



# The European Commission's science and knowledge service

Joint Research Centre

## JRC NCP Annual Meeting Session 1

5 February 2019

## Scientific Development Unit



OPEN ACCESS  
*to JRC Research Infrastructures*

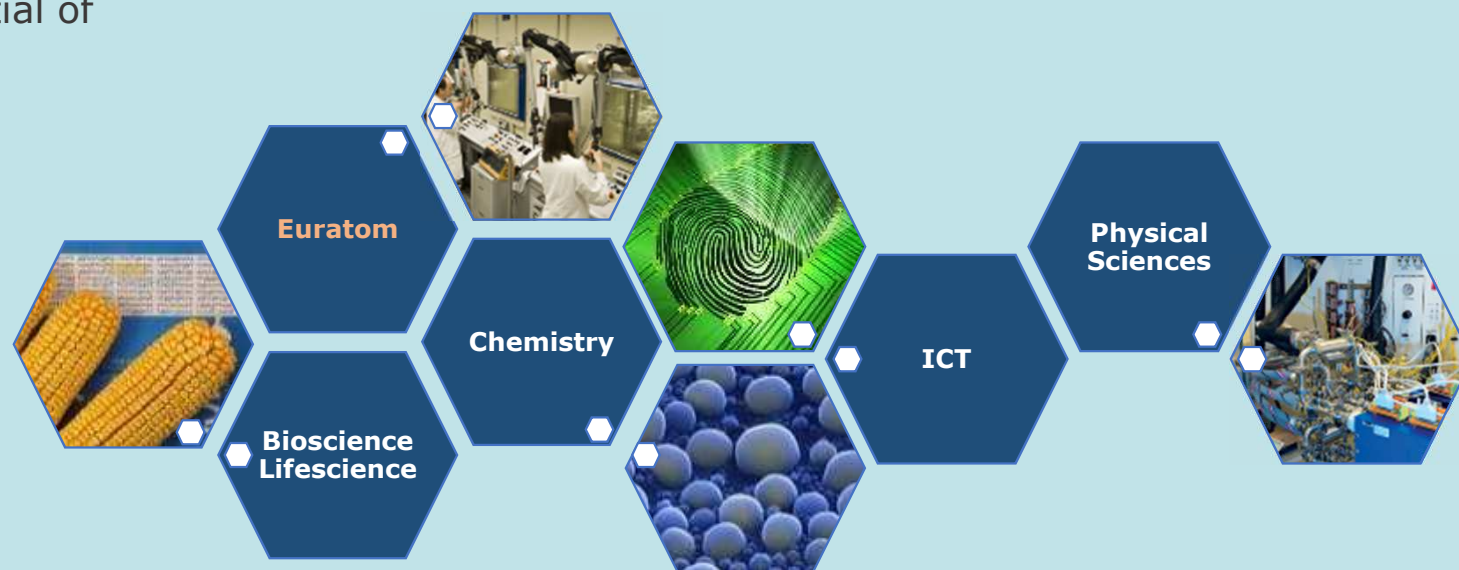
**Fabio Taucer**

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

# 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)



# 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

# 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



# 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





# 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  
(EUFROT) (Geel, BE)**

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

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

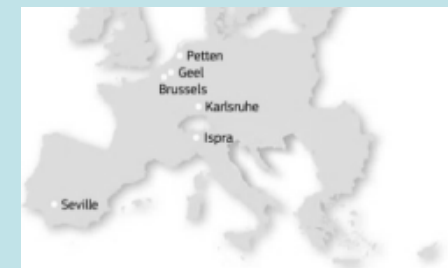
**MONNET – Tandem accelerator based  
fast neutron source**

**RADMET – Radionuclide Metrology  
laboratories**

**Actinide User Laboratory  
(ActUsLab) (Karlsruhe, DE)**

**PAMEC – Properties of Actinide  
Materials under Extreme Conditions**

**FMR – Fuels and Materials Research**





# Calls for Access / Statistics

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

**27** | **15**  
2018 | 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**

**27** | **15**  
2018 | 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**

**27** | **15**  
2018 | 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**

**27** | **15**  
2018 | 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)

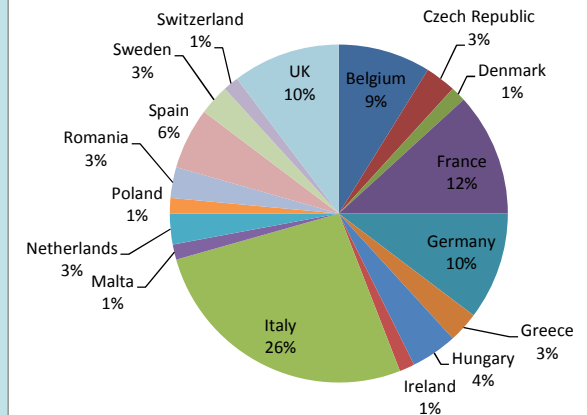
## User Selection Committees

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

## Accepted proposals

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

**Lead User Institutions**



## Other countries as User Institutions

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

# Results

## ELSA – HOPLAB

Ispra, Italy

Delft University of Technology

### Dynamic Performance of Adobe masonry components

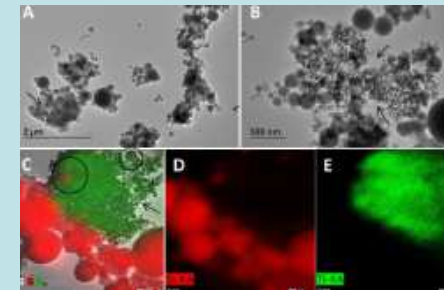


## Nanobiotechnology Laboratory

Ispra, Italy

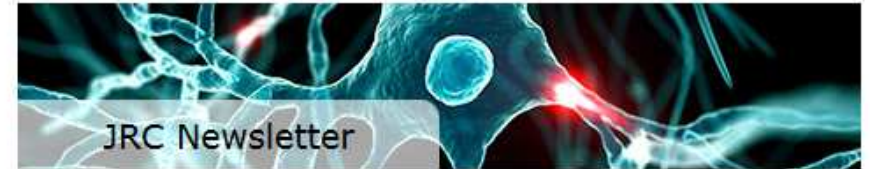
University of Brescia Italy

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



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## Any questions?

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