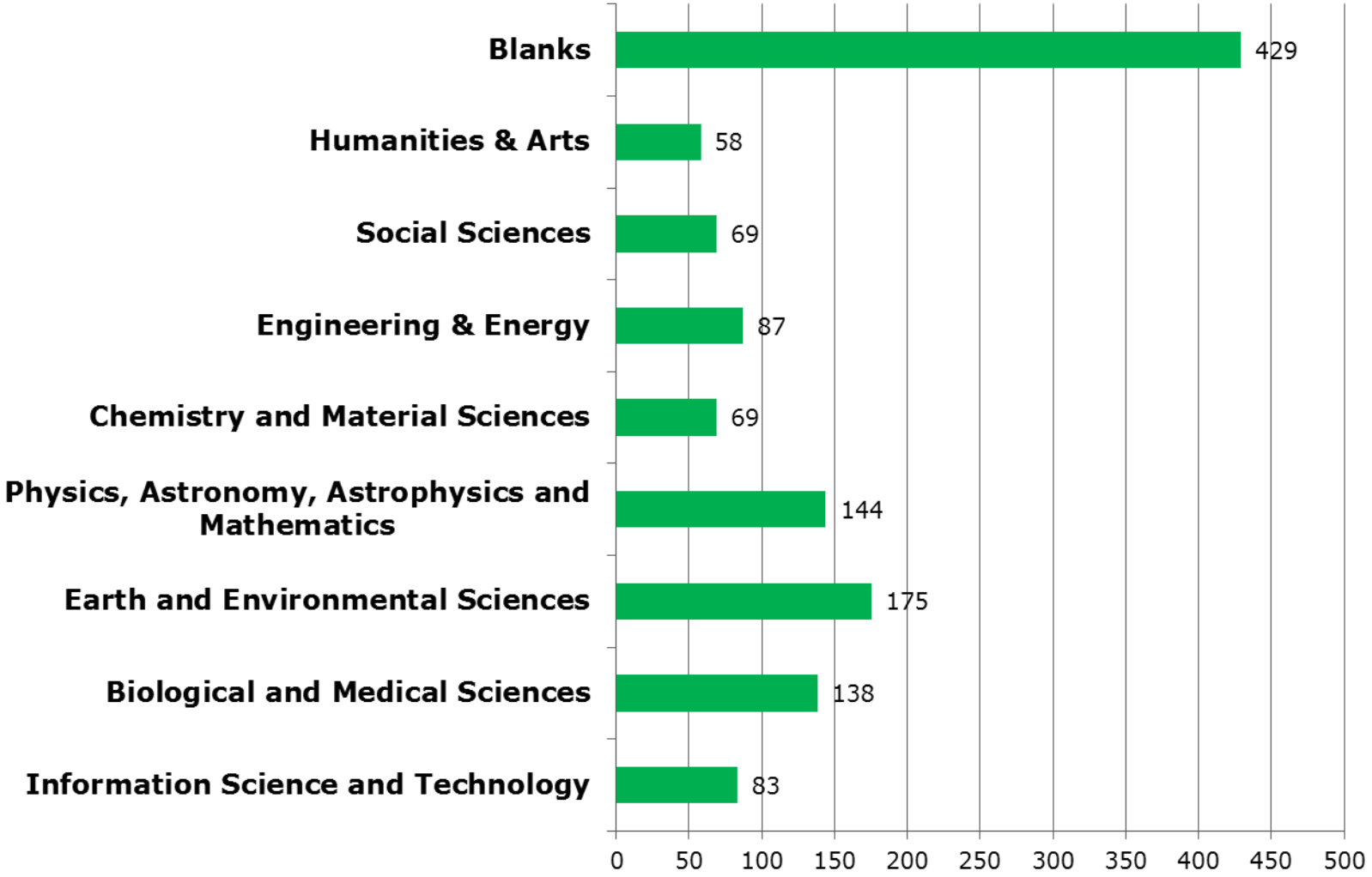
Current facts and figures

Number of RIs allocated to Scientific Domains



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Demo

MERIL portal beta-version

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Reports – List page

MERIL

List of Research Infrastructures

2012-08-30 05:14

EUS

Acronym: EUS
RI Type:
Country: Germany
Keywords: phenotyping, genotype, crops, resource use efficiency, plant traits, functional traits, structural traits, non-invasive methods, phytopathology
Last update: 2012-08-29 11:04

IPK-APPP

Acronym: IPK
RI Type:
Country: Germany
Keywords: phenotyping, genotype, crops, resource use efficiency, plant traits, functional traits, structural traits, non-invasive methods,
Last update: 2012-08-29 11:04

JPPC

Acronym: Juelich
RI Type:
Country: Germany
Keywords: phenotyping, genotype, crops, resource use efficiency, plant traits, functional traits, structural traits, non-invasive methods,
Last update: 2012-08-29 11:04

For details about the MERIL Portal content, see http://esf.avedas.com/converis-esf/static/about 1

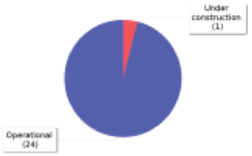
List short descriptions

Statistics

MERIL

2012-08-30 05:20

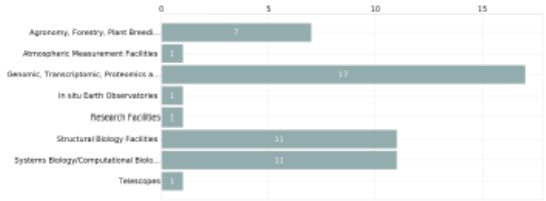
Research Infrastructures by Status



Research Infrastructures by Type

Research Infrastructures by Scientific domain

Research Infrastructures by RI Category



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Further completion and development

To do list: Data

- Clean RI metadata (duplications; among others national nodes of ESFRI projects)

- Remind data-intermediaries of missing countries

- Data intermediaries should double-check their national list on "more than national relevance"

- Remind RI operators → MERIL team
  → National data intermediaries

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Further completion and development

To do list: search features

- External search
- Visualisation of external searched data

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External search

Google custom search

Overview
New search engine...
My search engines
Select search engine...
Control panel
Basics
Sites
Indexing
Refinements
Promotions
Synonyms
Autocompletions
Google Analytics New!

Control panel - Sites: RI Websites Search Engine

Included sites Viewing 1 - 9 of 9

URL contains: Apply Filter Clear

Add Sites Delete

- http://grid.desy.de
- http://www.renater.fr
- http://www.rediris.es
- http://www.cineca.it
- http://www.fz-juelich.de/nic
- http://www.newton.cam.ac.uk/
- http://www.cesca.es
- http://www.begrid.be/
- http://www.bsc.es

Excluded sites

You have not excluded any sites – E

Search engine (dynamically) set up on RI websites relevant to the filters

Search field and results to be integrated in MERIL List page

MERIL
MAPPING OF THE EUROPEAN RESEARCH INFRASTRUCTURE LANDSCAPE

FAQ | ABOUT |

Reset all filters

Scientific Domains
- × Astronomy and Astrophysics (17)
- + Information Science and Technology (1)
- + Name of Scientific Domain Testdomain (1)

RI Categories » more
- + Ground-based Telescopes (13)
- + Astro-Particles and neutrinos detectors and observatories (2)
- + Underground Laboratories (1)
- + Computing Grids (1)
- + Software depositories (1)

Countries » more
- + Spain (10)
- + Other (2)
- + Netherlands (2)
- + Germany (1)
- + Turkey (1)

Status
- + Under construction (2)

RI Type
- + Distributed (7)
- + Single-sited (10)

Reset all filters

Homepage » List of Research Infrastructures » External Search

External Search

Telescope Search

About 82 results (0.27 seconds)

Spain takes part in major global astronomy project with 9
9 **telescopes** and 2 satellites in Spain will take part in a major global astronomical observation on 3 and 5 April 2009. In total fourteen **telescopes** around the ...
www.rediris.es/anuncios/2009/20090402_0.html.en

Isaac Newton Resources
The Whipple Museum contains a replica Newtonian reflecting **telescope**, and a number of portraits of Newton. Isaac Newton Exhibition at Cambridge University ...
www.newton.cam.ac.uk/newton.html

Folie 1
File Format: PDF/Adobe Acrobat
Jul 11, 2011 ... LHC in Geneva, the neutrino **telescope** IceCube at the South Pole and the. International Linear Collider ILC. > DESY was founded 1959 and ...
grid.desy.de/mytalks/gellrich_wlcg_2011-07-11.pdf

Instituto Astrofísico de Canarias - LaPalma Node -
... del Roque de Los Muchachos - above all through the incorporation of the Gran **Telescope** CANARIAS (GTC) - and in this way reinforce the telecommunication ...
www.bsc.es/.../Instituto_Astrofísico_de_Canarias_-_LaPalma_Node.html

1 2 3 4 5 6 7 8 9

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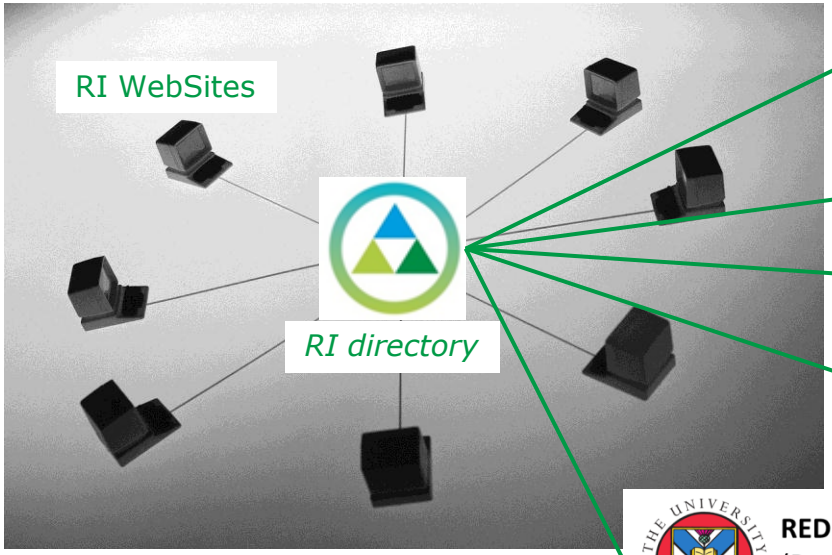
Further completion and development

MERIL as a *connected* e-infrastructure:

- MERIL = Hub in a distributed information system, starting with the RI websites
- Potential other nodes = EuroRIs-net+, PAERIP, REIsearch, REDIC, public-private clusters inventories...



PAERIP
Promoting African European Research Infrastructure Partnerships
RI Inventory

RI NCPs

EuroRIs-net+
RI Knowledge Repository

TOOLS OF SCIENCE europe
Gateway to Life Science Capacities in Europe

THE UNIVERSITY OF EDINBURGH
REDIC Project (Research Equipment Database in CERIF)

REIsearch®
Research Excellence Innovation Network
Changing the paradigm of knowledge

Researchers

EuroRIs-net+: European Network of National Contact Points for RIs
PAERIP: Promoting African – European Research Infrastructure Partnerships
REIsearch: Research Excellence Innovation Network
REDIC: Research Equipment Database in CERIF

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Further completion and development

Development 2012

- MERIL portal; ambition to have 80% by January 2013
- Survey 2012; written analysis of RIs of more than national relevance

Development 2013

- Maintenance and user support
- Continuous update and new entries
- Monitoring of usage
- New activity lines

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Acknowledgement

- National data intermediaries
- RI operators
- MERIL Steering Committee
- Current MERIL team
  Valerie Brasse, Fred Guillon (IS/IT staff)
  Sila Ocalan, Julien Rodrigues (data gathering/ import)
  Catherine Lobstein (Administrator)

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Thank you for your attention!

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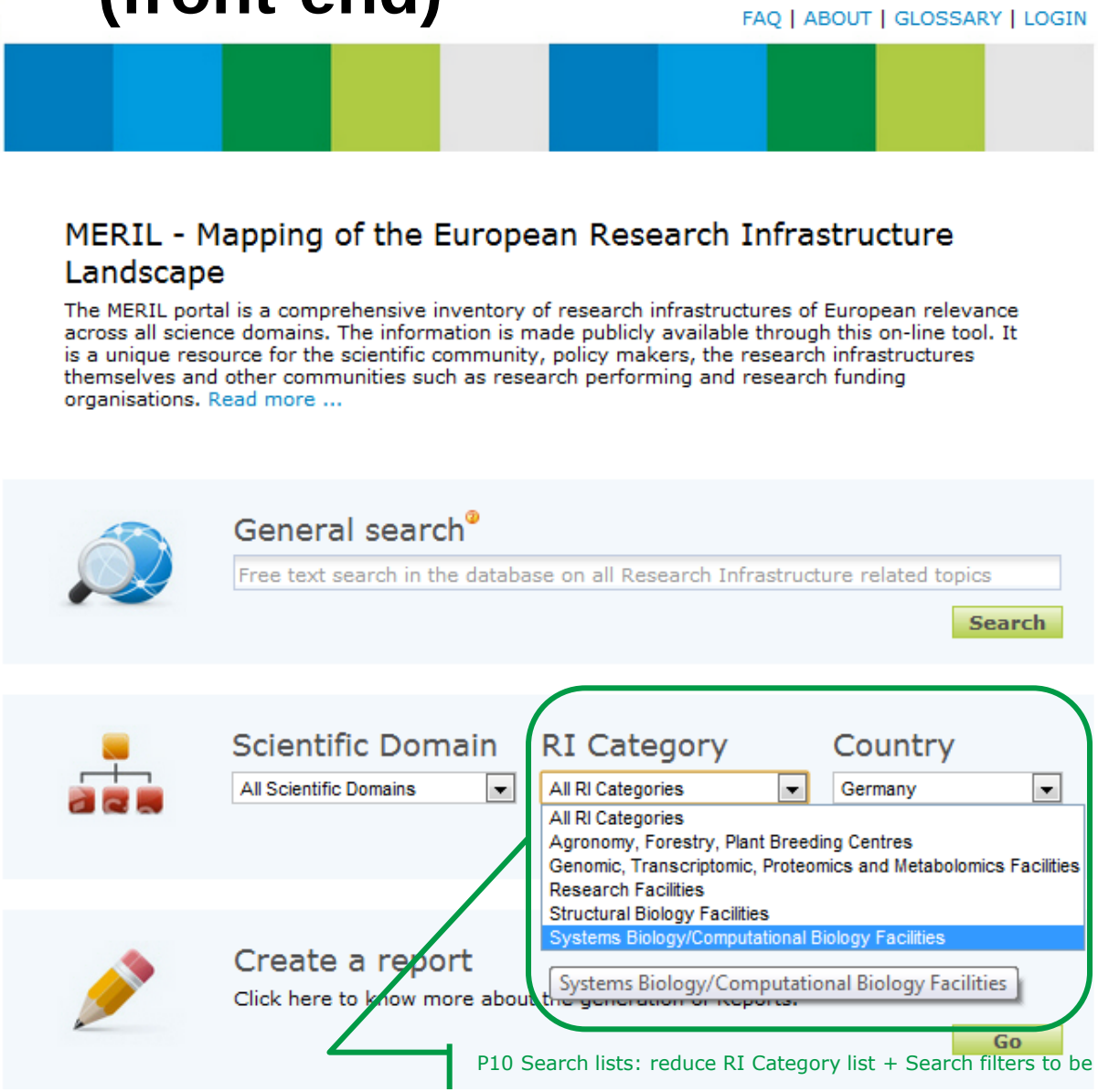
Demo display- and search-features (front-end)



P10 Search lists: reduce RI Category list + Search filters to be "idiot proof"

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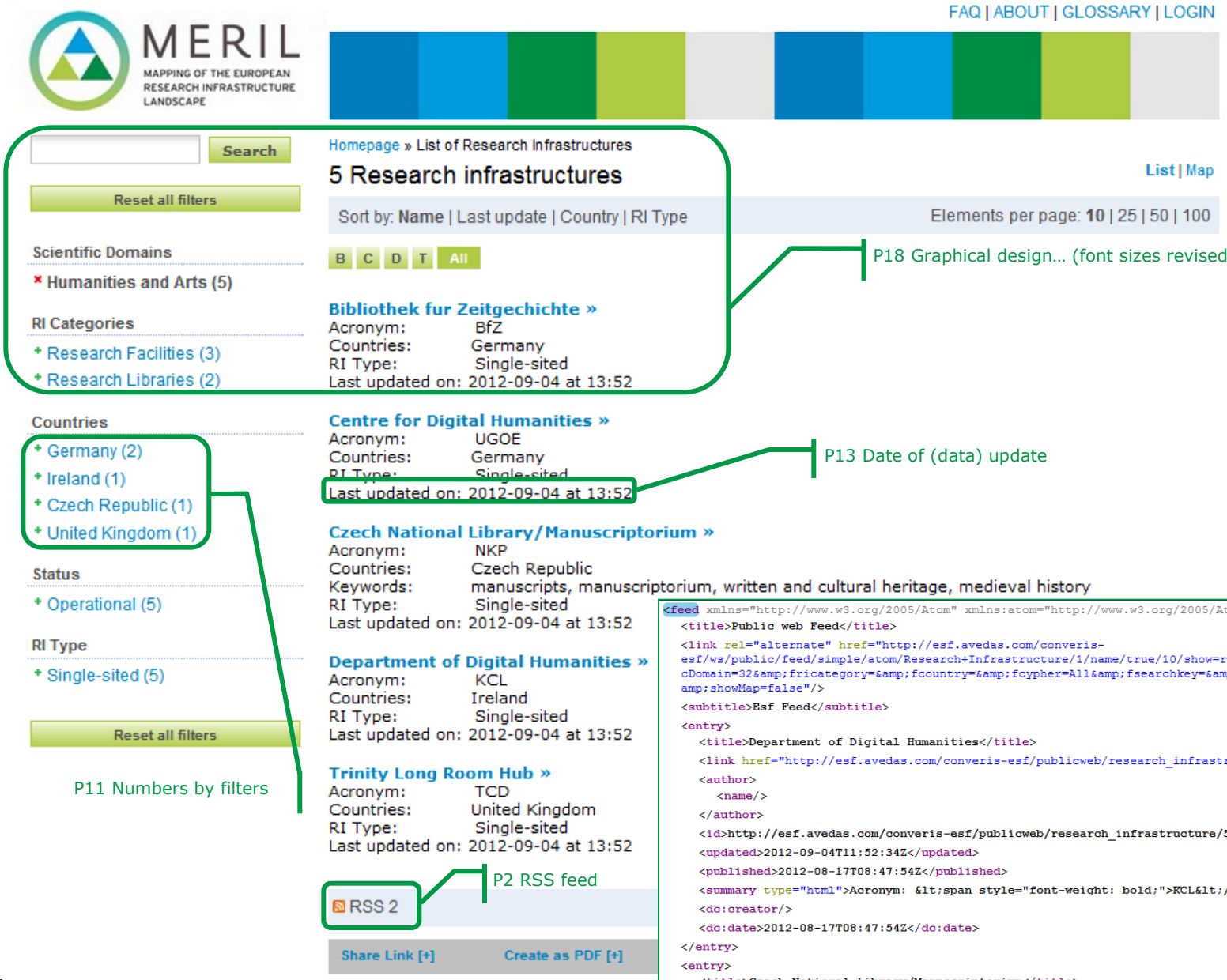
Demo RI List page



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RI Detail page

Search

« Back to the list

Scientific Domain

- Biological and Medical Sciences

RI Category

- Genomic, Transcriptomic, Proteomics and Metabolomics Facilities

Homepage » List of Research Infrastructures » Functional Genomics Center Zurich

ETHZ-FCGZ - Functional Genomics Center Zurich

http://www.fgcz.ch/

Hosting organisation:

ETH Zurich

Location:

Winterthurerstrasse 190 | 8057 Zurich
Switzerland

Contact:

Ralph Schlapbach

Details:

Average number of national users per year: 56

Average number of European users per year: 13

Average number of international users per year: 8

Main status: Operational since 2001

RI Type: Single-sited

Description:

The Functional Genomics Center Zurich (FGCZ) is a joint state-of-the-art research facility of the ETH Zurich and the University of Zurich since 2001. The FGCZ offers access to technologies, provides training, and collaboratively develops new analytical approaches in the areas of genomics, transcriptomics, proteomics, and metabolomics. The Proteomics platform of the center currently consists of 15 high-end mass spectrometers which allows FGCZ to support all of today's cutting edge proteomics approaches, as well as the development of the next generation of proteomics methods and tools.

Keywords:

proteomics

View big map

Research Service(s):

Targeted proteomics: SRM
Protein quantification: Chemical labeling (iTRAQ, ICAT, Dimethyl)
Protein identification: Offgel - LC-MS/MS
Protein identification: Gel electrophoresis - LC-MS/MS
Computational analysis
Protein quantification: Label free

Equipment(s):

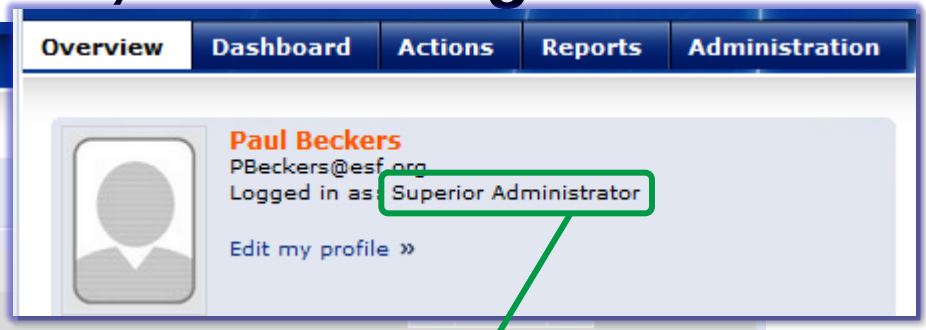
Q-ToF Mass Spectrometer
Ion Trap Mass Spectrometer
Orbitrap Mass Spectrometer
Triple Quadrupole Mass Spectrometer
FT-ICR Mass Spectrometer

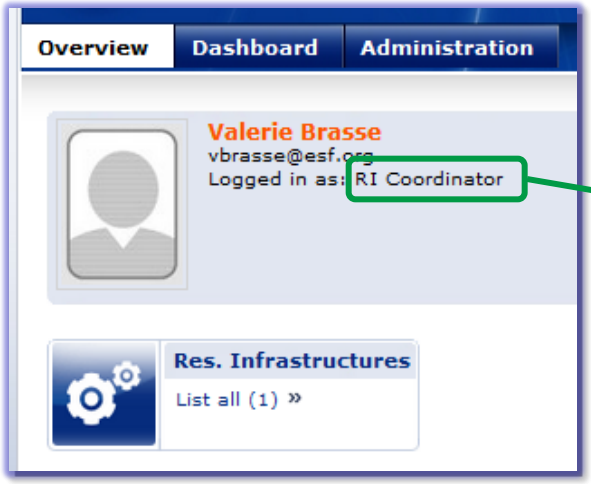
Last updated on: 2012-09-04 at 13:52

P13 Date of (data) update

Share Link [+] Create as PDF [+]

Demo Back-office; Access rights





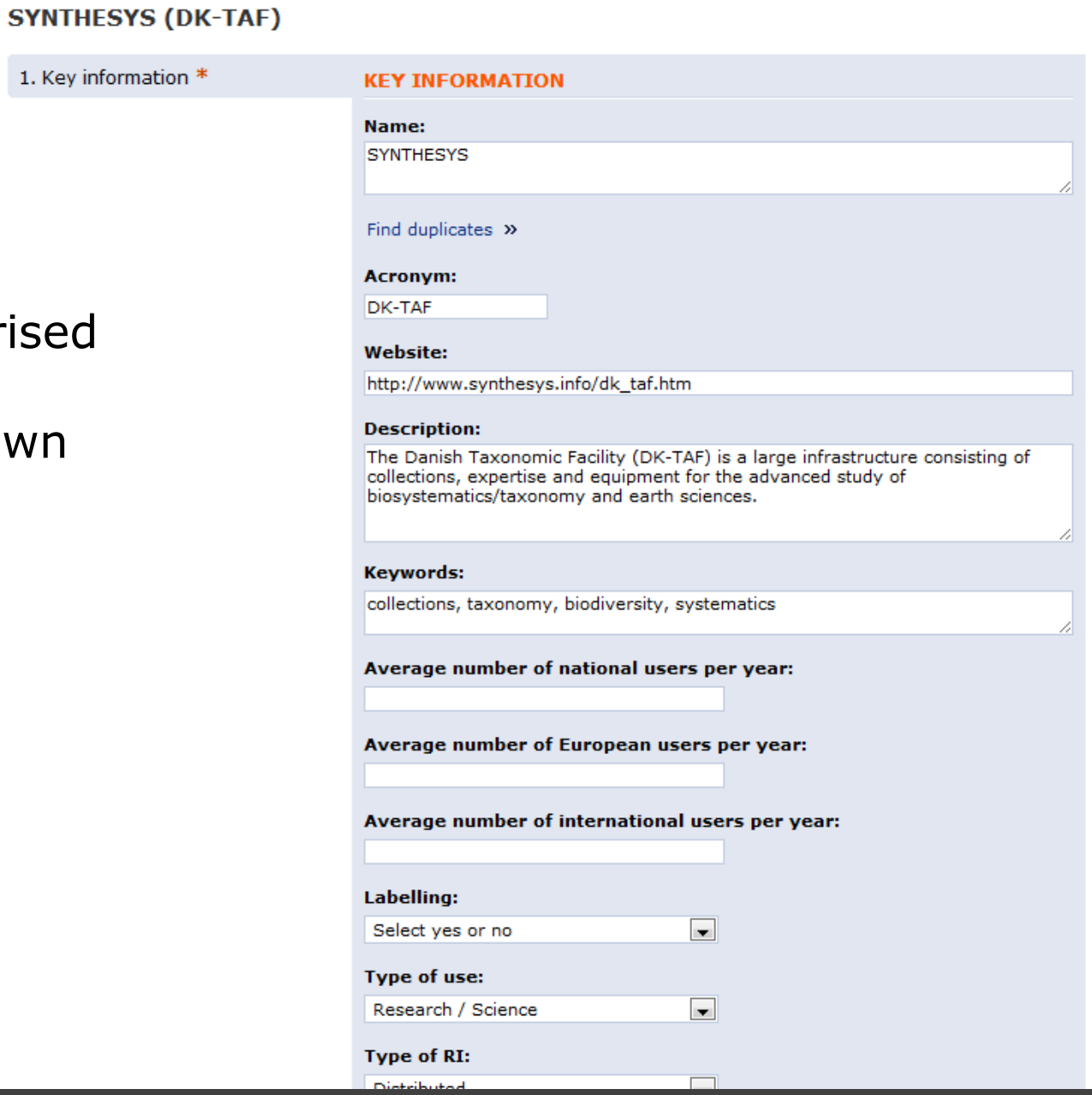
*The MERIL project is supported

Access Rights; Back- office

RI Coordinator

⇒ access to an authorised RI for edition

⇒ Text fields, drop-down lists…



*The MERIL project is

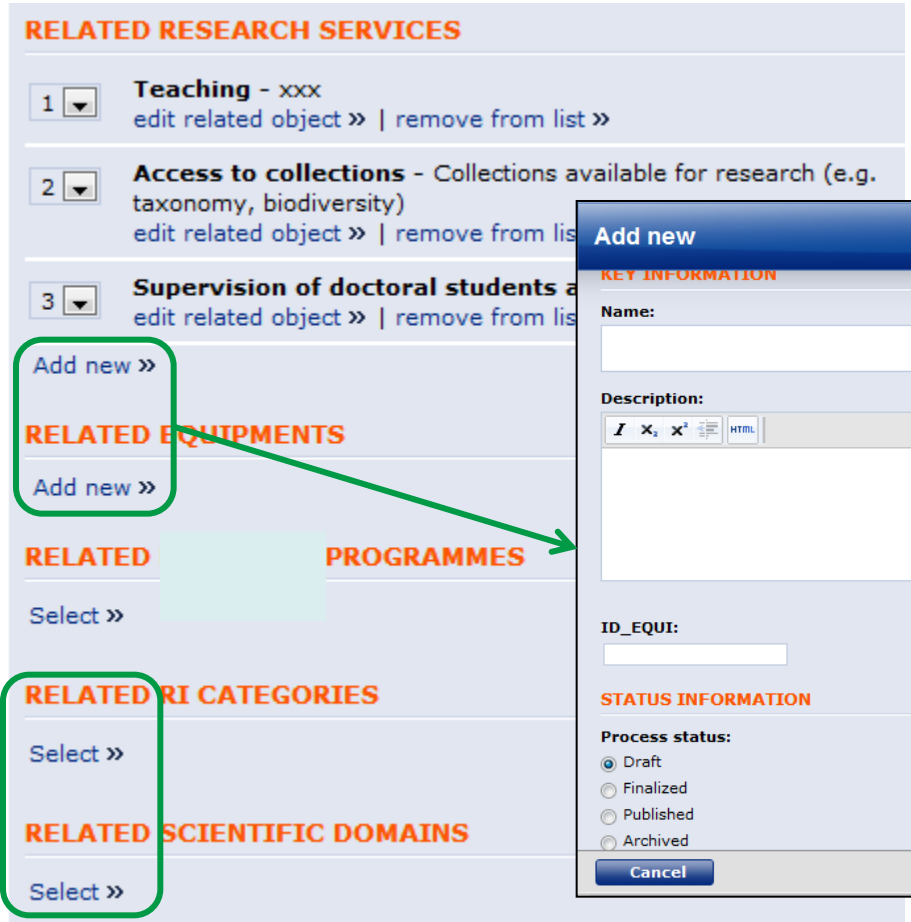
Access Rights - Back-office

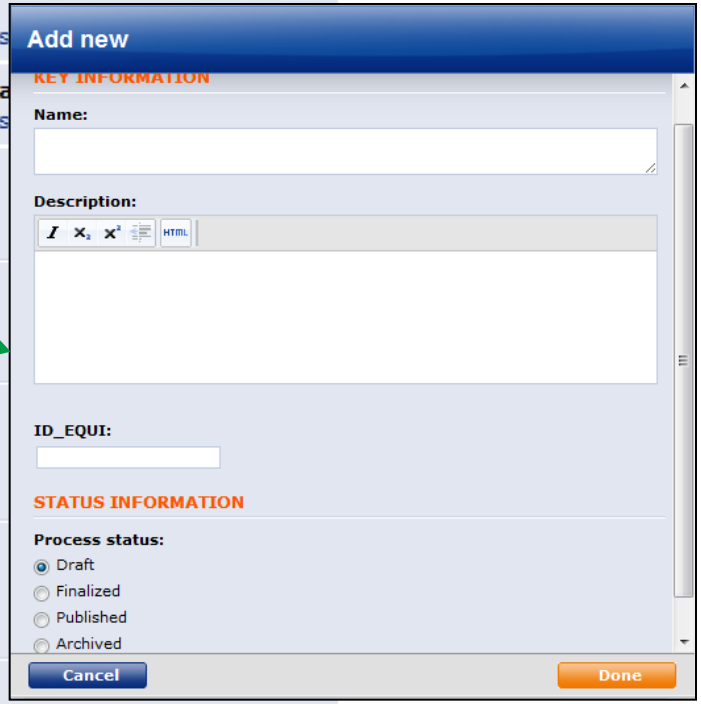
RI edition:

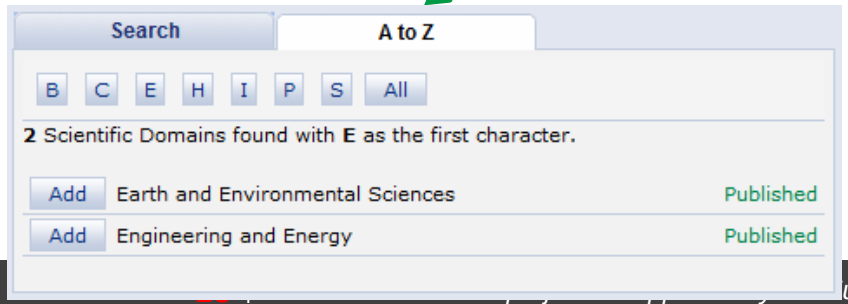
⇒ Linked entities for *creation and addition*

⇒ Research services, Equipments…

⇒ Funding Programmes







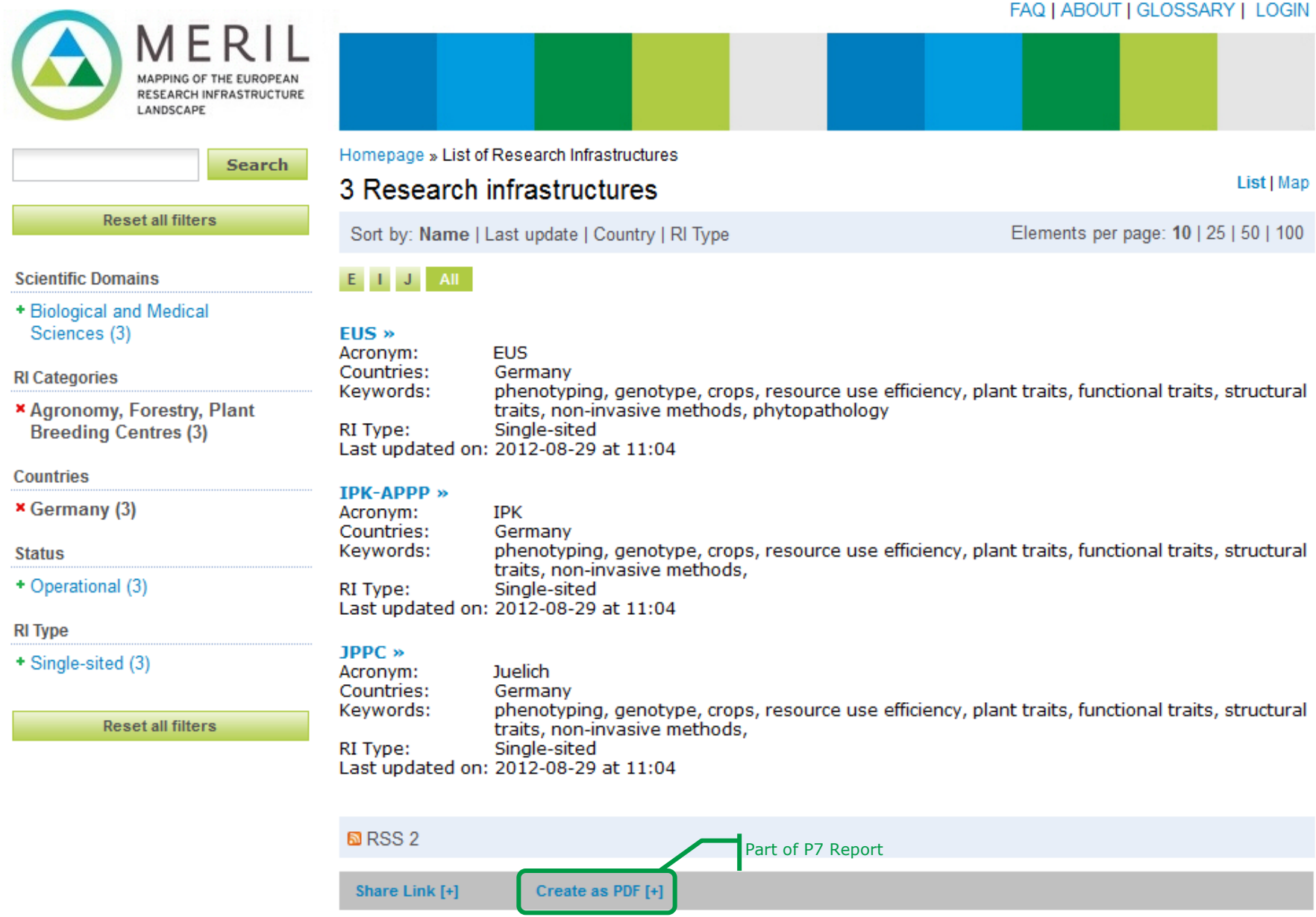
RI edition:

⇒ Linked entities for *selection only*

⇒ Scientific Domains, RI Categories, Grand Challenges, Organisations…

uropean Commission under Framework Programme 7 - Contract # 262159.

Reports - List page



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3. WP7: M2 / Reports – List page

Statistics

MERIL

List of Research Infrastructures

2012-08-30 05:14

EUS

Acronym: EUS
RI Type:
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Last update: 2012-08-29 11:04

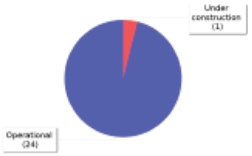
For details about the MERIL Portal content, see http://esf.avedas.com/converis-esf/static/about 1

List short descriptions

MERIL

2012-08-30 05:20

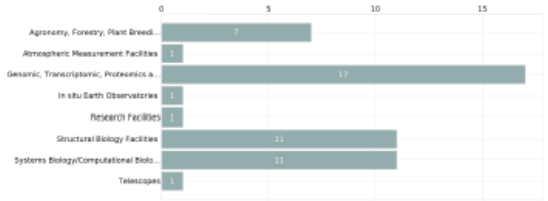
Research Infrastructures by Status



Research Infrastructures by Type

Research Infrastructures by Scientific domain

Research Infrastructures by RI Category



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3. WP7: M2 / Geomap - List page

Search

Reset all filters

Scientific Domains

* Biological and Medical Sciences (17)

RI Categories

× **Genomic, Transcriptomic, Proteomics and Metabolomics Facilities (17)**

* Structural Biology Facilities (11)
* Systems Biology/Computational Biology Facilities (11)

Countries « less

* Belgium (1)
* Czech Republic (1)
* France (2)
* Germany (2)
* Italy (1)
* Netherlands (2)
* Slovenia (1)
* Spain (1)
* Sweden (1)
* Switzerland (2)
* United Kingdom (3)

Status

* Under construction (1)
* Operational (16)

RI Type

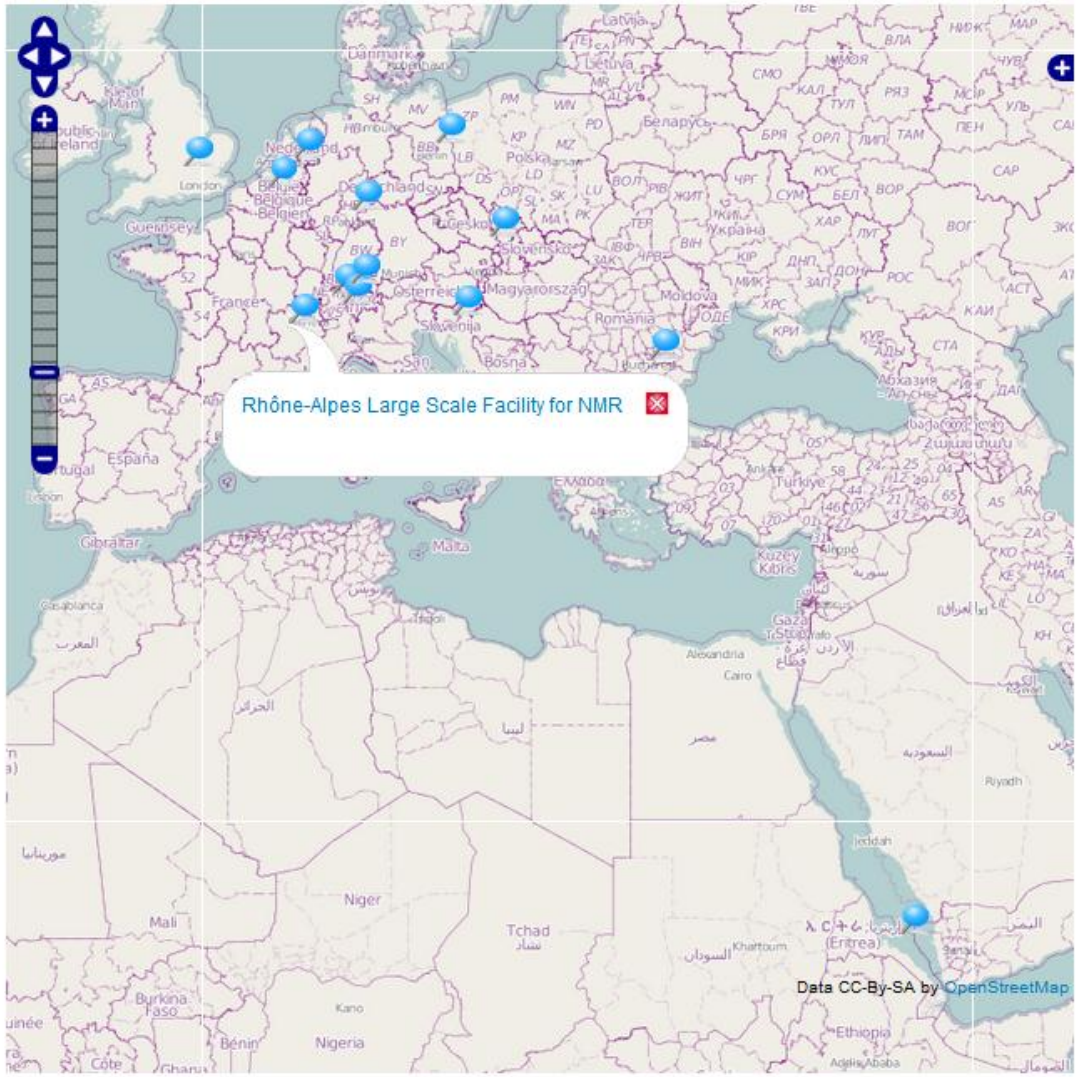
* Single-sited (17)

Reset all filters

Homepage » List of Research Infrastructures

17 Research infrastructures

List | Map



Biological and Medical Sciences

Chemistry and Material Sciences

Earth and Environmental Sciences

Reports & Geomap – Detail page

Search

« Back to the list

Scientific Domain

* Biological and Medical Sciences

Homepage » List of Research Infrastructures » Functional Genomics Center Zurich

ETHZ-FCGZ - Functional Genomics Center Zurich

http://www.fgcz.ch/

Hosting organisation:

ETH Zurich

Location:

Winterthurerstrasse 190 | 8057 Zurich
Switzerland

Contact:

Ralph Schlapbach

Details:

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Average number of international users per year: 8

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Computational analysis

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Equipment(s):

Q-ToF Mass Spectrometer

Ion Trap Mass Spectrometer

Orbitrap Mass Spectrometer

Triple Quadrupole Mass Spectrometer

FT-ICR Mass Spectrometer

Last updated on: 2012-09-04 at 13:52

Share Link [+] Create as PDF [+]

View big map

Part of P8 Geomaps with OpenStreetMap

Part of P7 Report

Detailed description

MERIL

Research Infrastructure – Detail format

2012-08-30 05:35

Functional Genomics Center Zurich

http://www.fgcz.ch/

Hosting organisation:
ETH Zurich

Location:
Winterthurerstrasse 190 | 8057 Zurich | -
Switzerland

Contact:

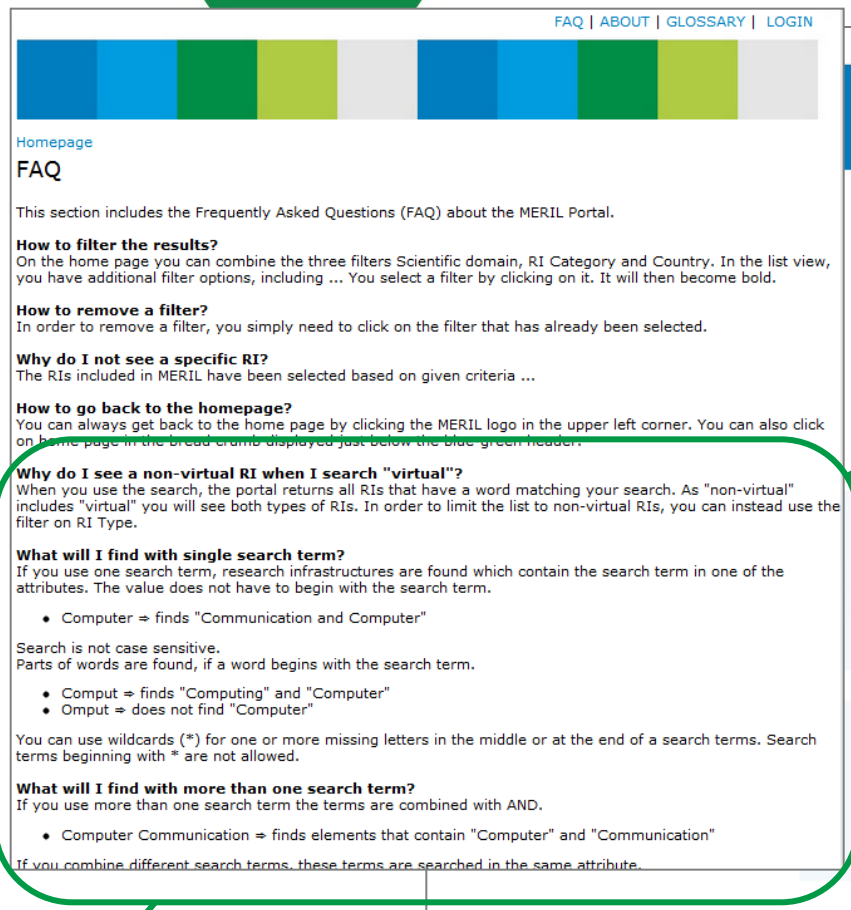
Scientific Domain(s):
Biological and Medical Sciences

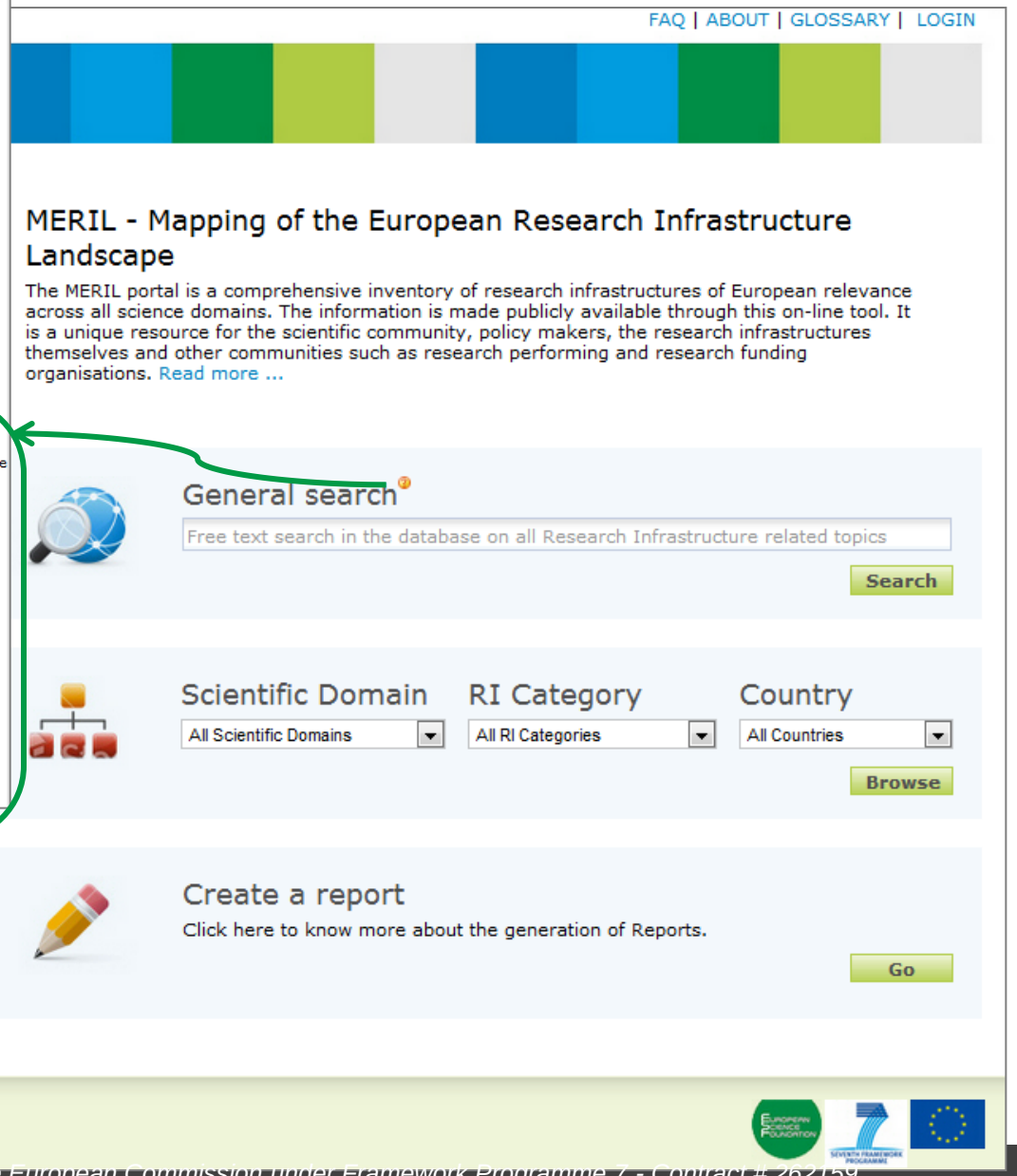
RI Category(ies):
Genomic, Transcriptomic, Proteomics and Metabolomics Facilities

Details:
Number of national users per year:
Number of European users per year:
Number of international users per year:
Status:
Since:
RI Type:

Description:
The Functional Genomics Center Zurich (FGCZ) is a joint state-of-the-art research facility of the ETH Zurich and the University of Zurich since 2001. The FGCZ offers access to technologies, provides training, and collaboratively develops new analytical approaches in the areas of genomics, transcriptomics, proteomics, and metabolomics. The Proteomics platform of the center currently consists of 15 high-end mass spectrometers which allows FGCZ to support all of today's cutting edge proteomics approaches, as well as the development of the next generation of proteomics methods and tools.

Advanced search





P9 Advanced Search: Question mark bringing to FAQ

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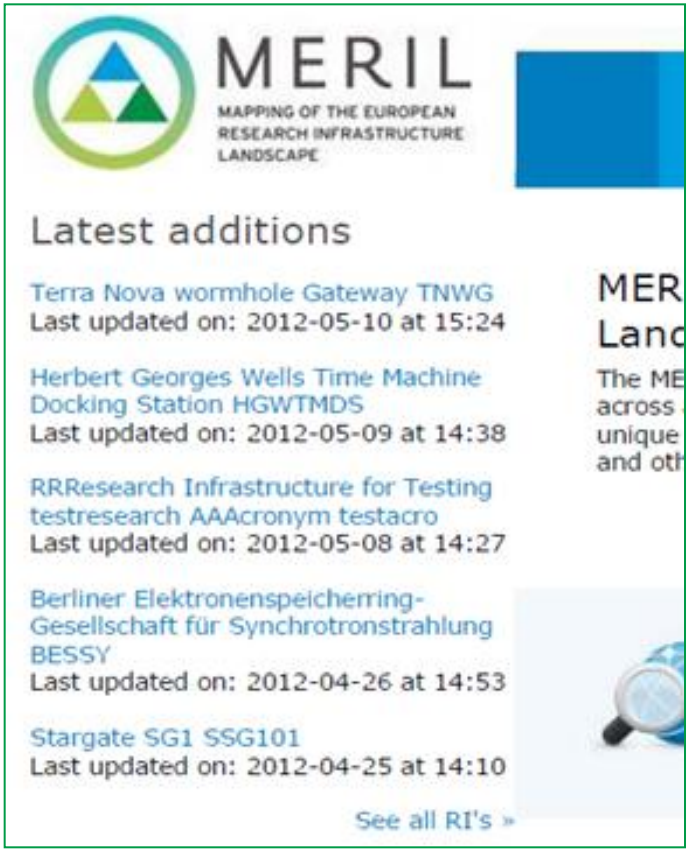
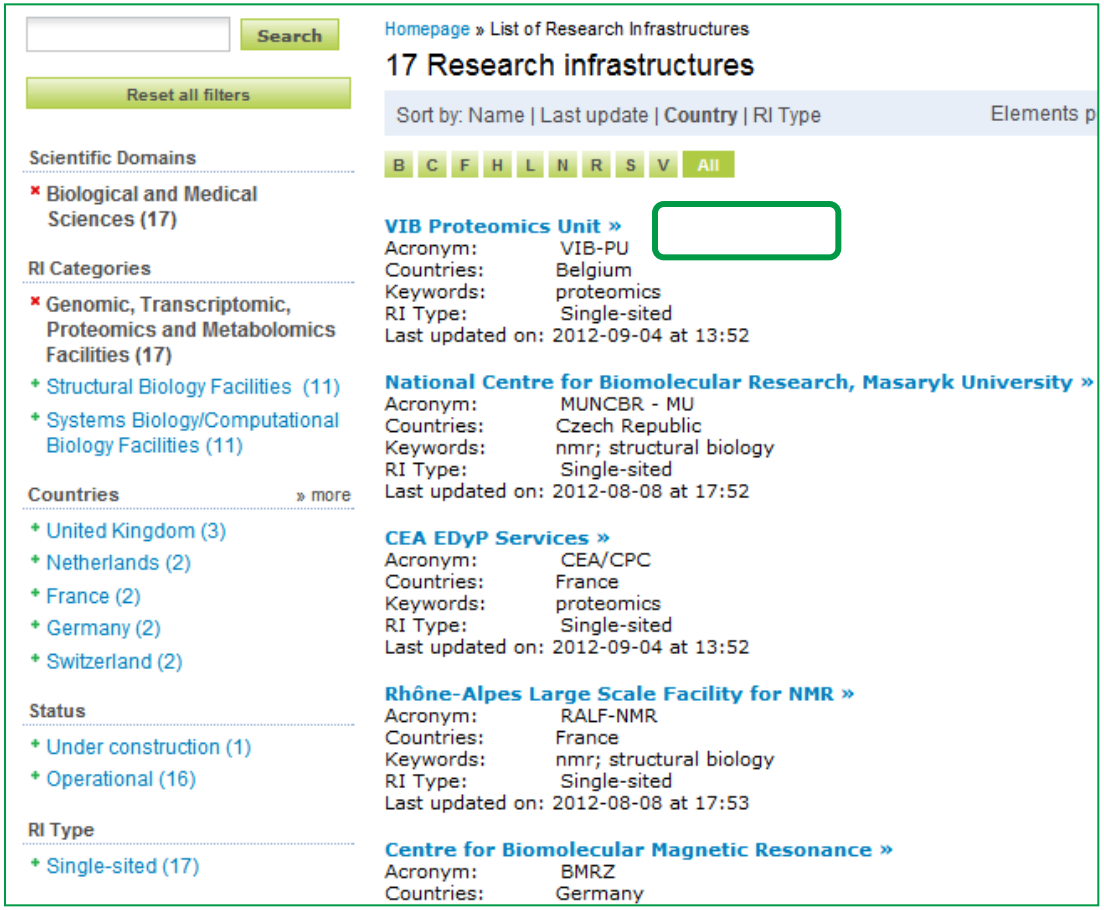
Sorting by country, by type "Latest additions" widget





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