Societal Challenge 1: “Health, demographic change & wellbeing”

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Dr Cristina Pascual | National Documentation Centre - EKT
- Horizon 2020: Societal Challenges
- Societal Challenge 1 (SC1): Health, demographic change & wellbeing
  - What, Why & How?
- SC1 Work Programme (WP)
  - New approach & Structure
- SC1 WP 2014-2015: Open calls
  - Call “Personalising Health & Care - (PHC)”
  - SC1 “Health Co-ordination Activities - (HCO)”
- SC1 related Initiatives
Horizon 2020: Societal Challenges (SCs)

- **Societal Challenges**: Addressing key societal challenges (climate, energy, transport etc) through multi-disciplinary applied research including social sciences & humanities

<table>
<thead>
<tr>
<th>Health, demographic change &amp; wellbeing</th>
<th>7 472 Mio € (current prices)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food security, sustainable agriculture &amp; forestry, marine &amp; maritime &amp; inland water research &amp; the Bioeconomy</td>
<td>3 851 Mio €</td>
</tr>
<tr>
<td>Secure, clean &amp; efficient energy *</td>
<td>5 931 Mio €</td>
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<tr>
<td>Smart, green &amp; integrated transport</td>
<td>6 339 Mio €</td>
</tr>
<tr>
<td>Climate action, environment, resource efficiency &amp; raw materials</td>
<td>3 081 Mio €</td>
</tr>
<tr>
<td>Inclusive, innovative &amp; reflective societies</td>
<td>1 310 Mio €</td>
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<tr>
<td>Secure societies</td>
<td>1 695 Mio €</td>
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Societal Challenge 1 (SC1) - Health, demographic change & wellbeing: **WHAT?**

The largest multi-national programme for collaborative research, global consortia, and public-public & public-private co-operation to:

- Fund excellent applied health & ageing research & innovation
- Bring together leading players from Europe & across the globe
- Tackle key European & global health challenges:
  - Ageing population
  - Increased disease burden
  - Unsustainable and unequal health & care systems
  - Health & care sector under pressure to reform

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SC1 - WHY?

Aims to:

- Translate science to benefit citizens
- Improve health outcomes
- Support a competitive health & care sector
- Test and demonstrate new health & care models, approaches and tools
- Promote healthy and active ageing
Societal Challenge: Health, demographic change & wellbeing

SC1 - HOW?

- **Budget:** 7,472 billion € (2014-2020)
- Based on the experience of the FP7-HEALTH Programme: programmatic approach, SME focus, prizes, co-operative research projects
- But includes ICT for Health (eHealth & ICT for Healthy Ageing) & CIP type of projects
- Integrated approach for SMEs: 20% of SCs budget should go to SMES (7% -SMEs instruments & 13% -collaborative projects)

Three EU Directorate General (DGs) have contributed to its strategy:
- **DG Research & Innovation:** FP7-HEALTH
- **DG CONNECT:** eHealth
- **DG SANCO (Public Health & Consumers):** Public Health

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SC1 Work Programme: New approach

- Two-year work programme 2014-2015
- Challenge-driven: based on relevant Health challenges such as Personalising Health & Care
- Broader and less prescriptive topics for proposal submission
- Stronger focus on end-users
- One & two-stages proposals
SC1 Work Programme: Structure

1. Personalising Health & Care (PHC)
   - 1.1. Understanding health, ageing & disease
   - 1.2. Effective health promotion, disease prevention, preparedness & screening
   - 1.3. Improving diagnosis
   - 1.4. Innovative treatments & technologies
   - 1.5. Advancing active & healthy ageing
   - 1.6. Integrated, sustainable, citizen-centred care
   - 1.7. Improving health information, data exploitation & providing an evidence base for health policies & regulation

2. Health Co-ordination activities (HCO)

3. Health Other Actions (HOA)
SC1 Work Programme 2014-2015

1,21 billion €

Call ‘Personalising Health & Care - PHC‘
34 topics (15 open in 2014, 17 in 2015, 2 in 2014 & 2015)

Call ‘Health Co-ordination Activities - HCO‘
16 topics (11 open in 2014, 5 in 2015)


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SC1 Work Programme 2014-2015: Example of Call’s Topic

- 'PHC 2 – 2015'
- 'Specific challenge'
- 'Scope'
- 'Expected impact'
- 'Type of action'

**PHC 2 – 2015: Understanding diseases: systems biology approach**

**Specific challenge:** The development of new and improved understanding of the causes of diseases is crucial. Conventional (bio)medicine approaches have the potential to miss some aspects of disease etiology. A multi-disciplinary approach is required to assemble the findings of a variety of biological and medical research disciplines. Systematic collaborative approach is required to assemble the findings of a variety of biological and medical research disciplines. A collaborative, systematic approach is required to assemble the findings of a variety of biological and medical research disciplines.

**Scope:** Proposals should focus on new avenues for the development and/or refinement of methods used for the understanding of disease. This includes development of novel models and/or tools for the analysis of biomedical and clinical data to produce or refine predictions and/or computational and mathematical approaches. The predictions should be validated in well-characterized patient cohorts, taking into account the potential of the new approach to thoroughly investigate the causes of disease.

The Commission considers that proposals requesting a funding of EUR 4 and 6 million would allow this specific challenge to be addressed. Nonetheless, this does not preclude submission of proposals requesting a higher funding amount.

**Expected impact:** This will provide:
- Leverage of existing investments in European initiatives
- New directions for better disease detection
- Systems medicine tools and approaches that will represent an improvement over conventional approaches

**Type of action:** Research and Innovation actions
SC1 Work Programme 2014-2015: Call “Personalising Health & Care – PHC”

- **34 topics**
  - 15 Topics open in 2014 (Budget 549.3 Mio. €);
  - 17 Topics in 2015 & 2 open in both years

- **Type of Actions: mostly collaborative research**
  - Most topics Research & Innovation Actions (RIA -100% funding rate)
  - 1 Innovation Action (IA - 70% funding rate);
  - & 1 Topic under the new SME-instruments (100 % funding rate)

- **Deadlines**
  - Two-stage topics: 11/03/2014 (stage 1) & 19/08/2014 (stage 2)
  - Single-stage topics: 15 April 2014
  - Topic under SME-instrument:
    - 3 cut-off dates for 2014 (phase 1)
    - 2 cut-off dates for 2014 (phase 2)
### SC1 Work Programme 2014-2015: Call PHC - Area 1

<table>
<thead>
<tr>
<th>AREA</th>
<th>TOPIC / YEAR</th>
<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 STAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.1 Understanding health, ageing &amp; disease</strong></td>
<td><strong>PHC 1 – 2014:</strong> Understanding health, ageing &amp; disease: determinants, risk factors &amp; pathways (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>54 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 2 – 2015:</strong> Understanding diseases: systems medicine (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>36 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 3 - 2015:</strong> Understanding common mechanisms of diseases &amp; their relevance in co-morbidities (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>30 Mio. €</td>
<td>2 stages</td>
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## SC1 Work Programme 2014-2015:
### Call PHC – Area 2

<table>
<thead>
<tr>
<th>AREA</th>
<th>TOPIC / YEAR</th>
<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
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<tbody>
<tr>
<td>PHC 4–2015:</td>
<td>Health promotion &amp; disease prevention: improved inter-sector co-operation for environment &amp; health based interventions (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>18 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 5–2014:</strong></td>
<td>Health promotion and disease prevention: translating ‘omics’ into stratified approaches (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>24 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 6–2014:</strong></td>
<td>Evaluating existing screening and prevention programmes (2-3 Mio €)</td>
<td>RIA (100%)</td>
<td>15 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 7–2014:</strong></td>
<td>Improving the control of infectious epidemics &amp; foodborne outbreaks through rapid identification of pathogens (see also SC2) (15-20 Mio €)</td>
<td>RIA (100%)</td>
<td>20 Mio. € (15 SC1 +5 SC2)</td>
<td>1 stage &amp; hearing</td>
</tr>
<tr>
<td><strong>PHC 8–2014:</strong></td>
<td>Vaccine development for poverty-related and neglected infectious diseases: Tuberculosis (15-20 Mio €)</td>
<td>RIA (100%)</td>
<td>25 Mio. €</td>
<td>1 stage &amp; hearing</td>
</tr>
<tr>
<td>PHC 9–2015:</td>
<td>Vaccine development for poverty-related and neglected infectious diseases: HIV/AIDS (15-20 Mio €)</td>
<td>RIA (100%)</td>
<td>21 Mio. €</td>
<td>1 stage &amp; hearing</td>
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### SC1 Work Programme 2014-2015: Call PHC – Area 3

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<tr>
<th>AREA</th>
<th>TOPIC / YEAR</th>
<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
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<tbody>
<tr>
<td><strong>1.3 Improving diagnosis</strong></td>
<td><strong>PHC 10 – 2014</strong>: Development of new diagnostic tools and technologies: in vitro devices, assays and platforms (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>48 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 11 – 2015</strong>: Development of new diagnostic tools and technologies: in vivo medical imaging technologies (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>47 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 12 – 2014/2015</strong>: Clinical research for the validation of biomarkers and/or diagnostic medical devices (50000 € phase 1; 2-5 Mio € phase 2)</td>
<td>SME (100%)</td>
<td>66.10 Mio. € (2014)+ 45 Mio. € (2015) (*10% phase 1; 88% phase 2; 2% phase 3)</td>
<td>Single stage – 2 cut off dates</td>
</tr>
</tbody>
</table>
## SC1 Work Programme 2014-2015: Call PHC – Area 4

### AREA: Innovative treatments & technologies

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<thead>
<tr>
<th>TOPIC / YEAR</th>
<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
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</thead>
<tbody>
<tr>
<td><strong>PHC 13 – 2014:</strong> New therapies for chronic non-communicable diseases (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>60 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 14 – 2015:</strong> New therapies for rare diseases (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>60 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 15 – 2014/2015:</strong> Clinical research on regenerative medicine (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>71 Mio. € (36 (2014)+ 35 (2015))</td>
<td>1 stage 2014</td>
</tr>
<tr>
<td><strong>PHC 16 – 2015:</strong> Tools and technologies for advanced therapies (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>36 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 17 – 2014:</strong> Comparing the effectiveness of existing healthcare interventions in the elderly (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>48 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td><strong>PHC 18 – 2015:</strong> Establishing effectiveness of healthcare interventions in the paediatric population (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>26 Mio. €</td>
<td>2 stages</td>
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SC1 Work Programme 2014-2015: Call PHC – Area 5

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<tr>
<th>AREA</th>
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<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
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</thead>
<tbody>
<tr>
<td>1.5 Advancing active &amp; healthy ageing</td>
<td><strong>PHC 19–2014</strong>: Advancing active &amp; healthy ageing with ICT: Service robotics within assisted living environments (3-4 Mio €)</td>
<td>RIA (100%)</td>
<td>24.6 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 20–2014</strong>: Advancing active &amp; healthy ageing with ICT: ICT solutions for independent living with cognitive impairment (2-3 Mio €)</td>
<td>IA (70%)</td>
<td>10 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 21–2015</strong>: Advancing active and healthy ageing with ICT: Early risk detection and intervention (3-4 Mio €)</td>
<td>RIA (100%)</td>
<td>21 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 22–2015</strong>: Promoting mental wellbeing in the ageing population (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>17 Mio. €</td>
<td>2 stages</td>
</tr>
</tbody>
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## SC1 Work Programme 2014-2015: Call PHC – Area 6

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<tr>
<th>AREA</th>
<th>TOPIC / YEAR</th>
<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6 Integrated, sustainable, citizen-centred care</td>
<td><strong>PHC 23–2014</strong>: Developing and comparing new models for safe and efficient, prevention oriented health and care systems (4-6 Mio €)</td>
<td>RIA (100%)</td>
<td>30 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 24–2015</strong>: Piloting personalised medicine in health and care systems (12-15 Mio €)</td>
<td>RIA (100%)</td>
<td>30 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 25 – 2015</strong>: Advanced ICT systems and services for Integrated Care (3-5 Mio €)</td>
<td>RIA (100%)</td>
<td>20 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 26–2014</strong>: Self-management of health and disease: citizen engagement and mHealth (3-5 Mio €)</td>
<td>RIA (100%)</td>
<td>59.6 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 27–2015</strong>: Self-management of health &amp; disease &amp; patient empowerment supported by ICT (3-5 Mio €)</td>
<td>PCP</td>
<td>15 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 28–2015</strong>: Self-management of health &amp; disease &amp; decision support systems based on predictive computer modelling used by the patient him or herself (3-5 Mio €)</td>
<td>RIA (100%)</td>
<td>20 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td><strong>PHC 29–2015</strong>: Public procurement of innovative eHealth services (1-5 Mio €)</td>
<td>PPI</td>
<td>10 Mio. €</td>
<td>1 stage</td>
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## SC1 Work Programme 2014-2015:
### Call PHC – Area 7

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<tr>
<th>AREA</th>
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<th>ACTION</th>
<th>BUDGET</th>
<th>1 or 2 ST</th>
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<tbody>
<tr>
<td><strong>1.7 Improving health information, data exploitation &amp; providing an evidence base for health policies &amp; regulation</strong></td>
<td>PHC 30–2015: Digital representation of health data to improve disease diagnosis and treatment (3-5 Mio €)</td>
<td>RIA (100%)</td>
<td>20 Mio.€</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td>PHC 31–2014: Foresight for health policy development &amp; regulation (2-3 Mio €)</td>
<td>RIA (100%)</td>
<td>6 Mio. €</td>
<td>1 stage</td>
</tr>
<tr>
<td></td>
<td>PHC 32–2014: Advancing bioinformatics to meet biomed &amp; clinical needs (2-3 Mio €)</td>
<td>RIA (100%)</td>
<td>24 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td>PHC 33–2015: New approaches to improve predictive human safety testing (10-15 Mio €)</td>
<td>RIA (100%)</td>
<td>30 Mio. €</td>
<td>2 stages</td>
</tr>
<tr>
<td></td>
<td>PHC 34–2014: eHealth interoperability (up to 1 Mio €)</td>
<td>CSA (100%)</td>
<td>4 Mio. €</td>
<td>1 stage</td>
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- **16 topics**: in support of ERA-NETs & Joint Programming Initiative's (JPIs) and to support international initiatives
  - 11 topics open in 2014 (budget 40 Mio. €)
  - 5 topics in 2015 (budget 29 Mio. €)

- **Type of Actions**
  - Mostly Coordination & Support Actions (CSAs -100% funding rate)
  - Except for 1 Research & Innovation Action (RIA - 100% funding rate for topic “Type 2 diabetes in the context of the Global Alliance for Chronic Diseases”)

- **Deadline Topics 2014**
  - Single-stage topics: 15 April 2014
SC1 – Related initiatives: Public-Public Partnerships (P2Ps) & Public-Private Partnerships (PPPs)

PPP – IMI 2
Innovative Medicines Initiative 2
www.imi.europa.eu

European Innovation Partnership on Active and Healthy Ageing
https://webgate.ec.europa.eu/eipaha

P2P – AAL2
Active & Assisted Living 2
www.aal-europe.eu

P2P – EDCTP2
European & Developing Countries Clinical Trials Partnership
www.edctp.org
Health topics in Horizon 2020:

Do also look elsewhere! EU support of HEALTH-related research & innovation is not limited to Societal Challenge 1!

- Excellence Science: Bottom-up programmes (ERC, FET etc..)
- Industrial Leadership: LEITs-Nanotechnologies (ex. nanomedicine)
- Societal Challenges: SC2 (ex. nutrition & health)

Thank you!

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