



Horizon 2020 Policy Support Facility

MLE - Strengthening Synergies

example(s) from Ireland

11/01/2018

Madrid

Helena Acheson



Research & Innovation Governance

- Structures put in place - driven initially more by modern public sector management principles (co-ordination, efficiency & effectiveness).
- In general, this approach ⇒ professionalism & capacity building
- “Variable Geometry”
 - Inter-Departmental Committee on S&T
 - Research Prioritisation Action Group*quasi* RIS3
 - Horizon 2020 High Level Group
 - Innovation 2020 Implementation Group

Innovation 2020

VISION

Ireland – a Global Innovation Leader driving a strong sustainable economy and a better society underpinned by:

- **Excellent research** in strategically important areas that has relevance and impact for the economy and society
- **A strong innovative and internationally competitive enterprise base**, growing employment, sales and exports
- A renowned **pool of talent** both in Ireland's public research system and in industry that maximises exchange of talent and knowledge
- A **coherent joined-up innovation ecosystem**, responding to emerging opportunities, delivering enhanced impact through the creation and application of knowledge
- An **internationally competitive research system** that acts as a magnet and catalyst for talent and industry

Synergies are not explicit



The Innovation 2020 Implementation Group comprises

- Interdepartmental Committee on STI (IDC)
- Research Prioritisation Action Group (RIS3)
- Horizon 2020 High Level Group



**Cabinet Committee
Research & Innovation**

Meets in three formations with smart agenda setting:

- A primary formation will drive and track implementation of the strategy at an overall level and will include IDC representatives as core members.
- The second formation will mirror the Research Prioritisation Action Group and will have a role in driving and reporting on implementation of various strands of the strategy at a more granular level – this group will identify what needs to be done by which funder/agency/department to deliver on higher level actions in this strategy. Membership of this formation will include IDC members plus research funders.
- The final formation will deal with EU issues, incorporating both the role of the Horizon 2020 High Level Group, and broader EU research issues, such as opportunities arising from the European Fund for Strategic Investment. Membership will include those on the research funders formation, representative bodies of the Higher Education Institutes, and InterTrade Ireland.

Cabinet Committee

Department of Jobs,
Enterprise and
Innovation

Horizon 2020 High Level Group

- Department of Agriculture, Food and Marine
- Department of Communications, Energy and Natural Resources
- Department of Education and Skills
- Department of Environment, Community and Local Government
- Department of Finance
- Department of Health
- Department of Transport, Tourism and Sport
- Dublin Institute of Technology
- Enterprise Ireland
- Environmental Protection Agency
- Health Research Board
- Higher Education Authority
- IDA Ireland
- InterTradeIreland
- Institutes of Technology Ireland
- Irish Research Council
- Irish Universities Association
- Marine Institute
- Permanent Representation of Ireland to the EU
- Science Foundation Ireland
- Sustainable Energy Authority of Ireland
- Teagasc

Science Foundation Ireland Research and Technology Centres

- Since 2013, significant investment (national/ERDF) has been made in EU Framework Programme-aligned Research and Technology Centres
- 12 SFI research centres (EU/Gov. €355m & Ind.€190m)
- Bring together partners from universities and industry
- >200 companies involved in centre-based collaborations
- EU Managers (SFI-funded) recruited into the 12 centres to explore and support opportunities for EU funding
- Centres have 15 *general* Key Performance Indicators (KPIs) from SFI, and a specific Horizon 2020 drawdown metric

SFI Position in the Landscape



Department of Jobs, Enterprise & Innovation



Fondúireacht Eolaíochta Éireann
Science Foundation Ireland

Supporting Research and Innovation for the Future



ENTERPRISE IRELAND
where innovation means business

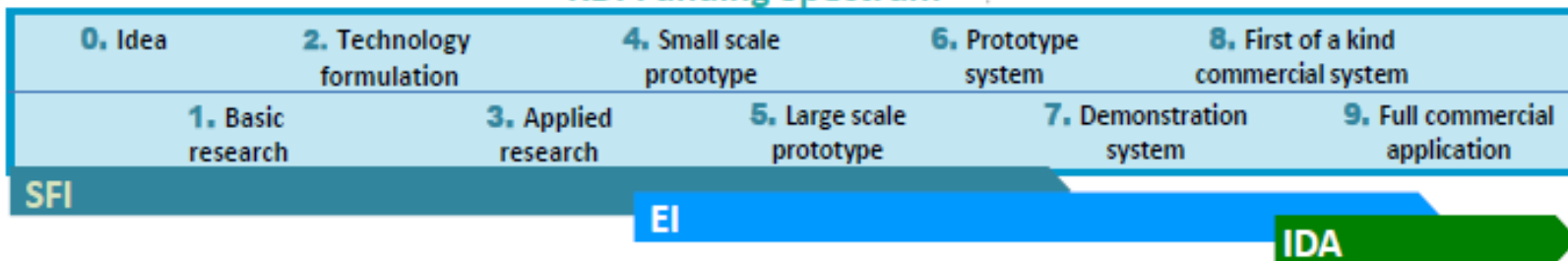
Supporting Indigenous Irish Companies



IDA Ireland

Supporting Multinational Companies in Ireland

RDI Funding Spectrum



SFI Agenda 2020

Excellence and Impact



1 To be the **Best** science funding agency in the world at creating **impact** from **excellent** research and demonstrating clear value for money invested

2 To be the exemplar in **building partnerships** that **fund excellent science** and drive it out into the market and society



3 To have the most engaged and **scientifically informed public**

4 To represent the **ideal modern public service organisation**, staffed in a lean and flexible manner, with efficient and effective management.



SFI/Industry Collaborations

There are currently **1200+** collaborations attributed to active SFI research awards - (650 MNCs, 561 SMEs)



Fondúiríocht Eolaíochta Éireann
Science Foundation Ireland



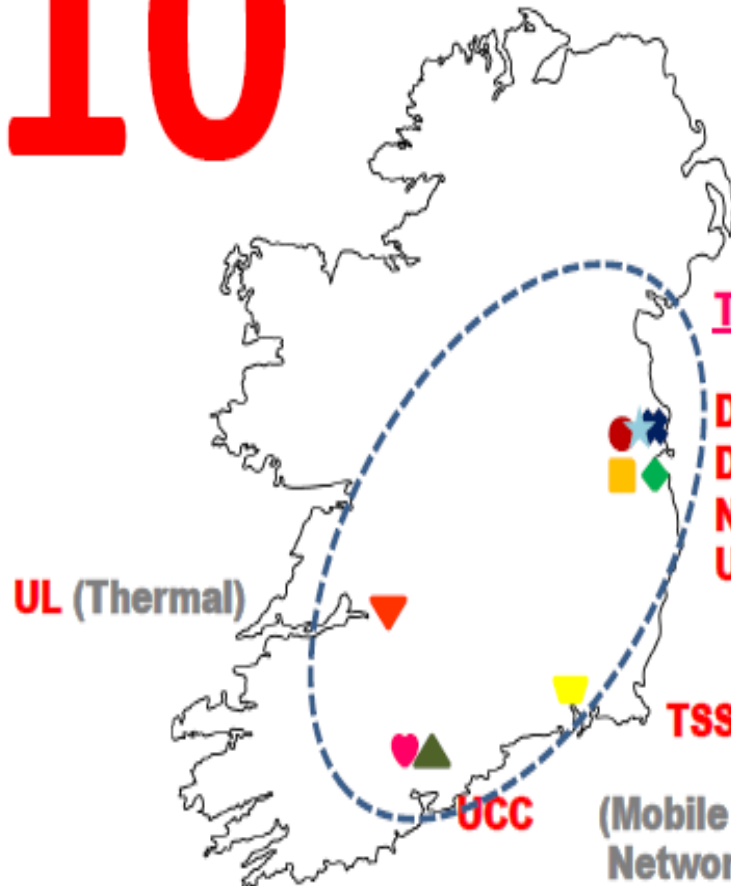
CONNECT

- **CONNECT** is a National Research Centre which undertakes research into the telecommunications *Networks of the Future*.
 - SCOPE: *Services & Applications, Fixed & Mobile Networks, IoT*
 - 60% Targeted Projects: *Collaborative Research Projects (with Industry Partners)*
 - 40% Platform Research: *Blue Skies Research*
- **CONNECT** consists of 10 Institutions and >35 Industry partners.
TCD is the Lead Research Partner
- **Centre Funding**
 - 50%: Science Foundation Ireland (SFI) as the agency responsible for the administration of PUBLICALLY FUNDED RESEARCH IN IRELAND provides ~50% of the centre funding
 - 50%: The other ~50% is provided by industry partners (cash & in-kind).
- **All collaborative projects with industry partners must comply with EU STATE AID RULES**

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THE CONNECT Institutional TEAM

10 ACADEMIC Institutions
10 Principal Investigators
35 Funded Investigators
120 RESEARCHERS (Post Doc + PhD)



UL (Thermal)

TCD (Wireless/Optical Networking/ Cognitive & Software Radio/ Thermal for RF /Media Applications)
DIT (Antennas)
DCU (Optical Systems)
NUIM (RF Design/Networking/ Privacy)
UCD (RF Design Microelectronic Design)

TSSG (Network Management/ SDN/ Cloud Computing)

UCC (Mobile Communications/Sensor Networks/ Network Security, Network Optimisation)

Tyndall (Smart Sensors & Microelectronics/ Communications)

CIT (IoT Services/ Sensor Networks/ Telecommunications)

- Future Apps & Services
- Future Fixed & Mobile Networks
- Internet of Things

Start date: 2015 / value: 50 Million ++ / duration: 6 years

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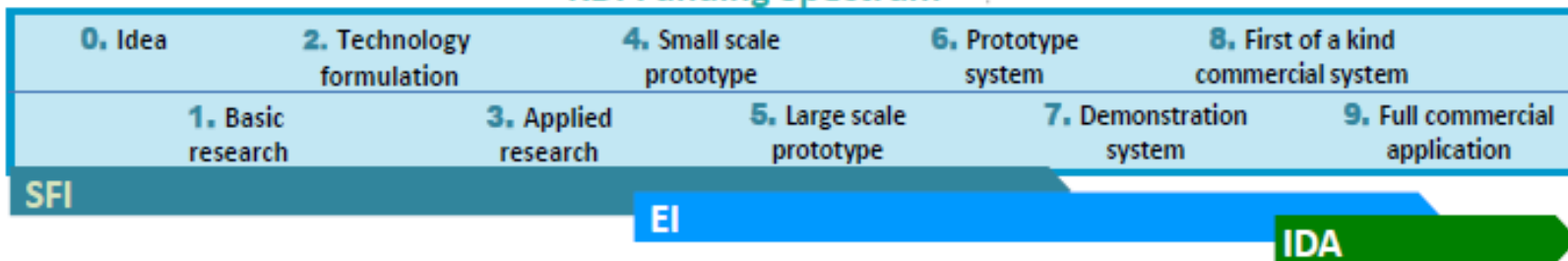
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RDI Funding Spectrum



Enterprise Ireland and IDA Ireland supported Technology Centres

- Currently 15, joint-funded collaborative entities to enable and encourage Irish companies and MNCs to collaborate on research projects with research institutions.
- These centres, with their experienced personnel and dedicated EU Managers, are able to provide supplementary support to their industry partners in addition to the National Support Network, and
- Thus have a very significant role to play in boosting industry engagement in the Framework Programmes.

Centres are important for Ireland's participation in Horizon 2020

- They represent significant state and industry investment in relevant areas, including alignment with National Research Priority Exercise (RIS3) areas
- Their focus on impactful research suits both national and Horizon 2020 priorities
- Provide dedicated coverage of mid-to-high technology readiness levels (TRLs) to complement the research base
- Provide a clear route for articulating research impact
- Provide a clear route for industry involvement
- May have a catalysing effect for increasing this in Horizon 2020 (as compared with FP7)



An Roinn Post, Fiontar agus Nuálaíochta
Department of Jobs, Enterprise and Innovation



Directory of Innovation Supports, Research Centres and Technology Centres

2016

Discover the supports to grow your business

<https://dbei.gov.ie/en/Publications/Directory-of-Innovation-Supports-Research-Centres-and-Technology-Centres-2016.html>

Message ?

- The legal mandate to implement synergies exists in the frame of H2020 and ESIF
- Requirement at national level for a dedicated role in a cross-gov context to drive synergies. The role (person/team/...) needs to be assigned the authority and the responsibility (targets?) to implement initiatives/proposals/projects that reflect the expectation contained in the (H2020 /ESIF) mandate
- A high level political signal at national level has also to be given - „this is what we want, this is what we expect“

ERDF funded programmes

- Enterprise Ireland
 - Innovation Partnerships - HEIC collaborations
 - Commercialisation Fund - designed for HEIs only
 - New Frontiers - entrepreneur development
- Science Foundation Ireland
 - Research Centres
 - Infrastructure Programm incl. a provision for H2020 Research Infrastructure - Integrating Activities-Advanced Communities aligned bids
- Marine Research;
- EI and IDA Research Centres