Il ruolo dell’Advisory Group for «Health, Wellbeing and Demographic Change» in Horizon 2020

Lucia Monaco
Horizon 2020 Advisory Group, Societal Challenges 1: “Health, Demographic Change and Wellbeing”

Seminario: «I bandi 2016/2017 dell’area salute in Horizon 2020»
Università degli Studi di Milano, 23 settembre 2015
Horizon 2020 - The advisory groups
Advisory Group mandate

- Is to provide consistent and consolidated advice to the Commission services for each work programme (WP) related to all activities of the challenge.

- By respecting the rules related to confidentiality and conflicts of interest.

- The advice forms part of a wider consultation and the Commission will provide feedback on the use of it.

HORIZON 2020
Advisory Group mandate

The Group

• may provide recommendations on potential experts evaluators, whereas the selection of experts remains with the Commission services

• may be consulted in the preparation of the three years strategic programme setting out key orientations to guide the preparations of the work programmes

• may also become a focal point for processing inputs from across society related to this challenge and

• may thereby support outreach and strengthening of the Commission services' dialogue with a wider group of stakeholders
Advisory Group working method

The advice

• should be provided in writing (rapporteur) to be made public

• is the consensus result of discussions within the Group but if necessary individual experts may request to have divergent views recorded
Horizon 2020 Advisory Groups

Advisory group experts provide high quality and timely advice to the Commission services during the preparation of the Horizon 2020 work programme.

Groups established

Details of the Horizon 2020 advisory groups are available in the European Commission’s Register of Expert Groups. Here is a full list of the established groups – each clickable to the entry in the register.

Horizon 2020 Advisory Group for:

- Access to risk finance (debt and equity financing)
- Climate action, environment, resource efficiency and raw materials
- European research infrastructures including eInfrastructures
- Europe in a changing world – inclusive, innovative and reflective societies
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy and biotechnology
- Future and Emerging Technologies (FET)
- **Health, demographic change and wellbeing**
- Innovation in small and medium-sized enterprises (SMEs)
- The Marie Skłodowska-Curie actions on skills, training and career development
- Nanotechnologies, advanced materials and advanced manufacturing and processing
- Secure, clean and efficient energy and Euratom
- Secure societies – protecting freedom and security of Europe and its citizens
- Smart, green and integrated transport
- Space
Advisory Group to the EU Horizon 2020, Societal Challenges 1 “Health, Demographic Change and Wellbeing”

**Active since** 18 Oct 2013

**Chair:** Liselotte Højgaard  
**Vice Chair:** Rafael Bengoa

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### Individual expert appointed in his/her personal capacity

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<tr>
<th>Name</th>
<th>Nationality</th>
<th>Professional Title</th>
<th>Membership Status</th>
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<tr>
<td>Berga Rafael</td>
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<td>Borga Anne Jørgen Helman</td>
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<td>De Moor Georges</td>
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<td>Everaerts Hele</td>
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<td>Frische Ellen</td>
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<td>Karzmarek Leszek</td>
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<td>Kiym Marie-Paule</td>
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<td>Lisboa Paola</td>
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### Organisation

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<th>Name of Organisation</th>
<th>Category</th>
<th>Countries/Areas represented</th>
<th>Membership Status</th>
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<td>School of Public Health, University of Debrecen</td>
<td>Academia</td>
<td>Hungary</td>
<td>Member</td>
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<td>Swiss Tropical Institute, University of Basel</td>
<td>Academia</td>
<td>Switzerland</td>
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<td>The BioRobotics Institute</td>
<td>Academia</td>
<td>Italy</td>
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<td>TILDA – Trinity College Dublin</td>
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H2020 - Advisory Group SC1: Members’ expertise

• Clinical physiology, medical technology.
• Health policies and leadership.
• Public health, preventive medicine.
• Psychology, developmental psychology, gender, ethics, SSH.
• Biochemistry and molecular biology, ethics.
• Biomedical robotics.
• Clinic of hematology-oncology, gender, ethics.
• Environment and Human Health, gender, SSH.
• Infectious diseases, diagnostics, preventive therapeuti- c vaccines, food safety cf SC2.
• Neurobiology, experimental biology, SSH.
• Ageing, gender.
• Industrial mathematics, medical data analysis, data mining, ethics.
• Animal cell technology, stem cells, biopharmaceuticals, toxicity testing, systems biology.
• Rare diseases, charitable sector.
• Health policy, social policy, access to medicines, ethics.
• Cognitive neuroimaging.
• Patient involvement, ethics, gender, SSH, international cooperation.
• Systems medicine, metabolism, diagnostics, bioinformatics.
• Medical oncology, SSH.
• Digital systems, eHealth.
• Gastroenterology, cancer.
• Assisted living.
• Molecular pathology and medical ethics, gender.
• SME, industry.
• Public health, epidemiology, genetic epidemiology, cancer epidemiology, communicable diseases and tropical diseases, ethics.
• Medical epidemiology, cancer epidemiology, public health, genetic epidemiology, ethics, SSH.
• eHealth.

HORIZON 2020

Societal Challenge 1
Health, demographic change and wellbeing

2nd Meeting 25 March 2014
Preparation of Work Programme 2016-17: strategic consultation of Advisory Groups
Mandate of Advisory Groups

Reminder:

- Horizon 2020 Advisory Groups are consultative entities set up by the Commission to provide strategic advice for the preparation of the work programmes, regarding the relevant challenge/part of the Specific Programme implementing Horizon 2020
Context
The legal basis is the Specific Programme

For SC1:
1.1. *Understanding health, well-being and disease*
1.2. *Preventing disease*
1.3. *Treating and managing disease*
1.4. *Active ageing and self-management of health*
1.5. *Methods and data*
1.6. *Health care provision and integrated care*
Timetable

By summer 2014

- Each Advisory Group to produce a report summarising the discussions and responses to questions using a common approach

Second half 2014

- Based on input of Advisory Groups, discussion with Member States on defining potential priorities

First half of 2015

- Development of the content of the work programmes 2016-17 based on established list of priorities

From summer 2015

- Adoption and publication of the calls for proposals
Consultation of the advisory group

Based on the following set of documents:

- Consultation paper
- Annex I: Horizon 2020 Specific Programme
- Annex II: Strategic approach for Horizon 2020 – a contribution from foresight
Aim of the consultation (1/2)

Identify strategic areas and priorities for the next work programme 2016-2017
Aim of the consultation (2/2)

Keeping in mind:

- Horizon 2020 aims at developing new knowledge and innovative products and services, creating growth and jobs in Europe, through
  - Mobilising resources to build scale and critical mass
  - Exploiting well-developed research and innovation agendas
  - Securing world class scientific and innovative breakthroughs

- Societal change, ageing population, big data, globalisation, resource constraints, and environmental concerns need to be considered
Questions to consider (1/2)

1. What is the **biggest challenge** which requires immediate action under the next Work Programme? Which related innovation aspects could reach market deployment within 5-7 years?

2. What are the **key assumptions** underpinning the development of these areas (research & innovation, demand side and consumer behaviour, citizens’ and civil society’s concerns and expectations)?

3. What is the **potential output**, what could the **impact** be, what would success look like, and what are the opportunities for international linkages?

4. Which are the **bottlenecks** in addressing these areas, and what are the inherent **risks and uncertainties**, and how could these be addressed?
Questions to consider (2/2)

5. Which gaps (science and technology, markets, policy) and potential game changers, including the role of the public sector in accelerating changes, need to be taken into account?

6. In which areas is the strongest potential to leverage the EU knowledge base for innovation and, in particular, ensure the participation of industry and SMEs? What is the best balance between bottom-up activities and support to key industrial roadmaps?

7. Which areas have the most potential to support integrated activities, in particular across the societal challenges and applying key enabling technologies in the societal challenges and vice versa; and cross-cutting activities (social sciences and humanities, responsible research and innovation including gender aspects, and climate and sustainable development)? Which types of interdisciplinary activities will be supported?
Template for advice of the Horizon 2020 Advisory Group SC1 'Health, demographic change and wellbeing'

To be delivered by summer 2014

The following questions should be described for each of the larger challenges in our report:
Challenge: xxxx

1. What challenge
   Why this challenge
   Action/research needed
   Innovation in relation to challenge
   **Action:** Healthcare, public health, EU, others
   **Product:** Drug, ICT, Medical devices, others

2. Success criteria
   Research
   Innovation
   Economy
   Health care
   Public health

3. Internationalization and collaboration
4. **Bottleneck:**
   Which?
   How to alleviate?

   **Risks:**
   Which?
   How to minimize or avoid?

5. **Gaps:**
   Which?
   How to close?

   **Game changer:**
   Which?
   How to develop and implement?

   **Role of public sector:**
   Which?
   How to implement?
6. Strong areas for industry and SME’s

Bottom up activities:
  Mention most relevant

Industrial roadmap:
  Mention most relevant

7. Strong areas to support integrated activities for each of the big challenges:
   The overarching theme will be public health and health care changes, important aspects for rising costs and declining economy, and urbanisation and change demography.
For each challenge these overarching areas and cross cutting activities should also be dealt with:

- Social science and humanities
- Responsible research and innovation, including gender aspects
- Climate and sustainable development
- Interdisciplinary activities
The Advisory Group’s Advice

Challenges identified

1. Aging at large
2. Personalized medicine, mechanisms, system medicine, biomarkers, diagnostics – including rare diseases
3. ICT for health
4. Population health and health promotion
5. Infectious diseases at large
6. Early development
7. Sustainable health and care systems
8. Environment and health
Draft Horizon 2020 Work Programme 2016-2017
in the area of "Health, demographic change and well-being"

Important notice:

This paper is made public just before the adoption process of the work programme to provide potential participants with the currently expected main lines of the work programme 2016-2017. It is a working document not yet endorsed by the Commission and its content does not in any way prejudice the final decision of the Commission.

The adoption and the publication of the work programme by the Commission are expected in mid-October 2015. Only the adopted work programme will have legal value.

This adoption will be announced on the Horizon 2020 website and on the Participant Portal. Information and topic descriptions indicated in this working document may not appear in the final work programme, and likewise, new elements may be introduced at a later stage. Any information disclosed by any other party shall not be construed as having been endorsed by or affiliated to the Commission.

The Commission expressly disclaims liability for any future changes of the content of this document.

Inputs from the Advisory Group into the draft H2020 Work Programme 2016-2017

Call - Personalised Medicine

1.1 Understanding health, well-being and disease
SC1-PM-01-2016: Multi omics for personalised therapies addressing diseases of the immune system
SC1-PM-02-2017: New concepts in patient stratification
SC1-PM-03–2017: Diagnostic characterisation of rare diseases
SC1-PM-04–2016: Networking and optimising the use of population and patient cohorts at EU level

1.2 Preventing disease
SC1-PM-05–2016: The European Human Biomonitoring Initiative
SC1-PM-06–2016: Vaccine development for malaria and/or neglected infectious diseases
SC1-PM-07–2017: Promoting mental health and well-being in the young

1.3 Treating and managing diseases
SC1-PM-08–2017: New therapies for rare diseases
SC1-PM-09–2016: New therapies for chronic diseases
SC1-PM-10–2017: Comparing the effectiveness of existing healthcare interventions in the adult population
SC1-PM-11–2016-2017: Clinical research on regenerative medicine

1.4 Active ageing and self-management of health
SC1-PM-12–2016: PCP - eHealth innovation in empowering the patient
SC1-PM-13–2016: PPI for deployment and scaling up of ICT solutions for active and healthy ageing
SC1-PM-14–2016: EU-Japan cooperation on Novel ICT Robotics based solutions for active and healthy ageing at home or in care facilities
SC1-PM-15-2017: Personalised coaching for well-being and care of people as they age
Grazie per l’attenzione!

Lucia Monaco
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