The NHS and Horizon 2020 - learning from the first call

Michael Wood, 22 May 2014
NHS European Office

• **Who are we?**
  – Established 2007
  – Part of the NHS Confederation
  – Funded by national NHS bodies

• **What do we do?**
  – Represent NHS organisations in EU policy-making and legislation
  – Assist the NHS with the implementation of EU law
  – Offer strategic advice on EU funding opportunities
  – Promote partnerships between NHS organisations and bodies from other sectors/countries.
EU funding - What we are doing to help

NHS European Office bringing together **key partners** across sectors:

- Technology Strategy Board, including range of National Contact Points in relevant areas
- Medical Research Council
- Universities UK
- Research Councils UK
- Local Enterprise Partnerships
- European Commission

- Publications, webinars, events, intelligence sharing, presentations, facilitating meetings, representing...
EU funding - What we are doing to help

The NHS European Office can assist NHS organisations wishing to apply for EU funds. We can:

- look at a project concept note and help assess whether it would be a potential fit for European funding
- support your organisation in establishing appropriate European partnerships
- help answer technical and administrative questions
- help develop capacity in your organisation to apply for and manage EU funds

www.nhsconfed.org/Horizon2020
What we will cover

• Horizon 2020
  – Refresh of aims
  – Facts, figures and intelligence from first call
  – A look ahead to the 2015 call
• Other EU funding programmes
  – Call dates
• Questions and comments
  – Give us your feedback on the process so far
Horizon 2020 – The Health Challenge

22nd May, 2014
Octavio Pernas
Horizon 2020 UK National Contact Point
Health, Demographic Change and Wellbeing
Agenda

• Facts and figures
• Horizon 2020
• Health Challenge
• NCP support
Agenda

• Facts and figures
• Horizon 2020
• Health Challenge
• NCP support
# Facts and figures

## FP7 Health Theme Funding, 2007 - 2013

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Funding</th>
<th>Projects Funded</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>€641 million</td>
<td>153</td>
<td>87</td>
</tr>
<tr>
<td>2008</td>
<td>€577 million</td>
<td>172</td>
<td>87</td>
</tr>
<tr>
<td>2009</td>
<td>€593 million</td>
<td>108</td>
<td>71</td>
</tr>
<tr>
<td>2010</td>
<td>€628 million</td>
<td>131</td>
<td>72</td>
</tr>
<tr>
<td>2011</td>
<td>€657 million</td>
<td>124</td>
<td>51</td>
</tr>
<tr>
<td>2012</td>
<td>€657 million</td>
<td>140</td>
<td>37</td>
</tr>
<tr>
<td>2013</td>
<td>€819 million</td>
<td>143</td>
<td>37</td>
</tr>
</tbody>
</table>
Facts and figures

FP7 Health Theme – Participants

UK has highest level of participation in successful health projects

Facts and figures

FP7 Health Theme – EC Contribution (€ M)

UK organisations have secured > €670 million of EU funding for Health research

Facts and figures

Participants landscape (UK) – academia and NHS

Technology Strategy Board
Driving Innovation
Facts and figures

EC Contribution landscape (UK) – academia and NHS

% of HEI and NHS contributions from 2010 to 2012.
Facts and figures

FP7 Health – NHS participants

Brighton and Sussex University Hospitals
Guy’s and St Thomas’
King’s College Hospital
The Royal Liverpool and Broadgreen University Hospitals
University College London Hospitals
Moorfields Eye Hospital
Gloucestershire Hospitals
Great Ormond Street Hospital for Children
The Christie
Oxford University Hospitals
Blood and Transplant
NICE
Royal Brompton & Harefield

Technology Strategy Board
Driving Innovation
## Facts and figures

### Horizon 2020 – First Health Calls

**H2020-PHC-2014-two-stage** (8 topics, €303 million)

- Opening: 11 Dec. 2013
- stage 1 proposals, deadline: 11 March 2014 – 1681 proposals received
- evaluation: => 626 proposals invited to submit full proposal (15 May 2014)
- stage 2 proposals, deadline: 19 Aug. 2014

<table>
<thead>
<tr>
<th>Call Topic</th>
<th>Proposals received</th>
<th>Proposals Invited to Stage 2</th>
<th>Stage 1 Success rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC-1</td>
<td>358</td>
<td>172</td>
<td>48 %</td>
</tr>
<tr>
<td>PHC-5</td>
<td>121</td>
<td>37</td>
<td>30 %</td>
</tr>
<tr>
<td>PHC-6</td>
<td>85</td>
<td>32</td>
<td>37 %</td>
</tr>
<tr>
<td>PHC-10</td>
<td>462</td>
<td>138</td>
<td>29 %</td>
</tr>
<tr>
<td>PHC-13</td>
<td>296</td>
<td>128</td>
<td>43 %</td>
</tr>
<tr>
<td>PHC-17</td>
<td>136</td>
<td>55</td>
<td>40 %</td>
</tr>
<tr>
<td>PHC-23</td>
<td>107</td>
<td>33</td>
<td>30 %</td>
</tr>
<tr>
<td>PHC-32</td>
<td>116</td>
<td>31</td>
<td>26 %</td>
</tr>
</tbody>
</table>
Facts and figures

Horizon 2020 – First Health Calls

H2020-PHC-2014-single-stage (8 topics, €185 million)

• Opening: 11 Dec. 2013
• Deadline: 15 April 2014 – 451 proposals received
• evaluation: => in progress

<table>
<thead>
<tr>
<th>Call Topic</th>
<th>Proposals received</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC-7</td>
<td>11</td>
</tr>
<tr>
<td>PHC-8</td>
<td>5</td>
</tr>
<tr>
<td>PHC-15</td>
<td>30</td>
</tr>
<tr>
<td>PHC-19</td>
<td>79</td>
</tr>
<tr>
<td>PHC-20</td>
<td>56</td>
</tr>
<tr>
<td>PHC-26</td>
<td>254</td>
</tr>
<tr>
<td>PHC-31</td>
<td>9</td>
</tr>
<tr>
<td>PHC-34</td>
<td>7</td>
</tr>
</tbody>
</table>
Facts and figures

Evaluation - initial comments

• Gender and sex differences need to be taken into account and properly addressed in the scientific part of the stage 2 proposal and will be evaluated

• Higher emphasis on impact – pay close attention to this section

• No grant negotiation as it was in FP7 - proposal evaluated as it is, not as it could be: need to be very good and present realistic budgets in relation to the work proposed
Agenda

- Facts and figures
- Horizon 2020
- Health Challenge
- NCP support
Horizon 2020: What is it?

- 79 billion euro research and innovation funding programme (2014-2020)
- New framework programme bringing together three separate programmes/initiatives (FP, EIT, CIP)
- Continuation of investment in frontier research
- More support for innovation activities – focus on business opportunities
- Simplification (e.g. reduction of average time to grant by 100 days)
Horizon 2020

Horizon 2020: What’s new?

• Single set of rules for participation, coherent with other new EU Programmes
• One project – one funding rate
  - Eligible costs: direct + indirect (flat rate, 25% of direct costs)
  - 100% for research projects;
  - 70 % for activities closer to market (100 % for non-profit)
• Simple evaluation criteria: Excellence, Impact, Implementation
• New funding schemes: pre-commercial procurement, prizes, loan and equity instruments, etc.
Horizon 2020

Horizon 2020 - Three priorities

1. Excellent Science
2. Industrial Leadership
3. Societal Challenges
# Horizon 2020

## Horizon 2020 - Excellent Science (€Bn)

<table>
<thead>
<tr>
<th>Programme</th>
<th>Amount (€Bn)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>European Research Council (ERC)</strong></td>
<td><strong>13.09</strong></td>
</tr>
<tr>
<td><em>Supporting world leading scientist in blue sky research</em></td>
<td></td>
</tr>
<tr>
<td><strong>Future and Emerging Technologies (FET)</strong></td>
<td><strong>2.67</strong></td>
</tr>
<tr>
<td><em>Collaborative research to open new fields of innovation</em></td>
<td></td>
</tr>
<tr>
<td><strong>Marie Skłodowska-Curie actions (MSCA)</strong></td>
<td><strong>6.16</strong></td>
</tr>
<tr>
<td><em>Opportunities for training and career development</em></td>
<td></td>
</tr>
<tr>
<td><strong>Research infrastructures (including e-infrastructure)</strong></td>
<td><strong>2.49</strong></td>
</tr>
<tr>
<td><em>Ensuring access to world-class facilities</em></td>
<td></td>
</tr>
</tbody>
</table>
## Horizon 2020

### Horizon 2020 – Industrial Leadership (€Bn)

<table>
<thead>
<tr>
<th>Leadership in enabling and industrial technologies (LEIT)</th>
<th>13.56</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>ICT (45 %), nanotechnologies (22 %), biotechnology (3 %), etc</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Access to risk finance</th>
<th>2.84</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Leveraging private finance and venture capital for research and innovation</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Innovation in SMEs</th>
<th>0.6 complemented by c. 20% of societal challenges and industrial leadership and ‘access to risk finance’ with strong SME focus</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Fostering all forms of innovation in all types of SMEs</em></td>
<td></td>
</tr>
</tbody>
</table>
# Horizon 2020

## Horizon 2020 – Societal Challenges (€Bn)

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Amount (€Bn)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health, demographic change and wellbeing</td>
<td>7.47</td>
</tr>
<tr>
<td>Food security, sustainable agriculture &amp; the bioeconomy</td>
<td>3.85</td>
</tr>
<tr>
<td>Secure, clean and efficient energy</td>
<td>5.93</td>
</tr>
<tr>
<td>Smart, green and integrated transport</td>
<td>6.34</td>
</tr>
<tr>
<td>Climate action, resource efficiency and raw materials</td>
<td>3.08</td>
</tr>
<tr>
<td>Europe in a changing world - inclusive, innovative and reflective societies</td>
<td>1.31</td>
</tr>
<tr>
<td>Secure societies – protecting freedom and security of Europe and its citizen</td>
<td>1.69</td>
</tr>
</tbody>
</table>
Horizon 2020

Horizon 2020 - Opportunities for the NHS

- Better planning (work programmes for 2+1 years)
- More support for research infrastructures, public-private and public-public partnerships
- Translational approaches, integrating several steps of the innovation process in the health care area.
- Profile raise and access to international networks
- Specific area for “Integrated, sustainable, citizen-centred care”
Agenda

• Facts and figures
• Horizon 2020
• Health Challenge
• NCP support
Health Challenge

Health, demographic change and wellbeing challenge (SC1)

• Top-down programme – now less prescriptive – what to do, but not how to do it

• Strengthening competitiveness of EU industries - development of new market opportunities

• Multidisciplinary approach - fostering cooperation between academic and industrial sectors

• Also implemented by the Innovative Medicines Initiative (IMI) 2; European & Developing Countries Clinical Trials Partnership (EDCTP); Active and Assisted Living (AAL) 2
Health Challenge

SC1 – Work Programme

- Work programmes (WP) with a 2 year-duration!
- 16 topics - ‘co-ordination activities’ call (7 ERA-NET)
- 34 topics - ‘personalising health and care’ (PHC) focus area call

Objectives:

- Create opportunities for real breakthrough research
- Translation of findings into the clinic
- Reduce health inequalities
- Promote active and healthy ageing
Health Challenge

SC1 – Work Programme – PHC focus area

• Understanding health, ageing and disease – 3 topics
• Effective health promotion, disease prevention, preparedness and screening – 6 topics
• Improving diagnosis – 3 topics
• Innovative treatments and technologies – 6 topics
• Advancing active and healthy ageing – 4 topics
• Integrated, sustainable, citizen-centred care – 7 topics
• Improving health information, data exploitation and providing an evidence base for health policies and regulation – 5 topics
Health Challenge

SC1 – Understanding the needs

PHC 10 - 2014) Development of new diagnostic tools and technologies: in vitro devices, assays and platforms

Specific challenge:

• The development of new diagnostics (more sensitive, robust and selective) for improved clinical practice demands the translation of multidisciplinary scientific and technological knowledge from diverse fields into clinical applications (…)

• A wide range of multidisciplinary competencies need to be brought together to develop and bring new diagnostics to the patient. This is also a field where many small European companies are active.

Scope:

• Proposals will focus on the development of innovative in vitro diagnostic tools and technologies (not novel applications of existing ones) (…)

Expected impact:

• New in vitro diagnostic tools and methods providing more accurate, more reliable and earlier disease diagnosis (…)

Type of action: Research and Innovation action
# Health Challenge – Calls Summary 2014/15

<table>
<thead>
<tr>
<th>Call</th>
<th>Topics</th>
<th>Budget (€Mn)</th>
<th>Submission procedure</th>
<th>Stage 1 Deadline</th>
<th>Stage 2 Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2020-PHC-2014-single-stage</td>
<td>PHC 7, 8, 15, 19, 20, 26, 31, 34</td>
<td>185.20</td>
<td>Single stage</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; April, 2014</td>
<td>NA</td>
</tr>
<tr>
<td>H2020-PHC-2014-two-stage</td>
<td>PHC 1, 5, 6, 10, 13, 17, 23, 32</td>
<td>303.00</td>
<td>Two stage</td>
<td>11&lt;sup&gt;th&lt;/sup&gt; March, 2014</td>
<td>19&lt;sup&gt;th&lt;/sup&gt; August, 2014</td>
</tr>
<tr>
<td>H2020-HCO-2014</td>
<td>HCO 1, 2, 4, 5, 7, 8, 9, 10, 14, 15, 16</td>
<td>40.00</td>
<td>Single stage</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; April, 2014</td>
<td>NA</td>
</tr>
<tr>
<td>H2020-PHC-2015-single-stage</td>
<td>PHC 9, 15, 21, 25, 27, 28, 29, 30</td>
<td>162.00</td>
<td>Single stage</td>
<td>21&lt;sup&gt;st&lt;/sup&gt; April, 2015</td>
<td>NA</td>
</tr>
<tr>
<td>H2020-PHC-2015-two-stage</td>
<td>PHC 2, 3, 4, 11, 14, 16, 18, 22, 24, 33</td>
<td>330.00</td>
<td>Two stage</td>
<td>14&lt;sup&gt;th&lt;/sup&gt; October, 2014</td>
<td>24&lt;sup&gt;th&lt;/sup&gt; February, 2015</td>
</tr>
<tr>
<td>H2020-HCO-2015</td>
<td>HCO 3, 6, 11, 12, 13</td>
<td>29.00</td>
<td>Single stage</td>
<td>21&lt;sup&gt;st&lt;/sup&gt; April, 2015</td>
<td>NA</td>
</tr>
</tbody>
</table>
### SC1 – PHC 2015 (single stage – deadline 21st April 2015)

<table>
<thead>
<tr>
<th>CODE</th>
<th>TITLE</th>
<th>BUDGET (€M)</th>
<th>TYPE OF ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 15 - 2015</td>
<td>Clinical research on regenerative medicine</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 21 - 2015</td>
<td>Advancing active and healthy ageing with ICT: Early risk detection and intervention</td>
<td>3 – 4</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 25 - 2015</td>
<td>Advanced ICT systems and services for integrated care</td>
<td>3 – 5</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 27 - 2015</td>
<td>Self-management of health and disease and patient empowerment supported by ICT</td>
<td>3 – 5</td>
<td>Pre-commercial procurement</td>
</tr>
<tr>
<td>PHC 28 - 2015</td>
<td>Self management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself</td>
<td>3 – 5</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 29 - 2015</td>
<td>Public procurement of innovative eHealth services</td>
<td>1 – 5</td>
<td>Public procurement</td>
</tr>
<tr>
<td>PHC 30 - 2015</td>
<td>Digital representation of health data to improve disease diagnosis and treatment</td>
<td>3 – 5</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>CODE</td>
<td>TITLE</td>
<td>BUDGET (€M)</td>
<td>TYPE OF ACTION</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>PHC 2 - 2015</td>
<td>Understanding diseases: systems medicine</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 3 - 2015</td>
<td>Understanding common mechanisms of diseases and their relevance in co-morbidities</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 4 - 2015</td>
<td>Health promotion and disease prevention: improved inter-sector co-operation for environment and health based interventions</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 11 - 2015</td>
<td>Development of new diagnostic tools and technologies: in vivo medical imaging technologies</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 14 - 2015</td>
<td>New therapies for rare diseases</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>CODE</td>
<td>TITLE</td>
<td>BUDGET (€M)</td>
<td>TYPE OF ACTION</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------</td>
<td>---------------</td>
</tr>
<tr>
<td>PHC 16 - 2015</td>
<td>Tools and technologies for advanced therapies</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 18 - 2015</td>
<td>Establishing effectiveness of health care interventions in the paediatric population</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 22 - 2015</td>
<td>Promoting mental wellbeing in the ageing population</td>
<td>4 – 6</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 24 - 2015</td>
<td>Piloting personalised medicine in health and care systems</td>
<td>12 – 15</td>
<td>R&amp;I Actions</td>
</tr>
<tr>
<td>PHC 33 - 2015</td>
<td>New approaches to improve predictive human safety testing</td>
<td>10 – 15</td>
<td>R&amp;I Actions</td>
</tr>
</tbody>
</table>
Health Challenge

Participant Portal

• Work Programmes
• Rules for Participation
• General Annexes
  • List of countries
  • Standard Eligibility criteria
• Other
  • Electronic Submission Service (ESS)

Health Challenge

Next steps

• July 2014: final version for 2015 topics
• 19th August: stage 2 deadline H2020-PHC-2014-two-stage Call
• 14th October*: stage 1 deadline H2020-PHC-2015-two-stage Call
• Q4 2014: WP 2016/17 discussions
• 24th February* 2015: stage 2 deadline H2020-PHC-2015-two-stage Call
• 21st April* 2015: deadline H2020-PHC-2015-single-stage Call
Agenda

• Facts and figures
• Horizon 2020
• Health Challenge
• NCP support
NCP support

• A UK-wide network provided by the Technology Strategy Board to help you engage with H2020
• General advice on H2020 participation – help you to make an informed decision (signposting)
• Helpline - scientific priorities, calls, participation rules, financial rules, partnering...
• Follow-on advice – negotiation stage, reports, cost claims, IPR, project management...
• Informing and Awareness Raising (Infodays, seminars,...)

All advice is confidential, impartial and free
NCP support

Connect / Horizon 2020 UK
- NCP contacts
- Information
- News
- Events
- Documents
- Networks
Other support

- European Commission – Horizon 2020:
  http://ec.europa.eu/programmes/horizon2020/
- Participant portal:
- Fit for Health:
  http://www.fitforhealth.eu/
- Healthcompetence:
  http://www.healthcompetence.eu/
- Enterprise Europe Network:
  http://een.ec.europa.eu/
Horizon 2020 UK National Contact Point
Health, Demographic Change and Wellbeing

E mail: octavio.pernas@tsb.gov.uk
Phone: 01793 442700
Mobile: 07909 952964
Twitter: @H2020_HealthNCP
https://www.h2020uk.org/
https://connect.innovateuk.org/web/fp7-uk-health

Alternative: Alex Harris
Alex.Harris@headoffice.mrc.ac.uk
02073 952214
Remember the other programmes!
Remember the other programmes!

“\textit{It aims at funding the development and testing of ICT-based solutions in real life situations which enable and support sustainable care models for older adults.}”

- First call published on 2 April, deadline 26 June 2014
- The challenge addressed in the first call is: CARE FOR THE FUTURE
- Applicants should consider how \textbf{ICT-based solutions}:
  - reconcile increased demand with limited resources;
  - increase and facilitate the supply of formal and informal care for older adults;
  - reduce the demand for care through prevention and self-management;
  - can support the shift towards better care at home and in the community.
Remember the other programmes!

“Europe’s largest public-private initiative between the EU and the European Federation of Pharmaceutical Industries and Associations (EFPIA), aiming to speed up the development of better and safer medicines for patients”

- First call under IMI2 expected on 9 July. 3 indicative topics already announced (Diabetes Type 1, Retinal diseases, Remote Assessment technology.
- Range of therapeutic priority areas:
  Antimicrobial resistance, Osteoarthritis, Cardiovascular disease, Diabetes, Neurodegenerative diseases, Psychiatric disease, Respiratory diseases, Autoimmune diseases, Ageing associated diseases/conditions, Cancer & Orphan disease
- Given UK’s leading role in life-sciences there will be significant UK academic and industry input.
Remember the other programmes!

“It’s main objectives are to: Promote health, prevent disease and foster supportive environments for healthy lifestyles; Protect citizens from serious cross-border health threats; Contribute to innovative, efficient and sustainable health systems; and Facilitate access to better and safer healthcare for EU citizens”

- Budget of €446 million to spend on public health projects, operating grants and Joint Actions
- NHS European Office is the UK National Contact Point
- UK Information Day in London on 11 July – let us know if you wish to come
Thank you - any Questions?

Octavio.pernas@tsb.gov.uk

Michael.Wood@nhsconfed.org

Sarah.Godman@nhsconfed.org