The European Commission's science and knowledge service

Joint Research Centre

JRC NCP Annual Meeting
Session 1

5 February 2019

Scientific Development Unit

European Commission

Fabio Taucer

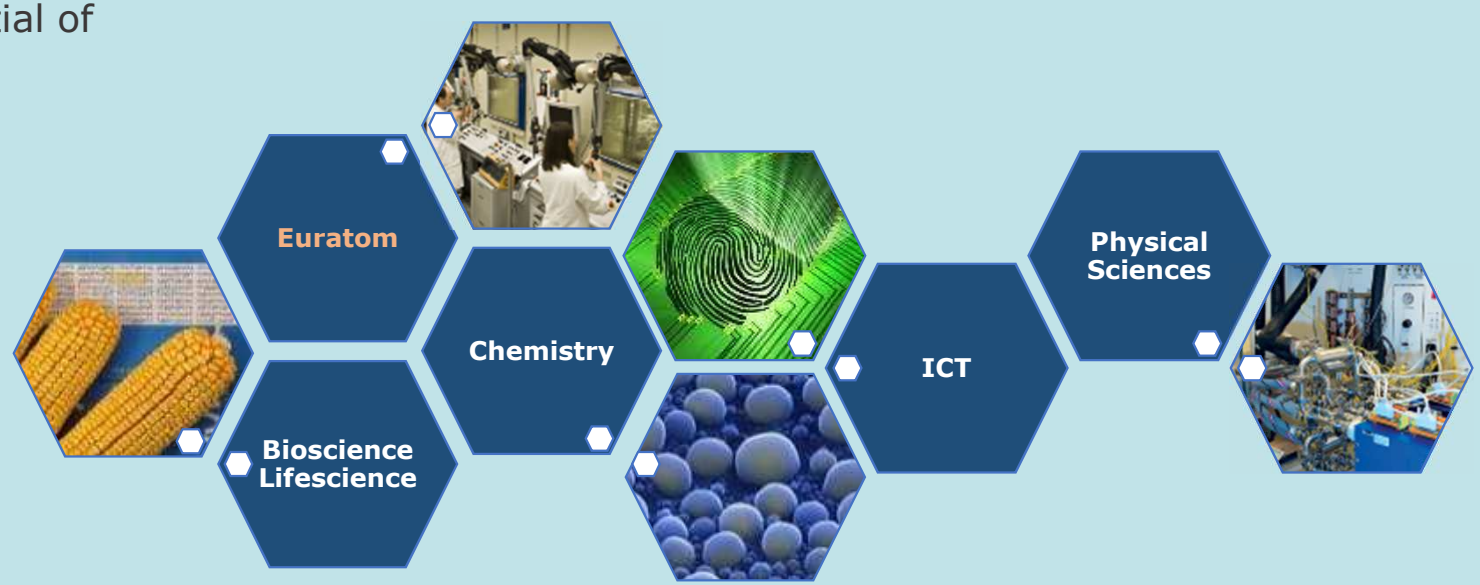
A.5 Deputy HoU, CDMA Brussels, 5 February 2019

European Commission

Landscape of JRC Research Infrastructures

JRC hosts **38 physical research infrastructures** with a potential of opening to external users

(out of a total of 58 facilities)



European Commission

Rationale

Opening up access to JRC Research Infrastructures is part of the **JRC Strategy 2030**

Benefits to users and the ERA

- **Fair** and **transparent** method for allocating access
- Make JRC RIs available to external users in view of the **limited resources** in Europe
- Provide **capacity building to Enlargement and Integration countries**
- Bridge the **gap between science and Industry**
- **Dissemination** of knowledge, education and training, foster collaboration in Europe

Benefits to the JRC

- Expand JRC **networking** capabilities
- Enter into **new key areas** of research
- Maintain JRC **scientific excellence**
- Raise the **value and visibility** of JRC RIs

European Commission

Framework for Access

Based on the **Charter of Access to RIs of DG RTD**

Principles and guidelines when defining Access policies for RIs

Access Modes

- **Relevance-driven**
  - Peer-review selection following a call for proposals: Scientific implementation, collaboration and access to new users, strategic relevance to the JRC, strategic importance for Europe
  - Mainly targeted to academia and research institutions, as well as to **SMEs**
  - Users charged the additional costs associated (18% overheads); nuclear RIs free of charge
  - Open dissemination after an 18 month embargo period
- **Market-driven**
  - Selection by the JRC
  - Mainly targeted to industry
  - Users charged the full costs
  - Data not disseminated via open schemes

Open to

✓ EU Member States

✓ Countries associated to Horizon 2020

European Commission

Research Infrastructure Access Agreement

Rights and obligations of JRC and the user(s) concerning:

- Health and safety
- Security rules
- Data protection
- Confidentiality
- Liability and financial aspects
- User access assessment

In-kind contributions:

- Human resources, i.e. for running all or parts of the experimental work or assisting the experimental campaign
- Provision of consumables and equipment

European Commission

Dedicated portal at JRC Science Hub

- **All supporting documents**: Framework and related annexes (template for proposals, agreement documents, IP rules, etc.)
- **Eligibility Criteria**
- **Call for proposals per Research Infrastructure**
  - ✓ Estimated total number of Access Units allocated to the call
  - ✓ Average number of Access Units per project
  - ✓ Estimated additional costs per Access Unit
  - ✓ Priority topics of the Research Infrastructure
- **Selected Projects**
- **User Access Report** / link to databases (after embargo period)

https://ec.europa.eu/jrc/en/research-facility/open-access

European Commission

Facilities opening up access

European Laboratory for Structural Assessment (ELSA) (Ispra, IT)

Reaction Wall

HopLab

Consumer Products Safety (Ispra, IT)

Nanobiotechnology Laboratory

Energy Storage Facilities (Petten, NL)

BESTEST – Battery Energy Storage Testing for Safe Electric Transport

FCTEST – Fuel Cells and Electrolyser Testing facilities

GASTEF – Gas Tank Testing Facility

European research infrastructure for nuclear reaction, radioactivity, radiation and technology studies in science and applications (EUFRAT) (Geel, BE)

GELINA – Neutron time-of-flight facility for high-resolution neutron measurements

HADES – Underground laboratory for ultra-low level gamma-ray spectrometry

MONNET – Tandem accelerator based fast neutron source

RADMET – **Radionuclide Metrology laboratories**

Actinide User Laboratory (ActUsLab) (Karlsruhe, DE)

PAMEC – Properties of Actinide Materials under Extreme Conditions

FMR – Fuels and Materials Research

European Commission

Calls for Access / Statistics

GELINA, Neutron time-of-flight facility for high-resolution neutron measurements Closed

JUL 27 2018 – OCT 15 2018

Geel, Belgium. GELINA is a 150 MeV electron accelerator serving as strong white neutron source for high resolution neutron time-of-flight measurements.

Details of the call #2018-1-RD-EUFRAT-GELINA

HADES, Underground laboratory for ultra-low level gamma-ray spectrometry Closed

JUL 27 2018 – OCT 15 2018

Geel, Belgium. JRC operates a laboratory for ultralow-level radioactivity measurements inside the 225 m deep underground laboratory HADES, which is located at the premises of the Belgian Nuclear Research Centre. In HADES, the muon flux (secondary cosmic rays) is a factor of 5000 lower compared to above ground and the flux of protons, neutrons and electrons is reduced to an insignificant level.

Details of the call #2018-1-RD-EUFRAT-HADES

MONNET, Tandem accelerator based fast neutron source Closed

JUL 27 2018 – OCT 15 2018

Geel, Belgium. MONNET is a high-intensity quasi mono-energetic fast neutron source, driven by a vertical 3.5 MV Tandem accelerator producing either continuous or pulsed beams of protons, deuterons or helium ions.

Details of the call #2018-1-RD-EUFRAT-MONNET

RADMET, Radionuclide Metrology laboratories Closed

JUL 27 2018 – OCT 15 2018

Geel, Belgium. The Radionuclide Metrology laboratories (RADMET) are equipped with a broad set of instruments used for nuclear decay measurements, determination of related nuclear data and radiological characterisation of samples and materials.

Details of the call #2018-1-RD-EUFRAT-RADMET

18 calls since June 2017

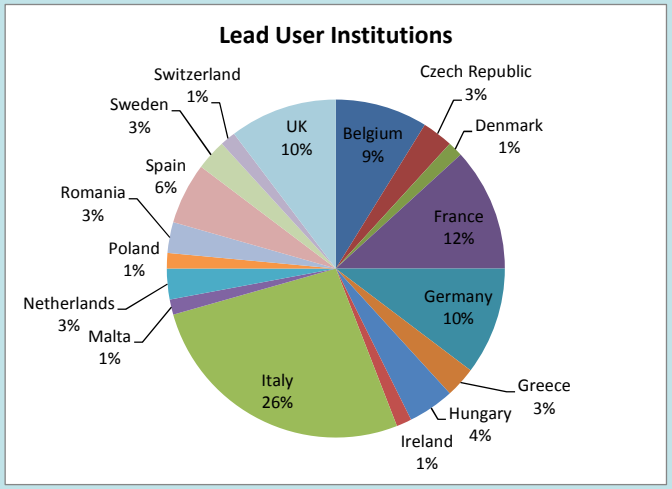
- ✓ **12** Research Infrastructures
- ✓ **69** Eligible proposals
- ✓ **58** Accepted proposals
- ✓ **24** Countries (3 from AC H2020)

User Selection Committees

- ✓ **6** USCs
- ✓ **26** Members Appointed
- ✓ **7** Meetings

Accepted proposals

- ✓ **87** User Institutions
- ✓ **199** Users
- ✓ **6** Completed Projects



Other countries as User Institutions

Bulgaria, Denmark, former Yugoslav Republic of Macedonia, Greece, Poland, Portugal, Romania, Slovenia, Spain, Ukraine, CERN

European Commission

Results

ELSA – HOPLAB

Ispra, Italy

Delft University of Technology

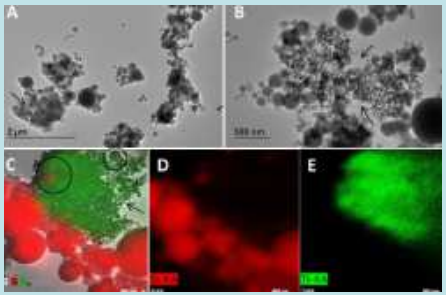
Dynamic Performance of Adobe masonry components

Nanobiotechnology Laboratory

Ispra, Italy

University of Brescia Italy

Characterisation of air particulate matter (PM) trapped by a new material coming from industrial waste



European Commission

Any questions?

You can find me fabio.taucer@ec.europa.eu
andreas.jenet@ec.europa.eu

https://ec.europa.eu/jrc/en/research-facility/open-access

European Commission