Northern Ireland
H2020 Health/ Connected Health

Health Workshop
18 October 2017
NORTHERN IRELAND – HORIZON 2020 PRESENTATION

• Benefits of North – South Horizon 2020 partnerships
  • Michael Leonard, Department for the Economy Northern Ireland

• Northern Ireland Health expertise and partnering opportunities
  • Patricia McCrory, Horizon 2020 Northern Ireland Contact Point for Health, Queen’s University

• Northern Ireland Connected Health expertise and partnering opportunities
  • Shirley Davey, Horizon 2020 Northern Ireland Contact Point for Connected Health, Ulster University

• Support provided by Intertrade Ireland
  • Carrie Gribben, Intertrade Ireland
Strategic overview

• Department for the Economy NI provides funding for the university based Northern Ireland Contact Points (NICPs).

• Joint target to draw down €175m from projects involving Northern Ireland and ROI partners:
  o 152 applicants involved in successful NI / ROI projects across 50 separate projects.
  o 16 of 50 projects have seen individual applicants receive awards of €1m+.
  o €63.46m secured towards that overall target of €175m.
  o Success rate of 15.6% success rate V EU average of 14.68%.
Benefits of NI-ROI partnerships in H2020

1. Builds on existing relationships
   • History of co-operation, close working relationships and a wide range of existing research and innovation collaborations.
   • Provides a solid basis to develop future H2020 partnership opportunities.
     o "Collaboration has been particularly advantageous as we had already worked with our southern partners establishing strong relationships."

2. Strong collaborative partnerships
   • Minimum of three EU Member States required to participate in Horizon 2020 projects.
   • Established north-south partnership therefore provides a strong collaborative offering to potential EU partners.
     o "Having the strategic coordinator and another partner in the north as well as two partners in the South, meant that we have five strong entities collaborating on the wider European project but based on the same island."
Benefits of NI-ROI partnerships in H2020

3. North-South support networks and funding

- Strong support network and various financial and other supports available to aid cross border Horizon 2020 collaboration.

- High degree of cooperation between the Support Networks in the Republic of Ireland and Northern Ireland - Irish Contact Points and NICPs work together closely.

- InterTradeIreland offer a wide range of supports and co-ordinating activities for cross border Horizon 2020 activities, both financial and practical advice.
  
  o “They have a wide overview of networks and contacts who are at the top of their game and they can assist with consortium building and putting together a strong, watertight proposal. Their network is extensive and comprises the cream of the crop.”

  o “When thinking of investigating European funding, such as the current Horizon 2020 streams, it is through organisations, such as InterTradeIreland, that the first seeds of consortium-building can be sown.”
Benefits of NI-ROI partnerships in H2020

4. Cultural similarities

• No language barrier and working approaches tend to be similar.
  o “There are definitely cultural similarities to working with a partner on a cross-border basis, as we often have the same work/life outlook in the North and South.”
  o “We are closely aligned in how we work and the transfer of knowledge and skills between us is simpler to manage as there are no language barriers.”

5. Logistics / geographical proximity

• Travel time is much quicker and more straightforward, saving both time and money.
• Proximity helps to facilitate efficient and effective communication.
  o “The simplicity and ease of working within the one island really does make it easier to have face-to-face meetings with direct communication.”
  o “Having partners on the same island is immensely beneficial as things are done much more quickly.”
• UK Government will guarantee to underwrite funding for all successful Horizon 2020 bids post-BREXIT, even when specific projects continue beyond the UK’s departure from the EU.

• Includes awards where the application is submitted before exit and is subsequently approved after exit.

• Post BREXIT access arrangements to be confirmed - positivity on UK and EU sides that a mutually beneficial arrangement will be reached.

• UK position – develop a more ambitious and closer partnership between UK and EU than currently exists between EU and any other non-EU country.

• Lamy EU expert report - recommend that the UK should have “full and continued engagement” to Horizon 2020’s successor.
Summary

• Many benefits of North – South collaboration on Horizon 2020.
• High success rates for projects involving NI and ROI partners.
• Northern Ireland “remains open for business”.
• Look forward to continuing to develop the existing close relationships with our southern colleagues, in order to form high quality partnerships to deliver maximum success for both jurisdictions.
N Ireland, Health - Horizon 2020

- H2020 Health projects: €6.9million
- SC1 participation: €4.2million
N Ireland, Health - Horizon 2020

- Other H2020 Health
  - FTI-Pilot €323k
  - MSCA €2.3million
  - SME Instrument €50k

**OcuTher** - Ocular drug development
**TRACT** - Oesophageal cancer
**TransPot** - Prostate cancer
**PROTECTED** - Endocrine disruptors
**MIDAS** – Modelling for drug discovery
**3D-NEONET** – Drug discovery & delivery

**GLAUrious**: Aims to clinically test and validate a novel laser device for glaucoma treatment

**ProAxsis Ltd**
To develop tests to assist routine monitoring of patients with chronic disease
N Ireland, Health - Horizon 2020

• **iABC**: to advance the development of two inhaled antimicrobials for treatment of Cystic Fibrosis (CF) and Bronchioectasis (BE)

• **MACUSTAR** – develop new tests and therapies for age-related macular degeneration

• **Harmony** – using ‘big data’ to help improve the care of patients with blood cancers (leukaemia, lymphoma, myeloma)
EIP, Active & Healthy Ageing

• Northern Ireland has ‘4 star reference site’ status

• MOIC - Medicines Optimisation Innovation Centre - Northern Health and Social Care Trust (NHSCT)

• MOIC aims to ensure better health outcomes for the population through the consistent delivery of best practice relating to the use of medicines
  • Research, Innovation, Quality Improvement, Knowledge Transfer
Northern Ireland - Health and Life Sciences

• A thriving health and life sciences sector
• Strong collaborative approach between industry, academia and clinicians
• Expertise in precision medicine, clinical trials and digital health
• R&D infrastructure includes
To date N. Ireland has been successful in securing Horizon 2020 funding for Connected Health Projects

- **PATHway**: Technology enabled behavioural change as a pathway towards better self-management of CVD [EC Contribution: €4,899,080.00, NI Funding €505,755]
- **WASTCaRd**: Wrist and arm sensing technologies for cardiac arrhythmias detection in long term monitoring [EC Contribution: €324,000, NI Funding €72,000]
- **ACROSSING**: Advanced Technologies and platform for smarter assistive living [EC Contribution: €3,750,966, NI Funding €546,000]
- **CHESS**: Connected Health Early Stage Researcher Support System [EC Contribution: €3,950,966, NI Funding €546,000]
- **MAGIC**: Mobile Assistance for Groups Individuals within the Community - Stroke Rehabilitation [EC Contribution: €3,632,804, NI Funding €3,064,483*PCP to HSC]
- **DESIREE**: Decision Support and Information Management System for Breast Cancer [EC Contribution: €3,950,966, NI Funding €546,000]
- **mHealth4Afrika**: Community Based ICT for Maternal Healthcare in Africa [EC Contribution: €1,999,993, NI Funding €248,750]
- **SenseCare**: Sensor Enabled Affective Computing for Enhancing Medical Care [EC Contribution: €504,000, NI Funding €121,500]
- **MetaPlat**: Development of an Easy-to-use Metagenomics Platform for Agricultural Science [EC Contribution: €648,000, NI Funding €216,000]
- **MIDAS**: Meaningful Integration of Data Analytics and Services [EC Contribution: €4,533,862, NI Funding €1,363,720]
- **IC-Health**: Improving digital health literacy in Europe [EC Contribution: €1,974,187, NI Funding €169,187]

**N. Ireland value of CH Projects (Includes benefit to HSC and NI Companies) = €9,119,970**
Some successful Connected Health Horizon 2020 projects

http://www.pathway2health.eu/

Cardiovascular disease (CVD) is the leading cause of premature death and disability

Solution: PATHway provides individualized rehabilitation programs that use regular, socially inclusive exercise sessions
Some successful Connected Health Horizon 2020 projects

**CHESS**

Initial Training Network - Connected Health

http://www.chessitn.eu/

CHESS won €3.9m funding under the Horizon2020 People Programme and the project commenced in September 2015.

It is Europe’s first networked Connected Health PhD training programme and will recruit 15 PhD students internationally to cover 4 main areas of research and training in Connected Health.
Some successful Connected Health Horizon 2020 projects

• Mobile Assistance for Groups and Individuals in the Community (MAGIC) received a European Commission grant of €3.6m (£2.7m) for the development of solutions for post-stroke care. The terms of the grant require that solutions are developed and tested through pre-commercial procurement.

MAGIC was launched by the Health Minister, Simon Hamilton in Ulster University in 2016.

Northern Ireland has a unique position given that health and social services are fully integrated. The university has long established collaborations with HSC Trusts.

http://magic-pcp.eu/
Successful Horizon 2020 projects

**Project Score: 15/15, Ranked top in Europe**

**Great Consortium:** Technical SME & MNC Partners, Academic Partners, Policy Board Health Partners

**Great Project:** High Impact Research, High Impact output potential

N.I. Excellence in Europe
N.I. Connected Health Capability

£7.5m Biodevices Design Laboratory – BDL
A new model in Lean Rapid Proto-typing

Industry Research (CHIC)

Health Technology HUB

Cardiology Sensors (CACR)

Doctoral Programme (ECME)

€10m Centre for Personalised Medicine, Clinical Decision Making and Patient Safety to establish at Ulster University

New £8m Interreg Eastern Alliance Medical Engineering Centre
A Doctoral Training Alliance in Cardiac focused Medical Engineering
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- Data Analytics;
- Point of Care;
- Ambient Assisted;
- Self-Management;
- Wearables/IOT

24 PhD Studentships
Lean Start Entrepreneurship
Industry Placements
6 Cardiology Research Partners
10 company collaborators
Expertise in key future topics in Horizon 2020

Keen to collaborate on future European & Global Grand Challenges
Support for North South Collaboration in Horizon 2020

Carrie Gribben, Horizon 2020 Manager, InterTradeIreland
Health Workshop
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North South Successes in Health

• 50 Successful Cross-Border projects in Horizon 2020 to March 2017
• 18 of these were health projects involving 70 researchers and companies from NI & IE
Horizon 2020 Travel Schemes

Support for North South partners in Horizon 2020 to travel across the island and the EU

Horizon 2020 Events

InterTradeIreland H2020 events provide the opportunity to build North South partnerships.

- All-Island Information Day for Societal Challenge 2 (Agri & Marine), 21st November 2017, Titanic Belfast

- Online calendar of events
Survey on the Impact of BREXIT

InterTradeIreland is conducting a ‘Survey on the Impact of BREXIT on North South applications to Horizon 2020’. We want to hear from Researchers, Senior Leaders of Research and Research Officers from institutes and industry across the island regardless of their previous experience of Horizon 2020. The online survey takes around 10 minutes to complete. Please feel free to widely share this link.

https://tinyurl.com/ITIResearch
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