



JRA-2 / JAM Meeting

September 30, 2015



Second Call

The **second Horizon 2020 Work Programme** invites the Advanced Communities to participate to a **call for Integrating Activities**

INFRAIA-01-2016/2017 - Integrating Activity for Advanced Communities

having in the domain "Physical Sciences" the targeted area:
"Research Infrastructure for hadron physics"

The call will be **published** on **October 15th, 2015** with dead line **March 30th, 2016**.

See <http://horizon.hadronphysics.eu/index.php>



Evaluation Summary Report

Evaluation Result

Total score: 12.50 (Threshold: 10.00)

Form information

SCORING

Scores must be in the range 0-5.

Interpretation of the score:

- 0– The **proposal fails to address the criterion** or cannot be assessed due to missing or incomplete information.*
- 1– **Poor.** The criterion is inadequately addressed, or there are serious inherent weaknesses.*
- 2– **Fair.** The proposal broadly addresses the criterion, but there are significant weaknesses.*
- 3– **Good.** The proposal addresses the criterion well, but a number of shortcomings are present.*
- 4– **Very good.** The proposal addresses the criterion very well, but a small number of shortcomings are present.*
- 5– **Excellent.** The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.*



Criterion 1 - Excellence

Score: **4.50** (Threshold: 3.00/5.00 , Weight: 100.00%)

Note: The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme: .

Clarity and pertinence of the objectives;

Credibility of the proposed approach;

Soundness of the concept, including trans-disciplinary considerations, where relevant;

Extent that proposed work is ambitious, has innovation potential, and is beyond the state of the art (e.g. ground-breaking objectives, novel concepts and approaches).

The extent to which the Networking Activities will foster a culture of co-operation between the participants and other relevant stakeholders.

The extent to which the Access Activities (Trans-national Access and/or Virtual Access activities) will offer access to state-of-the-art infrastructures, high quality services, and will enable users to conduct excellent research.

The extent to which the Joint Research Activities will contribute to quantitative and qualitative improvements of the services provided by the infrastructures.

The proposed work will profit from the successes of hadron physics projects in FP6 and FP7, and originates from the initiative of more than 2.500 European scientists working in hadron physics as well as other fields of science and technology. The approach of the proposed work and its objectives are credible. The key facilities are providing trans-national access to the high level infrastructures. The proposal will offer access to state-of-the-art infrastructures with high quality services and will enable users to conduct excellent research.

Building on the previous project the proposal falls short in its integrative efforts.

The number of JRAs, NAs and TAs is relatively unbalanced. NAs are presented in an untargeted way.

Networking Activities are used to organize the experimental and theoretical collaborative work on both ongoing activities at present Research Infrastructures, and planned experiments at future facilities.

The JRAs are intended to further develop the capabilities of the existing RIs by testing innovative instrumentation, data collection and software development.



Criterion 2 - Impact

Score: **4.00** (Threshold: 3.00/5.00 , Weight: 100.00%)

Note: The following aspects will be taken into account, to the extent to which the outputs of the project should contribute at the European and/or International level:

The expected impacts listed in the work programme under the relevant topic;

Enhancing innovation capacity and integration of new knowledge;

Strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets, and where relevant, by delivering such innovations to the markets *

Any other environmental and socially important impacts;

Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant.

The overall goal of the proposal is to maximize the output of excellent results from European infrastructures in the field of hadron physics, and to have the whole community participating in it.

The proposed measures to exploit and disseminate the project are very good. They are well organised and they guarantee the good effectiveness of the project.

The proposed work is ambitious and essential to keep European research at the forefront of the hadron physics.

The work with young scientists is well presented.

Medical applications derived from the proposed work have a high innovation potential.

Data management aspects are not covered in sufficient detail.

The impact of dissemination efforts is not measured (e.g. websites).



Criterion 3 - Quality and efficiency of the implementation

Score: **4.00** (Threshold: 3.00/5.00 , Weight: 100.00%)

Note: The following aspects will be taken into account:

Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;

Complementarity of the participants within the consortium (when relevant);

Appropriateness of the management structures and procedures, including risk and innovation management.

The procedure adopted to organize the work within each work package follows a well established bottom-up approach: each Networking or Joint Research Activity is led by a spokesperson, and each institution's activity is coordinated by an activity leader. The series of tasks and subtasks belonging to each work package are assigned to the collaboration members according to their specific expertise. Milestones and deliverables have been clearly formulated for each task and sub-task. Exchange of post-docs, regular meetings and periodical workshops will allow for the monitoring the progress of each activity.

Although there are few direct collaborations with companies, some of the proposed novel technologies will be interesting for commercial use. For example, new solid-state photo-detectors that are insensitive to magnetic fields and have extremely fast timing are a promising technology for medical applications like time-of-flight tomography combined with magnetic resonance tomography.

Good and complementary consortium consisting of partners with a very good track record and experience in the field.

Conflict resolution procedures are not well defined.

The allocation of resources and the trans-national access facilities are not motivated in sufficient detail.

Gender issues are not addressed in sufficient detail.

- As far as the **overall requested EC contribution**, the Work Programme 2016-2017 specifies:

"The Commission considers that proposals requesting a contribution from the EU of up to EUR 10 million would allow this topic to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts."

It is as well underlined:

"A significant share of this amount should be used to support access provision. The overall requested EU contribution should be in line with the size of the contribution towards access provision."

- As far as the **duration of the project**, it will be of **four years**.



Second Call

Ulrich Wiedner and **Carlo Guaraldo** will serve as **Steering Committee (SC)** to prepare a new **HadronPhysicsHorizon (HPH)** proposal (overall project title: "**A horizon for hadron physics: mastering challenge in a globalized world**"), Eugenio Nappi and Mauro Anselmino will advise the SC according to their expertise.

The HadronPhysicsHorizon Steering Committee is hereby launching an internal call for work packages to be included in the proposal.



As far as the **Networking Activities** are concerned, the Work Programme writes:

"The strongest impact for advanced communities is expected typically to arise from focusing on innovation aspects and widening trans-national and virtual access provision."

The Steering Committee intends to build the new HPH proposal along the lines indicated by the Commission and taking all the previous HPH work packages as excellent existing basis.

Consequently, according to the above statement of the Work Programme, we have to substantially reduce the number of Networks.

Moreover, the SC, following the balance between the three blocs of activities indicated by the Commission, will significantly reduce the budget assignments to the Networks.

As far as the **Joint Research Activities** are concerned, some of the Networks of the previous HPH proposal can be considered as innovation of a proper common goal.

E.g., the Networks which deal with:

- *"Description of nature by computer simulations tested by existing and future experiments",*
- *"Description of quark-gluon behavior in the early Universe through heavy ion collisions",*
- *"Reliable description of strong coupling effects in physics tested by non-perturbative QCD",*
- *"Description of the three-dimensional structure of the nucleon"*

do certainly contain "innovation aspects".

The HadronPhysicsHorizon Steering Committee will assess the proposed work packages on the basis of a set of evaluation criteria in order to define the final Proposal.



Responsibilities



Task / subtask	Aveiro	I-BA	UBo	Wigner	UFra	GSI	I-LNF	ALU-FR	UGIa	CEA	TUM	I-TO	I-TS	NCBJ	SMI		CERN	ELVIA	ELTOS	TECHTRA	UAN	
Advanced MPGD						Voss																
Industrial production and QA protocols	x		x	x		x				x	x	x	x				x	x	x	x	x	x
Large area structures			x		x	x			x	x	x			x			x	x	x	x	x	
High-gain MPGDs													Tessarotto									
Limits of standard high gain MPGDs	x	x		x				x				x	x									
Novel high gain MPGDs	x	x		x				x				x	x									
New technologies										Fabbietti												
Hybrid detectors	x		x	x		x	x			x	x		x		x		x					
Multilayer, resistive PCB	x			x	x	x		x		x			x		x		x	x	x	x	x	x
Advanced GEM structures			x								x				x		x				x	
Novel applications															Zmeskal							
MPGD-TPCs at extreme conditions						x	x		x						x							
New photocathodes		x	x										x									
Applications outside physics					x	x				x					x						x	
Outreach			Ketzer												Zmeskal							
Media	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x							
Schools	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x							



Budget

JRA: JAM						
REQUESTED EC CONTRIBUTION PER BUDGETARY ITEM AND PER BENEFICIARY						
Contr. No	Contractor Acronym	Personnel (EUR)	Other costs (durables, consumables, travel, workshops) (EUR)	Total direct costs (EUR)	Indirect costs (EUR)	Requested EC contribution (EUR)
1	UAVR	20800 (5)	3200	24000	6000	30000
2	UBO	50000 (12)	10000	60000	15000	75000
3	WignerRCP	20800 (5)	3200	24000	6000	30000
4	GSI	50000 (12)	10000	60000	15000	75000
5	INFN	99900 (24)	19100	119000	29750	148750
	<i>I-BA</i>	<i>20800 (5)</i>	<i>3200</i>	<i>24000</i>	<i>6000</i>	<i>30000</i>
	<i>I-LNF</i>	<i>20800 (5)</i>	<i>6200</i>	<i>27000</i>	<i>6750</i>	<i>33750</i>
	<i>I-TO</i>	<i>20800 (5)</i>	<i>3200</i>	<i>24000</i>	<i>6000</i>	<i>30000</i>
	<i>I-TS</i>	<i>37500 (9)</i>	<i>6500</i>	<i>44000</i>	<i>11000</i>	<i>55000</i>
6	GUF	0	24000	24000	6000	30000
7	ALU-FR	20800 (5)	3200	24000	6000	30000
8	UGlasgow	15000 (3.6)	9000	24000	6000	30000
9	CEA	15000 (3.6)	19000	34000	8500	42500
10	TUM	50000 (12)	6500	56500	14125	70625
11	NCBJ	0	14000	14000	3500	17500
12	OeAW	50000 (12)	6500	56500	14125	70625
	TOTAL	392300 (94.2)	127700	520000	130000	650000



Items to be addressed:

- Do we keep the present scope, or should we reduce the number of WP?
- Do all groups confirm their responsibilities?
- Do we stick to the overall budget?
- Other improvements?