

Industrial Technologies and Smart Specialisation: synergies between Horizon 2020 and European Structural and Investment Funds

Ana-Maria GRIGORE

Policy Officer, DG Research and Innovation Industrial Technologies, European Commission



Horizon 2020: Key elements

- A single programme with three pillars:
 - Excellent Science
 - Industrial Leadership
 - Societal Challenges
- Less prescriptive topics strong emphasis on expected impact
- More emphasis on innovation and involvement of industry e.g. industrial deployment of key enabling technologies, Public-Private Partnerships
- Strategic approach, two-year work programmes
- Focus areas bring together different technologies
- Simplification in access and in participation rules





KETs - NMBP in Horizon 2020



* July 2015 – Includes EIT, JRC, "Science with and to Society", "Spreading Excellence / Widening Participation", in addition to three priorities above



Policy Context

Five of the President's priorities:

- To boost jobs, growth and investment;
- To realise a connected digital single market;
- To implement a resilient Energy Union with a forward looking climate change policy;
- To develop a deeper and fairer internal market with a strengthened industrial base;
- To make Europe a stronger global actor

Strategic priorities of Commissioner Moedas:

- Open innovation, Open science,
 - Open to the world

http://ec.europa.eu/research/openvision/index.cfm







What is Smart Specialisation?

Regional framework policy for innovation driven growth that relies on an entrepreneurial process of discovery, **that can reveal domains of economic activity where a country or regions excels or has the potential to excel in the future**.

- Ex-ante conditionality for ERDF innovation investments

Source: Oecd report 2013



Why Smart Specialisation ?

- Concentration of resources on priorities, problems and core needs (no sprinkler principle, no picking the winners, yes to catalytic investments).
- Evidence-based considering all assets and problems in a region, incl. External perspective / internal / global market.
- No top-down decision, but dynamic /entrepreneurial discovery process uniting key stakeholders around shared vision.
- Mobilisation of investments and synergies across different departments and governance levels (EU-national-regional).
- > All forms of innovation not only technology driven.
- Place-based economic transformation: rejuvenating traditional sectors through higher value-added activities, cross-sectoral links, new market niches by sourcing-in and disseminating new technologies rather than re-inventing the wheel; emerging sectors





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EU R&D and Innovation Policy Horizon 2020

EU Cohesion Policy

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Differences			
H2020 does not take into account geographic specificities in allocating funding. Non-territorial , mainly transnational approach.	<i>Co-funding rates vary according to the region and programme.</i> <i>Place-based approach</i> <i>supporting economic and social cohesion</i>		
Awarded directly to final beneficiaries (firms, public and private R&D centres and Universities, including national and regional governments in certain cases – Art. 185, ERA-NET etc.), tackling the whole cycle of innovation, taking into account strategic approaches at EU level	Awarded through shared management exclusively to national and regional public intermediaries . Largely focused on improving the R&I capacities and R&I eco-systems with the objective of regional growth and place-based economic transformation towards higher added value and more knowledge- intensive activities (RIS3).		
Through transnational competitive calls addressed to international groupings through peer review based in particular on excellence criteria	Non competitive attribution addressed to regional players based on strategic planning negotiation (however competitive calls possible and rising at national or regional level)		
Synergies and Complementarities: towards a more competitive Europe			
<i>Horizon 2020</i> will focus on tackling major societal challenges, maximising the competitiveness impact of research and innovation (Industrial leadership) and raising and spreading levels of excellence in the research base	Cohesion policy will focus on galvanising smart specialisation that will act as a capacity building instrument, based on learning mechanisms and the creation of critical skills in regions and Member States. 7		





Different synergy scenarios

- **1. Upstream sequential combinations: ESIF** investments enable H2020 participation
- 2. Parallel use of funds under separate project / grant contracts that are mutually supportive
- **3.** Simultaneous use of funds in the same project
- 4. Alternative funding through ESIF of H2020 projects that were positively evaluated
- 5. Downstream sequential combination H2020 of FP project results used or further developed under ESIF





Cohesion Policy in Romania

- **Objective**: to reach a modern and competitive economy and strengthen the regional and urban development. Allocation of funds: approx. EUR 30.8 billion (CF+ERDF)
- 1.06 billion for research and innovation
- 532 million for ICT
- 3.90 billion for low-carbon economy
- 3.20 billion for competitiveness of SMEs
- <u>Smart Specialisation Strategy</u> sets priorities and directions:
 - Bio-economy,
 - Information and Communication Technologies, Security and Space,
 - Energy, Environment and Climate Change,
 - Eco-NanoTechnologies and Advanced Materials.





Where to find examples of synergies?

- A set of examples in different areas including NMBP have been published on:
- http://s3platform.jrc.ec.europa.eu/synergies-examples

These include:

- Ruđer Bošković Institute (RBI)-Zagreb-outlines upstream sequential type of synergies developed in the research area of biomedicine;
- Centre of Advanced Research in Bionanoconjugates and Biopolymers – IntelCentre of "Petru Poni" Institute of Macromolecular Chemistry of the Romanian Academy
- Research in novel materials with unusual electromagnetic properties - Institute of Electronic Materials Technology, Poland.
- Promotion of high level international research (KTU's Institute of Materials Science), Latvia
- etc





Basic Princi	oles & Concept of Synergies and
Cumulation	Recommendations for policy-makers and implementing

bodies for strategy development, programme design and implementation mechanisms; Overview of Commission support (SWD(2014)205 final)

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Anney 1	Scenarios & hands-on advice	ins
		sho
Explanations by	for policy-designers & implementers by project	quida
programme	format (also interesting for beneficiaries)	guide
(differences	1. Horizon2020	A
(unrerences,	- Standard R&I projects	
opportunities,	- ERA Chairs, Teaming & Twinning	http:/
management	 Marie Skłodowska-Curie researchers' mobility 	egiona
principles)	- ERA-NETs, Joint Programming Initiatives, Art. 185	<u>s/fin</u>
ESTE & Cohosion	initiatives and Art. 187 Joint Technology Initiatives	
	- FIT / Knowledge and Innovation Communities	
Policy	Posearch Infrastructures	
 Horizon2020 	Pro-Commercial Procurement and Public Procurement	Mod
COSME	- Fre-Commercial Frocurement and Fublic Frocurement	
• Frasmus+		of E
	- Innovation in SMES	fra
	2. COSME – Enterprise Europe Network	
services	3. ERASMUS+ - mobility, Knowledge & skills alliances	http:/
Creative Europe	4. Creative Europe –innovation in& with Creative	ompos
	Industries	moder
	5. CEF - Digital Services Platforms – e-government	model
	interop.	

Guidance on synergies among and with financial instruments: short reference guide for Managing Authorities. See: http://ec.europa.eu/r egional_policy/thefund

s/fin_inst/index_en.cf m

Modernisation of EU State aid frameworks: See:

http://ec.europa.eu/c ompetition/state_aid/ modernisation/index en.html

Guidance for end beneficiaries

Pointing beneficiaries via a 6-step checklist to possible EU funding and support sources for R&I.



Possible positive actions:

- Get in touch and discuss synergies with the ESIF Managing Authorities in your country; integrate relevant policy measures in your Operational Programmes, based on local/ national RIS3 (Smart Specialisation Strategies)
- Discuss and get informed about the 'Seal of Excellence ' to channel well evaluated but not-funded Horizon 2020 project proposals that are largely located in an OP territory to the relevant MAs and can benefit from ERDF / ESF / EAFRD / EMFF funding;
- LOOK WHERE YOUR ACTIVITIES FIT IN training under the ESF; research and any infrastructures, under the ERDF.

YOU NEED TO EXPLAIN WHY FUNDING YOUR PROJECT / INFRASTRUCTURE ETC. IS NOT ONLY VALUABLE FROM A SCIENTIFIC POINT OF VIEW BUT HOW IT HELPS THE GOALS OF THE STRUCTURAL FUNDS: CREATION OF JOBS, ECONOMIC AND REGIONAL DEVELOPMENT, CAPACITY BUILDING, CONTRIBUTION TO GROWTH AND COHESION ETC...



Stairway to Excellence national event in Romania (22/06/2016)

Discussion topics

- How to build up capacities for the excellent research & increase H2020 participation (upstream activities)
- How to better exploit research results in order to create social/economic impacts? (downstream activities)
- What are the incentives, obstacles and opportunities for policy makers and innovation stakeholders to maximise societal impact of EU R&I funding instruments? (stakeholder involvement)
- <u>http://s3platform.jrc.ec.europa.eu/-/s2e-national-event-</u> romania?inheritRedirect=true&redirect=%2F