

ET

EINSTEIN  
TELESCOPE



# Preparation of INFRA-DEV Horizon Proposal for ET

M. Martínez

ET INFRA-DEV Meeting, 18<sup>th</sup> October 2022

# Goals of this (1h) meeting

- Provide some details of the INFRA-DEV Call.
- Present the WP proposal & Discuss it.
- Start collecting EoI for the different WPs.
- Make a plan for the rest of the week.
- Make a master plan for the rest of the time.

# Goals of the INFRA-DEV Initiative

[LINK](#)

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.

# ESFRI recommendations

- See document attached to the INDICO agenda on ESFRI recommendations.
- I encourage everyone to read it before we go into deep discussions on how to present the different WPs objectives, deliverables.. etc
- [This link](#)

# Notes on INFRA-DEV Call

- **Deadline 20-01-2022 (94 days from deadline)**
- **Part A (web online)**
  - Requires some information from participants
  - Will try to conclude in 2 weeks time
- **Part B (template in the INDICO) Technical Description**
  - Limits of 30 pages in total
  - WPs Objectives, Deliverables, Milestones, FTEs
  - Costs, Subcontractors, in-kind contributions
  - Risk of the WP

# Some notes on Part A

**Proposal number: SEP-210796662**

**Proposal acronym: ET-PREPARATORY-PHASE**

**Type of Model Grant Agreement: HORIZON Action Grant Budget-Based**

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# Participants information

## Application forms

Proposal ID **SEP-210796662**

Acronym **ET-PREPARATORY-PHA**

Short name **IFAE**

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## Organisation data

**PIC** **Legal name**  
999613907 *INSTITUTO DE FISICA DE ALTAS ENERGIAS*

Short name: IFAE

Address

Street **CAMPUS DE BELLATERRA - UNIVERSIDAD**

Town **CERDANYOLA DEL VALLES**

Postcode **08193**

Country **Spain**

Webpage **http://www.ifae.es**

## Specific Legal Statuses

Legal person ..... yes

Public body ..... yes

## Application forms

Proposal ID **SEP-210796662**

Acronym **ET-PREPARATORY-PHA**

Short name **IFAE**

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List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)	Add

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)	Add

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)	Add

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## Application forms

Proposal ID **SEP-210796662**

Acronym **ET-PREPARATORY-PHA**

Short name **IFAE**

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## Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier	Add
										Remove

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# Some notes on Part A (cont.)

Proposal ID SEP-210796662

Acronym ET-PREPARATORY-PHA

## 3 - Budget

?

No.	Name of beneficiary	Country	Role	Personnel costs/€	Subcontracting costs/€	Purchase costs - Travel and subsistence/€	Purchase costs - Equipment/€	Purchase costs - Other goods, works and services/€	Internally invoiced goods and services/€ (Unit costs-usual accounting practices)	Indirect costs/€	Total eligible costs	Funding rate	Maximum EU contribution to eligible costs	Requested EU contribution to eligible costs/€	Max grant amount	Income generated by the action	Financial contributions	Own resources	Total estimated income
1	Ifae	ES	Coordinator							0.00	0.00	100	0.00	0	0.00				0.00
2	Infn	IT	Partner							0.00	0.00	100	0.00	0	0.00				0.00
3	Uniwersaw	PL	Partner							0.00	0.00	100	0.00	0	0.00				0.00
4	Cnrs	FR	Partner							0.00	0.00	100	0.00	0	0.00				0.00
5	Nwo-i	NL	Partner							0.00	0.00	100	0.00	0	0.00				0.00
6	Ucl	BE	Partner							0.00	0.00	100	0.00	0	0.00				0.00
7	Uantwerpen	BE	Partner							0.00	0.00	100	0.00	0	0.00				0.00
8	European Gravitational Observatory(ego) (Osservatorio Gravitazio Naleuropeo)	IT	Partner							0.00	0.00	100	0.00	0	0.00				0.00
	TOTAL			0	0	0	0	0	0	0.00	0.00		0.00	0	0.00	0	0	0	0.00

We are still in the process of adding partners

→ Will rely on the information from Part B on financial details



# Notes on Part B

- Most urgent item is to converge on the WPs
- During the last week in coordination with PD (Jo, Nando) we have converged into a refined proposal (see excel in the INDICO)
- It includes 12 WPs taking into account the original proposal presented to the ET-SC in July and resonating on the ESFRI recommendations and the main missions of the INFRA-DEV call
- Lets dedicate 20 minutes today to revisit them and collect comments.

# WPs headers

- **WP1 Coordination and Management**
- **WP2 Governance and Legal Aspects**
- **WP3 Financial Architecture**
- **WP4 Site Selection**
- **WP5 Project Office**
- **WP6 Technical Design**
- **WP7 Risk Management**
- **WP8 Transfer of Technology**
- **WP9 Computing and Data Access**
- **WP10 Climate and Environmental aspects**
- **WP11 Outreach and Relation with Society**
- **WP12 Ethics**

# WP details

<b>WP1</b>	<b>Coordination and Management</b>							
	<b>1.1</b>	<b>Management</b>						
		1.1.1	<i>Administrative activities</i>					
		1.1.2	<i>Financial &amp; Audit</i>					
		1.1.3	<i>Reporting</i>					
		1.1.4	<i>Social awareness</i>					
	<b>1.2</b>	<b>Coordination</b>						
		1.2.1	<i>Work packages</i>					
		1.2.2	<i>Technical activities</i>					
		1.2.3	<i>Knowledge and information management</i>					
<b>WP2</b>	<b>Governance and Legal Aspects</b>							
	<b>2.1</b>	<b>ET Governance</b>						
	<b>2.2</b>	<b>Legal Framework</b>						
	<b>2.3</b>	<b>Enlargement of the ET Consortium</b>						
	<b>2.4</b>	<b>Political convergence</b>						
	<b>2.5</b>	<b>Connection to other observatories and communities</b>						
<b>WP3</b>	<b>Financial Architecture</b>							
	<b>3.1</b>	<b>Cost evaluation</b>						
	<b>3.2</b>	<b>Cost Sharing</b>						
	<b>3.3</b>	<b>In-kind Contributions</b>						
	<b>3.4</b>	<b>Industrial returns</b>						
	<b>3.5</b>	<b>RI layout, Strategic issues and international networking</b>						
<b>WP4</b>	<b>Site Selection</b>							
	<b>4.1</b>	<b>Site scientific evaluation</b>						
	<b>4.2</b>	<b>Socio-economic impact</b>						
	<b>4.3</b>	<b>Legal/Financial aspects of the RI implementation</b>						
	<b>4.4</b>	<b>Mediation planning</b>						

*Deliverables*

*Deliverables*

# WP details

<b>WP5</b>	<b>Project Office</b>								
	<b>5.1</b>	<b>Technical Coordination of the Project</b>							
	<b>5.2</b>	<b>Human resources qualification</b>							
	<b>5.3</b>	<b>Strategic decisions making process</b>							
	<b>5.4</b>	<b>Planning</b>							
	<b>5.5</b>	<b>Preparation for Production</b>							
	<i>5.5.1</i>	<i>Pre-production models of major components</i>							
	<i>5.5.2</i>	<i>Description of the production model and the assembly lines for mass production</i>							
	<i>5.5.3</i>	<i>QA/QC procedures</i>							
	<i>5.5.4</i>	<i>Identification of locations for mass production</i>							
	<i>5.5.5</i>	<i>Assessment and preparation of required infrastructure</i>							
	<i>5.5.6</i>	<i>Human resource plans for mass production</i>							
	<i>5.5.7</i>	<i>Contact with industry</i>							
	<i>5.5.8</i>	<i>Preparation of tendering procedures for ET components</i>							
	<b>5.6</b>	<b>Industrial Partnerships</b>							
	<i>5.6.1</i>	<i>Test</i>							
	<i>5.6.2</i>	<i>Definition of requirements</i>							
	<i>5.6.3</i>	<i>Planning of logistics</i>							
	<i>5.6.4</i>	<i>Cost optimization</i>							
	<i>5.6.5</i>	<i>Personnel training programme</i>							
	<i>5.6.6</i>	<i>Identification of qualified suppliers</i>							
<b>WP6</b>	<b>Technical Design</b>								
	<b>6.1</b>	<b>Infrastructure Technical Design</b>							
	<b>6.2</b>	<b>Experiment Technical Design</b>							
	<b>6.3</b>	<b>Scientific impact</b>							
	<b>6.4</b>	<b>Open Data Access and Services</b>							

*Deliverables*

*Deliverables*

# WP details

<b>WP7</b>	<b>Risk Management</b>
7.1	Methodology
7.2	RI risk evaluation, monitoring & mitigation
7.3	Experiment technical risk evaluation and mitigation

<b>WP8</b>	<b>Transfer of Technology</b>
8.1	Promotion of Innovative technologies
8.2	Liason with industries
8.3	Intelectual Property

<b>WP9</b>	<b>Computing and Data Access</b>
9.1	Computing model
9.2	Computing Resources
9.3	T0 Data Center
9.4	Data Preservation
9.5	Software development

<b>WP10</b>	<b>Climate and Environmental aspects</b>
10.1	Low Carbon footprint
10.2	Liason with Climate Change and Geoscience
10.3	Enviornmental impact

<b>WP11</b>	<b>Outreach and Relation with Society</b>
11.1	Dissemination and communication
11.2	Mentoring and Training

<b>WP12</b>	<b>Ethics</b>
12.1	Diversity and Inclusion
12.2	Early Career Scientists

Table 3.1b: Work package description

For each work package:

Work package number	Lead beneficiary
Work package title	
Participant number	
Short name of participant	
Person months per participant:	
Start month	End month

Objectives

Description of work (where appropriate, broken down into tasks), lead partner and role of participants

Lots of information in N tables to be produced by each of the work packages

Table 3.1j: 'In-kind contributions' provided by third parties

Please complete the table below for each participants that will make use of in-kind contributions (non-financial resources made available free of charge by third parties). In kind contributions provided by third parties free of charge are declared by the participants as eligible direct costs in the corresponding cost category (e.g. personnel costs or purchase costs for equipment).

Participant Number/Short Name			
Third party name	Category	Cost (€)	Justification
	<b>Select between</b>		
	Seconded personnel		
	Travel and subsistence		
	Equipment		
	Other goods, works and services		
	Internally invoiced goods and services		

# Next Steps on Part B

→ **this week !**

- **Reach agreement on the WP definitions**
- Collect Eol of Institutions/Countries
  - I will facilitate the process with a poll system
- Define a Matrix of WPs, institutions, Countries
- Converge into a satisfactory distribution
- **Identify TWO coordinators for each WPs**

# Plan for the Proposal

- **All done by 11<sup>th</sup> January 2022 (10 days margin)**
- **Part A concluded by mid November**
  - Complete list of institutions
  - Information from Participants
  - Budget (v1.0) (to be declared final by end November)
- **Part B**
  - version 0.0 by mid November
  - version 1.0 by end of November
  - Version 2.0 by mid December
  - Final version by 20<sup>th</sup> December