<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1.00pm</td>
<td>Welcome – Dr Sergio Ceballos, Mr Stephen O’Reilly, Dr Gerard Kennedy, Mr Ciaran Prunty - National Delegates and Contact Points for H2020 NMPB and ICT in Ireland - ‘Setting the scene: Where are we at in ICT/NMPB Ireland, NCP network Ireland’</td>
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<tr>
<td>1.15pm</td>
<td>Dr Gal Weiss, EU Programmes and Contracts Manager, IBM Research. “ICT success story – IBMs approach to Horizon2020”</td>
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<tr>
<td>1.30pm</td>
<td>Dr Parvaneh Mokarian, Principal Investigator, Trinity College Dublin, Amber Centre. ‘NMPB Success Story – First Irish led Pilot Line H2020– ‘SUN-PILOT’ - Piloting of Innovative Subwavelength Nanostructure Technology for Optical and Injection Moulding Applications</td>
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<tr>
<td>1.45pm</td>
<td>‘Prof Conor McCarthy – Department of Mechanical, Aeronautical and Biomedical Engineering, University of Limerick; Director SFI Centre ‘Confirm’: Smart manufacturing IT and industrial automation systems.</td>
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<tr>
<td>2.00pm</td>
<td>Prof Dermot Brabazon, Mechanical and Manufacturing Engineering, Dublin City University. Deputy Director of SFI Centre ‘I-Form’: Advanced Manufacturing Research Centre.</td>
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<td>2.15pm</td>
<td>Dr Andrew Lynch – Chief Innovation Officer – Irish Manufacturing Research Technology Centre Ireland IMR.</td>
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<td>2.30pm</td>
<td>Mr Sean O’Reagain – Deputy Head of Unit. Advanced Manufacturing Systems and Biotechnologies. Unit for DG R&amp;I D2 – ‘NMPB WP2018-20’.</td>
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<td>3.45pm</td>
<td>Conclusions and End</td>
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NMPB and ICT Horizon 2020

State of Play Ireland

18 October 2017

1. Excellent Science
   - European Research Council
   - Future and Emerging Technologies
   - Marie Curie Actions
   - Research Infrastructures

2. Industrial Leadership
   - Leadership in Enabling & Industrial Technologies
     - Information and communication technologies
     - Nanotechnologies
     - Advanced materials
     - Biotechnology
     - Advanced manufacturing and processing
     - Space
   - Access to Risk Finance
   - Innovation in SME

3. Societal Challenges
   - 7 Challenges
     - Health, Demographic Change and Wellbeing
     - Food security, sustainable agriculture, marine and maritime research and the bio-economy
     - Secure, Clean and Efficient Energy
     - Smart, Green and Integrated Transport
     - Climate Action, Resource Efficiency and Raw Materials
     - Europe in a changing world: Inclusive, Innovative and Reflective Societies
     - Secure Societies – Protecting Freedom and Security of Europe and its Citizens

Joint Research Centre (JRC)
Widening Participation
Science with & for Society
European Institute of Innovation and Technology (EIT)
Joint Programming P2P
Joint Technology Initiatives (JTIs) P2B

ENTERPRISE IRELAND
where innovation means business
Horizon 2020

**Priority 1: Excellent Science**

**Priority 2: Industrial Leadership**

Leadership in enabling and industrial technologies (LEIT)

(i) **ICT including micro/nano-electronics & photonics**
(ii) Nanotechnologies
(iii) Advanced Materials
(iv) Biotechnology
(v) Advanced Manufacturing & Processing

(vi) **Space**

Access to risk finance

*Leveraging private finance and venture capital for R&I*

**Innovation in SMEs**

*Fostering all forms of innovation in all types of SMEs*

**Priority 3: Societal Challenges**
Work Programmes: National Delegates working with the EC

Advisory Groups to the EC on H2020

European Commission

DG Research

RESEARCH & INNOVATION

Key Enabling Technologies

European Commission> Research & Innovation> Key Enabling Technologies> Research in Nanosciences and Nanotechnologies

Consultation Process

Industry Associations/Technology Platforms

Member States Programme Committee

Work Programmes/ Calls for 2018-0

Consultation Process

Iteratorations...Iterations...PUBLICATION: 27* Oct 2017

July       Sept                    Oct
–April 2016                September

(Publication by delegations)

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EXAMPLE – NMPB EC in consultation MAIN EU GROUPS:

- **EUMAT**-Advanced Engineering, Materials and Technology
- ETP SMR-Sustainable Mineral Resources
- ESTEP-European Steel Technology
- EPSI- European Platform for Sport Innovation
- Nanofutures
- **Nanomedicine** – PPP?
- SuSChem
- **SPIRE** Association
- Industrial Safety (ETPIS)
- Future Textile and Clothing (EURATEX)
- Forestry Technology Platform
- Prosumer Initiative.
- ECTP-European Construction Technology, **E2B**
  - Manufutures – Factories of the Future (EFFRA), Additive Manufacturing Platform (**AM Platform**) – working group
- Energy Materials Industry Research Initiative (**EMIRI**) – PPP?
- **European Materials Industry Research Initiative** - Cluster
- **European Materials Modeling Council** - Cluster
- Bio Based Consortium,
- EuropaBio, European Federation of Biotechnology.
- Europa Bioeconomy Alliance.
- European Plant Science Organisation: (EPSO)
Horizon 2020 NMPB - Ireland

STATE OF PLAY:

- Call 1 and 2 (2014-15) – EUR25m
- Call 3 and 4 (2016-17) – EUR21m
- Ireland has retained approximately 2.2% of the overall H2020 NMPB budget to date. For FP7 Ireland retained EUR57m, 1.8% of the budget.
- 35% of the funding going to Irish Industry
- Several wins from the SME Instrument in NMPB – Areas: medical technologies, biotechnology
- Room for improvement in participation in ETPs, EU associations, CSA actions.
Horizon 2020 ICT - Ireland

STATE OF PLAY:
- €74.5M secured to date by Irish organisations
  - €67.9M in main ICT calls (24 Coordinators to date)
  - €2.9M in ECSEL
  - €3.7M in SME Instrument
- Ireland has retained approximately 2.2% of the overall H2020 ICT budget to date. For FP7 Ireland retained €126M, 1.6% of the budget.
- 25% large industry, 21% SME
- €3B approx. in final work programme
EXAMPLE – ICT - MAIN ICT EU GROUPS

- Photonics21
- AENEAS
- ARTEMISIA
- EPoSS
- EURobotics
- 5G Association
- Networld
- NEM
- ETP4HPC
- BDVA
- AIoTI
- NESSI
- EFFRA
Horizon 2020 ICT, NMPB – Northern Ireland

STATE OF PLAY:
- NMPB €3.17M (60% to industry)
  - A further €2.7M from Bio-based Industries JTI
- EEB and FoF engagement is good but could do more with SPIRE
- ICT €5.26M in main ICT calls (24% to industry)
  - A further €1.97M from FET ICT-related projects
- Involvement in strategic groups (ECTP, EFFRA, ETP4HPC, BDVA, Nanomedicine etc)
- UK Government underwrite has been important to ensure ongoing collaborations for the new calls
Next Steps Call 2018- 19- 20:

- Contact your National Contact Point in Ireland – [www.horizon2020.ie](http://www.horizon2020.ie)
- Be aware of ongoing projects
- Be aware of the main participants (at home and abroad)
- Investigate relevant ETPs/EU Industry initiatives your research is aligned with, download roadmaps and Strategic Research Agendas
- Meet ETP in Brussels? Invite them over? .... And consider joining?
- Attend brokerage events ETP/EC organised. You will need to travel to make connections.
- It will require resources – who in your team can attend the meetings?
- Consult the new Work Programmes
The National Support Network for H2020 - Ireland

- NCPs
- Enterprise Ireland
- Sustainable Energy Ireland (SEI)
- EPA
- IUA
- SFI
- Irish Research Council
- Department of Agriculture & Food
- Research Offices
- IBEC
- IRDG
- IDA SFI
- Brussels Office
- InterTradeIreland
- NICP
Thank you for your attention

www.ec.europa.eu/research/horizon2020
www.horizon2020.ie

H2020 Industrial Leadership programmes

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