

# Proposal Intelligence

**How to Support Researchers in Writing the Impact of  
a Horizon 2020 Proposal**

Presented at EARMA Conference in Bologna  
28th March 2019

## ***COURSE PRESENTER***

**Dr. Seán McCarthy**  
(+Sylvia McCarthy)



**HYPERION LTD.**  
Training Courses

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Website: [www.hyperion.ie](http://www.hyperion.ie)

# Hyperion Courses

**Designer and Presenter of Courses: Dr. Seán McCarthy Hyperion Ltd.**



Hyperion specialises in the development of training courses for Researchers and Research Support Staff in Universities and Research Centres. Since 1995, over 76,000 people have participated in Hyperion Training courses in 29 countries.

Hyperion provides training courses to 74 of the top 100 Universities and Research Centres in Horizon 2020.

## Getting Ready for Horizon Europe

**Target Audience:** Individuals and departments responsible for planning European research strategies in Universities, Research Centres and Research Intensive Companies

**Location of Course:** In-house courses held on-site

**Next Open Course:** Brussels, Thursday 23rd May 2019 [www.hyperion.ie/course4800.htm](http://www.hyperion.ie/course4800.htm)

## How to Write a Competitive Proposal for Horizon 2020

**Target Audience:** Researchers, Research Managers and newly appointed H2020 Support Staff

**Location of Course:** In-house courses held on-site

## How to Write the Impact of a Horizon 2020 Proposal (Pillar II / III)

**Target Audience:** Researchers and H2020 Support Staff

**Location of Course:** In-house courses held on-site

Details of all courses on [www.hyperion.ie](http://www.hyperion.ie)

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## Proposal Intelligence Reports

### Who wrote the Topic?

A Proposal Intelligence Report is an analysis of a research topic in Pillar II and III of Horizon 2020. The reports are designed to help researchers write the 'Impact' part of their proposals.

### The reports identify:

- EU Policies behind the topic
- Expert Groups consulted
- Research Projects already funded in the topic
- Impact of research results on EU policies

### Horizon Europe Intelligence Reports

These reports are currently being prepared for Horizon Europe clusters and missions.

Contact [sylvia.mccarthy@hyperion.ie](mailto:sylvia.mccarthy@hyperion.ie) for more details on Hyperion's Proposal Intelligence Reports.

Details of all courses on [www.hyperion.ie](http://www.hyperion.ie)



## Next Open Course

### Getting Ready for Horizon Europe

**Location of Course:** Hotel Leopold, Brussels

**Date:** Thursday 23rd May 2019  
(10:00 to 13:30)

**Details:** [www.hyperion.ie/course4800.htm](http://www.hyperion.ie/course4800.htm)

### Course Content:

- 1: From Horizon 2020 to Horizon Europe
- 2: The Formal Process for Preparing Horizon Europe
- 3: Participating in the Decision Making Process (Lobbying)
- 4: EIC (European Innovation Council)
- 5: European Partnerships
- 6: Horizon Europe Synergies with other EU Programmes
- 7: Research Support Services for Horizon Europe

**Course Presenter:** Dr Sean McCarthy

Booking details on [www.hyperion.ie](http://www.hyperion.ie)

Hyperion Ltd., Main Street, Watergrasshill,  
Co-Cork, T56 CC93, Ireland

## **Proposal Intelligence**

### **How to Support Researchers in Writing the Impact of Horizon 2020 Proposals**

#### **PRESENTERS**

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**Sylvia McCarthy Hyperion Ltd.**  
([sylvia.mccarthy@hyperion.ie](mailto:sylvia.mccarthy@hyperion.ie))

## **COURSE CONTENTS**

<b>1</b>	<b>Background to Impact in Horizon 2020</b>
<b>2</b>	<b>Impact in Horizon 2020 (Pillar II and III)</b>
<b>3</b>	<b>Proposal Intelligence for Horizon 2020</b>
<b>4</b>	<b>Proposal Intelligence for Horizon Europe</b>
<b>5</b>	<b>Guide for Research Support Staff on ‘Impact’</b>

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## Background of Presenters

### **Dr. Seán McCarthy**

Seán specialises in the design of training courses for researchers and research support staff. Since 1995, over 76,000 researchers and research support staff have attended his courses in 29 countries. In 2017 the European Commission published the list of the top 100 research Organisations in Horizon 2020. Seán McCarthy has delivered training courses in 74 of these top 100 research Organisations.

Seán has a PhD in Engineering from University College Cork (Ireland)

### **Sylvia McCarthy**

Sylvia is an EU Policy Analyst. Based in Brussels since 2008, Sylvia has worked in the European Parliament and various EU consultancies and representations.

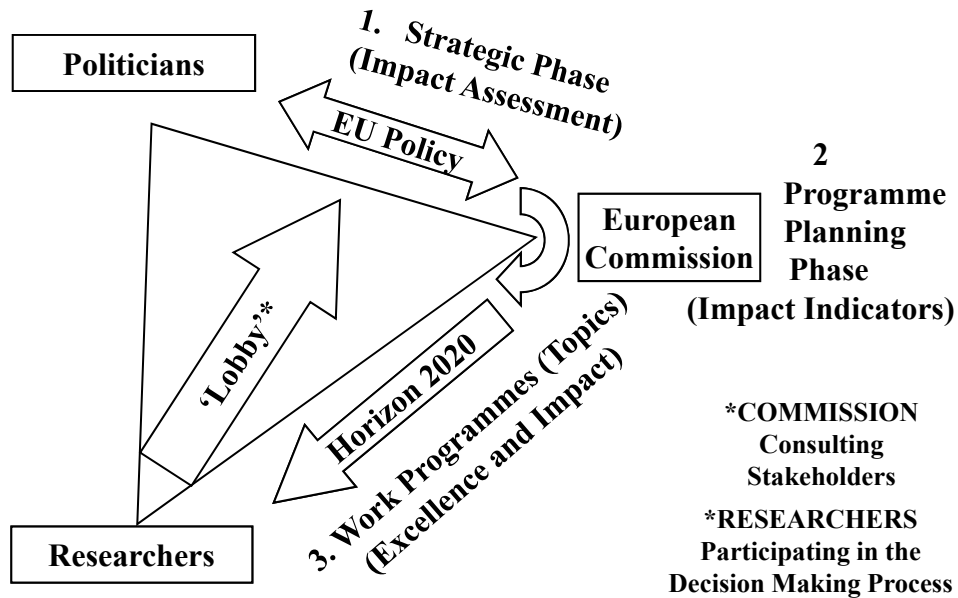
Sylvia has a Bachelor's degree in European Studies (University College Cork, Ireland) and a Master's degree in International Politics and Europe (University of Warwick, UK).

[www.hyperion.ie/seanmccarthy.htm](http://www.hyperion.ie/seanmccarthy.htm)

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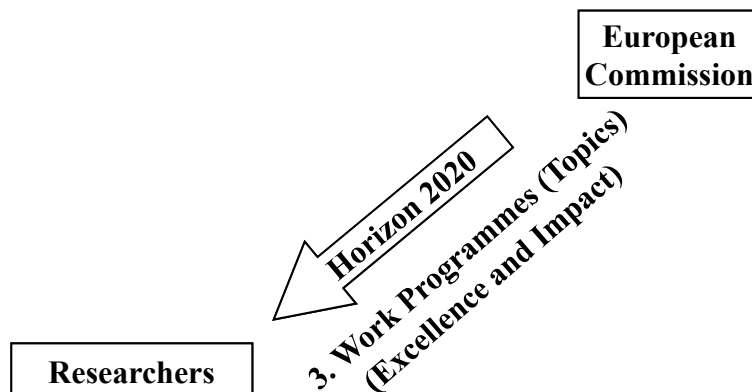
## From Policy to Programmes to Projects



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## What the Researcher Sees !



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## Horizon 2020 (From EU Policy to Programmes)

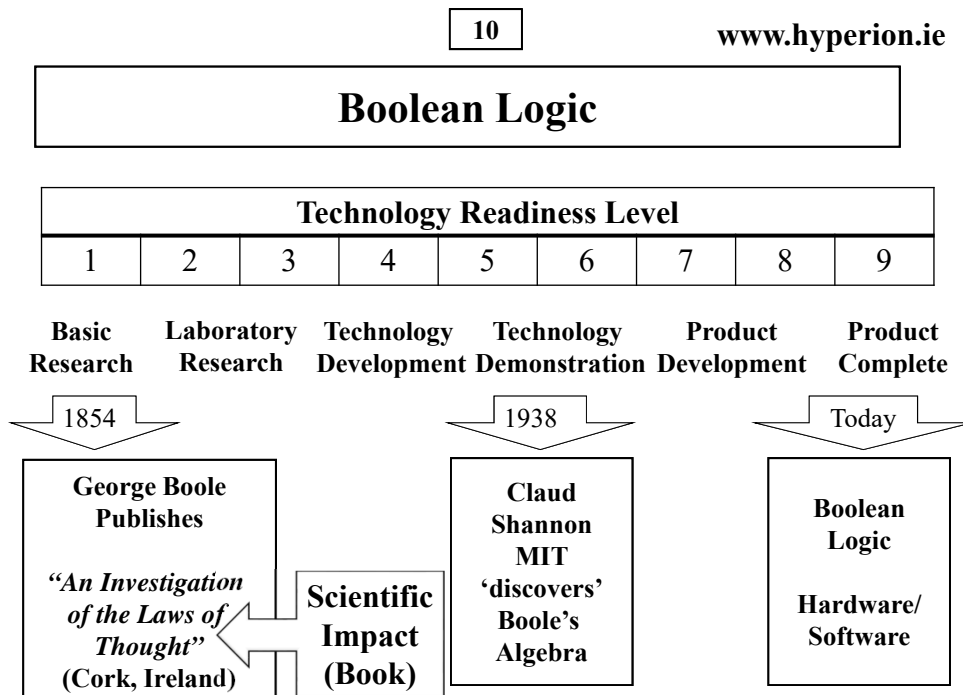
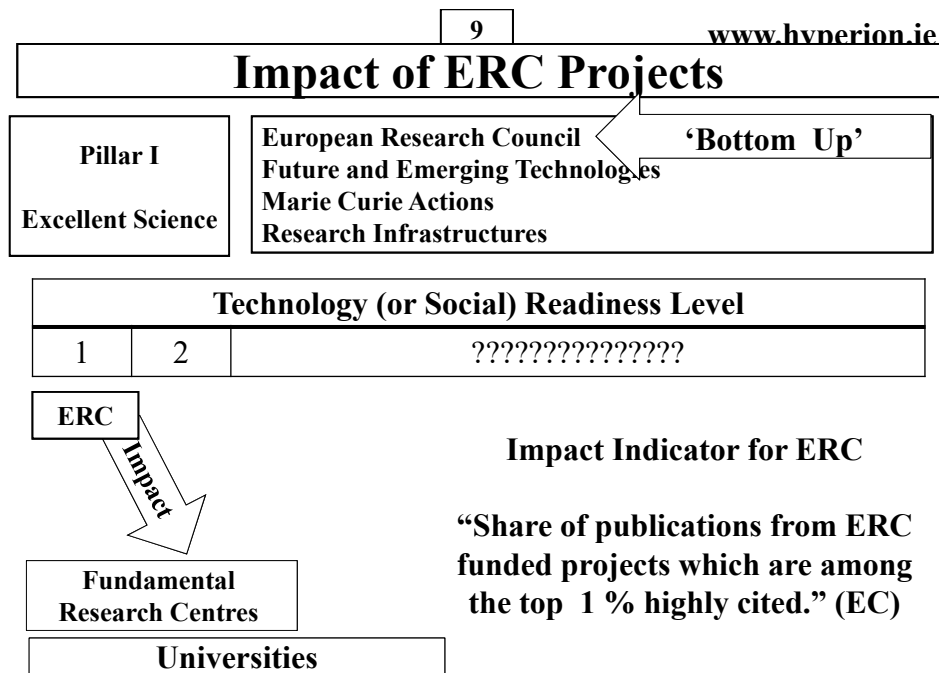
<b>Pillar I</b>  <b>Excellent Science</b>	<b>European Research Council</b> <b>Future and Emerging Technologies</b> <b>Marie Curie Actions</b> <b>Research Infrastructures</b>
<b>Pillar II</b>  <b>Industrial Leadership</b>	<b>Leadership in enabling and industrial technologies (LEIT):</b> <ul style="list-style-type: none"> <li>• <b>Information and communication technologies (ICT)</b></li> <li>• <b>Nanotechnology, Advanced Materials, Biotechnology, Advanced Manufacturing and Processing (NMBP)</b></li> <li>• <b>Space</b></li> </ul> <b>Innovation in SMEs</b> <b>Access to Risk Finance</b>
<b>Pillar III</b>  <b>Societal Challenges</b>	<b>Health, demographic change and wellbeing</b> <b>Food security, sustainable agriculture, marine, bio-economy</b> <b>Secure, clean and efficient energy</b> <b>Smart, green and integrated transport</b> <b>Climate, Environment, resource efficiency &amp; raw materials</b> <b>Innovative, Inclusive, Reflective Societies</b> <b>Secure Europe</b>

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## Top-Down vs. Bottom Up Programmes

<b>Pillar I</b>  <b>Excellent Science</b>	<b>European Research Council</b> <b>Future and Emerging Technologies</b> <b>Marie Curie Actions</b> <b>Research Infrastructures</b>	<b>‘Bottom Up’ Proposals</b>
<b>Pillar II</b>  <b>Industrial Leadership</b>	<b>Leadership in enabling and industrial technologies (LEIT):</b> <ul style="list-style-type: none"> <li>• <b>Information and communication technologies (ICT)</b></li> <li>• <b>Nanotechnology, Advanced Materials, Biotechnology, Advanced Manufacturing and Processing (NMBP)</b></li> <li>• <b>Space</b></li> </ul> <b>Innovation in SMEs</b> <b>Access to Risk Finance</b>	<b>‘Top-Down’ Proposals</b>
<b>Pillar III</b>  <b>Societal Challenges</b>	<b>Health, demographic change and wellbeing</b> <b>Food security, sustainable agriculture, marine, bio-economy</b> <b>Secure, clean and efficient energy</b> <b>Smart, green and integrated transport</b> <b>Climate, Environment, resource efficiency &amp; raw materials</b> <b>Innovative, Inclusive, Reflective Societies</b> <b>Secure Europe</b>	<b>‘Top-Down’ Proposals</b>



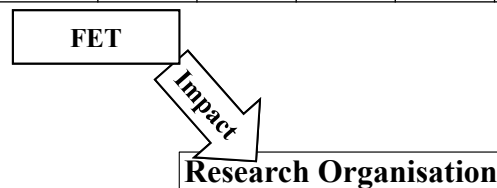
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## Impact of FET Projects



Technology (and Social) Readiness Level								
1	2	3	4	5	6	7	8	9



Research Intensive Companies

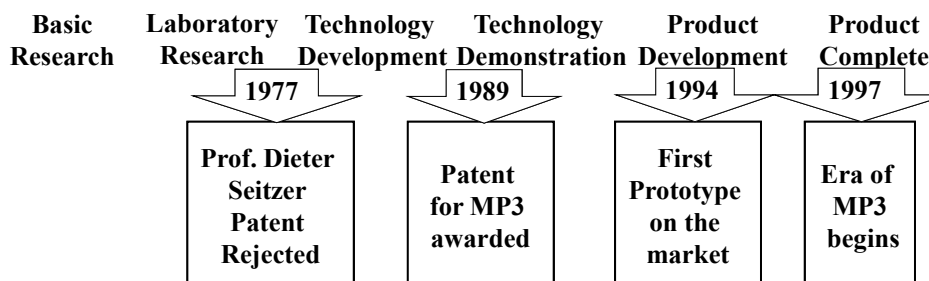
“Initiating a radically new line of technology.”  
“Kick-starting an emerging innovation eco-system.”

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## MP3 Technology

Technology Readiness Level								
1	2	3	4	5	6	7	8	9



“We put in almost 15 years of hard development work between the initial concept and the finished standard”  
(Source: Fraunhofer Magazine 2.09)



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## Impact of Marie-Sklodowska-Curie Projects

Pillar I  
Excellent Science

European Research Council  
Future and Emerging Technologies  
Marie Curie Actions  
Research Infrastructures

‘Bottom Up’

### Impact on Career

**Marie Curie Actions add to researchers' employability, develop their entrepreneurship and innovation-related competences.”**

Source: Marie Curie Work Programme (H2020).

### Impact on EU Policy

**“62% of Marie Curie budget (2014-2015) was awarded to projects related to Sustainable Development”**

Source: Work Programme 2018-2020

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## Notes

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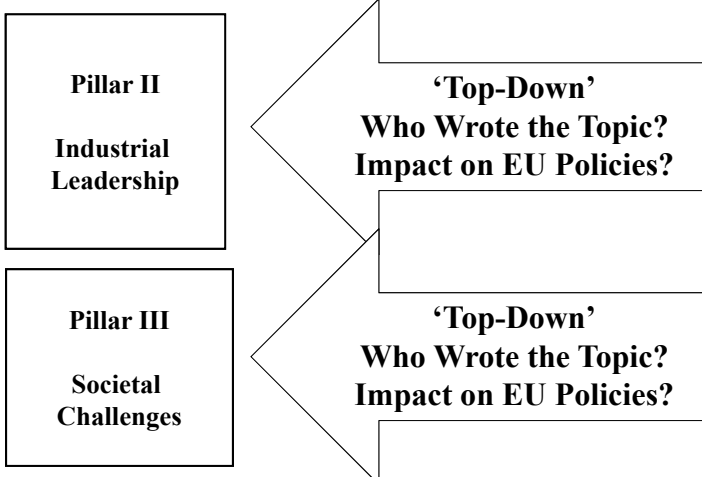
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## COURSE CONTENTS

### Background to Impact in Horizon 2020

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### Impact in Horizon 2020 (Pillar II and III)

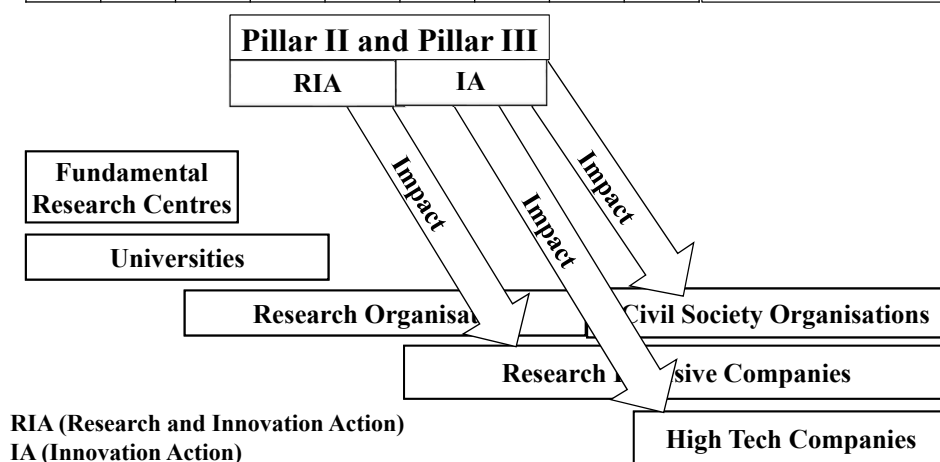


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## Impact of Pillar II/III Projects

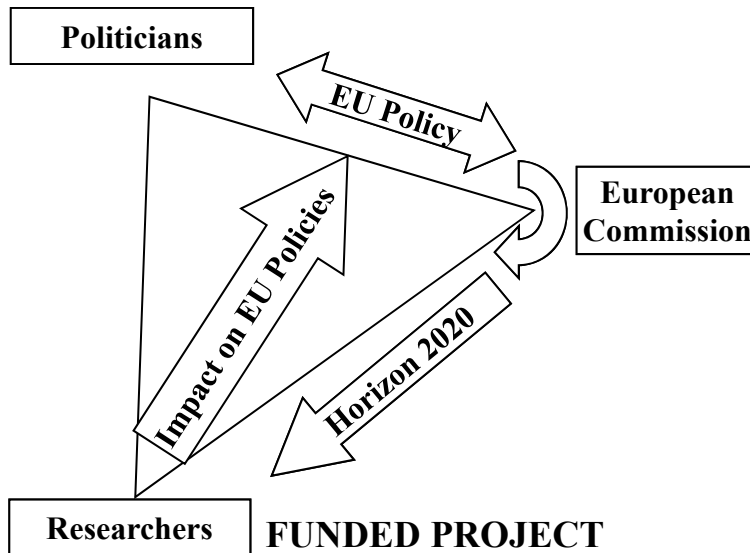
Technology (or Social) Readiness Level									End Users (Economic or Social)
1	2	3	4	5	6	7	8	9	



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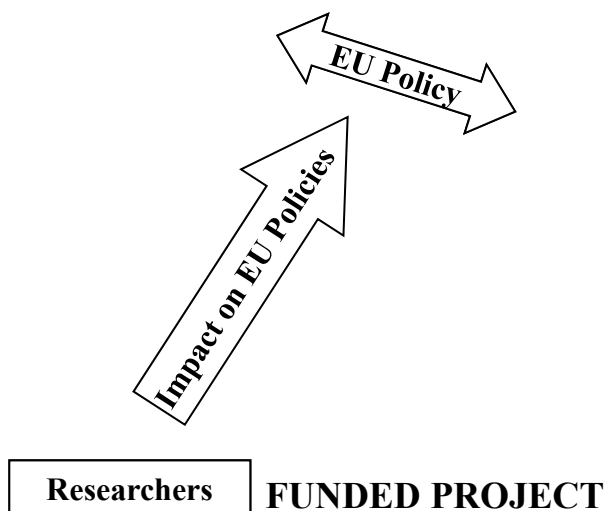
## Impact on EU Policies? (Pillar II/III)



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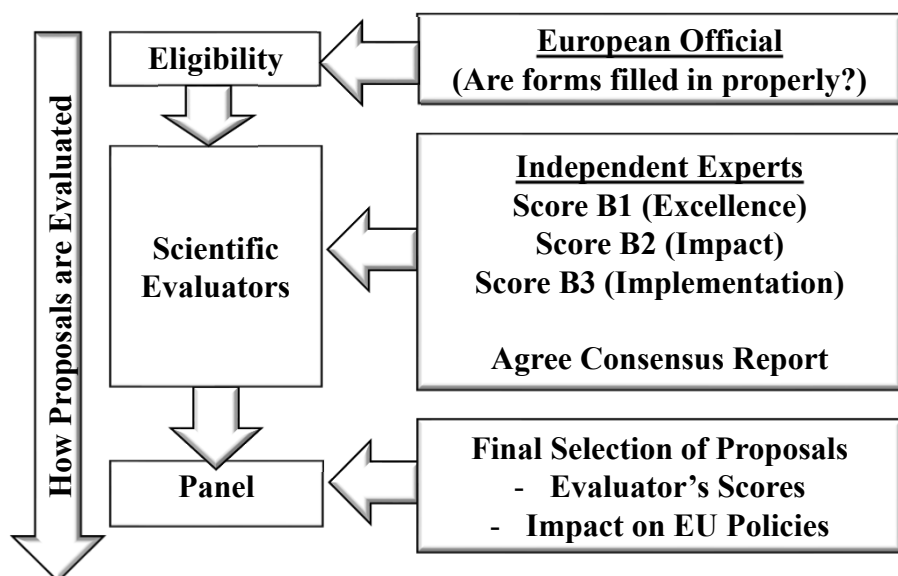
## What the Researcher Sees !! (Pillar II/III)



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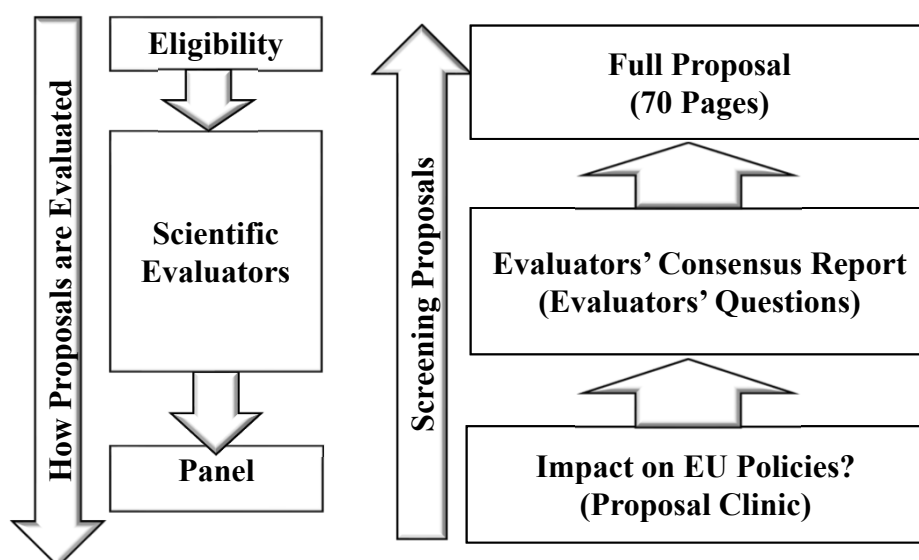
## How Pillar II/III Proposals are Evaluated



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## How to Prepare Pillar II/III Proposals



## Proposal Clinic (Pillar II/III)

Topic	Who Wrote the Topic?
Impact Questions	Background to Impact Questions?
Outputs to Impact	Impact of Project on EU Policies?
Impact Partner	Who is the 'Impact Partner'?

### The Project

Title	Title (Slogan) ACRONYM (Brand name)
Objective	What is the Research Question? TRL?
Research	Overview of the Proposed Research

## The 'Impact Partner' in Pillar II/III Proposals

Who writes?	'Impact Partner' (not written by Researcher!)
Work Package	Impact Work Package (Led by 'Impact Partner')

### Type of Project

### Profile of 'Impact Partner'

Industry	Typically person with MBA/Business Skills
Social	Political Scientist/Economist/Civil Society

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Proposal Intelligence for Horizon 2020

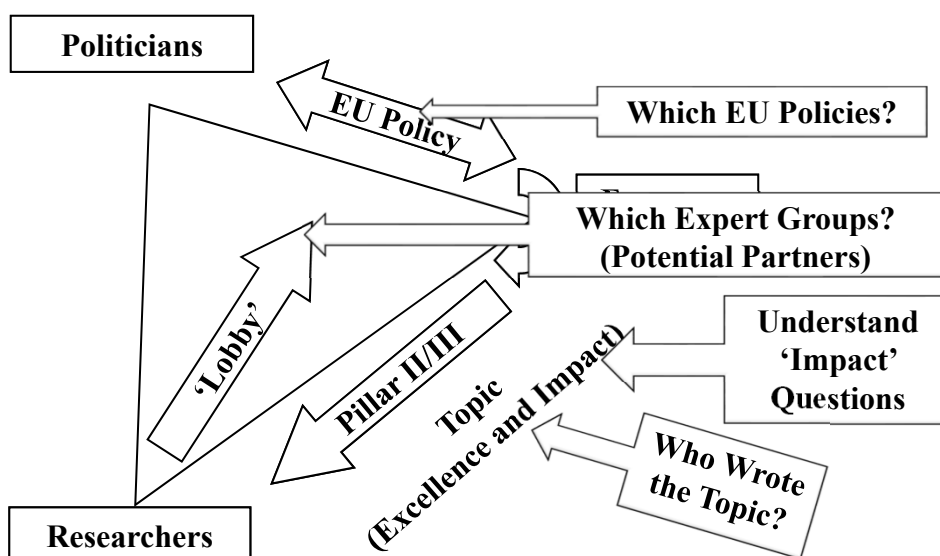
Proposal Intelligence for Horizon Europe

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## Who Wrote the Topic? (Pillar II and III)

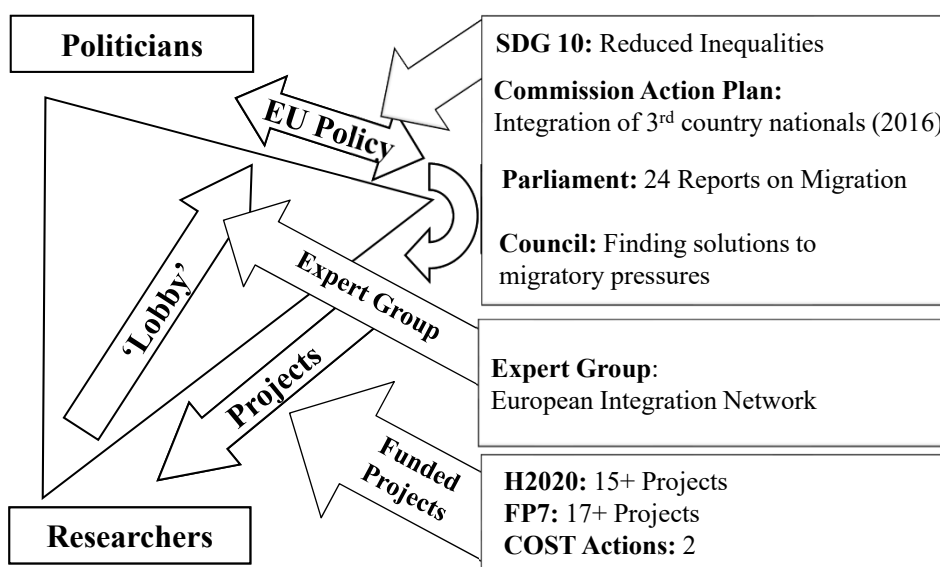


## UN Sustainable Development Goals

**GOAL 1: No Poverty**  
**GOAL 2: Zero Hunger**  
**GOAL 3: Good Health and Well-being**  
**GOAL 4: Quality Education**  
**GOAL 5: Gender Equality**  
**GOAL 6: Clean Water and Sanitation**  
**GOAL 7: Affordable and Clean Energy**  
**GOAL 8: Decent Work and Economic Growth**  
**GOAL 9: Industry, Innovation and Infrastructure**  
**GOAL 10: Reduced Inequality**  
**GOAL 11: Sustainable Cities and Communities**  
**GOAL 12: Responsible Consumption and Production**  
**GOAL 13: Climate Action**  
**GOAL 14: Life Below Water**  
**GOAL 15: Life on Land**  
**GOAL 16: Peace and Justice Strong Institutions**  
**GOAL 17: Partnerships to achieve the Goal**

## Topic MIGRATION-03-2019

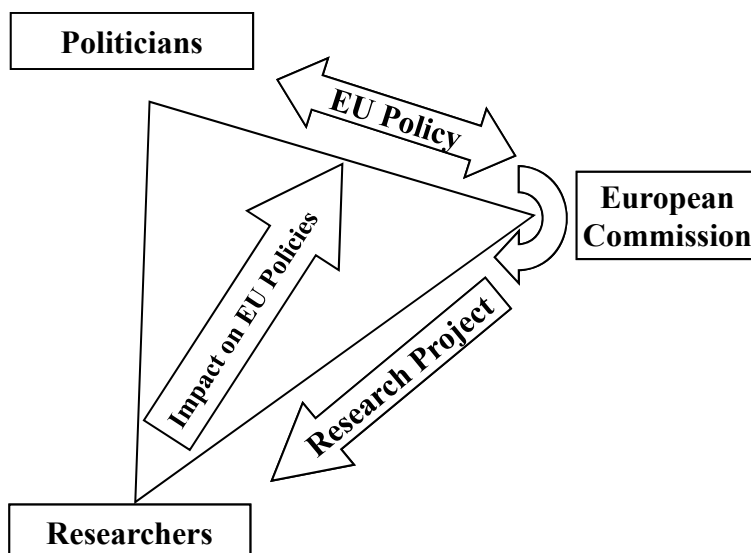
Social and economic effects of migration in Europe and integration policies



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## Impact of Research on EU Policies?

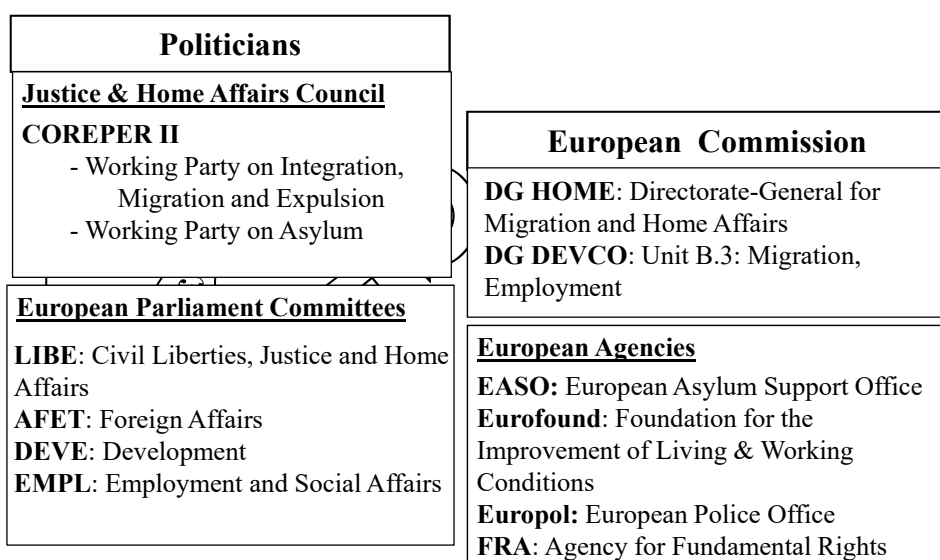


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## Impact of MIGRATION-03-2019

Social and economic effects of migration in Europe and integration policies

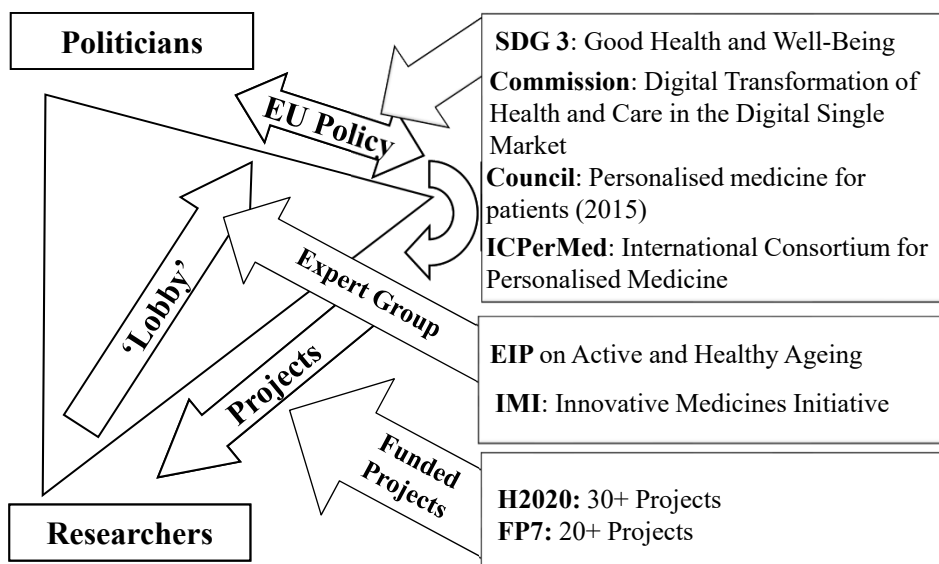




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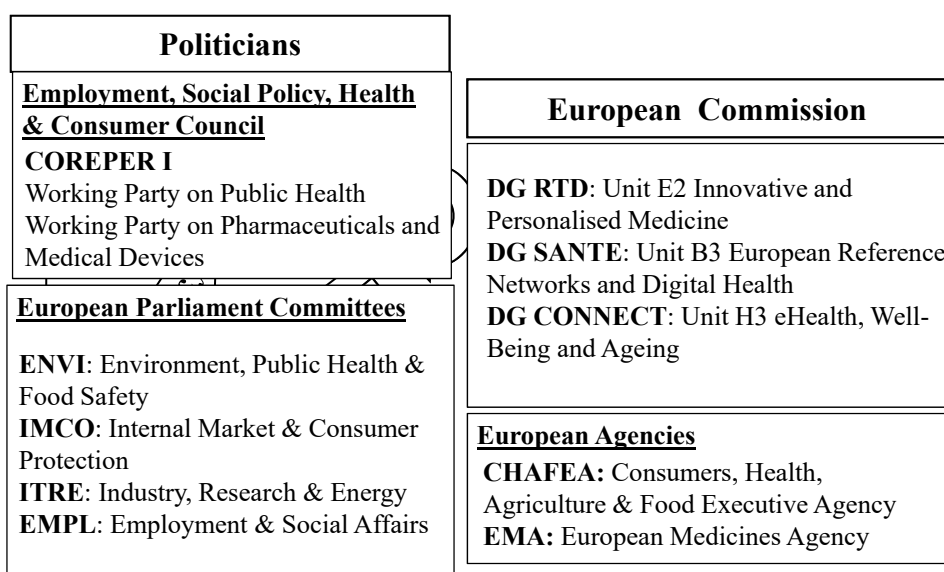
## Research Area: Personalised Medicine



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## Impact of Research on Personalised Medicine



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## Negotiating Horizon Europe (9th Dec 2018\*)

### Pillar I Excellent and Open Science

ERC (European Research Council)  
MCSA (Marie Skłodowska-Curie Actions)  
Research Infrastructures

### Pillar II Global Challenges and European Industrial Competitiveness

Clusters  
and  
Missions

1. Health, 2. Culture, Creativity and Inclusive Society,  
3. Civil Security for Society 4. Digital, Industry and Space  
5. Climate and Energy 6. Mobility, 7. Bioeconomy, Food,  
Natural Resources. Agriculture and Environment, 8. JRC

### Pillar III Innovative Europe

EIC (European Innovation Council)  
European Innovation Ecosystems  
EIT (European Institute of Innovation and Technology)

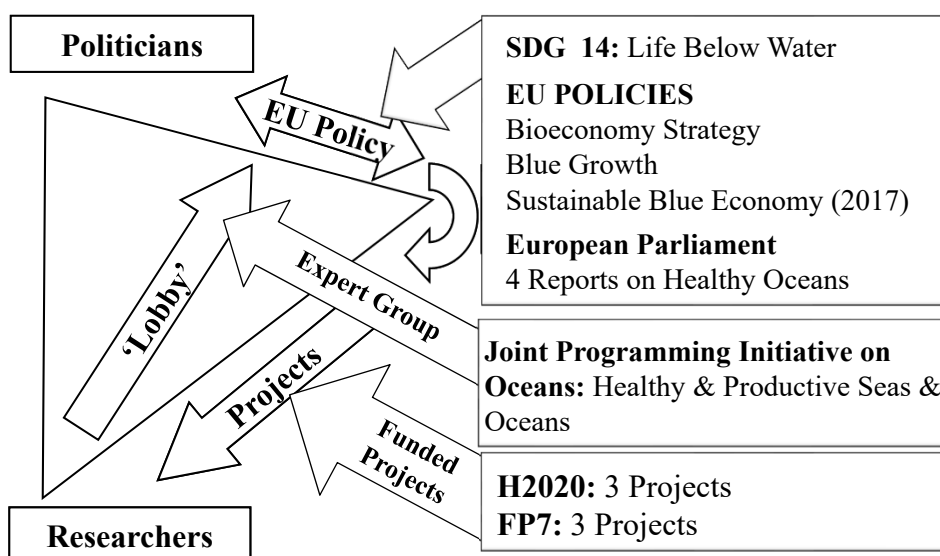
### Widening Participation and Strengthening the European Research Area

\* Titles subject to change – Negotiations still in progress

## Proposed Missions (19<sup>th</sup> February 2019)

1	Adaption to Climate Change (+ Social Transformations)
2	Cancer
3	Healthy Oceans, Seas, Coastal and Inland Waters
4	Carbon Neutral and Smart Cities
5	Soil Health for Sustainable Food

## Mission Healthy Oceans (Proposal Intelligence)



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## Support Needed by Researchers

'Filling in the Forms'

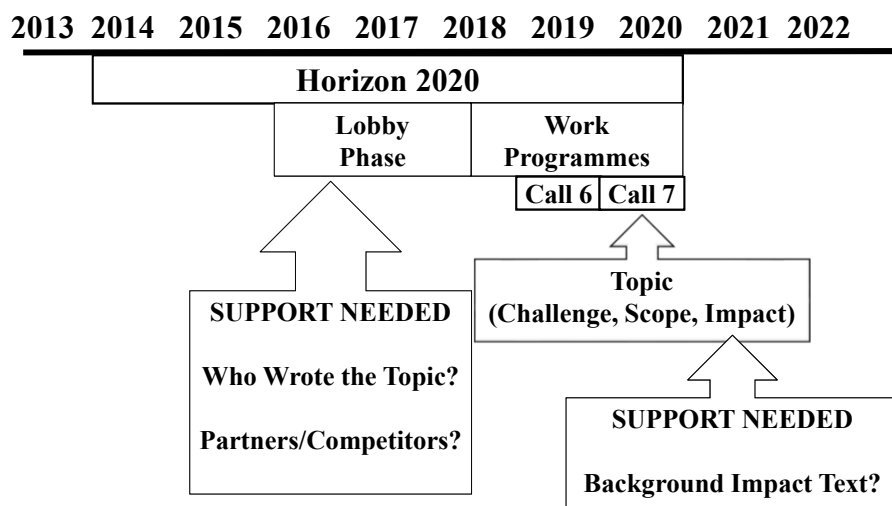
'Competitive Proposal'

Content	<p><b>Part B</b></p> <p><i>B1: Excellence</i></p> <p><i>B2: Impact</i></p> <p><i>B3: Implementation</i></p> <p>Level 2 Support</p>	<p>← Proposal Intelligence</p> <p>→ Screening Proposals</p> <p>→ Coaching/Mentoring</p> <p>Level 4 Support</p>
	<p><b>Part A</b></p> <p>- Legal Rules</p> <p>- Financial Rules</p> <p>- Procedures</p> <p><b>Organisation's Rules</b></p> <p>Level 1 Support</p>	<p><b>Streamlining Processes</b></p> <p>-Templates</p> <p>-Sample Proposals</p> <p>-Guidelines</p> <p>-Process Analysis</p> <p>Level 3 Support</p>
Rules		

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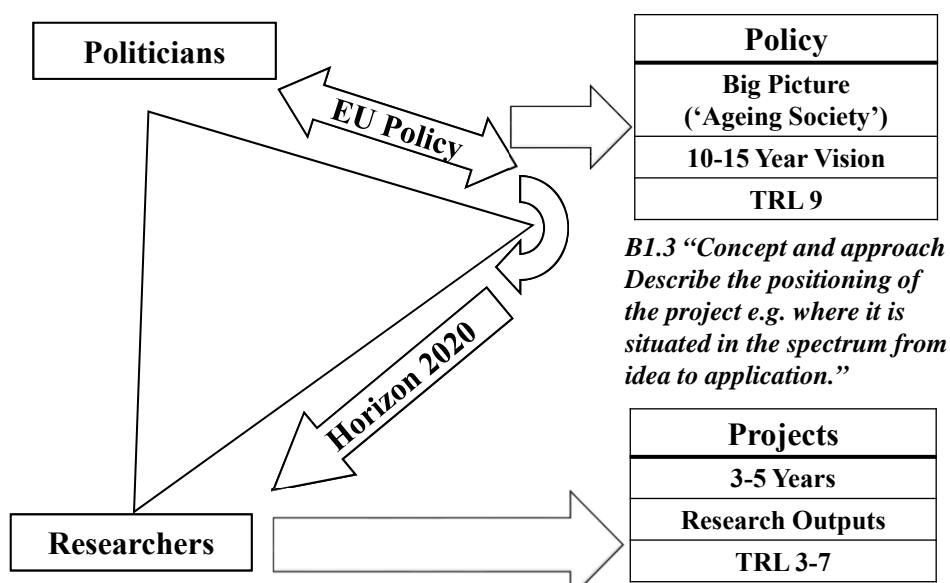
## Support in Understanding the Topic (Pillar II/III)



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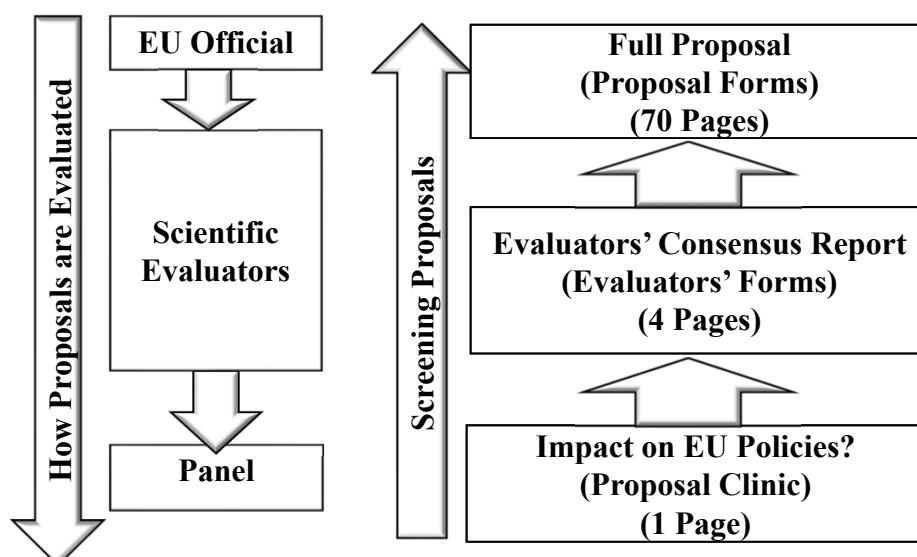
## What is the 'Big Picture'?



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## Proposal Clinics for Pillar II/III Proposals



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## Getting Ready for Horizon Europe



### Intelligence Needed for Horizon Europe (Pillar II)

Impact	Increase in Impact in Pillar II
Topics	Who Will Write the Topics?
Missions	Who will Define the Missions?
Partnerships	Who will Define the Partnerships?

\* Top-Down Programmes

# Training Courses for European Researchers

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[Online Training](#)
[Next Open Courses](#)
[Costs of Courses](#)
[Useful Websites](#)

Hyperion Ltd. provides a training programme to help research organisations design and implement their 'European Research Strategy'.

**Hyperion provides training courses to 74 of the top 100 Organisations in Horizon 2020 (EC Annual Report)**

**Hyperion provides training courses to 58 of the top 100 European Universities (THE Ranking)**

The training courses are relevant to Research Centres, Universities, research active companies and regional development organisations. Since 1995, over 76,000 researchers have participated in Hyperion's training courses in 29 countries. The courses are based on over 36 years experiences in all aspects of European research. We deliver our courses as In-house (in the host organisation) and Open (Course organised by Hyperion Ltd.).

All courses are delivered by Dr. Seán McCarthy [www.hyperion.ie/seanmccarthy.htm](http://www.hyperion.ie/seanmccarthy.htm)

## In-house Courses

Dates available for in-house courses in 2019 [www.hyperion.ie/2019.htm](http://www.hyperion.ie/2019.htm)

All courses are half-day courses (9:00 to 12:30)	Handbook Sold Out
<p><b>Workshops for Directors and Senior Support Staff</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">Getting Ready for Horizon Europe</a></li> </ul> <p><b>Training Courses for Researchers and Research Support Staff (From Telling to Selling)</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">How to Write a Competitive Proposal for Horizon 2020</a></li> <li>■ <a href="#">How to Write the Impact of a Horizon 2020 Proposal</a></li> <li>■ <a href="#">Proposal Clinics (Pillar II and Pillar III of Horizon 2020)</a></li> </ul> <p><b>Training Courses/Workshops for Research Support Staff</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">How to Support Researchers in Writing Competitive Proposals</a></li> <li>■ <a href="#">Presentation Skills for Research Support Staff (Horizon 2020)</a></li> </ul> <p><b>Finishing School for Researchers</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">How to Present R&amp;D Activities to Business Executives, Public Officials and Politicians</a></li> <li>■ <a href="#">Skills for International Business</a></li> <li>■ <a href="#">Workshop on Innovation (from Science to Shares)</a></li> <li>■ <a href="#">Horizon 2020: Opportunities for Companies</a></li> <li>■ <a href="#">Horizon 2020: Opportunities for Voluntary Organisations</a></li> </ul>	 <p>Seán McCarthy <a href="http://www.hyperion.ie">www.hyperion.ie</a></p>

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