Getting Ready for Horizon Europe

COURSE PRESENTER

Dr. Seán McCarthy
(+Sylvia McCarthy)
Getting Ready for Horizon Europe

PRESENTERS

Dr. Seán McCarthy Hyperion Ltd
Sylvia McCarthy
www.hyperion.ie

BESTPRAC/EARMA Workshop

(25th November 2020)

“Are we architects or fire-fighters?”

Jacques Delors
President of European Commission (1985-1995)
## 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/seannmccarthy.htm
### Getting Ready for Horizon Europe

#### Research Support Services for Horizon Europe

- From Horizon 2020 to Horizon Europe
- Identifying Opportunities in Horizon Europe
- Strategic Networking at a European Level

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#### Support: Getting Ready for Horizon Europe

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<tr>
<th>Research Funding</th>
<th>‘Filling in the Forms’</th>
<th>‘Competitive Proposals’</th>
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<td>Evaluation Criteria?</td>
<td>European Research Strategy</td>
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<td>Evaluation Process?</td>
<td>Identifying Opportunities</td>
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<td>Profile of Evaluators?</td>
<td>Proposal Intelligence</td>
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<td>Screening Proposal Ideas</td>
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<td>Level 2 Support</td>
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<td>Level 4 Support</td>
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<table>
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<tr>
<th>Rules</th>
<th>Part A</th>
<th>Streamlining (Efficiency)</th>
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<tr>
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<td>New Rules?</td>
<td>- Templates/Guidelines</td>
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<tr>
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<td>New Forms?</td>
<td>- Sample Proposals</td>
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<td>New Procedures?</td>
<td>- Process Analysis</td>
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<tr>
<td>Level 1 Support</td>
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<td>Level 3 Support</td>
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**Excellent Science**
Horizon Europe Work Programmes


Horizon 2020 | Horizon Europe
---|---
Work Programme | Work Programme
Call 5 Call 6 Call 7 | Call 1 Call 2

Preparing Horizon Europe

Draft Work Programmes
Policy + Experts
Work Programme
Call 3 Call 4
Policy + Experts
Work Programme
Call 5 Call 6 Call 7

Research Support Services

12 months | 9 months | 4 months
---|---|---
Lobby | Draft + Work Programme | Call

Level 5 Support
"Participating in the EU Decision Making Process"
Expert Groups
Foresight Groups

Level 4 Support
- Identifying Opportunities
- Proposal Intelligence (Pillar II)
- Strategic Networking
- Screening Proposal Ideas

Level 3 Support
Streamlining
- Templates
- Sample Proposals
- Guidelines
- Process Analysis

Level 2 Support
Excellence Impact Implementation

Level 1 Support
Legal Rules Financial Rules Procedures University Rules
Getting Ready for Horizon Europe

Research Support Services for Horizon Europe

2

From Horizon 2020 to Horizon Europe

Identifying Opportunities in Horizon Europe

Strategic Networking at a European Level

Structure of Horizon 2020

<table>
<thead>
<tr>
<th>Pillar I</th>
<th>European Research Council</th>
<th>Future and Emerging Technologies</th>
<th>Marie Skłodowska-Curie Actions</th>
<th>Research Infrastructures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pillar II</td>
<td>Leadership in enabling and industrial technologies (LEIT):</td>
<td>Information and communication technologies (ICT),</td>
<td>Nanotechnology, Advanced Materials, Biotechnology</td>
<td>Advanced Manufacturing and Processing (NMBP)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Space</td>
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<td></td>
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<td>Innovation in SMEs</td>
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<td></td>
<td></td>
<td>Access to Risk Finance</td>
<td></td>
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</tr>
<tr>
<td>Pillar III</td>
<td>Health, demographic change and wellbeing</td>
<td>Food security, sustainable agriculture and the bio-economy</td>
<td>Secure, clean and efficient energy</td>
<td>Smart, green and integrated transport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Climate action and resource efficiency + raw materials</td>
<td>Innovative, Inclusive, Reflective Societies</td>
<td>Secure Europe</td>
</tr>
</tbody>
</table>
Horizon Europe

Pillar I Excellent Science
- ERC (European Research Council)
- MCSA (Marie Skłodowska-Curie Actions)
- Research Infrastructures

Pillar II Global Challenges and European Industrial Competitiveness
- Clusters
  - 1. Health
  - 2. Culture, Creativity and Inclusive Society
  - 3. Civil Security for Society
  - 4. Digital, Industry and Space
  - 5. Climate, Energy and Mobility
  - 6. Bioeconomy, Food, Natural Resources, Agriculture and Environment
- JRC

Pillar III Innovative Europe
- EIC (European Innovation Council)
- European Innovation Ecosystems
- EIT (European Institute of Innovation and Technology)

Bottom-up versus Top-Down Programmes

Pillar I Excellent Science
- ERC (European Research Council)
- MCSA (Marie Skłodowska-Curie Actions)
- Research Infrastructures
  - Bottom-Up (Free to submit any idea)

Pillar II Global Challenges and European Industrial Competitiveness
- Clusters
  - 1. Health
  - 3. Civil Security for Society
  - 5. Climate
  - Destinations
  - Sections
  - Topics
  - JRC
  - Who Wrote the Topics?
  - Topics
  - JRC
  - Proposals must address ‘Topics’

Pillar III Innovative Europe
- EIC (European Innovation Council)
- European Innovation Ecosystems
- EIT (European Institute of Innovation and Technology)
  - Bottom-Up (Free to submit any idea)

Widening Participation and Strengthening the European Research Area

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European Consortium vs Single Partner Projects

Pillar I Excellent Science
- ERC (European Research Council)
- MCSA (Marie Skłodowska-Curie Actions)
- Research Infrastructures

Pillar II Global Challenges and European Industrial Competitiveness
- Clusters
  - 1. Health
  - 2. Culture, Creativity and Inclusive Society
  - 3. Civil Security for Society
  - 4. Digital, Industry and Space
  - 5. Climate, Energy and Mobility

Pillar III Innovative Europe
- EIC (European Innovation Council)
- European Innovation Ecosystems
- EIT (European Institute of Innovation)
- Widening Participation and Strengthening the European Research Area

From Horizon 2020 to Horizon Europe

Horizon 2020
- ERC (European Research Council)
- MCSA (Marie Skłodowska-Curie Actions)
- Research Infrastructures
- FET (Future and Emerging Technologies)

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

* Except Synergy Grants
** Except Individual Fellowships
*** Except ERA Chairs
From Horizon 2020 to Horizon Europe

Horizon 2020

- Pillar I: Excellent Science
  - ERC (European Research Council)
  - MCSA (Marie Skłodowska-Curie Actions)
  - Research Infrastructures
  - FET (Future and Emerging Technologies)
  - FET Launchpad

Horizon Europe

- Pillar III: Innovative Europe
  - EIC Pathfinder
  - EIC Transition
  - EIC Accelerator
  - European Innovation Ecosystems
  - EIT (European Institute of Innovation and Technology)

From FET to EIC Pathfinder [http://www.fetx.eu/what-is-fet/]

Horizon 2020

- Pillar II: Industrial Leadership
  - (ICT, NMPB, Space)

- Pillar III: Societal Challenges
  - (SC1 to SC6)

Horizon Europe

- Pillar II: Global Challenges and European Industrial Competitiveness
  - 1. Health
  - 2. Culture, Creativity and Inclusive Society
  - 3. Civil Security for Society
  - 4. Digital, Industry and Space
  - 5. Climate, Energy and Mobility
  - 6. Bioeconomy, Food, Natural Resources…….
From Horizon 2020 to Horizon Europe

Horizon 2020

Pillar II
Industrial Leadership

Information and communication technologies (ICT), NMPB Nanotechnology, Advanced Materials, Biotechnology
Advanced Manufacturing and Processing
Space
Innovation in SMEs
- SME Instrument
- FTI (Fast Track to Innovation)
- Innovation Support

Horizon Europe

Pillar III
Innovative Europe

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

EIT Website https://eit.europa.eu/
Widening Participation and Strengthening of the ERA

**Target Countries**

- Albania, Armenia, Bosnia and Herzegovina, Faroe islands, North Macedonia, Georgia, Moldova, Montenegro, Serbia, Tunisia, Turkey and Ukraine.

(25% of EU population, 9% GDP, 5% H2020)

**Associated Countries**

- Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia and Slovenia

**Aim**

- Reduce R&I Divide
- Scientific Excellence in Target Countries
- Fostering Participation in Horizon Europe
- Facilitate Collaborative Links with EU Partners

R&I = Research and Innovation EU (European Union)

**Initiatives**

- Twinning: Linking to 2 International Research Centres
- Teaming: Creating/Upgrading Centres of Excellence
- ERAchairs: Attract high quality people to research groups
- COST: Networks of Researchers
- ‘Hop-on’: Join existing projects
- Excellence Initiatives: Brain Circulation
- Pre-Proposal Checks: National Contact Point Support

Proposed
Getting Ready for Horizon Europe

From Horizon 2020 to Horizon Europe

Identifying Opportunities in Horizon Europe

Strategic Networking at a European Level

Technology (or Social) Readiness Level

1 2 3 4 5 6 7 8 9

‘The Unknowns’

‘Science Push’ ‘Technology Push’ ‘Demand Pull’

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Horizon Europe Funding Landscape

Pillar II
Global Challenges..
(Top Down Programme)

Health
Security
Digital
Climate
Food

Pillar I
Excellent Science
(Bottom-up)

EIC Pathfinder
ERC
ERC-POC

Pillar III
Innovative Europe
(Bottom-up)

EIT
Innovation ecosystems
EIC Accelerator

Technology (and Social) Readiness Level

1 2 3 4 5 6 7 8 9

Universities
Industry / Society

Research Centres

Acronyms

EIC (European Innovation Council)
EIT (European Institute of Innovation and Technology)
ERC (European Research Council)
ERC-POC (ERC Proof of Concept)
ESIF (European Fund for Strategic Investment)
ESIF (European Structural and Investment Funds)*
FET (Future and Emerging Technologies)
FTI (Fast Track to Innovation)
JPI (Joint Programming Initiatives)
MCSA (Marie Curie)
MC-IF (Marie Curie Individual Fellowships)
MC-ITN (Marie Curie Innovation Training Networks)
IA (Innovation Action) (Grant)
RI (Research Infrastructures)
RIA (Research and Innovation Action) (Grant)

*European Structural and Investment Funds includes European Regional Development Fund (ERDF), European Social Fund (ESF), European Maritime and Fisheries Fund (EMFF) and the European Agriculture Fund for Rural Development (EAFRD)
Getting Ready for Horizon Europe

- Research Support Services for Horizon Europe
- From Horizon 2020 to Horizon Europe
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Different Roles in the Proposal

- Partner
- Partner
- Partner
- Partner
- Partner
- Partner
- Partner

- Workpackage 1 Leader
- Workpackage 2 Leader
- Workpackage n Leader

- Scientific Coordinator + Research Manager
- Complete Proposal
- Funding and Tenders Portal

- NATIONAL SUPPORT SERVICES
  - Organisation’s Research Support Office
  - National Contact Points (NCPs)
  - National Office (Brussels)

NCPs https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp
How to Identify Strategic European Partners

- Projects: Funded Horizon 2020 Projects (Leader + Partners)
- Experts: Horizon 2020 Expert Groups
- Conferences: Key Note Speakers, Chair Person, Panel Members
- Evaluation: Proposal Evaluators or Reviewers (ERC)
- Networks: European Research Networks and Associations

European Research Associations www.hyperion.ie/euassociations.htm

European Research Strategy
(Presentation by Research Groups*)

15 Minute Power Point Presentation by Researchers

1. Projects funded in Horizon 2020
2. Missed Opportunities in Horizon 2020
3. Pillar I Opportunities (ERC, MCSA, Infrastructures)
4. Pillar II Opportunities (Clusters, Missions, Partnerships)
   (Who Wrote the Topics?)
5. Pillar III Opportunities (EIC, EIT)
6. Strategic European Partners

* Faculty, College, School, Department, Centre, Group etc.
What was the key point you got from the Workshop?

Linkedin: Sean McCarthy Hyperion
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


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<td>How to Write a Competitive Proposal for Horizon 2020</td>
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<tr>
<td>How to Write the Impact of a Horizon 2020 Proposal</td>
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<td>Proposal Clinics (Pillar II and Pillar III of Horizon 2020)</td>
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<td>Presentation Skills for Research Support Staff (Horizon 2020)</td>
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<td>How to Present R&amp;D Activities to Business Executives, Public Officials and Politicians</td>
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<td>Skills for International Business</td>
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<td>Workshop on Innovation (from Science to Shares)</td>
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<td>Horizon 2020: Opportunities for Companies</td>
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<td>Horizon 2020: Opportunities for Voluntary Organisations</td>
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[http://www.hyperion.ie/](http://www.hyperion.ie/)