



EUROPEAN UNION

#HorizonEU

FOR OF

Introduction to Horizon Europe 05/07/2021

Agenda

- Introduction to Horizon Europe
- Participation Criteria
- Types of Action and Funding Rates
- Eligible costs
- The Clusters & Wide ERA
- Funding and Tenders Portal LIVE DEMO
- Finding Partners
- Proposal Writing
- Application and Evaluation
- Our Services

Horizon Structure

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

Research actions

Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



European Innovation Council

European innovation ecosystems

European Institute of Innovation & Technology* Fusion

Fission

Joint Research Center

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

^{*} The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Participation Criteria



- 3 legal entities from 3 different
 Member States or Associated
 Countries* and with at least one of
 them established in a Member State.
- You may bring on board other partners from any country;
- Allocate necessary resources for the duration of the project;
- As from 2022, Gender Equality Plans will be an eligibility criteria for public bodies, research organisations and higher education institutions.
- Always check the HE General Annexes for the updated list of Associate Countries.

^{*}Different criteria applies to certain calls: EIC Accelerator, ERC, MSCA, CSAs or specified in the Work Programme calls.

Type of Actions and Funding Rates

Research and Innovation Action

Actions that establish new knowledge or develop new technologies or solutions.



EU funding rate: 100%

Minimum: 3 beneficiaries

TRL 1 - 5

Innovation Actions

Actions that demonstrate the viability of new technologies and solutions or support their first deployment in the market.



EU funding rate: 70%*
100% for non-profit legal
entities

Minimum: 3 beneficiaries
TRL 5 - 8

Coordinated and Support Actions

Actions that improve skills, mobilise large-scale investments or facilitate EU policy implementation.



EU funding rate: 100% Minimum: 1 beneficiary

25% Indirect Costs for all Actions

Eligible Costs



A. PERSONNEL COSTS

- A.1 Employees
- A.2 Natural persons under direct contract
- A.3 Seconded persons
- A.4 SME owners and natural person beneficiaries



B. SUBCONTRACTING COSTS



C. PURCHASE COSTS

- C.1 Travel and subsistence
- C.2 Equipment
- C.3 Other goods works and services



D. OTHER COST CATEGORIES

- D.1 Financial support to third parties
- D.2 Internally invoiced goods and services
- [D.3 Transnational access to research infrastructure unit costs]
- [D.4 Virtual access to research infrastructure unit costs]
- [D.5 PCP/PPI procurement cost]
- [D.6 Euratom Cofund staff mobility costs]
- [D.7 ERC additional funding]
- [D.8 ERC additional funding (subcontracting, FSTP and internally invoiced goods and services)]



E. INDIRECT COSTS



Widening Participation



Widening Participation and strengthening the ERA



€3.1Billion 2021-2027



2021/2022 : €674M



3 Areas(Destinations)



Improved access to Excellence (budget: 475 Mio. EUR)

- > Teaming for excellence
- > Twinning
- Excellence Hubs
- European Excellence Initiative (EEI)
- ➤ Hop On Facility

Attracting and mobilising the best talents (budget: 120 Mio. EUR)

- ERA Chairs
- > Fostering balanced brain circulation (BBC) ERA Fellowships
- Call 2022 Fostering balanced brain circulation (BBC) ERA Talents

Destination 3 - Reforming and enhancing the EU Research and Innovation System (budget: 122 Mio. EUR)

- > Research Ethics
- Reforms in Research systems
- Gender Equality
- Implementation of Open Science Practices

Research Infrastructures



European Research Infrastructures (RI)



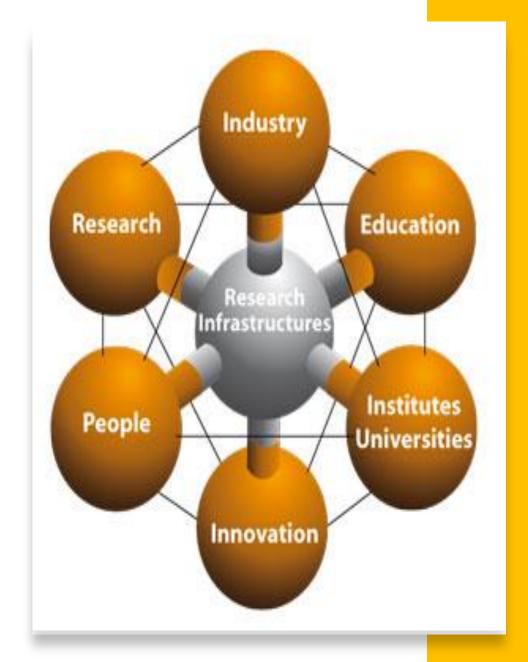
€2.4Billion 2021-2027



2021/2022 : €550M



5 Areas(Destinations)



Developing and optimising European Research Infrastructures landscape, maintaining global leadership (INFRADEV)

- > Reduce fragmentation
- > Create world leading RI
- Coordination of efforts among MS and AC
- Enhancing International Cooperation and Diplomacy

RI Support to Health Research, Green and Digital transformation and advance in Frontier knowledge (INFRASERV)

- > RI Services for Cancer,
- ➤ RI Services for sustainable and resilient agriculture and agro-ecological transitions;
- ➤ RI Services for climate-related risks on the environment;
- ➤ RI Services for development of materials for a circular economy
- ➤ Global Value Chain and Europe recovery from socio-economic crises

Network Connectivity in Research and Education (INFRANET)

- Address network capacity and demand
- develop a new pan-European investment programme to
- reach Terabit capacity
- Shift to digital science and computational infrastructures needed for Research and Education

Enabling an Operational, Open and Fair EOSC System (INFRAEOSC)

- > Enabling a fully operational EOSC system
- > Supporting the development of EOSC activities
- > Develop research data commons in EU
- ➤ Web of FAIR Data and Services
- **EOSC** outreach

Next Generation of Scientific instrumentation, tools and methods and advanced digital solutions (INFRATECH)

- Scientific Instruments
- > Tools
- Digital Solutions (Imaging data)

CLUSTER 1



HEALTH Cluster



€8.3 Billion 2021-2027



€1.75 Billion for 2021-2022



6 Areas (Destinations)



Staying Healthy in a rapidly changing society

- ✓ Diet and Health (Obesity)
- ✓ Ageing and demographic change
- ✓ Mental Health
- ✓ Digital empowerment in health literacy
- ✓ Personalised prevention
- ✓ Al to predict disease risk
- Chronic inflammation

Living and Working in a health promoting environment

- Environmental, occupational and socio-economic risk factors to health
- ✓ Socio-economic inequalities
- ✓ Climate and environmental changes
- ✓ Working environment

Tackling diseases and reducing the disease burden

- ✓ Better Diagnostics
- ✓ Personalised treatment
- ✓ Understanding diseases
- ✓ Infectious diseases threats
- ✓ Innovative health technologies
- ✓ Scientific evidence, policy and legal frameworks
- ✓ New/Advanced therapies

Ensuring access to innovative, sustainable and high quality healthcare

- ✓ Fair access to high-quality healthcare
- ✓ Innovative, feasible, implementable, financially sound scalable solutions (for governance, financing, human and physical resources, health services and patient empowerment)

Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

- ✓ medical devices and improved health
- Consider safety, effectiveness, appropriateness, accessibility, comparative value added and fiscal sustainability + ethical legal and regulatory issues

Maintaining an innovative, sustainable and globally competitive health industry

- Market access of innovative technologies (Medical, pharma, biotech and digital)
- ✓ Novel methods and metrics
- ✓ Support for regulatory authorities
- ✓ Safe and clinically validated tools, technologies and services
- ✓ Greener pharmaceuticals and Health technologies

CLUSTER 2



Culture, Creativity and Inclusive Society



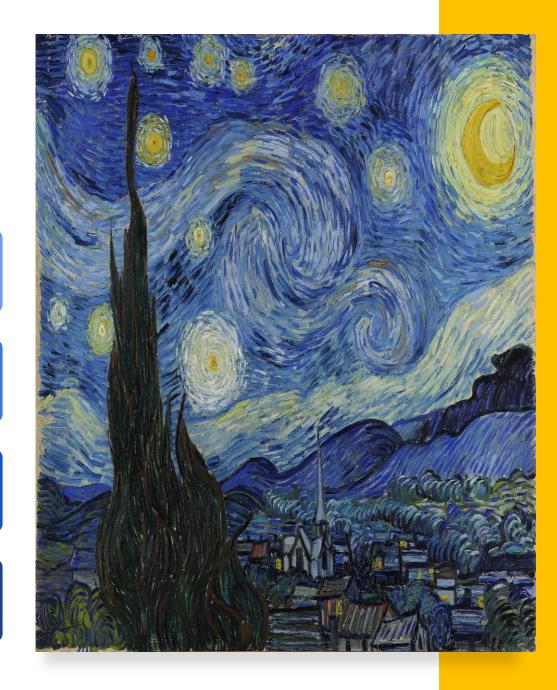
€2.280Billion 2021-2027



2021/2022: 422.3M



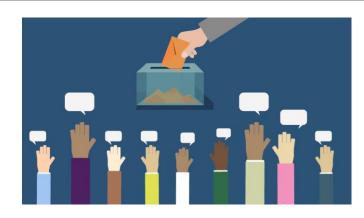
3 Areas(Destinations)



Cluster 2: Culture, Creativity and Inclusive Society - 3 Destinations

Destination 1: Innovative research on Democracy and Governance

The implementation of the research activities of the destination will assist in the re-invigoration and modernisation of democratic governance.



Destination 2: Innovative research on the European Cultural Heritage and the Cultural and Creative Industries

Activities under this Destination will aim at protecting historical sites and monuments, artefacts, heritage sites, cultural landscapes, museums and other cultural institutions, languages, customs, traditions and values.



Activities will contribute to EU migration and mobility policies, both internal and external. Activities will also promoting and ensuring inclusion and equity in education and training.





CLUSTER 3



Civil Security for Society Cluster



€1.596 Billion € 2021-2027



406 Million € for 2021-2022



6 Areas (Destinations)



Civil Security for Society



6 Destinations in the Work Programme

Better protect the EU and its citizens against Crime and Terrorism

Fake News, 5G, Quantum Encryption, Cybercrime, Trafficking, Sexual Abuse, Identity theft, fight against corruption and drugs, fight against organised crime. (56M€, 13)

Effective management of EU External Borders

Surveillance of border (land and sea), better Customs, illicit goods in postal services, detection of concealed objects, fraudulent travel documents. (30.5M€, 7)

Resilient Infrastructure

Resilience and autonomy of physical and digital infrastructures are enhanced and vital societal functions are ensured, thanks to more powerful prevention, preparedness and response. (20M \in , 2)

6 Destinations in the Work Programme

Increased Cybersecurity

Secure & resilient digital infrastructures, Harder & Software Chain Security, disruptive technologies, certification of digital products, Privacy & Ethics. (67.5M€, 16)

A Disaster-Resilient Society for Europe

Losses from natural, accidental and man-made disasters. Preventive Actions, Better Societal preparedness, Resilience, Improved disaster Risk management. (26M€, 6)

SSRI (Strengthened Security Research and Innovation)

Generate knowledge and value in cross-cutting matters in order to avoid sector specific bias and to break silos of security solutions. Strengthen key pillars of the research and innovation cycle to increase the effectiveness of security capabilities. $(16M \in 6)$

Deadlines of Topics Per Destinations

Opening Dates – 30 Jun 2021 & 30 Jun 2022

Deadline Dates – 23 Nov 2021 & 23 Nov 2022



CLUSTER 4



Digital Industry and Space Cluster



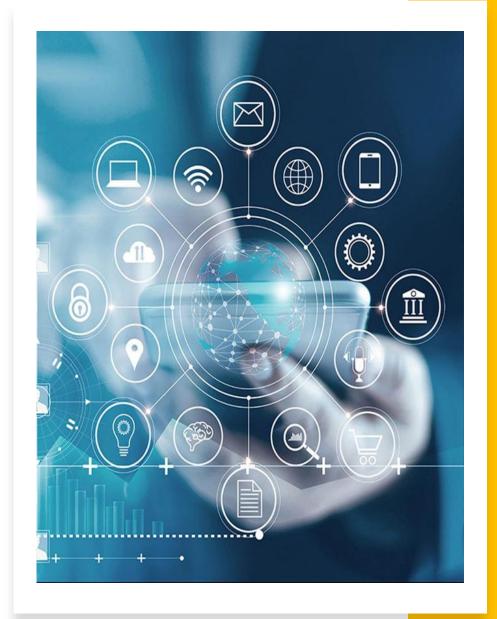
€15 Billion € 2021-2027



3 Billion € for 2021-2022



6 Areas (Destinations)



Digital, Industry & Space

- Manufacturing technologies
- Key digital technologies including quantum technologies
- Emerging enabling technologies
- Advanced material
- Artificial intelligence and robotics
- Next generation internet
- Advanced computing and Big Data
- Circular industrie
- Low carbon and clean industries
- Space including earth observation

6 Destinations in the Work Programme

CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION -

Green Advanced Manufacturing, Advanced digital technologies, construction industry, Hubs for Circularity, Renewables and Electrification, Regeneration of waste (403M€, 55)

INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY - Resilient Value Chains, climate neutral & circular economy, sustainable materials, materials and data actions (365.2M€, 61)

WORLD LEADING DATA AND COMPUTING TECHNOLOGIES - Data Sharing, Edge Computing, Cloud Computing, IOT, Big Data Analytics. (141.M€, 19)

6 Destinations in the Work Programme

DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL - Ultra power processors, Electronics, Photonics, 6G, AI, Data & Robotics, Quantum, Emerging Technologies, (311.9M€, 71)

OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA - Space systems, access to space, Galileo, EGNOS, Copernicus, GOVSATCOM, Quantum, Affordable & Reusable Launchers. (136.22M€, 19)

A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES - Leadership in AI, An internet of Trust, Extended Reality, Impact of technologies on society (121M€, 17)

Deadlines of Topics Per Destinations

Twin Transition - 22 Jun 2021 - 23 Sep 2021 & 21 Oct 2021 - 30 Mar 2022

Resilient Industry - 22 Jun 2021 - 23 Sep 2021, 16 Sep 2021 - 25 Jan 2022 & 12 Oct 2021 - 30 Mar 2022

Data - 22 Jun 2021 - 21 Oct 2021 & 23 Nov 2021 - 05 Apr 2022

Digital Emerging - 22 Jun 2021 - 21 Oct 2021, 28 Oct 2021 - 27 Jan 2022, 23 Nov 2021 - 05 Apr 2022 & 16 Jun 2022 - 16 Nov 2022

Space - 28 Oct 2021 - 16 Feb 2022

CLUSTER 5



Climate, Energy and Mobility Cluster



€15.123Billion 2021-2027



2021/2022: €2.8Bn



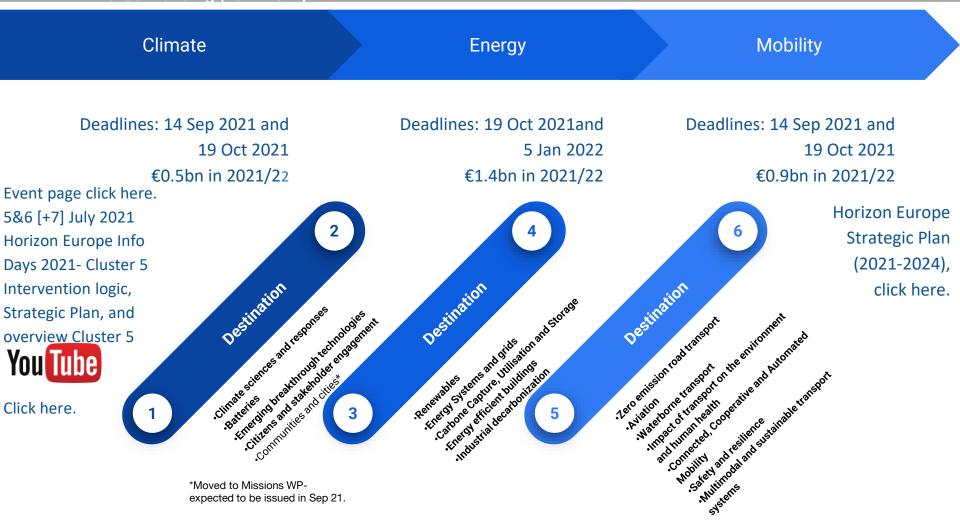
6 Areas (Destinations)



Cluster 5- Climate, Energy & Mobility

Overview of key themes in one slide €15bn funding (2021-2027)

Note: over 175 topics in 2021-2022



Link to Policy and strategy documents

Link to open calls (84 topics)

Link to Work Programme 2021-2022

Link to forthcoming calls (114 topics)

CLUSTER 6



Food, Bioeconomy, Natural Resources, Agriculture and Environment



€8.953Billion 2021-2027



2021/2022 : €1.9Billion



7 Areas (Destinations)



Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment - 7 Destinations

- Biodiversity and Ecosystem Services To bring Biodiversity back on a path to recovery, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation. Research and innovation is key to delivering important impacts in the nexus biodiversity-food-health-water-climate and to achieving the goal of healthy and resilient ecosystems by 2030.
- 1. Fair, healthy and environmentally-friendly food systems from primary production to consumption This destination is focusing on Sustainable farming, Sustainable fisheries and aquaculture and transforming food systems for health.
- Circular economy and bioeconomy sectors This destination and its
 topics target climate-neutral circular and bioeconomy transitions,
 covering safe integrated circular solutions at territorial and sectoral
 levels, as well as key bioeconomy sectors such as sustainable bio-based
 systems, sustainable forestry, small-scale rural bio-based solutions, and
 aquatic value chains.
- Clean environment and zero pollution This destination seeks to halt and prevent pollution by focussing on fresh and marine waters, soils, air, including from nitrogen and phosphorus emissions, as well as on the environmental performance and sustainability of processes in the biobased systems.



Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment - 7 Destinations

- **5**. **Land, ocean and water for climate action -** Assessing the impacts of climate change on our land and marine environments, natural resources, agriculture and food systems, and identifying mitigation options and adaptation pathways.
- **6. Resilient, inclusive, healthy and green rural, coastal and urban communities -** Increase our understanding of the differential impacts of climate, environmental, socio-economic and demographic changes on rural, coastal and urban areas in order to identify ways to turn these changes into equal opportunities for people . Explore innovative ways to tailor policy responses to the place-based challenges identified at various levels of governance.
- **7. Innovative governance, environmental observations and digital solutions in support of the Green Deal** Experimenting with new ways to govern the transition process and modernising the governance, in particular by making information and knowledge available and accessible. R&I for governance to support the Green Deal shall provide insights into institutional barriers such as lock-ins, path dependency, political and cultural inertia power imbalances and regulatory inconsistencies or weaknesses.

GREEN

DEAL

FUNDING AND TENDERS PORTAL DEMO

Funding and Tenders Portal link: https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home

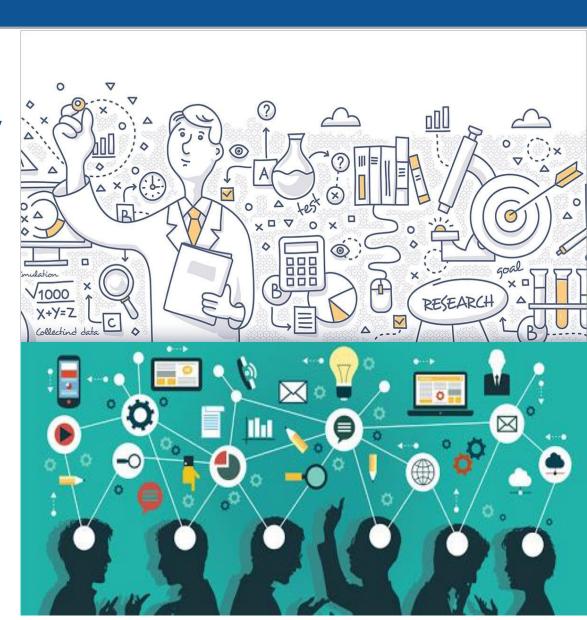
Q & A



Finding Partners

- 1. Complementarity
- 2. Interdisciplinarity
- 3. Balance
- 4. Excellence

Two Major Roles – Coordinator or Beneficiary, Choose according your capacity and experience



Finding Partners - Partner Search Form



ONE PAGE PROPOSAL DESCRIPTION

Information about the pro	oposer				
Organisation	i				
Address					
Type of partner	SME, University, Research Centre, Large Company, Public Administration, Association, other				
Website					
Contact person	1				
Email					
Telephone					
Position					
Experience in European fund	ls	Y/N	Willing to coordinate		Y/N
Date of publication	dd/mm/yyyy		Deadline for answer		
Call information					
Call identifier	H2020-xxxx		Deadline of the call	dd/mm/yyyy	
Topic Target					
Funding Scheme	RIA-IA-CSA	<u> </u>	Evaluation	1 stage - 2 st	ages
Project Overview					
Headline: l line general description of	the project				
Proposal name	optional		Duration	optional	
Keyword(s)	optional		Duration	орионал	
	optional				
Objectives of the project: List here the concrete object: > Objective 1	ve(s) of the proj	ject.			

experience of the possible partner() wanted. This should be related to the work to be carried out in the frame of your proposal. If yo be specified to in order to avoid unwanted replies that can take you lot of time to process! Description of the work to be carried out by the partner(s) south; Description of the work to be carried out by the partner(s) south; Described the take(s) that the future partner will be reasonable for inside the project. How are the expertise of the future partner(s) fitting in the consortium to reach the objectives: Type of partner south:

Please include:

- Organisation profile,
- Contact details,
- Past experience and expertise,
- List of topic/s which you are searching,
- Your role in the project,
- Why you should be chosen to be part of the consortium.



Finding Partners

- Use Personal/Entity Networks,
- Ask your NCP to share your Partner Search Form with other NCPs aboard,
- Attend to Commission Conference and B2B Events to share your details,
- Get involved with the NCP networks and register your partner search form with them,
- Check previous funded projects on <u>Cordis.Europa.eu</u> and contact the coordinators,
- Upload your partner search form on the <u>funding and tenders portal</u> under your call of interest.
- Project Repository Journals -https://www.europeandissemination.eu/the-project-repository-journal
- Use the tool for R&I stakeholders in the Mediterranean Region https://www.plumtri.org/

Proposal writing - Role in the project determines what level of input you need in the





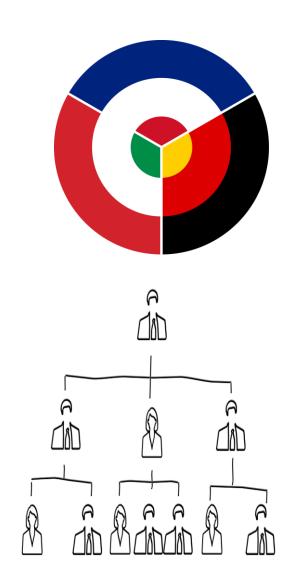




Proposal writing - Role (different level of contribution).



Organisation roles: Legal and Financial (LEAR)



Proposal Writing - Coordinator

Main interlocutor with Cion Forms consortium / assigns tasks

Writes and submits the Proposal and budget
Coordinates the project implementation / Deliverables / tasks / reporting / budget

MCST IPAS+ Scheme



Proposal writing - WP Leader



Draft the WP including deliverables broken down into tasks (1-3pages) Assign tasks and person months
Calculate budget needed and inform coordinator

Important that WP fits into the overall context of the proposal



Table 3.1b: Work package description

For each work package:

Work package number	Lead beneficiary		j
Work package title		-0.	**
Participant number			
Short name of participant			
Person months per participant:			
Start month		End	
Start Month		month	0,

Objectives		
	5	

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

Deliverables (brief description and month of delivery)

Proposal writing - Task Leader



Drafting of the task (2-3 paragraphs)
Allocate and coordinate the team implementing the task (if more than one person)



Proposal writing - Beneficiary

Profile of organisation and Bio for Project manager (for all roles) Budget breakdown (for all roles)



Application



Two parts:

<u>Part A</u> of the proposal is generated by the IT system. It is based on the information entered by the participants through the submission system in the Funding & Tenders Portal

<u>Part B</u> of the proposal is the narrative part. Three sections that each correspond to an evaluation criterion.

Application - Part A

Coordinator inserts the Partner information here and info is automatically generated

```
General information
Participants (Organisation Data)
Budget
Ethics and security self assessment
Other Questions (Gender equality plan, GDPR etc)
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Application - Part B

Coordinator inserts the Partner information here and info is automatically generated

Excellence
Impact
Quality and efficiency of the implementation
Under implementation: list of work packages and description, list of deliverables, milestones, risks, staff effort, justification of costs: subcontracting, purchase costs and other cost categories)

Application - Part B (Technical)

✓ Excellence

(objectives, coordination/support measures, data management, open science measures etc)

✓ Impact

(Credibility of the pathways to achieve the expected outcomes, Suitability and quality of the measures to maximise expected outcomes and impacts, dissemination and exploitation plan)

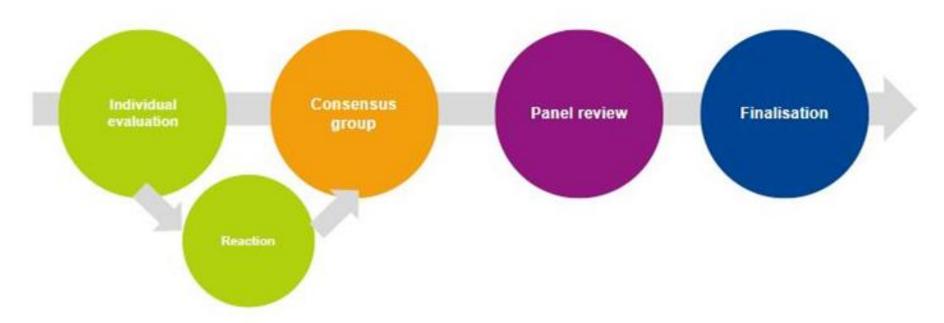
✓ Quality and Efficiency of the implementation

Quality and effectiveness of the work plan (tables), assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.

Evaluation Process

- Admissibility and eligibility checks.
- All proposals are evaluated by a <u>board of independent expert evaluators</u>
 - Phase 1 Individual evaluation
 - Phase 2 Consensus group
 - Phase 3 Panel review
- Evaluations done both remotely and within EC institutions; All HE proposals pass through Ethical Review and Security Checks in the self assessment.
- Final rankings
 - A ranked list of proposals is made,
 - The number of proposals in the list depends on the available budget.
- An ESR is drawn up for every project incl. marks for each section.

Evaluation Process



Right to React (Rebuttal)

- Objective to increase transparency and to correct any factual or major misunderstandings done by the experts and to provide feedback.
- Applicants can reacts to the draft comments of the experts.
- Experts will consider the the reactions of the applicants before providing their final assessment.

Time to Grant

A maximum TTG of 8 months:

5 months

for informing all applicants on scientific evaluation

3 months for signature of GA

Some exceptions:

- Shorter time-to-grant for EIC Accelerator;
- Longer time-to-grant is possible for ERC projects and other exceptional cases;
- In 2 stage process, time-to-grant counted from stage 2 deadline.

National Contact Point Services

Malta Council for Science and Technology

Policy and Strategy Unit

International -isation Unit

National R&I Unit Framework Programme Unit

- MCST is the National Contact Point Organisation for the European Framework Programme.
- The Framework Programme Unit hosts all National
 Contact Points for Horizon Europe.

The network of **National Contact Points** is the main structure to provide guidance, practical information and assistance on all aspects of participation in the Framework Programme

Main Objective:

To provide highly professional support services by spreading awareness, giving specialised advice, and providing on-theground guidance to Maltese researchers and entities and ensuring that the new Framework Programme, Horizon Europe becomes known and readily accessible to all potential applicants.

Informing and Raising Awareness

Informing and Awareness Raising















- Circulating general information
- Open calls
- Organise information and promotional activities
- Promote other networking events and funding opportunities

Advising and Training

- One-to-one consultations
- Partner searches
- Advise on administrative procedures
- Review proposals before submission
- Advise during project implementation stage





- Represent national needs at EU level
- Actively integrating MT's interests in consultations
- Contributing to shaping content priorities in the relevant Work Programmes according to national priorities

The National Contact Points

\boxtimes

Horizon.malta@gov.mt



Mark Meilak



Anthea Fabri



Ian Gauci Borda



Tamara Schembri



Lili Kankaya



George Bugeja













Q & A



thank