Preparation of INFRA-DEV Horizon Proposal for ET

M. Martínez
Participants Meeting

15th November 2021

News and random notes

- **Two important sessions this week**
  - Nov 15th   morning meeting with ESFRI officials on INFRA-DEV preparation [whole morning today]
  - →Lots of information to be digested for the preparation
  - Nov 19th Meeting with ESFRI officials on ET ESFRI proposals and recommendations

- **Initiating the discussion on budget allocation**
  - **Will work at the moment in an scenario with 3M€ + 20%**
  - Needs input from agencies on in-kind contributions
  - Needs input from WPs on needs (but...)
- I anticipate the INFRA-DEV funding will be focused on those subjects more relevant for the call
  (no homogenous at all across WP)

List of Participants (completed!)

COUNTRY	INSTITUTION	MAIN CONTACT	CONTACT	Part A Information
AUSTRIA	U. LEOBEN	GALLER	REHATSCHEK	
BELGIUM	U. ANTWERPEN	VAN REMORTEL		
BELGIUM	U. LOUVAIN	BRUNO		
EGO	EGO	KATSANEVAS	SPAGNUOLO	
FRANCE	CNRS	VERDIER	MOSSARD	
GERMANY	DESY	STEGMANN	BERGHOEFER	
HUNGARY	WIGNER RCP	MATYAS	SZENDRAK	
ITALY	INFN	FERRONI	D'ORAZIO	
NETHERLANDS	NIKHEF	A. FREISE	VAN RIJN	
POLAND	U. WARSAW	ROSINSKA	BULIK	
SPAIN	IFAE	MARTINEZ	BALZA	
SWITZERLAND (associated partner)	U. GENEVA	MAGGIORE	FRAGKOS	
UK	UKRI	GEDDES	ROWAN	

Please fill the participant information in the proposal....

Reports from WPs

- **WP1 Coordination and Management**
- **WP2 Organization, Governance and Legal Aspects**
- **WP3 Financial Architecture**
- **WP4 Site Selection**
- **WP5 Project Office**
- **WP6 Technical Design**
- **WP7 Transfer of Technology**
- **WP8 Computing and Data Access**
- **WP9 Sustainable Development Strategy**
- **WP10 Education, Outreach and Citizen Engagement**

Round table across WPs last Friday
They are all proceeding as expected

→ Asked to deliver inputs by today
to start preparing part B of the proposal

News on Coordinators

Work Package	Coordinators	Institutions/ Countries
WP7 Transfer of Technology	M. Morandin R. van der Meer	Italy Netherlands
WP8 Computing and Data Access	S. Girona A. Stahl	Spain Germany
WP9 Sustainable Development Strategy	**N. Arnaud S. Katsanevas** **[M. Marsella]**	France EGO
WP10 Education, Outreach and Citizen Engagement	D. Rosinska M. Hendry	Poland UK

WPs

- **WP1 Coordination and Management**
  1. Management
  2. Coordination
- **WP2 Organization, Governance and Legal Aspects**
  1. ET Internal Organization
  2. Legal Framework
  3. Enlargement of the ET Consortium
  4. Political convergence
  5. Connection to other observatories and communities
- **WP3 Financial Architecture**
  1. Cost evaluation
  2. Cost Sharing
  3. In-kind Contributions
  4. Industrial returns
  5. RI layout, Strategic issues and international networking

WPs

- **WP4 Site Selection**
  1. **Site scientific evaluation**
  2. **Socio-economic impact**
  3. **Legal/Financial aspects of the RI implementation**
  4. **Mediation planning**
- **WP5 Project Office**
  1. **Technical Coordination of the Project**
  2. **Human resources qualification**
  3. **Strategic decisions making process**
  4. **Planning**
  5. **Preparation for Production**
  6. **Industrial Partnerships**
  7. **Risk Management**
- **WP6 Technical Design**
  1. **Infrastructure Technical Design** → WP coordinators will explore the best way to single out the importance of the Engineering aspects of the RI
  2. **Experiment Technical Design**
  3. **Scientific impact**
  4. **Open Data Access and Services**

WP Items for this week

- Provide inputs to part B
- Provide list of observables and deliverables
- Determine participants on each WP
  (do you need to run kick-off meetings?)

- *Defend the needs for INFRA-DEV funding*

→ Longer meeting next week on Friday 19th

On budget

- Message today is clear: it is not written you cannot go beyond 3M€ but needs to be extremely justified and budget is tight for all the RI on the call

- I will work with a 3M€ + overhead (25%)

- **I need to get an idea of in-kind contributions from different countries in different WPs.**

- **I need to collect information on synergies with other funding sources from EU**

➔ **I aim to have a first (preliminary) allocation of budget by this Friday**

On budget

WP	Lead participant	Existing person months	Required person months	Duration 36 months	In-kind (k€)	total cost (k€)	Required (k€)
WP1							
WP2							
WP3							
WP4							
WP5							
WP6							
WP7							
WP8							
WP9							
WP10							

What is the in-kind contribution expected by each participant in each WP ?
→ > 50% of the money could easily go to core mission (WP5/WP6) …

Very Preliminary Budget allocation

WP	position	duration
WP1	Project Management Administration/Secretariat Communication	36
WP2	Legal consulter	36 (1/3 FTE)
WP3	Financial Manager	36
WP4		
WP5	Technical Coordinator Risk Manager Industrial Liaison	36
WP6	Integration Manager Civil Engineering Vacuum/Cryo Engineering	36
WP7		
WP8	IT coordinator	36
WP9	Consulter on Sustainability	36 (1/3 FTE)
WP10		
Not committed yet		10%

Round table (for in-kind)

COUNTRY	INSTITUTION	Comment on in-kind funding
AUSTRIA	U. LEOBEN	
BELGIUM	U. ANTWERPEN	
BELGIUM	U. LOUVAIN	
EGO	EGO	
FRANCE	CNRS	
GERMANY	DESY	
HUNGARY	WIGNER RCP	
ITALY	INFN	
NETHERLANDS	NIKHEF	
POLAND	U. WARSAW	
SPAIN	IFAE	
SWITZERLAND (associated partner)	U. GENEVA	
UK	UKRI	

Let's discuss

Your input needed

Input Text for INFRA-DEV application for ET

[YOUR WP NUMBER HERE]
Please copy this template and work on it offline

PART B

In order to prepare part B we need to collect input from each of the WPs.
There is a fundamental limitation of 30 pages for the whole part B document including tables.

For what concern tables, we need to make sure that first we have sensible objectives and deliverables for each WP and we need to contain the # of deliverables

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Consider font arial 11pt and the number of characters below includes spaces.
Every work package should provide the following texts.
Please refer to the example to learn about the content of each part.

1. **Excellence**
   1.1 Objectives (600 c, 12 lines)
   1.2 Coordination and/or support measures and methodology (2000 c, 30 lines)

2. **Impact**
   2.1 Project's pathways towards impact (1300 c, 20 lines)
   2.2 Measures to maximise impact - Dissemination, exploitation and communication (1300 c, 20 lines)

   2.3 Summary [½ page taken care directly by WP1]

ANSWERS TO ESFRI RECOMMENDATIONS

Please edit this file in parallel

R1. It is recommended to assess the expected physics performance of the ET for different failure scenarios where the detector could not achieve designed performances and to develop mitigation plans. In the event that the funding does not proceed as planned or the cost of the detector increases, it might become necessary to set a priority in the physics programme and to descope the detector. The collaboration should be prepared for such processes. **(WP6)**

Yours answer here

R2. It is recommended to make sure that contributions by the industries are directly and visibly acknowledged, providing ET industry awards for example. It will be also useful to keep record of the impact made by the ET project in boosting the economy and improving society locally, in Europe and globally. **(WP 5, 8)**

Yours answer here

R3. No detail is given about the difference between the released data and sub-threshold data, and about how this specific access to data will be organised and granted. This should be better elaborated to ensure a fair process, and if for instance some tools or data are kept inside the collaboration this should be explained. **(WP 6, 9)**

For WP coordinators, kind reminder you need to deliver some input for part B
→ Tentative deadline Monday 15th [today]

Goals of the INFRA-DEV Initiative

In this respect, proposals should address all following aspects:

- the development of legal and financial frameworks/plans relating to the setting-up, construction and/or integration of national resources, operation and decommissioning of the research infrastructure as well as its Governance structure; the complementarities between national and EU instruments (such as the European Structural and Investment Funds or the European Investment Bank) and/or innovative financing solutions (e.g.: pre-commercial procurement; public-private partnerships);

- the preparation of legal and financial agreements, including site, governance, internal rules, financing of the new research infrastructures. These are deliverables that should be finalised before the end of the project (e.g.: through a Memorandum of Understanding; a 'signature-ready' document for the setting-up and the actual implementation of the research infrastructure);

- the establishment of plans for logistics and human resources management, in relation to the construction/integration and future operation, including RI service provision as well as 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;

- the technical challenges concerning the joint development, transfer of knowledge and implementation of key RI technologies and the completion of the final technical design of the infrastructure;

- the development of plans for the provision of RI services to identified scientific user communities;

- the relevance of the RI for science and society, including its socio-economic impacts at local/regional level and links with the smart specialisation strategies at regional level.

- Environmental (including climate-related) impacts as well as the optimisation of resource and energy use should be integrated in the Preparatory phase of new research infrastructures.

- Proposals should explain any synergies and complementarities with previous or current EU grants.

WPs

- **WP7 Transfer of Technology**
  1. **Promotion of Innovative technologies**
  2. **Liaison with industries**
  3. **Intellectual Property**
- **WP8 Computing and Data Access**
  1. **Computing model**
  2. **Computing Resources**
  3. **T0 Data Center**
  4. **Data Preservation**
- **WP9 Sustainable Development Strategy**
  1. **Low Carbon footprint**
  2. **Liaison with Climate Change and Geoscience**
  3. **Landscape and Environmental impact**
  4. **Transportation**
- **WP10 Education, Outreach and Citizen Engagement**
  1. **School Education Program**
  2. **Dissemination and communication**
  3. **Mentoring and Training**
  4. **Diversity and Inclusion**
  5. **Early Career Scientists**