



Horizon 2020

*The EU Framework
Programme for
Research and Innovation*

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DG Research and Innovation
Health Research

2014-2020

HORIZON 2020

Research and
Innovation

1. Horizon 2020 - overview

2. Health, demographic change and wellbeing in H2020

3. Questions

Putting it all into context...

The Multiannual Financial Framework 2014-2020: Commission's proposals of 29 June 2011

- **Smart & inclusive growth (€491bn)**
 - Education, Youth, Sport
 - Connecting Europe
 - Cohesion
 - Competitive Business SMEs
 - **Horizon 2020**
- **Sustainable growth, natural resources (€383bn)**
- **Security and citizenship (€18.5bn)**
- **Global Europe (€70bn)**
- **Administration (€62.6bn)**

TOTAL: €1.025bn

What's new in R&I?

- **Commission proposal for a 80 billion euro research and innovation funding programme (2014-2020)**
 - 70.2 billion agreed – but R&I only spending area to increase significantly
- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond.

*The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)

Three priorities:

1. Excellent science
2. Industrial leadership
3. Societal challenges

Excellent science (million euro, 2014-2020)

<i>European Research Council</i> Frontier research by the best individual teams	13 268
<i>Future and Emerging Technologies</i> Collaborative research to open new fields of innovation	3 100
<i>Marie Curie actions</i> Opportunities for training and career development	5 572
<i>Research infrastructures (including e-infrastructure)</i> Ensuring access to world-class facilities	2 478

Industrial Leadership (million euro, 2014-20)

<i>Leadership in enabling and industrial technologies</i> (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	<i>13 781</i>
<i>Access to risk finance</i> Leveraging private finance and venture capital for research and innovation	<i>3 538</i>
<i>Innovation in SMEs</i> Fostering all forms of innovation in all types of SMEs	<i>619</i> complemented by <i>6 829</i> (expected 15% of societal challenges + LEIT) and <i>'Access to risk finance'</i> with strong SME focus

Societal challenges (million euro, 2014-2020)

<i>Health, demographic change and wellbeing</i>	<i>8 033</i>
<i>Food security, sustainable agriculture, marine and maritime research & the bioeconomy</i>	<i>4 152</i>
<i>Secure, clean and efficient energy*</i>	<i>5 782</i>
<i>Smart, green and integrated transport</i>	<i>6 802</i>
<i>Climate action, resource efficiency and raw materials</i>	<i>3 160</i>
<i>Inclusive, innovative and secure societies</i>	<i>3 819</i>

***Additional €1 788m for nuclear safety and security from the Euratom Treaty activities (2014-2018). Does not include ITER.**

Simplification: summary

- New **balance between trust and control – fewer audits**
- Moving from several **funding rates** for different beneficiaries and activities to just two
- Replacing the four methods to calculate overhead or «indirect costs» with a **single flat rate**
- **Successful applicants to get working more quickly:** reduction of average time to grant by 100 days (current average of around 350 days under FP7)

Strong participation by SMEs

- **Integrated approach** - around 15% of the total budget for societal challenges and LEITs to go to SMEs.
- **Simplification** of particular benefit to SMEs (e.g. single entry point).
- A **new SME instrument**, building on the SBIR model, will be used across all societal challenges as well as for the LEITs
- **'Access to risk finance'** will have a strong SME focus (debt and equity facility)

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Review – the proposal

- ❖ *Excellent science*
- ❖ *Industrial Leadership*
- ❖ *Societal Challenges*

❖ €25bn

❖ €25bn

❖ €32bn

❖ **Health demographic change
and wellbeing**

❖ **€8.5bn... €7.?**

❖ **Food, agri, maritime, bio-
economy...**

❖ **Energy...**

❖ **Transport**

❖ **Climate**

❖ **Societies...**

- **Brings together FP7 Health and
ICT Health and CIP type
projects**

- **Builds on IMI, EDCTP, AAL**

- **Also builds on FP7 activities:
programmatic approach, SME
focus, prizes, co-operative
research projects**

Parliament

28 November 2012, ITRE committee adopts four reports: Madurell, Carvalho, Ehler, Skinner with near unanimity

- **Council:**
- **Framework Programme Regulation: Partial General Approach (PGA)** reached on 31 May 2012.
- **Rules for Participation and Dissemination:** PGA reached on 10 October 2012.
- **Specific Programme:** PGA reached on 11 December 2012.

❖ Issues:

- Comitology - Strategic panel for Health?
- Splitting challenge 6, embedding SSH?
- Widening participation – ERC?
- 15% or 20% for SME?
- Real indirect costs?
- Reduce time to grant

Where are we now in health?

- ❖ *On content?*
 - ❖ **Council Partial General Agreement**
 - ❖ **Trilogue in progress**
 - ❖ *On budget?*
 - ❖ **MFF update**
 - ❖ *On governance?*
 - ❖ **Horizon boards**
 - ❖ **Programme committee**
 - ❖ **Advisory groups**
- ❖ 1.1. Understanding health, wellbeing and disease
 - ❖ 1.2. Preventing disease
 - ❖ 1.3. Treating and managing disease
 - ❖ 1.4. Active ageing and self-management of health
 - ❖ 1.5. Methods and data
 - ❖ 1.6. Health care provision and integrated care
 - ❖ IMI, AAL, EDCTP cutting across
 - ❖ Goal – agreement under Irish Presidency
 - ❖ Horizon board (internal COM) meetings on-going
 - ❖ Programme committee structure pending general agreement on how committees will be organised for implementation of all programmes under MFF
 - ❖ AG announcement published – first closure 6 March (<http://ec.europa.eu/research/participants/portal/page/experts>) – pending trilogue outcome

Where are we now in health?

- ❖ 1.1. Understanding health, wellbeing and disease
 - ❖ 1.2. Preventing disease
 - ❖ 1.3. Treating and managing disease
 - ❖ 1.4. Active ageing and self-management of health
 - ❖ 1.5. Methods and data
 - ❖ 1.6. Health care provision and integrated care
- ❖ Unravelling the complexity of health and disease (1.1)
 - ❖ Towards personalised, safe and more effective health interventions (1.2, 1.3)
 - ❖ Advancing active and healthy ageing (1.4)
 - ❖ Integrated, sustainable, citizen centred care (1.6)
 - ❖ Improving health information, data exploitation and providing an evidence base for health policies and regulation (1.5)

Proposed Work Programme Cycle

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1 (plus tentative information for 2016)		Strategic Programme				
		Work Programme 2 (plus tentative information for 2018)		Strategic Programme		
				Work Programme 3 (plus tentative information for 2020)		
						Work Programme 4

The Work Programme

- **Principles:**

- One work programme for seamlessness in Horizon 2020* (except ERC, JRC, EIT);
- 2+1 structure with budget information included;
- To be user friendly. Will make better use of web tools.
- Will include sub-challenge areas, not shopping lists of topics – less prescription
- Focus areas:
 - To be implemented by a dedicated call
 - May be contributed to by a variety of parts of H2020
 - Each should identify portfolio of actions throughout innovation cycle, incorporate different perspectives (gender, SSH, international), complement other partnerships in the area
- Co-operative projects maintained

Timeline:

- **January 2013:** **First Strategic Programme**
- **February 2013:** **First meetings of the Horizon 2020 Groups**
- **July 2013:** **Consultation of HLG MS representatives (PC?)**
- **Summer 2013:** **Draft first work programme**
- **Autumn 2013:** **Inter-service consultation and consultation of the Member States**
- **End 2013:** **Adoption of the work programme and publication of the calls for proposals.**



Thank you for your attention!

Find out more:

www.ec.europa.eu/research/horizon2020