IRISH RESEARCH COUNCIL
An Chomhairle um Thaighde in Éirinn

IRISH UNIVERSITIES ASSOCIATION

ITN 2019 – Impact Section

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DCU · Maynooth University National University of Ireland Maynooth · NUI Galway OÉ Gaillimh · Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin · UCC University College Cork, Ireland Coláiste na hOllscoile Corcaigh · UCD Dublin · University of Limerick

IMSCO ITN 2019 Support

- Handbook

Available @ www.iua.ie/mariecurie in “Events and Training”

- Webinars

Available @ www.iua.ie/mariecurie in “Events and Training”

- On-Site Clinics
- Proposal Reviews (Mid Nov-Dec 2018)

Proposal Template
Part B1 - max. 30 pages

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Excellence (50%)

1.1 Quality, innovative aspects and credibility of the research programme (including inter/multidisciplinary, intersectoral and gender aspects)
- Introduction, objectives and overview of the research programme
- Research methodology and approach
- Originality and innovative aspects of the research programme

1.2 Quality and innovative aspects of the training programme (including transferable skills, inter-multidisciplinary, inter-sectoral and gender aspects)
- Overview and content of the training (ETN) or doctoral programme (EID/EJD)
- Role of the non-academic sector in the training programme

1.3 Quality of the supervision
- Qualifications and supervision experience of the supervisors
- Quality of the joint supervision arrangements

1.4 Quality of the proposed interaction between the participating organisations
- Contribution of all participating organisations to the research and training programme
- Synergies between participating organisations
- Exposure of recruited researchers to different (research) environments, and the complementarity thereof

Impact (30%)

2.1 Enhancing the career perspectives and employability of researchers and contribution to their skills development

2.2 Contribution to structuring doctoral/early-stage research training at the EU level and to strengthening EU innovation capacity, including the potential for:
a) Meaningful contribution of the non-academic sector to the doctoral/research training
b) Developing sustainable joint doctoral degree structures (EJD)

2.3 Quality of the proposed measures to exploit and disseminate the results
- Dissemination of research results
- Exploitation of results and IP

2.4 Quality of the proposed measures to communicate the activities to the target audiences
- Communication and public engagement strategy

Implementation (20%)

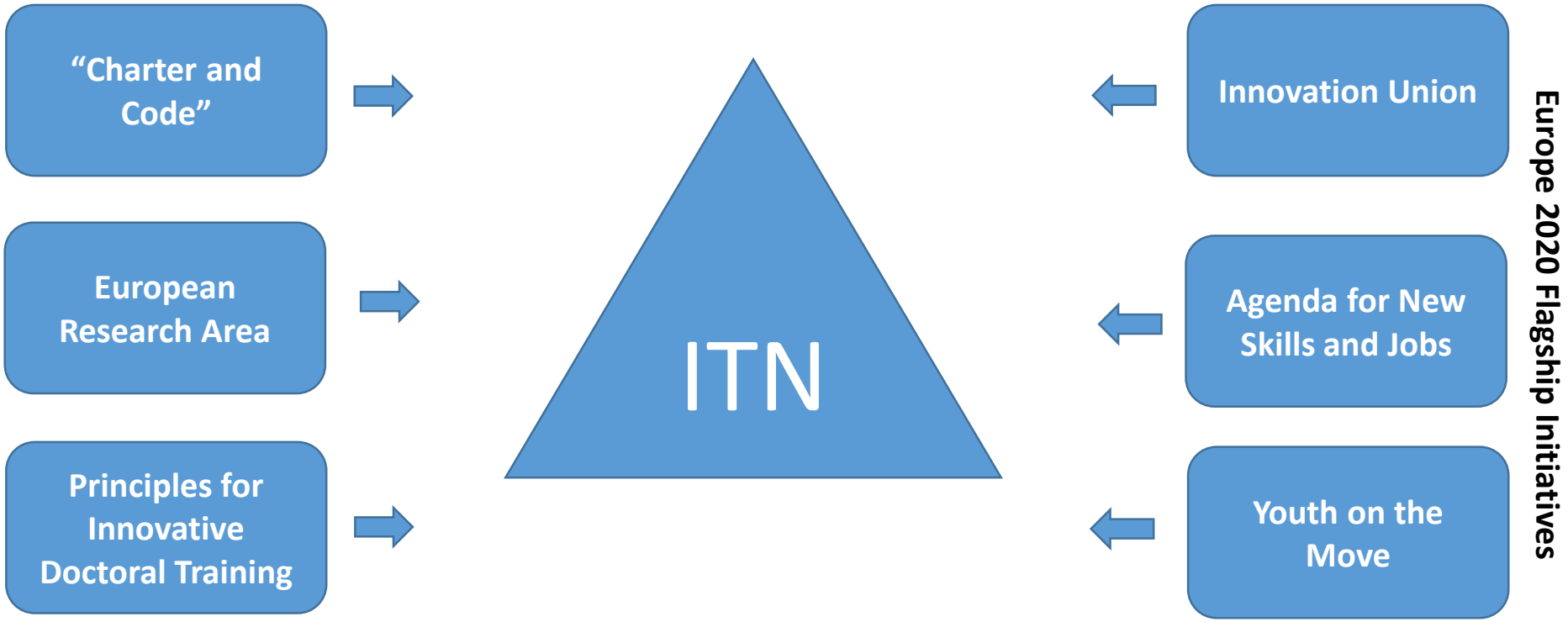
3.1 Coherence and effectiveness of the work plan
- WP description
- List of Major Deliverables
- List of major milestones
- Fellows' individual projects

3.2 Appropriateness of the management structure and procedures, including quality and risk management
- Network organisation and management structure
- Joint governing structure
- Joint admission, selection, supervision, monitoring and assessment procedures (EJD)
- Supervisory Board
- Recruitment Strategy
- Progress monitoring and evaluation of individual projects
- Risk management
- IPR
- Gender Aspects
- Data Management Plan

3.3 Appropriateness of the infrastructure of the participating organisations

3.4 Competences, experience and complementarity of the participating organisations and their commitment to the programme
- Consortium composition and exploitation of participating organisations 'complementarities
- Commitment of beneficiaries and partner organisations of the programme

Policy Context



See IMSCO ITN 2019 Handbook @ http://www.iua.ie/irish-marie-curie-office/events-training/

Expected Impact

"At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase in higher impact R&I output and more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society"

Expected Impact

"At organisation level (i.e. consortium members):

- Enhanced cooperation and better transfer of knowledge between sectors and disciplines
- Improvement in the quality of training programmes and supervision arrangements
- Creation of new networks and enhanced quality of existing ones
- Boosting R&I capacity among participating organisations
- Increased internationalisation of participating organisations"

Expected Impact

"At system level (i.e. the research system in Europe):

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- More structured and innovative doctoral training, enhanced implementation of the European Charter and Code and the EU Principles for Innovative Doctoral Training
- Stronger links between the European Research Area (ERA) and the European Higher Education Area (EHEA), notably through supporting the knowledge triangle between research, innovation and education
- Improvement in the working and employment conditions for doctoral candidates in Europe
- Increased societal and economic relevance of European higher education
- Strengthening Europe's human capital base in R&I with a new generation of more entrepreneurial and highly-skilled early career researchers
- Increase in Europe's attractiveness as a leading research destination, accompanied by a rise in the numbers of talented researchers attracted and retained from abroad
- Better quality of research and innovation contributing to Europe's competitiveness and growth"

Cross-Cutting Issues

Gender	• Gender balance in management structure and supervision • Ensuring gender balance amongst the recruited ESRs • How gender can affect the research work or dissemination/communication activities
Open Science	• Open access to research publications • Management of research data • Open publication of research data (where appropriate)
Communication & Dissemination	• Communication is not the same as Dissemination • Dissemination is towards potential users (research peers, industry, policymakers) • Communication is to multiple audiences, including the media and the public
Responsible Research and Innovation	• Adhering to ethical rules in performing the research • Ensuring that the research is performed with integrity - avoiding fabrication, falsification and plagiarism
Sustainable Development and Climate Action	• 35% of H2020 budget will address climate action • 60% of H2020 budget will address sustainable development (economic, social and natural)

2.1: Careers, employability & skills

Overall aim is to show a detailed understanding of how the ESR graduates will be employable, and by who, and why.

- Present a credible analysis of how the elements of the programme will make them employable, e.g.:
  - Research Training
  - Transferable Skills Training
  - Communication and Dissemination activities
  - Secondments and/or other opportunities for exposure to other organisations (networking)
- Emphasise the "triple i" aspects of the programme: international, inter-sectoral and inter-disciplinary (from the EU Principles for Innovative Doctoral Training - PIDT).
- Make a strong link between your programme's elements and EU policies about research careers/employability – our Handbook will help with this.

2.2: A) Structuring research training 1

i. Contribution to structuring early stage/doctoral training

- Annex of Erasmus Mundus Handbook of Excellence in Doctoral Training*: "*For 10 years, the European Higher Education Area (EHEA) has been working towards a more "European" doctorate, taking programmes into a multi-disciplinary and collaborative activity focused not just on local/national goals, but those of Europe positioning itself in a competitive global environment*" e.g. less silos, more collaboration.
- Agreed set of "rules" for programme elements: Salzburg II Principles & Principles for Innovative Doctoral Training.**
- Explain how your programme adheres to those rules e.g. take the seven Principles for Innovative Doctoral Training and explain how your ITN incorporates each of those Principles.
- Explain how your programme will help the further development of European collaborative research training programmes.
- Describe how you will continue the programme after the ITN is over.

* and **: See Handbook for links

2.2: A) Structuring research training 2

ii. Contribution of the non-academic sector

- Demonstrate how the exposure of the fellows to the non-academic sector is meaningful, i.e. it has sufficient duration and content to ensure a) the employability of the trained fellow in the non-academic sector and b) excellence and impact of the research training.
- Explain how the contribution of the non-academic sector participants to this particular programme is essential to improving inter-sectoral collaboration in research training in this research area.

2.2: A) Structuring research training 3

ii. Developing sustainable joint degree structures (EJD only)

- Key policy goal in this area is overcoming differences/fragmentation in doctoral training across Europe – bringing a degree of consistency (EM document).
- The harmonisation of institutional processes involved in developing joint degrees will help to bring consistency to the doctoral experience across Europe.
- Explain how your EJD will help with developing the consistency of the doctoral experience – unified selection, recruitment, monitoring, awarding processes etc.
- Explain how you will continue the joint degree process in the consortium after the EJD is over.

2.2: B) Strengthening EU Innovation Capacity

- Explain how the research programme will contribute to Europe's economy and/or society.
- What type of innovation could your programme and fellows deliver? New policies? New products? Who will use them?
- Link to EU research/policy goals e.g. Horizon 2020 Pillars, Research Roadmaps, EU sectoral policies (see Handbook).
- If your programme builds on an existing ITN, COST Action or other funded project explain how it does so, making clear that you propose to go beyond the previous programme.
- Recall that ideally 35% of the H2020 budget will be spent on climate action and 60% on sustainable development. Can you make a realistic link to either or both of those areas?

2.3: Dissemination and Exploitation

Dissemination strategy

- Target audience: Other researchers, potential users and the wider research and innovation community.
- Describe how you will ensure that this audience learns about the research activities.
- What is the potential impact of disseminating to them?

Intellectual Property Rights & Exploitation

a. How are the research results useful to business?
   - Outline plans to protect and exploit any IP/commercial potential arising from the programme.
   - https://www.iprhelpdesk.eu/FS_IP_management_in_MSCA-H2020
   - What is the potential impact of exploiting commercial potential/IP?

b. How are the research results useful to the wider society?
   - If applicable, how will you ensure that relevant societal actors (patients, citizens, community, voluntary sector etc.) will benefit from your project?
   - What is the potential impact of societal exploitation of the results?

2.3. Dissemination of the research results

Step 1. Identify Target Audiences

Academic researchers, industry researchers, clinical researchers, MNCs, SMEs, networks etc.

Step 2. Describe dissemination methods/deliverables

Conferences, journals, social media etc./articles, proceedings, monographs, books, technical reports etc

Step 3. Describe the impact of dissemination

Visibility, building partnerships, exploitation opportunities

2.3. Dissemination of the research results

Step 1. Identify Target Audiences

- Stakeholders who will use the results i.e. they will be involved in the exploitation.
- The members of consortium should help with identifying target audiences.
- Do not mix them up with the general public.

	Examples of target audiences
Private sector	• Multinationals, SMEs start-ups etc. • **Be specific!** what kind of organisations in this sector are interested in your results?
Academic sector	• Research centres, universities, institutes of technology, other public research bodies
Non Governmental Organisations	• associations, scientific organisations, policy/advocacy groups, charitable foundations etc. • Give examples of specific NGOs that will use the knowledge and other results coming from your project.
Public sector	• Hospitals, Education sector, government bodies etc..

2.3 Dissemination of Research Results

Step 2. Dissemination methods	
Conferences/ Events/ workshops	• Give examples for each target audience mentioned in Step 1. • How often will each ESR carry out one of these methods
Peer reviewed Journals	• Give examples of high impact journals in your research area. • Describe how many articles ESRs will produce.
Open access repository	• MUST ensure peer-reviewed scientific publications resulting from ITN funding should be on open access repositories (free of charge) • See pg. 22 in the ITN Guide for Applicants
Industry magazines and Journals	• non-academic organisations in the consortium should have examples of these.
European Commission Dissemination tools	• Horizon magazine, EU results magazine, CORDIS • See page 11 Communicating EU research and innovation

NB* All beneficiaries should provide examples of dissemination methods

2.3: Dissemination of Research Results

Step 3. Describe the impact of the dissemination methods

- Draw the attention to funding sources to highlight the need for and ultimate benefits of this research.
- Contribution to the 'Innovation Union' .
- Enhancing the visibility of the various ESRs for potential employment.
- Attract the interest of potential partners or future projects.
- Encourage talented students and scientists to join the beneficiaries involved.
- Enhance the reputation of the participating organisations at local, national and international level.
- Awareness to industrial implementers to exploit your results.
- Influence policy on a topic that the research relates to.

http://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-guide-comm_en.pdf

2.3 Exploitation of results and intellectual property

Step 1. Research results

- Explain the type of research results coming out of this project e.g. data, prototypes, products, procedures, methods, etc

Step 2. Protection of results

- Explain how you will protect the results, e.g. Patents, copyright etc.
- How have you decided to “allocate” IP in your consortium? Rules simplified at https://www.iprhelpdesk.eu/FS_IP_management_in_MSCA-H2020
- Note: IPR protection and Dissemination are not and should not be mutually exclusive! Results can be made publicly available after appropriate IP protection has taken place. Liaise with the Research Office and Technology Transfer Office of your institution to learn about the appropriate procedures.

Step 3. Exploitation of results

2.3 Exploitation of results and intellectual property

Step 3. Exploitation Methods

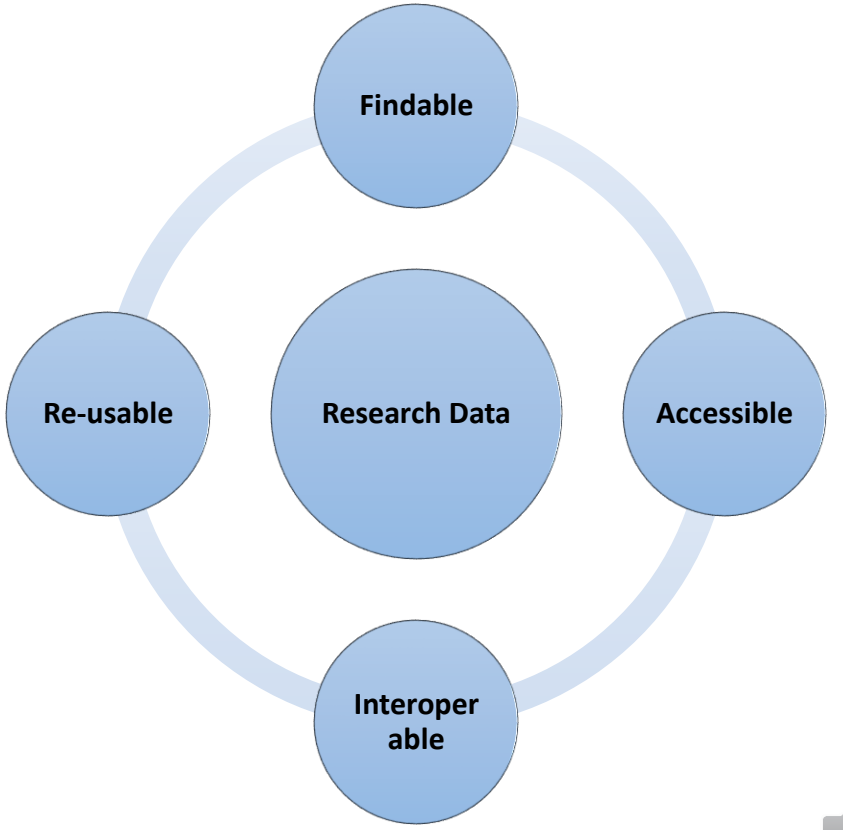
- Explain the ways in which the IP (protected results) will be exploited.
- What is the impact of exploiting in this way?
- How will exploitation be managed in the ITN e.g. technology transfer office in your organisation.

Exploitation Examples
Further research activities outside the project.
Commercialisation of a product process or service (spin offs, student entrepreneurship etc.)
Licensing / Further development in industry-multinational using the research to help production.
Standardisation activities
Societal exploitation-impact on policy and practice. Policy-makers and NGO's would exploit results in this case. Results could also encourage **social innovation**
***Data Management Plan-**improve and maximise access to and re-use of research data generated by Horizon 2020 projects

Open Research Data in Horizon 2020 (Exploitation of data in the project)

The ORD pilot aims to improve and maximise access to and re-use of research data generated by Horizon 2020 projects

- *ORD* focuses on encouraging a sound **data management plan.**
- A DMP describes the data management life cycle so that research data is **F**indable, **A**ccessible, **I**nteroperable and **R**e-usable (FAIR).
- In Section 2.3 it is encouraged to include a section describing how the project will implement good research data management.
- Can opt out of Open Data Pilot.



2.4: Communication and Public Engagement

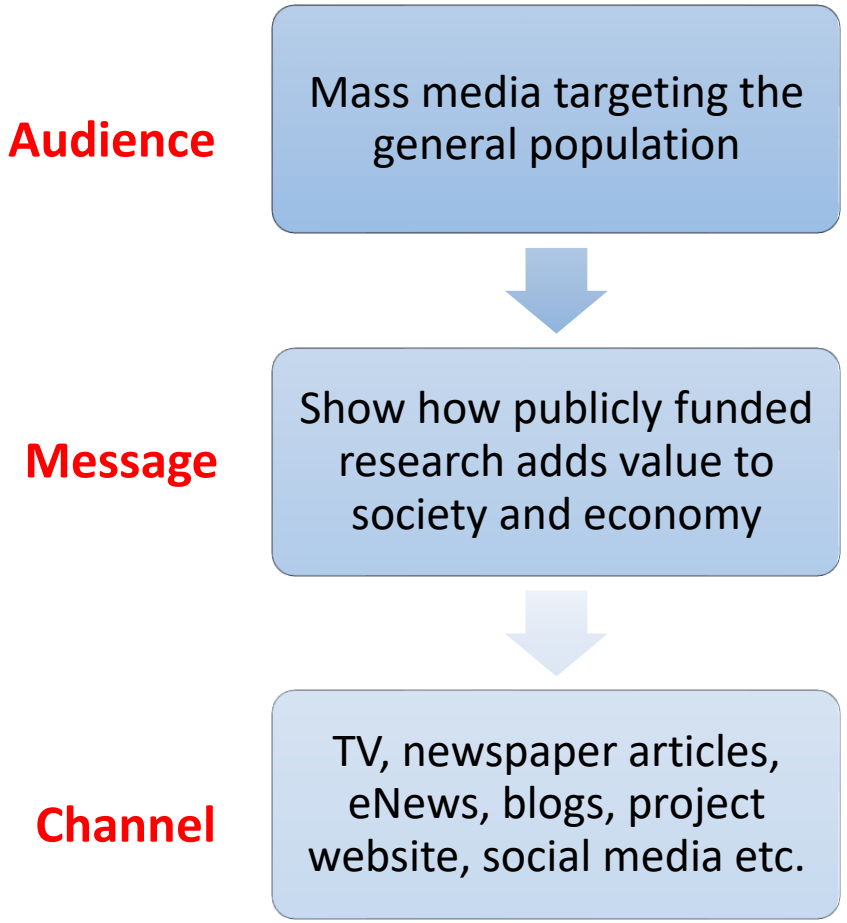
Communication strategy

- Target audience: General public, school students, patients, etc.
- Describe how you will ensure that this audience learns about the research activities.
- What is the potential impact of disseminating to them?

http://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-guide-comm_en.pdf

2.4: Communication

- Describe the audience, message, channel.
- Describe the **activities the consortium** will perform to ensure media coverage.
- Ensure the ESRs are actively involved.
- Explain who will help you with seeking media coverage e.g. Communications Office/Officer.
- Describe the potential impact of getting media coverage for the project.



2.4: Public Engagement

- Describe the audience, message, channel.
- Need to take place across the whole consortium, not just in Ireland!
- Talk to experts at your institution. See what national activities you can join in e.g. Pint of Science, SFI Discover.
- What is the potential impact of engaging the public in the activities of the ITN?

Audience

Public, young people, end users (patients)

Message

Impact on everyday life, careers in research, benefits of research for a specific end user (treatment for cancer patients)

Channel

Science events, school visits, demonstrations, career events

2.3 & 2.4 Tips

Quantifiable Targets

- Include quantifiable targets for measuring the effectiveness of dissemination, exploitation, communication and public engagement activities.

Link to other sections of the proposal

1.2 Quality and innovative aspects of the training programme	Explain how the ESR will receive skills in dissemination, communication, exploitation and IP
3.1 Description of Work Packages	Have a dedicated work package for communication, dissemination and exploitation
3.2 Appropriate management structures and procedures	Explain who will manage activities for 2.3 & 2.4

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Thank you!

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Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

UCC
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

UCD DUBLIN

University of Limerick