Horizon 2020: Where are we?

How a H2020 call will be put together - the process and role of researchers, PCMs and NCPs

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Disclaimer: the information on this presentation does not exempt the consultation of the official sources of information
What is behind Horizon 2020 | Political context

**Priorities**
- Smart growth
- Sustainable growth
- Inclusive growth
- Economic governance

**7 flagship initiatives**

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**EUROPE 2020**
A European strategy for smart, sustainable and inclusive growth
What is behind Horizon 2020 | Political context

Priorities

Smart growth
- Digital agenda for Europe
- Innovation Union
- Youth on the move

1 of the 7 flagship initiatives

- **Industrial Leadership**: 20,2b€ (*tbc)
- **Excellent Science**: 27,8b€ (*tbc)
- **Societal Challenges**: 35,8b€ (*tbc)

Support EU’s position as a world leader in science, with an increase in funding to the European Research Council

Reflects the priorities of the EU 2020 strategy, addressing major concerns shared by all Europeans

Strengthen industrial leadership in innovation. Includes major investment in key technologies, great access to capital and support for SMEs

http://ec.europa.eu/research/horizon2020

* EC proposal (Nov 2011)
Horizon 2020 (2014-2020) – Objectives and structure

Europe 2020 priorities

International cooperation

Shared objectives and principles

Tackling Societal Challenges
- Health, demographic change and wellbeing
- Food security, sustainable agriculture and the bio-based economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and secure societies

Creating Industrial Leadership and Competitive Frameworks
- Leadership in enabling and industrial technologies
  - ICT
  - Nanotech., Materials, Manuf. and Processing
  - Biotechnology
  - Space
- Access to risk finance
- Innovation in SMEs

Excellence in the Science Base
- Frontier research (ERC)
- Future and Emerging Technologies (FET)
- Skills and career development (Marie Curie)
- Research infrastructures

EIT
JRC

Simplified access

Common rules, toolkit of funding schemes

Basic research

Applied research
- Technological development
- Prototyping
- Demonstration

Market

Coherent with other EU and MS actions
Where are we in the preparation of Horizon 2020?

- Last year of FP7
- Horizon 2020 preparation

Draft Horizon 2020 Strategic Programme (Feb 2013)

Draft of the first work programmes (Summer - tbc)

FP7 Health Programme Committee meeting (June 2013)

Workshops (Brussels)

Member States Consultation (Autumn)

Adoption of legislative acts by Parliament and Council on Horizon 2020

EC proposal for H2020 (30 Nov. 2011)
under discussion with Member States and European Parliament

Launch of first calls (Jan 2014)
Thematic context – Strategic Programming (II)


Thematic sub-challenges (focus areas – maximum impact)

Portfolio of activities:
• coverage of the innovation cycle
• different perspectives (gender balance, socio-economic aspects, ICT, International cooperation, …)
• Complementarities with other initiatives (Private-public and Public-Public partnerships, …)
Thematic context – Strategic Programming (I)

Legal base
Strategic Programme for 2014-2016 calls
Horizon Groups

Figure 1: Interrelations between Grand Challenges

Horizon 2020 Specific Programme

Work programmes

Final Report on Strategy Definition & Road Mapping for Industrial Technologies to Address Grand Challenges
Preparation of Horizon 2020

From FP7 to Horizon 2020

FP1 [1984-1987]
FP2 [1987-1991]
FP3 [1991-1994]
FP4 [1994-1998]
FP5 [1998-2002]
FP6 [2002-2006]
FP7 [2007-2013]
H2020 [2014-2020]

Learning from experience
... But, bearing in mind the intended break from the past
How it works at European level

**European fora (managed by EC)**

- Advisory Groups (AG)
- ERAC (ex-CREST)
- Programme Committee
- National Contact Points (NCP)

**Activities**

- Expertise
- Policy & strategy
- Management of Specific programmes
- Information, promotion of the funding opportunities, visibility, advices, assistance, support, training, signposting EC

**Member States / Associated Countries**

- Individual experts
- National Representatives
- National Delegates
- NCP systems
How it works at European level ... in more detail

- Contribute to the European Union's vision and objectives /agenda of Horizon 2020
- Provide high quality and timely advice for the preparation of the Horizon 2020 calls for project proposals.

Experts for Horizon 2020 Advisory Groups: Call for expressions of interest:

- Individual in their personal capacity – i.e. experts with outstanding knowledge in their areas acting independently and in the public interest, who cannot represent collective interests nor being affiliated with private organisations which may benefit from the work of the group;
- Individual representing a common interest shared by stakeholders in a particular policy area; they shall not represent an individual stakeholder, or
- Individual representing an organisation, in the broad sense of the word including companies, associations, Non-Governmental-Organisations, trade unions, universities, research institutes, international organisations.
How it works at European level ... in more detail

**Advisory Groups (AG)**

- Contribute to the European Union's vision and objectives /agenda of Horizon 2020
- Provide high quality and timely advice for the preparation of the Horizon 2020 calls for project proposals.

**Programme Committee (PC)**

- Vote and agreement on the Commission's management of programmes (work programmes and proposals’ negotiations results).

**National Contact Points (NCP)**

- **Guiding principles for setting up systems of National Contact Points (NCP systems) for FP7):**
  - Informing, awareness raising
  - Advising (administrative procedures, legal and ethical issues, etc), assisting and training
  - Signposting and Feedback (to Commission services, Community business support network, etc.)
  - Support to the Programme Committee Members, namely as Experts of the National Delegations

**Experts for Horizon 2020 Advisory Groups: Call for expressions of interest:**

*The H2020 Commitology (EC <-> PC) is still under negotiation*
Learning from FP7 experience: how the Framework Programme works

'The starting point is always the previous Framework Programmes and the results and evaluations of outputs'

'Results can continue to come in a long time after the project finishes, maybe three to five years or more, so you may not see the whole picture for some time.'

(Graham Stroud, Head of Unit for the Support for the Implementation of the Research Programmes, DG Research, July 2006)
Learning from FP7 experience: how were the Health Work Programmes (calls) prepared

Health Specific Programme (2006) + RoadMap

Inputs

European Policies
Bilateral and international agreements of the EU
EU Scientific Priorities
Strategic Research agendas (e.g. Joint Technology Initiatives, European Innovation Partnerships)
Studies, Roadmaps
Continuity/complementarities to projects portfolios of current/past FP projects,
Workshops, Conferences
Inputs from stakeholders

Analysis and Discussion within the EC services

Proposal for the annual implementation work programme

Programme Committee

Advisory Groups

Call for proposals
Learning from FP7 experience: involvement in the work programme preparation (I)

• Who can provide inputs for the WP?
  Ministries, CP Members or any other stakeholder like institutions or individual researchers /entrepreneurs

• When should the inputs be submitted?
  “Not too early and not too soon”, depending on the call planning

• How?
  Through medium to long strategies (e.g. establishment of national and international coordinated networks, scientific conferences, contacts with EU initiatives, ETPs and project coordinators, contacts with EC Scientific Officers within different EC Directorates, coordination with PC Delegations, through NCPs, etc.)

• Why?
  You already know the answer...
Learning from FP7 experience: inputs for work programmes (WP) (II)

Relevance criteria:

- European added value
- In scope with the Health Theme objectives
- Answer to European opportunities/ problems
- Relevance to European political and scientific needs
- Contribution to European commitments /external relations
- Matching other initiatives, FP7 funded projects
- Budget availability.

Propose sub-challenges areas (not “FP7 like topics”)

- Strategic importance to European competitiveness and growth
- Policy and other strategies support
- Critical action
- Support to global and/or regional challenges under EU responsibility.
- Support to the coordination of the European research ERA (including the socio-economic dimension).
Learning from FP7 experience: preparation of work programmes (WP) – annual cycle (II)

- Strategy consultation (Sept – Dec Y)
- WP discussion (Dec- Apr y+1)
- Inter-services consultation (May y+1)
- PC opinion (Jun y+1)
- WP adoption/call publication (Julyy+1)

Opportunity to contribute

Submit inputs

“Adjust” contributes

“Protect” interests

Draft WP

Impact

Annual cycle
Recalling Europe 2020 Strategy

Vision

Europe 2020 (Mar 2010)

Mission

Flagship Initiative
‘Innovation Union’

6 other Flagships

Structural Funds

http://ec.europa.eu/research/innovation-union/index_en.cfm
Europe 2020 strategy >> Innovation Union >> European Innovation Partnerships (I)

Triple win for Europe:
- enabling EU citizens to lead healthy, active and independent lives while ageing;
- improving the sustainability and efficiency of social and health care systems;
- boosting and improving the competitiveness of the markets for innovative products and services, responding to the ageing challenge at both EU and global level, thus creating new opportunities for businesses.

Increase the average healthy lifespan by two years by 2020.

3 Main areas:
- prevention and health promotion
- care and cure
- active and independent living of elderly people

6 Action Groups:
- Prescription and adherence action at regional level
- Falls Prevention
- Prevention of functional decline and frailty
- Integrated Care
- Independent Living
- Age-friendly Environments

http://ec.europa.eu/research/innovation-union/index_en.cfm?section=active-healthy-ageing
Europe 2020 strategy >> Innovation Union >> European Innovation Partnerships (II)

STRATEGIC PLAN

E.g. Of Implementation
EU research and Innovation landscape – Epilepsy Research

Medical research in the European Union

One of the objectives of the European Union is to improve the health of European citizens and boost the competitiveness of health-related industries and businesses, while addressing global health issues.

Therefore the EU fosters medical research at the European level. The main EU tools for funding research are framework programmes for research and technological development (FPs). They fund research at a transnational level and are designed to structure and integrate European-wide research, as well as build a ‘critical mass’ of expertise and excellence.

In the field of medical research the Seventh Framework Programme (FP7; 2007-2013) supports the following areas:

- brain research and related diseases,
Welcome to HealthCompetence

This website includes all projects related to life science and health supported by the European Commission since 2004. It gives visibility to organisations and scientists involved in these projects and, together with interactive search devices, facilitates the identification of potential collaboration partners and the set up of partnerships between academia and industry in health research.

HealthCompetence will also progressively give access to the research results in terms of technology offers, patents and publications.

Simple Search

Project Search
find Projects by research field, country and more

Person Search
find Organisations and Persons

EpiPGX - Epilepsy Pharmacogenomics: delivering biomarkers for clinical use

EPICURE - Functional Genomics and Neurobiology of Epilepsy: a basis for new therapeutic strategies

ARMOR - Advanced multi-paRametric Monitoring and analysis for diagnosis

EPILEPSIAE - Evolving Platform for Improving Living Expectation of Patients Suffering from IctAl Events (PT coordination)
Preparing for Horizon 2020 (I)

- **Large PPP in RTD & Innovation will continue into H2020**
  - Participate actively in consultations related to H2020 (e.g. Public-Private Partnerships)
  - Get involved in the European Innovation Partnership on Active and Healthy Ageing and on the EIT’s Knowledge Innovation Community expectably launched on this area in 2014
  - **Integrate** European networks, invest on top level collaborations

- **Market oriented topics under Societal Challenges | Basic research mainly funded under future ERC and FET**
  - **Change** your mindset for searching the right funding opportunities and adapt to the new upcoming reality
  - **Contribute** to the discussion of the EU funding landscape
Continuity vs. BREAK FROM THE PAST

- Socio-economy
- Partnering
- Research
- Business
- Competitiveness
- Advisory groups
- Single set of rules
- ERA
- SME
- KIC (EIT)
- Impact
- Innovation
- One-stop-shop
- JTI (IMI)
- PPP
- Risk
- EIP
- Partnerships
- Market
- Structural funds
- Simplification
- Internacionalization
- Excellence
- JPI
- International cooperation
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http://www.gppq.fct.pt/_7pq/contactos_ncp.php?tema=P3a-QzhCYVY-m67cDngaaUjvE-JngWsZg4_fbWn6TF4
Snapshot on Portuguese R&I epilepsy landscape (not exhaustive)

- University of Minho (BIN)
- Unidade Local de Saúde de Alto Minho, EPE - Hospital de Santa Luzia
- University of Porto (UP) (BIN)
  - Hospital de S. João
  - Hospital Geral de Santo António
- Centro Hospitalar de Trás-os -Montes e Alto-Douro, EPE - Hospital de São Pedro - Serviço de Neurologia
- University of Beira Interior (UBI)
- University of Aveiro (UA) (BIN)
  - Institute of Electronics and Telematics Engineering of Aveiro (IEETA)
  - BIAL - Portela & Cª., S.A
- University of Coimbra (UC) (BIN)
  - Faculty of Science and Tecnology (CISUC)
  - Centro Hospitalar e Universitário de Coimbra
  - IBILI - Institute for Biomedical Imaging and Life Sciences (Faculty of Medicine)
  - Center for Neuroscience and Cell Biology of UC
- Hospital de Sta Maria
- Institute of Molecular Medicine (Neurological Clinical Research Unit)
- Fundação da Faculdade de Ciências (FFC/FC/UL)
- Centro de Investigação e Intervenção Social (CIS/ISCTE)

Basic and/or clinical research (incl. clinical trials sites)

Brain Imaging Network (BIN)
Access to MRI equipment in the area of Brain Functional Imaging and high density electrophysiology

- Portuguese League Against Epilepsy (LPCE)
- Associação Portuguesa de Familiares, Amigos e Pessoas com Epilepsia (EPI)
www.epilepsia.pt