



# HORIZON 2020

**widening participation and nurturing  
excellence in all European regions**

***Closing the innovation divide***

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# What is Horizon 2020

- Commission proposal for a 80 billion euro research and innovation funding programme (2014-20)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
  - **Responding to the economic crisis** to invest in future jobs and growth
  - **Addressing peoples' concerns** about their livelihoods, safety and environment.
  - **Strengthening the EU's global position** in research, innovation and technology

# What's new

A single programme *bringing together three separate programmes/initiatives*:

- *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)*
- **More 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.**

## Horizon 2020 will work towards ensuring broader access

- For **SMEs** - *dedicated SME projects to address societal challenges and enabling technologies*
- For **all regions** – *tailored support to policy learning, twinning, networking, complementing Structural Funds*
- For **international partners** – *broad access to Horizon 2020 (“mainstreaming”), strategic initiatives where there is mutual benefit*
- For **all forms of innovation** - *social innovation, services, pilots, stimulating demand through public procurement, standard setting*

## Societal Challenge on Inclusive, innovative and secure societies / Part 6.1.4. Closing the research and innovation divide in Europe (I)

*Significant regional disparities across Europe in research and innovation performance need to be addressed. Measures will aim at unlocking excellence and innovation and will be distinct, complementary and synergistic with policies and actions of the Cohesion policy Funds. They include:*

- Linking emerging institutions, centres of excellence and innovative regions in less developed Member States to international leading counterparts elsewhere in Europe:
  - measures include teaming of excellent research institutions and less developed regions, staff exchanges, expert advice and assistance and the development of joint strategies for the establishment of centres of excellence that may be supported by the Cohesion policy funds in less developed regions.
  - Building links with innovative clusters and recognising excellence in less developed regions, including through peer reviews and awarding labels of excellence to those institutions that meet international standards, will be considered.

## Societal Challenge on Inclusive, innovative and secure societies / Part 6.1.4. Closing the research and innovation divide in Europe (II)

- Establishing 'ERA Chairs' to attract outstanding academics to institutions with a clear potential for research excellence, in order to help these institutions fully unlock this potential and hereby create a level playing field for research and innovation in the European Research Area.
  - This will include institutional support for creating a competitive research environment and the framework conditions necessary for attracting, retaining and developing top research talent within these institutions.

## Societal Challenge on Inclusive, innovative and secure societies / Part 6.1.4. Closing the research and innovation divide in Europe (III)

- Supporting access to international networks for excellent researchers and innovators who lack sufficient involvement in European and international networks. This will include support provided through COST and National Contact Points.
- Supporting the development and monitoring of smart specialisation strategies. A policy support facility will be developed and policy learning at regional level will be facilitated through international evaluation by peers and best practice sharing.

## But also:

- A completely new approach towards supporting research and innovation in SMEs (based on the concept of the US SBIR scheme)
- A new approach to access to risk finance especially for high-growth innovative SMEs
- A major simplification effort in terms of administration and financial management

# Horizon 2020 and Cohesion Policy: differences and complementary objectives

EU R&D and Innovation Policy – future <b>Horizon 2020</b>	EU Cohesion Policy
<b>Differences</b>	
<p>Based largely on <b>individual R&amp;D and innovation Projects</b> of a pre-competitive nature aiming at advancing knowledge and fostering innovation for growth and jobs, including but not exclusively frontier <b>research (also co-funding national and regional programmes)</b></p>	<p>Based on <b>multiannual Programmes</b> aiming at increased to reduce regional disparities, including through close to the market competitive R&amp;D and <b>innovation</b> efforts</p>
<p>Awarded <b>directly to final beneficiaries</b> (firms, public and private R&amp;D centres and Universities, including national and regional governments in certain cases – Art. 185, ERA-NET etc.)</p>	<p>Awarded <b>through</b> shared management exclusively to national and regional <b>public intermediaries</b></p>
<p><b>Through transnational competitive calls</b> addressed to international groupings through peer review <b>based on excellence</b> criteria</p>	<p><b>Non competitive attribution</b> addressed to regional players <b>based on strategic planning</b> negotiation (however calls possible at national or regional level)</p>
<b>Synergies and Complementarities</b>	
<p><b>Horizon 2020</b> will focus on tackling major societal challenges, maximising the competitiveness impact of <b>research and innovation</b> (Industrial leadership) and raising and spreading levels of <b>excellence</b> in the research base</p>	<p><b>Cohesion policy</b> will focus on galvanising <b>smart specialisation</b> that will act as a <b>capacity building</b> instrument, based on learning mechanisms and the creation of critical skills in regions and Member States.</p>



European  
Commission

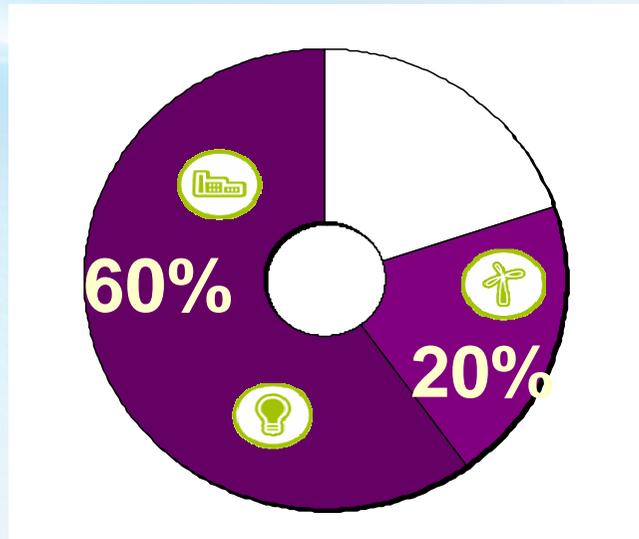
# Strengthening research, technological development and innovation:

- Enhancing research and innovation infrastructure (R&I) and capacities to develop R&I excellence and promoting centres of competence, in particular those of European interest
- Promoting business R&I investment, product and service development, technology transfer, social innovation and public service application, demand simulation, networking, clusters and open innovation through smart specialisation
- Supporting technological and applied research, pilot lines, early product validation actions, advanced manufacturing capabilities and first production in Key Enabling Technologies and diffusion of general purpose technologies

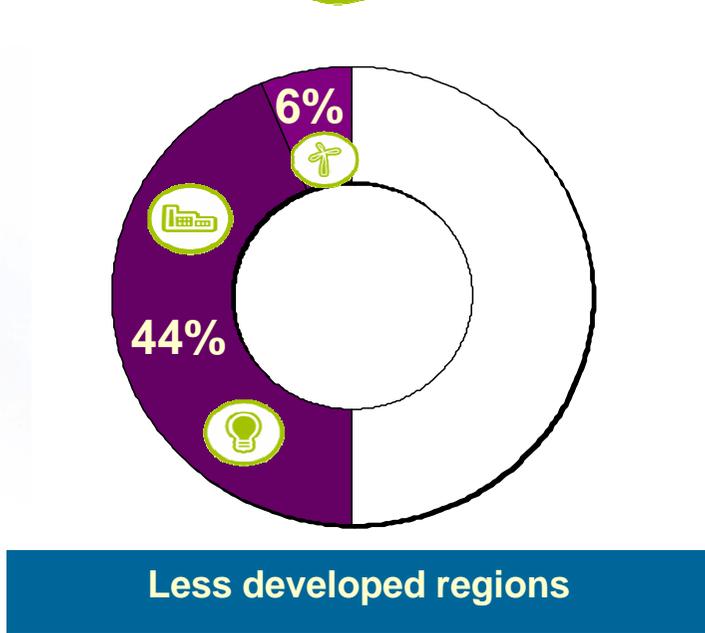
# Cohesion Policy 2014-20: Concentrating resources to maximise impact



Concentration of ERDF investments on:  
energy efficiency & renewable energy  
research & innovation  
competitiveness of SMEs



More developed & transition regions



flexibility – different regions have different needs  
special arrangements for ex-convergence regions



# Smart Specialisation

- **Regional Innovation Strategies for Smart Specialisation (RIS<sup>3</sup>)** will lead to economic transformation agendas based on 4Cs:
- **(Tough) Choices:** select few priorities on the basis of international specialisation and integration on international value chains
- **Competitive (Constructed) Advantage:** mobilize talent by matching Research & Innovation with business needs & capacities
- **Critical Mass:** provide arenas for cross-cutting links between sectors which drive specialised technological diversification; address generic technologies, based on cutting edge research, as well as their exploitation and adaptation to specific sectors
- **Collaborative Leadership:** efficient innovation systems as a collective endeavour based on public-private partnership (quadruple helix) and synergies between funding instruments from the EU, national and regional policies

# How Horizon 2020 will interface with Cohesion policy



- ERAC and SEG recommendations were actively taken on board to the maximum when designing HORIZON 2020

## HORIZON 2020 will interface with Cohesion policy:

- By providing policy support and advice to national and regional authorities for better design of research and innovation strategies
- By using networks like COST to spread excellence among scientists all over Europe (including through training and networking)
- Through a host of measures on “Closing the Innovation Divide” in Europe
- By improving information and communication between respective stakeholders and players (SF Managing Authorities; Research and Innovation agencies and FP participants) and by improving the use of existing information and intermediation networks (like the EEN, EBN etc.).
- Our **Practical Guide (online now !)** in its second edition is an important tool in this respect.

# What future for “Regions of Knowledge” and “Research Potential” ?



- **Provisions are made to integrate the objectives of these actions** under European Territorial Cooperation actions (former INTERREG) (recital 27 in draft ETC Regulation)
- Support to *Cluster Cooperation* and to *Twinning research institutions* also present in the mainstream ERDF

# What role for Regions in Horizon 2020 ?



- ❑ A different role than in FP7 but still important
- ❑ Regions have a strong role to play in Horizon 2020 and in Cohesion policy
  - ❑ They can be instrumental in organising local operations, prepare and implement strategies and projects, through smart specialisation
  - ❑ They can liaise with knowledge institutions, industry and clusters to build research and innovation capacity, while providing intelligent assistance to prospective Horizon 2020 participants

# Thanks for your attention!

Find out more:

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