Horizon Europe

THE RESEARCH & INNOVATION

EU FRAMEWORK PROGRAMME 2021-2027

Martina Desole – Head of International Cooperation
National Contact Point NMBP

Jean Enric Paquet – Director General DG RTD
March 2018

Horizon Europe: EVOLUTION not REVOLUTION!

European Commission

Directorate-General for RESEARCH and INNOVATION

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EASME A2: H2020 SME
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SCIENCE & POLICY TRANSITIONS
W. BURTSCHER

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IMPLEMENTATION IMPACT & SUSTAINABLE INVESTEMENT STRATEGIES
K. KINGI

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«MISSION INNOVATION»
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I.5 FINANCIAL MANAGEMENT & PROGRAM SUPPORT III[4]
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DHoU -

Head of unit functions seconded to EXECUTIVE AGENCIES under:

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REA.C M. BELLENS	REA.C.1 S. VARTIAINEN	REA.C.2 H. COUSIN
REA.C.3 R. BULTYNCK	INEA.R.1 DHoU A. KUCHARSKA	INEA.R.2 P. STALINS DHoU

DIRECTORATE D

INEA.H.1 DHoU P. PETROV

INEA.H A. HAIGH

DIRECTORATE C

EASME.B P. KOLAR

EASME.B.2 A. MILIUKAS

Head of unit functions seconded to EXECUTIVE AGENCIES under:

DDG «SCIENCE & POLICY TRANSITIONS»

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ERC.B.5 A. LIBERATORE	ERC.C M. MAY	ERC.C.1 N. ATZOULATOU	ERC.C.2 A. ULCELUSE	ERC.C.3 T. PROST	ERC.D.1 D. COSTENS	ERC.D.3 L. MOREAU

DIRECTORATE E

REA.B.3 C. AMTING

DIRECTORATE G

REA.B.5 A. FIALA

[1] The EIC TF will consist of three DG RTD units and and adviser. It will have specific relationships with 2 units established in Executive Agencies (EA), respectively REA A5 and EASME A2. All together the 5 units constitute the extended EIC TF that is governed by a Steering Committee respectively chaired and co-chaired by the DGs of DG CNECT and DG RTD.
[2] Unit I3 in charge of Directorates A, B, G, TF EIC & Units 02, 03, 05 and experts management
[3] Unit I4 in charge of Directorates E and D (without RFCS)
[4] Unit I5 in charge of Directorates C, F and RFCS activity

01/06/2019

European Parliament and Council reached a common understanding on Horizon Europe on 19 March 2019

- Budget, synergies and third country association still pending, depending on the overall MFF negotiations
- Commission has started preparations for the implementation of Horizon Europe

New Commissioner

President-elect Ursula von der Leyen said: *"This team will shape the European Way: **we will take bold action against climate change**, build our partnership with the United States, define our relations with a more self-assertive China and be a reliable neighbour, for example to Africa. This team will have to stand up for our values and world-class standards. I want a Commission that is led with determination, that is clearly focused on the issues at hand and that provides answers. I want it to be a well-balanced, agile and modern Commission. This team will now have to gain the Parliament's confidence. **My Commission will be a geopolitical Commission committed to sustainable policies**. And I want the European Union to be the guardian of multilateralism. Because we know that we are stronger by doing together what we cannot do alone."*

Mariya Gabriel Nominated to be European Commissioner for Innovation and Youth

(…and Research, Culture and Sport)

WHY HORIZON EUROPE?

- The Programme shall maximise Union added value by focusing on objectives and activities that cannot be effectively realised by Member States acting alone, but in cooperation

- The Programme's general objective is to deliver scientific, technological, economic and societal impact from the Union's investments in research and innovation

OBJECTIVES

- To strengthen the scientific and technological bases of the Union
- to foster its competitiveness
- to deliver on the Union strategic priorities and contribute to the realisation of EU objectives and policies
- to contribute to tackling global challenges, the Sustainable Development Goals by following the principles of the Agenda 2030 and the Paris Agreement
- to strengthen the European Research Area

The structure vs H2020

HORIZON 2020 STRUCTURE

Excellent Science

- European Research Council
  - Frontier research by the best individual teams
- Future and Emerging Technologies
  - Collaborative research to open new fields of innovation
- Marie Skłodowska Curie actions
  - Opportunities for training and career development
- Research infrastructures (including e-infrastructure)
  - Ensuring access to world-class facilities

Industrial Technologies

- Leadership in enabling and industrial technologies
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- Access to risk finance
  - Leveraging private finance and venture capital for research and innovation
- Innovation in SMEs
  - Fostering all forms of innovation in all types of SMEs

Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)

Horizon Europe: Preliminary structure

Pillar 1
Excellent Science

- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness

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

- Joint Research Centre

Pillar 3
Innovative Europe

- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

- Widening participation and spreading excellence
- Reforming and Enhancing the European R&I system

Commission proposal for budget: €100 billion* (2021-2027)

* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

Lessons Learned from Horizon 2020 Interim Evaluation	Key Novelties in Horizon Europe
Support breakthrough innovation	European Innovation Council
Create more impact through mission-orientation and citizens' involvement	R&I Missions
Strengthen international cooperation	Extended association possibilities
Reinforce openness	Open science policy
Rationalise the funding landscape	New approach to Partnerships
Encourage participation	Spreading Excellence

European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors (***70% of the budget earmarked for SMEs)***

European Innovation Council – a one-stop-shop

Helping innovators create markets of the future, leverage private finance, scale up their companies,

Innovation centric, risk taking & agile, pro-active management and follow up

Two complementary instruments bridging the gap from idea to investable project

Pathfinder: grants
(from early technology to pre- commercial)

Accelerator:
grants only & blended finance
(from pre-commercial to market & scale-up)

What's holding back European innovation

Innovation performance	Lack of breakthrough and disruptive innovations that create new markets
Innovation funding	Financing gap between R&D grants and private investment for scaling up innovative start-ups
Innovation ecosystem	Many national & local ecosystems, but fragmented at European level

The European Innovation Council

One stop shop for breakthrough & disruptive innovators	Open to all innovators, in any field, at any time Highest potential innovators selected on basis of ideas and team
Agile funding from idea to investment	Pathfinder grants for advanced research on emerging technologies Accelerator funding for innovative start-ups (<€2.5 million grant, <€15 million equity) Crowding in private investment (VC, Invest EU)
Building ecosystems and communities	Access to mentoring and advisory services and to knowledge partners (e.g EIT) Expert Programme Managers to engage with projects and communities Prizes for breakthrough technologies

Tested under Horizon 2020, fully incorporated in Horizon Europe

Total estimated budget, M€

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Accelerator Fund Pilot

1. EIC Accelerator Fund Pilot – Funding components and Process	The EIC Accelerator will initially be composed of: (a) a **grant component** managed by the EC; and (b) an **equity component (an investment in equity or quasi-equity) operated by the EIC Fund** with the support of the EIB Group as investment advisor and managed by the EIC governing bodies. In its **pilot phase** (until 2020) the EIC Fund will have an initial budget of EUR 100m. Candidate companies will apply to the EIC Accelerator through a **public call for proposals** published by the EC. The EC will collect, evaluate, select and **award an indicative grant-only or blended finance support**. Following the selection, the EC will initiate the grant agreement preparation and in parallel, will channel proposals selected for blended finance to the EIC Fund for the process regarding the equity component[1] (due diligence, market assessment, negotiation of the equity agreement, etc.). The grant process may conclude (and the grant be signed) without waiting for finalization of the equity component process.

http://tiny.cc/2dc0cz

Policy targets: The pilot will focus on capital-intensive policy-priority sectors including clean energy, advanced engineering, life sciences, digital, space, climate action, future mobility and social innovation.

R&I Missions

R&I Missions → **Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact**

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and 5 missions areas.
Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar (drawing on inputs from other pillars)

Adaptation to climate change, including societal transformation
Healthy oceans, seas, coastal and inland waters
Mission areas
Cancer
Climate-neutral and smart cities
Soil health and food

New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- **Simple architecture and toolbox**
- **Coherent life-cycle approach**
- **Strategic orientation**

Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

Co-funded

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

Health innovations
Key digital and enabling technologies
Metrology
EU air traffic, aviation and rail
Areas for possible Institutionalised European partnerships (based on Article 185/7 TFEU)
Sustainable bio-based solutions
Hydrogen and sustainable energy storage
Clean, connected mobility
Innovative SMEs

Strategic planning to define multiannual work programmes and calls for proposals

- Transparency and stakeholder involvement
- Prioritisation and flexibility to align to political priorities
- Internal programme coherence & synergies with other programmes

Multiannual Strategic R&I Plan

*** Multiannual orientations and priorities in one document**
*** Areas for partnerships and missions**

Strategic discussions with Member States and European Parliament	Consultation with stakeholders

Work Programmes

- ***Metà Settembre 2019*** – Prima riunione dei *Mission boards*.
- ***Metà Settembre 2019 –*** Insediamento dei gruppi di esperti sulle missioni del Comitato di Programma Ombra (un gruppo per area).
- **24 - 26 Settembre 2019** - Giornate europee della ricerca e dell'innovazione (EU Research and Innovation Days): serie di tavoli di lavoro sulla seconda bozza di piano strategico; presentazione dei Mission boards.
- **30 Settembre 2019** – Audizione del nuovo Commissario R&I.

- ***24 Ottobre*** – Quinta riunione della configurazione strategica del Comitato di Programma ombra. Possibile scambio di opinione con la Commissione ITRE del Parlamento europeo.

- ***3° trimestre 2019*** – Possibili consultazioni negli Stati Membri sulla bozza di piano strategico.

- ***4° trimestre 2019*** - I *Mission boards* co-progettano (*co-design*) la rispettiva Missione e producono i loro risultati.

- ***21 Novembre 2019*** – Sesta riunione della configurazione strategica del Comitato di Programma ombra. Possibile scambio di opinione con la Commissione ITRE del Parlamento europeo.

- ***Novembre 2019*** – Insediamento del nuovo collegio dei Commissari.
- ***Novembre 2019*** – Finalizzazione del piano strategico, inclusa l'identificazione delle missioni specifiche e dei partenariati co-programmati e co-finanziati. I risultati dei *Mission board* (i.e. identificazione delle missioni specifiche) si integrano nella bozza di piano strategico HE.

- ***Dicembre 2019*** - La Commissione sottopone la valutazione d'impatto sui partenariati istituzionalizzati al comitato per il controllo normativo (*Regulatory Scrutiny Board*).
- ***17 Dicembre 2019*** - Settima riunione della configurazione strategica del Comitato di Programma ombra.

- ***Gennaio 2020*** – Adozione del piano strategico di Horizon Europe. Presentazione delle missioni specifiche.

- ***1° trimestre 2020*** - Adozione del nuovo pacchetto legislativo per i partenariati istituzionalizzati, basati sugli articoli 185 e 187 del TFUE (pacchetto unico).

- ***1° trimestre 2020 –*** Opinione del Comitato di Programma ombra sul piano strategico di Horizon Europe.

- ***1° Trimestre 2020 –*** Insediamento delle configurazioni tematiche del Comitato di Programma ombra ed inizio della preparazione del programma di lavoro 2021-22 HE.

- ***Metà 2020*** - I risultati dei *Mission board* si integrano nelle bozze di programma di lavoro 2021-22 HE.

- ***3° Trimestre 2020 –*** i co-legislatori adottano il nuovo pacchetto legislativo sui partenariati (pacchetto unico).

USEFUL LINKS

- European Commission website
- APRE sito - blog *Verso Horizon Europe*
- Framework Programme consolitated text – LINK (27/03/2019)
- Specific Programme consolitated text– LINK (15/04/2019)

THANK YOU FOR YOUR ATTENTION!

APRE
Agenzia per la Promozione
della Ricerca Europea
Via Cavour, 71
00184 - Roma
www.apre.it
Tel. (+39) 06-48939993
Fax. (+39) 06-48902550

MARTINA DESOLE
desole@apre.it

NCP for H2020 NMBP
Head of International Cooperation

PATHFINDER:
Researchers, technologists

- For radically new technologies emerging from collaborative research
- Grant funding of up to €4 million (100% of costs)
- From proof of concept to demonstration of commercial viability
- Access to EIC coaching and mentoring services
- Majority of funding is open (no predefined themes). Strategic breakthrough technologies are also supported (challenge-based)

ACCELERATOR:
Start-ups, SMEs and entrepreneurs

- For development and scaling up of high risk innovations by startups and SMEs
- Grant funding of up to €2.5 million (70% of costs)
- Option of equity investment of up to €15 million
- Access to EIC coaching and mentoring services, pitches with corporates, VCs, etc
- All funding is open (no predefined thematic areas)

How does it works?

2nd step

Pathfinder applications must be **interdisciplinary**, offer a **radical vision** and a **breakthrough technology target**.

They will also be assessed on their potential to **create new markets and social and economic impacts**.

Applications to the accelerator will be assessed first by a set of independent experts based on their potential for **future social or economic impact or market creation, the high risk/ high potential nature of the innovation, and the business plan.**

The applicants with the highest overall assessments will be invited to **pitch to a panel** of experienced investors and entrepreneurs who will take a go/no-go decision.

Grant or equity?