

International
Muon Collider
Collaboration

***TIARA: considerations for application
for call***

Horizon-infra-2022-Dev-01-01 ?

C Rogers with thanks to Roberto!

3rd Community meeting of the International
Muon Collider Design Study - 6 Oct. 2021

Horizon Europe Framework programme

(Courtesy, R. Aleksan, 1st community meeting)

Horizon Europe (WP21-22 anticipated call)

WARNING: Situation in Brussels is changing dramatically with a large reorganization of the Research Division

At this time, there is a draft Work Programme in which Design Study is included :

It is called :

« **Destination 1:** Research infrastructure concept development »

Main information

Design Study call denomination :	HORIZON-INFRA-2022-DEV-01-01			
Total Budget	24 M€			
Max budget/project	3 M€			
Date Call opening	2021 Nov. 10			
Deadline Call	2022 March 24			
Expected funded projects	10			

HORIZON-INFRA-2022-DEV-01-01

Research infrastructure concept development

Research infrastructure concept development

TOPIC ID: HORIZON-INFRA-2022-DEV-01-01

Grant

General information

Topic description

Destination

Conditions and documents

Partner search

Submission service

Topic related FAQ

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General information

Programme

Horizon Europe Framework Programme (HORIZON)

Call

[Developing the European research infrastructures landscape, maintaining global leadership \(2022\) \(HORIZON-INFRA-2022-DEV-01\)](#)

See budget overview

Type of action

HORIZON-RIA HORIZON Research and Innovation Actions

Type of MGA

HORIZON Action Grant Budget-Based [HORIZON-AG]

Forthcoming

Deadline model

single-stage

Planned opening date

19 January 2022

Deadline date

20 April 2022 17:00:00 Brussels time

Budget Overview

Topic	Budget (EUR) - Year : 2022	Stages	Opening date	Deadline
HORIZON-INFRA-2022-DEV-01-01 - HORIZON-RIA HORIZON Research and Innovation Actions	21 800 000	single-stage	19 January 2022	20 April 2022

1 10

Expected Outcome

- Projects are expected to contribute to all the following expected outcomes:
 - sound science cases for new research infrastructures, including expected scientific breakthrough, gap analysis and **feasibility/design studies to support planning and decision making** at the national level (e.g. funding bodies, governments) **and at European level (e.g. ESFRI)**;
 - a better alignment of the development of the research infrastructure landscape with the advancement of excellent science and frontier research;
 - new services and access opportunities available to the research community, allowing to better tackle scientific and societal challenges.

Scope

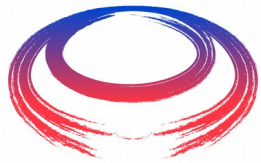
- This topic aims at supporting the **development of new concepts for the next generation of research infrastructures of European interest^[1]**, single/multi sited, distributed or virtual, that none or few countries might individually be able to afford. All fields of research can be considered.
- Major upgrades of existing infrastructures may also be considered if the end result is significantly transformative and equivalent to a new infrastructure concept.
- Proposals for RI concept development **will tackle all key questions concerning the technical and conceptual feasibility** of new or upgraded fully fledged user facilities.

- In this respect, proposals should address all following aspects:
 - demonstrate relevance in relation to ERA, including to the existing landscape, and the advancement with respect to the state-of-art of the new infrastructure;
 - highlight the research challenges the new research infrastructures will make possible to address, including at global level;
 - indicate the gaps in the research infrastructure landscape the new infrastructure will cover and the synergies with existing infrastructures at European and global level, including those co-financed from other EU instruments (e.g.: Cohesion policy);
 - Indicate, when relevant, the potential impact of the new research infrastructure at regional level.

- Proposals should also provide evidence that the project will effectively:
 - identify technologies and develop research infrastructure architecture (e.g. single site or distributed, ...);
 - identify scientific user communities (and their related needs) that will benefit from access to RI services, including scientific data and instrumentation, and develop the planning of research services to users;
 - **identify governance options and strategic approaches** for institutional/stakeholders' commitment and engagement;
 - **develop initial financial plans for the RI construction** (or major upgrades) **and operation** as well as **preliminary ideas for long-term sustainability**, including synergies with other funds and programmes (e.g.: ERDF);
 - develop plans for an efficient data curation and preservation and for the provision of access to data collected or produced by the future infrastructure, in line with the FAIR principles.

- Proposals considering just a new component of a research infrastructure are not in scope of this topic.

- Propose :
 - Seek to pick off important topics at < priority 2 >
 - Hoping priority 1 issues are already dealt with
 - Try to get a broad spread across the programme
 - Discuss with work package managers to identify details



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- LDG process is coming to an end
 - Developed a concept for a tentative baseline facility
 - Proton driver
 - Target
 - Cooling
 - Acceleration
 - Collider
 - Taking your inputs on board
 - Deliver work plan
 - Seen by CERN council in December

- Now the real work begins!

Nathaniel Craig

University of California, Santa Barbara

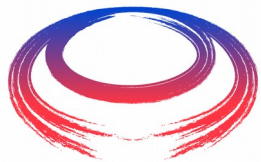
UCSB

- ✓ What is the origin of mass?
- ✓ What kind of unification may exist?
- ✓ What is the origin of flavor?
- ✓ Is there a deeper reason for gauge symmetry?
- ✓ What is the nature of dark matter?

“The only chance
in our lifetime”

A Higgs! Yet:

- ✓ Is it the SM Higgs?
- ✓ Is it the only one?
- ✓ Why is there EWSB?
- ✓ What sets the scale?



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The muons are calling
And we must go