



ISOLDE in Horizon Europe call for Research Infrastructures

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Research Infrastructures

Pre-call text 27/04/2021 (launch mid June – deadline mid September)

- **DESTINATION 3 – RESEARCH INFRASTRUCTURE SERVICES**
to **SUPPORT HEALTH RESEARCH,**
to **ACCELERATE THE GREEN AND DIGITAL TRANSFORMATION**
to **ADVANCE FRONTIER KNOWLEDGE**
- Many specific calls are open in this destination
 - One is relevant for us:
 - **Research Infrastructures Services advancing frontier knowledge:**
HORIZON-INFRA-2021-SERV-01-07

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Research Infrastructures services advancing frontier knowledge

- Scope: This topic aims at **providing trans-national access (on-site or remote) and/or virtual access to integrated and customised RI services**
 - **for curiosity-driven research in wide scientific domains,**
 - offered by a wide range of complementary and interdisciplinary top level research infrastructures.

Eligible costs:

- Unit costs for transnational and/or virtual access.
- Training for using the infrastructures.
- Activities to improve, customise and harmonise the services that infrastructures provide, so as to facilitate and integrate the access procedures
- Activities to further develop the remote or virtual provision of services may also be supported.

● In 2021, the **scientific domains** called under this topic are:

1. Geosphere, including geo-hazards and geo-resources;
2. Biosphere: terrestrial biodiversity and ecosystems, including Arctic and forest;
3. **Particle and nuclear physics.**

➔ **between EUR 10 and 14.50 million for each domain**

Call text

Specific conditions

Procedure

The procedure is described in General Annex F. The following exceptions apply:

To ensure a balanced portfolio covering different scientific domains, **grants will be awarded to applications not only in order of ranking but at least also to those projects that are the highest ranked within each scientific domain, provided that the applications attain all thresholds.**

Legal and financial set-up of the Grant Agreements

The rules are described in General Annex G. The following exceptions apply:

Eligible costs may take form of **unit costs for trans-national and virtual access to research infrastructures** as defined in the Decision authorising the use of unit costs for the actions involving trans-national and virtual access (see Annex 2 of the Horizon Europe Model Grant Agreement).

HORIZON-INFRA-2021-SERV-01-07

Research Infrastructures services advancing frontier knowledge

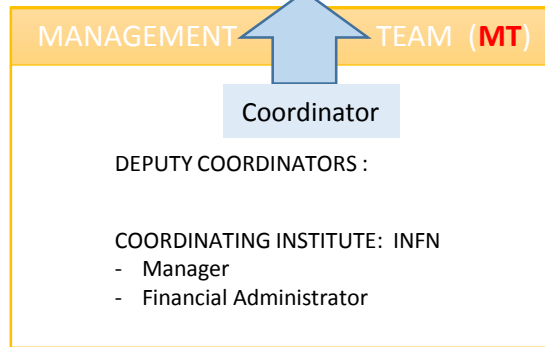
- Expected Outcome: Project results are expected to contribute to all the following expected outcomes:
 1. wider, simplified, and more efficient access to the **best research infrastructures available to researchers to conduct curiosity-driven research**, irrespective of location;
 2. **breakthrough and leading-edge research enabled by advanced research infrastructure services** made available to a wider user community;
 3. improved and harmonised RI services and broader use of RI resources across Europe deriving from the **exploitation of synergies and complementarities**;
 4. **a new generation of researchers trained** to optimally exploit all the essential tools for their research;
 5. **cross-disciplinary fertilisations and a wider sharing of information, knowledge and technologies across scientific fields fostered by closer interactions between researchers active in and around research infrastructures**;
 6. **better management, including implementing FAIR data principle**, of the continuous flow of data collected or produced by research infrastructures.

EURO-LABS

- Coordinators: Navin Alahari (GANIL, IN2P3)
Maria Colonna (Catania, INFN)
(Dec. 10: Elected by the current TNA ENSAR2 representatives)
Candidates were: JYFL (P. Greenlees and I. Moore),
KVI/GSI (N. Kalanthar / H. Albers)
GANIL/INFN (Navin / Maria)
- Actions to involve the nuclear physics community:
 - **23/12: mailing from Maria and Navin to representatives of facilities in Europe** (more than those in ENSAR2), questionnaire **call for input from facilities**, deadline Jan. 18
 - **22/01: Gerda sends answers from ISOLDE (consulted with several persons)** – see **attachment** to our meeting agenda on indico
 - 22/01: Navin and Maria send mailing to nuclear physics communities to call for abstracts - deadline Feb. 27 – extended March 5
 - 16/03: Book of abstracts made available
 - **26/04: Zoom meeting with the Facilities representatives** to discuss the proposed Town meeting agenda / proposal to remind participants about to goals of the call
 - **3-4/05: Town meeting** to present all abstracts (> 100) grouped by Navin and Maria

EURO-LABS

- 4/05: Mail from Navin to facilities representatives: ask **feedback from users representatives on the needs of the users** regarding how to improve the access and facilities
- **14/05: reply by Kieran sent (formulated by us)** – see **attach** to agenda
- **3/06: Meeting with facilities representatives** – nothing decided!
- 8/06: Mail to facility representatives (without decision which Facilities should be included for TNA) to ask for beam hours to be delivered, number of users for access, number of experiments to be supported – I request:
- 8/06: Navin and Maria send out mails to “possible partners for services” to come with a proposed activity, consortium, budget
 - ✓ I get informed via Karl, who is one of such persons
 - ✓ Also Sebastian gets a similar letter
- 14/06: still no further news



General Assembly (GA):
 Meeting of all beneficiaries

once a year

- Executive Committee (EC) : MT + WP Leaders
- Governing Board (GB) : EC + Facility Coordinators
- Oversight committee (OC):
 (check Deliverables + Milestones)



WORK PACKAGES described on page 2

WORK PACKAGES

WP1 : ACCESS [tasks (or sub-WPs) correspond to the groups of TNA facilities]

- (several) Physical access tasks → identify members from each TNA
- Virtual Access

DELIVERABLE: Access units

WP2 : IMPROVEMENT OF SERVICES FOR THE EXPERIMENTS (TRANSVERSE, across facilities)

- a) Streamlined beam granting and access procedures
- b) Remote access
- c) Ion Sources + High Intensity Target Ion Sources
- d) Machine Learning
- e) Target developments
- f) Improved access conditions for Interdisciplinary Research: Biophysics & Medical Applications, Material Science & Quantum Technology, Astro-particle

WP3 : OPEN SCIENCE

Open and improved access to data and knowledge, FAIR principles

DELIVERABLE:

WP4 : TRAINING

Support training activities across facilities

DELIVERABLE : Number of people participating in the activities (software/virtual access + hardware hands on)

WP5 : COMMUNITY IMPACT

Spreading of science, Impact to society, knowledge transfer, Innovation, Diversity

DELIVERABLE:

WP6 : MANAGEMENT

Description:

DELIVERABLE:

WP1 ACCESS

Stable beams	RIB	Neutrons beams	Laser Gamma beams	HEP	HEP
LNL-LNS	SPES	Neutrons_a		<u>CERN_{PS&SPS} – DESY_{DESY-II}</u>	HiRadMat CERN SPS° – UNILAC (GSI)
GANIL ALTO	SPIRAL1+LISE	NFS, LICORNE		<u>CERN_{IRRAD, GIF++} – JSI_{TRIGA} Reactor</u> – KIT _{KAZ} – <u>UCLouvain_{CRC}</u> – <u>UoB_{MC40} Cyclotron</u>	Gersemi/HNOSS - CNRS (Orsay Supratech) - CEA, DESY, ... -
GSI	FAIR			<u>RBI_{RBI-AF} – ITAINNOVA_{EMClab}</u>	KARA - VELA – Lydl - SparcLab/BTF - CLEAR
JYL	IGISOL				INCT Warsaw - IAP Dresden
Warsaw+Krakow		Neutrons_b			
CLEAR		Neutrons_c			
IFIN-HH		Neutrons_d	ELI-NP		
	ISOLDE	N-TOF			
ECT*					

e.g

Nuclear Physics Lab : Stable (€), RIB (€), neutron b.(€) + services improvements (€) + WP3(€) + WP4(€) + WP5(€)

High energy Facilities : Beam access (€) + services improvements (€) + WP3(€) + WP4(€) + WP5(€)

EURO-LABS

- Preparing a joined nuclear and particle physics proposal:
 - 10/02: I get a call to meet with Felix Sefkow (the AIDAInnova scientific coordinator) and Maurizio Vretenar (the ARIES/I.FAST scientific coordinator) and CERN EU Office representative Svet Stravrev
 - 12/02: I inform Navin and Maria
 - 16/02: E-mail contact established between Svet (CERN EU Office) and Navin/Maria
 - 12/03: E-mail from Navin to Maurizio and Felix to organize a meeting
 - 15/03: meeting (I cannot attend)
 - 23/03: Navin informs the representatives from facilities who replied to their call, about their discussion with particle physics and accelerator physics communities
 - 7/04: meeting of Navin-Maria-Detector and Accelerator groups of the PP community
 - 9/04: Navin informs representatives of facilities
 - 28/04: we are informed that the project will be prepared together with the detectors and accelerator communities of particle physics, and that there will be 3 deputy coordinators Maria (nuclear), Ilias Efthymiopoulos (Accelerators, CERN) and Marko Mikuz (Detectors, CERN)

Call for R&D projects

● “HORIZON-INFRA-2022-TECH-01-01:

“R&D for the next generation of scientific instrumentation, tools and methods”.

*Scope: The aim of this topic is to **deliver innovative scientific instrumentation**, tools and methods, which **advance the state-of-art of European RIs**, and show transformative potential in RIs operation. The related developments, which underpin the provision of improved and advanced services, should lead research infrastructures **to support new areas of research and/or a wider community of users**, including industrial users.*

*The following additional eligibility criteria apply for this call: consortia must include **at least 3 different research infrastructures**, each of them **being an ESFRI infrastructure**, and/or a European Research Infrastructures Consortium (ERIC) **or another research infrastructure of European interest** (i.e. a research infrastructure^[1] which is able to attract users from EU or associated countries other than the country where the infrastructure is located).*

The call will open 19 Jan 2022 with a dead-line 20 Apr 2022.

Open for discussion

Call text

Specific conditions

Expected EU contribution per project

The Commission estimates that an EU contribution of **between EUR 10.00 and 14.50 million** would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.

Indicative budget

The total indicative budget for the topic is **EUR 43.50 million**.

Type of Action

Research and Innovation Actions

Admissibility conditions

The conditions are described in General Annex A. The following exceptions apply:

Applicants are not required to submit a plan for the exploitation and dissemination of the results, as **the main objective of these actions is the service provision**.

As **proposals need to give information on the research infrastructures providing access, the page limit of the application is 100 pages**.

Call text

Specific conditions

Award criteria

The criteria are described in General Annex D. The following exceptions apply:

The following application of the general award criteria including any weighting and thresholds applies:

For the '**Excellence**' criterion, in addition to its standard sub-criteria, the following aspects will also be taken into account:

1. The extent to which the access activities (transnational and/or virtual access) will offer **access to the state-of-the-art infrastructures of European interest in the field, high quality services, and will enable users to conduct excellent research.**
2. The extent to which the **project will contribute to facilitating and integrating the access procedures, to improve the services the infrastructures provide and to further develop their on-line services.**

Call text

Specific conditions

Eligibility conditions

The conditions are described in General Annex B. The following exceptions apply:

The **Joint Research Centre (JRC)** may participate as **member of the consortium selected for funding**.

The following additional eligibility criteria apply: given the specific nature of this topic, **access provision activities must be included in the proposal**. Please read carefully the provisions under the section “Specific features for Research Infrastructures” at the end of this work programme part before preparing your application.

Considering the Union’s interest to make accessible to its researchers the most advanced research infrastructures, wherever they are in the world, **legal entities established in Australia, Brazil, Canada, China, India, Japan, Mexico, New Zealand, Republic of Korea, Russia, Singapore and USA, which provide, under the grant, access to their research infrastructures to researchers from Member States and Associated Countries, are exceptionally eligible for funding from the Union under this topic.**

ENSAR2 TNA representatives

TNAs

➤ GANIL-SPIRAL2 (France)	Marek Lewitowicz
➤ LNL-LNS (INFN, Italy)	Marco Cinausero, Romano
➤ ISOLDE (CERN, Switzerland)	GN
➤ JYFL (Finland)	Paul Greenlees
➤ ALTO (CNRS, France)	Fadi Ibrahim
➤ GSI (Germany)	Christoph Scheidenberger
➤ KVI-CART (The Netherlands)	Ad van den Berg
NEW ➤ NLC (HIL/IFJ PAN, Poland)	Adam Maj, xxx
NEW ➤ IFIN-HH/ELI-NP (Romania)	Dimiter Balabanski
NEW ➤ ECT* (Italy)	Jochen Wambach
(group of small facilities)	Sotirios Harisopulos

Added to current information list: Atomki (Dombardi), Joachim Gomez-Cammacho (S), Pietrella (TU-Darmstadt), Lucia Popescu (SCK CEN), Andreas Gorgen (Oslo), Pedro Vas (Lisbon, P)