Open access to JRC Research Infrastructures

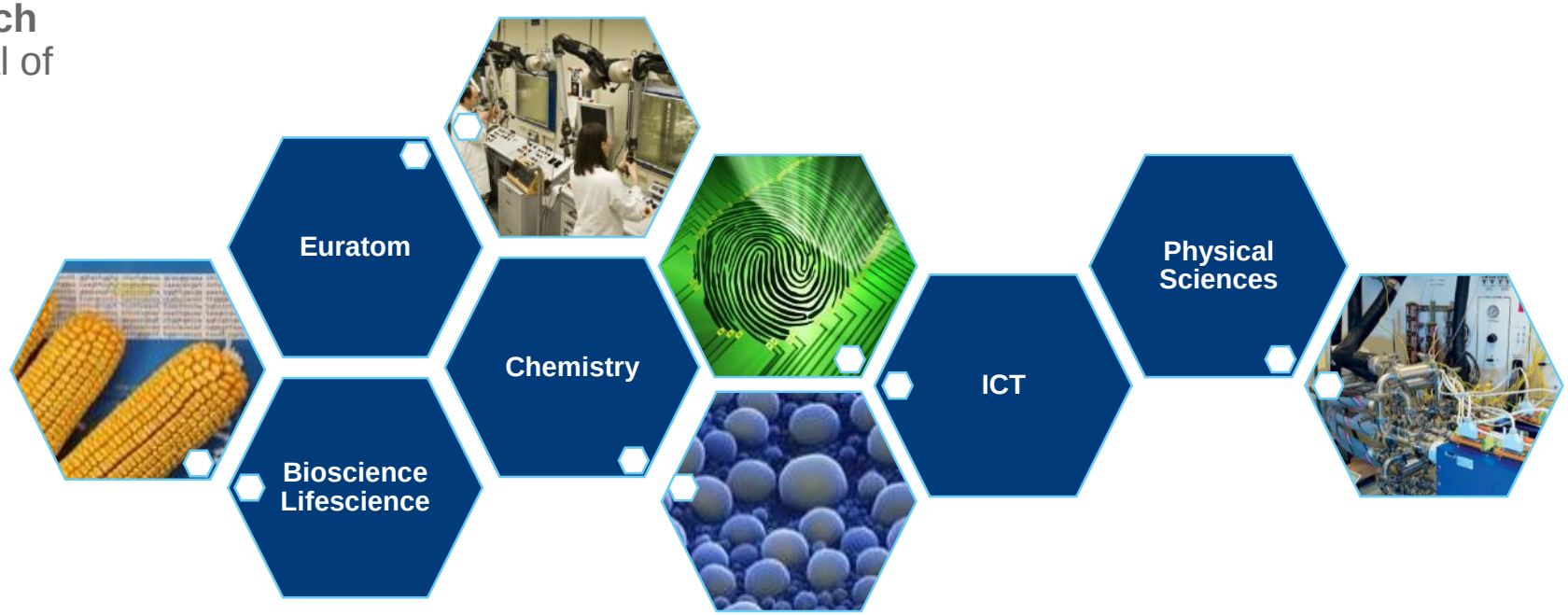
Fabio Taucer

Deputy HoU Scientific Development

Landscape of JRC Research Infrastructures

JRC hosts **39 physical research infrastructures** with a potential of opening to external users

(out of a total of **56 facilities**)



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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 **training and capacity building**
- Bridge the **gap between science and Industry**
- **Dissemination** of knowledge, 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**; nuclear RIs free of charge – Users pay for consumables
  - 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 Europe

Eligibility

Non-nuclear

- **Member States**
- **Associated countries**: Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Iceland, Israel, Kosovo, Moldova, Montenegro, Morocco, North Macedonia, Norway, Serbia, Tunisia, Turkey, Ukraine, United Kingdom*

Nuclear

- **Member States**
- **Associated countries**: Ukraine, United Kingdom*

Dedicated portal at EU 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)


Call for proposal: Hopkinson Bar facility, European Laboratory for Structural Assessment (ELSA)

Hopkinson Bar facility

Definition and conditions of access

Options for the allocation of intellectual property rights:

Eligibility criteria

How to apply

Selection criteria

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

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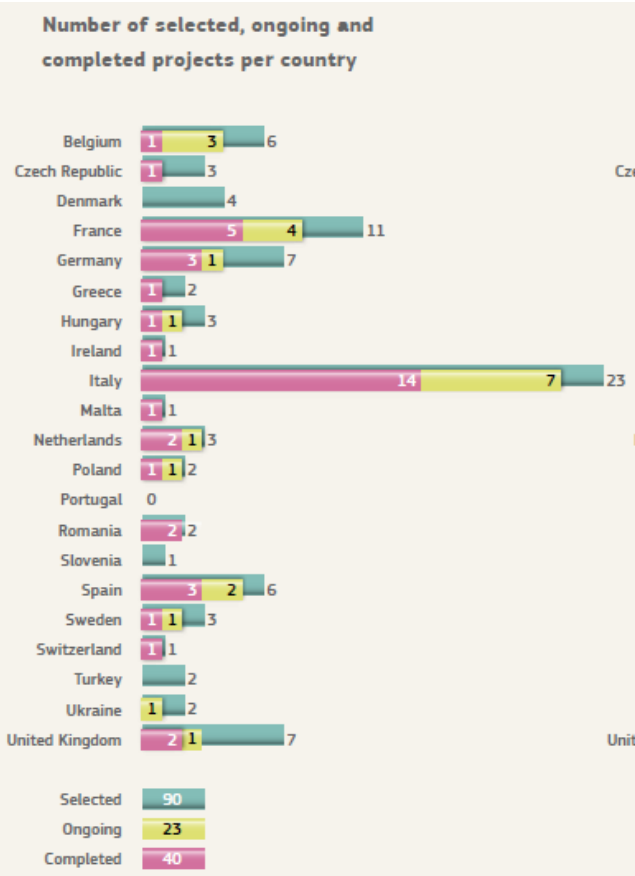
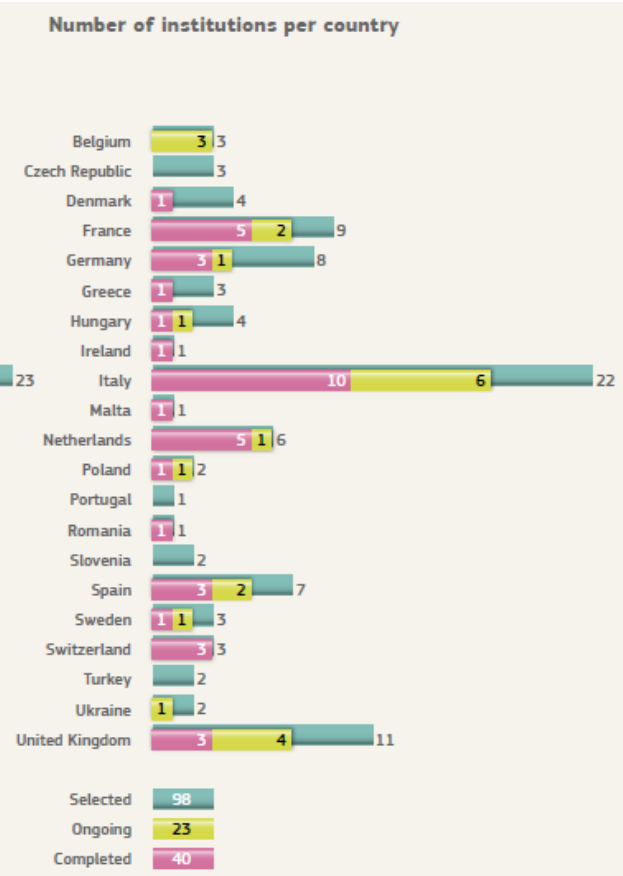
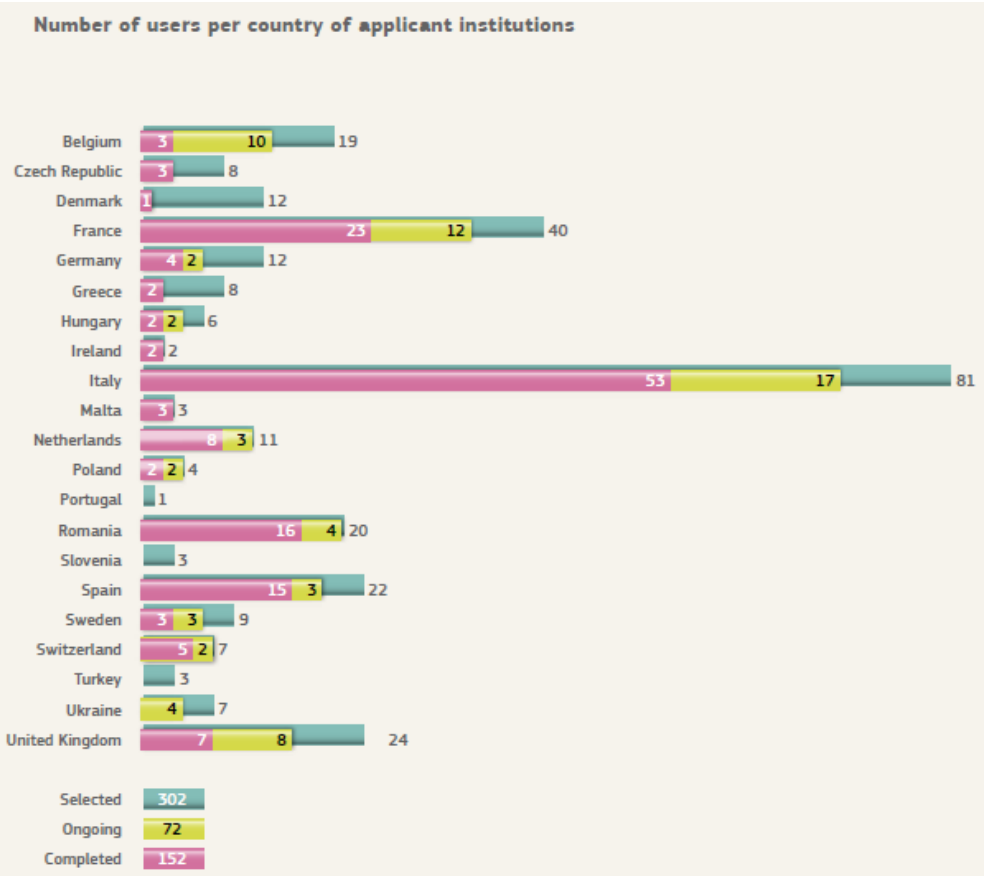
Statistics







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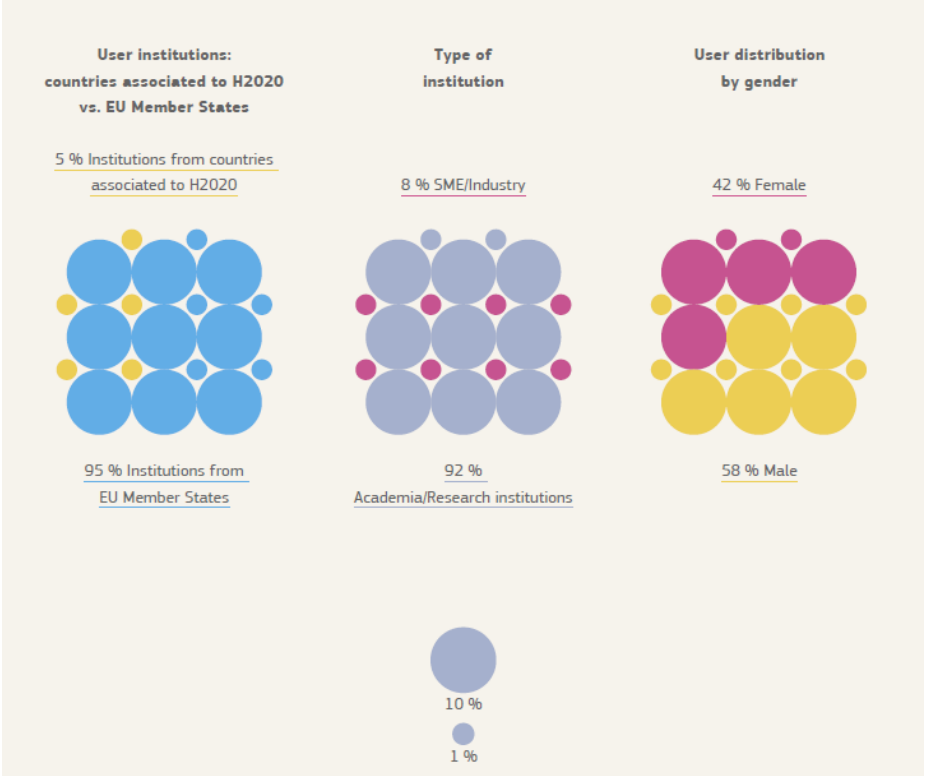
Statistics

49 calls since June 2017

- ✓ **17** Research Infrastructures
- ✓ **169** Eligible proposals
- ✓ **138** Selected proposals
- ✓ **78** Signed RIAAs
- ✓ **50** Completed Projects
- ✓ **27** Countries (6 / AC H2020)

Users (Signed RIAAs)

- ✓ **202** User Institutions (**8%** SMEs)
- ✓ **495** Users



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Research Infrastructures opening 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

HC-KA – Hot Cell Laboratory

Training and capacity building

- Addressed to groups of Users from **universities, research or public institutions, or from a Small-Medium-Enterprises (SME)**
- Preferably with **existing** or under **construction/upgrading** RIs **similar** or **complementary** to those of JRC
- Stays at the JRC will comprise a **full week**, with the participation of groups from several institutions and countries.

Facilitating Access - Conditions

Relevance-driven mode – Non-nuclear

Widening Participation and Spreading Excellence (WPSE) countries

- **Cover travel and subsistence** of Users from User Institutions located in the **WPSE** list of countries.
- **Waive the access costs** in the relevance-driven mode to proposals where the Lead User Institution, and at least 2/3 of the Users Institutions are from the **WPSE** list of countries.
- The calls are in competition with EU Member States

Relevance-driven mode – Nuclear

- **Cover travel and accommodation** of Users as part of the Pilot Action in the field of nuclear safety

Facilitating Access – list of countries

Relevance-driven mode – Non-nuclear / WPSE Countries

- **Member States:** Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia and Slovenia.
- **Associated countries:** eligible countries based on an indicator and published in the work programme.
- **Legal entities from outermost regions as defined in Article 349 TFUE**: Guadeloupe, French Guiana, Martinique, Réunion, Saint-Barthélemy, Saint-Martin, the Azores, Madeira and the Canary Islands.

Relevance-driven mode – Nuclear

- **Member States**
- **Associated countries**: Ukraine, United Kingdom*.

Widening Participation and Spreading Excellence (WPSE) countries

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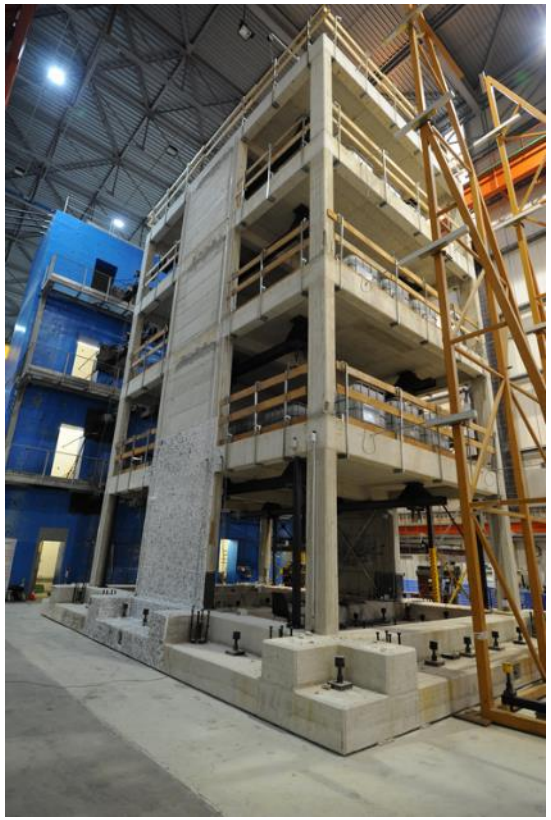
ELSA Reaction Wall + Nanobiotechnology



https://ec.europa.eu/jrc/en/research-facility/open-access/relevance-driven/2021-1-rd-elsa-reactionwall

22 September 2021 → **16 January 2022**

ELSA Reaction Wall + Nanobiotechnology

Priority topics of the Reaction Wall

- **Safe and green renovation of buildings for the New European Bauhaus**
- **Smart and sustainable materials** including nanomaterials in buildings and construction
- **Design and retrofit for resilience** (e.g., modular construction, damage-free structures, self-healing structures, influence of non-structural elements, cumulative damage, ageing construction, integration of structural stability, energy efficiency and new architectural/security demands)
- Safety of built infrastructure against **multiple hazards, including climate change**
- **New materials and technologies** (e.g., design for deconstruction, multifunctional building envelopes, structural glass, advanced manufacturing, 3D printing)
- **Sustainable materials for construction** (e.g., recycled concrete, biodegradable and sustainable materials, low-carbon steel and concrete)
- Application of **advanced testing methods** (e.g., hybrid testing)

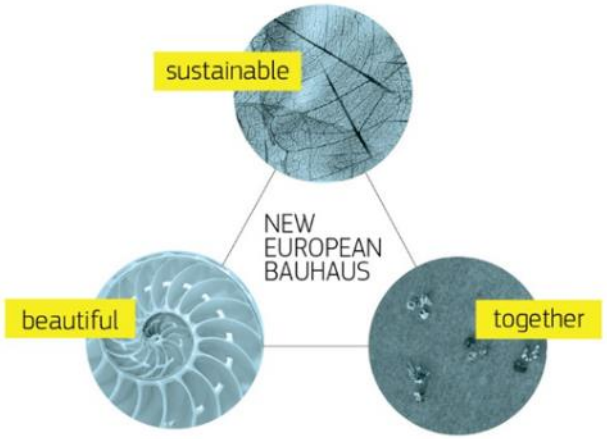
New European Bauhaus

Principles

- **Global/local, participatory and transdisciplinary approach**

Thematic axes of the transformation path

- **Reconnecting to nature**
- **Regaining a sense of belonging**
- **Prioritizing the places and people that need it the most**
- **The need for long term, life cycle thinking in the industrial ecosystem**



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Laboratory of Environmental & Mechanical Materials Assessment

- AMALIA: assessment of nuclear power plants core internals
- SMPA: Structural Materials Performance Assessment Laboratories
- LILLA: The Liquid Lead Laboratory
- MCL: Micro-Characterization Laboratory

October 2021

15 January 2022




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Thanks

Any questions?

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

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

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