



Horizon 2020
Health, Demographic Change and Well-being
Open Info Day
8 July, Brussels

**ICT for Health, demographic change and
well-being – Work Programme 2016-17**



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Horizon 2020 SC1 Work Programme 2016 PM-16 & PM-17 Overview

SC1-PM-16–2017: In-silico trials for developing and assessing biomedical products

Challenge:

- The development of new biomedical products (drugs or devices) and their introduction to the market is very long and expensive
- Alternative methodologies are needed to reduce animal and human testing

Scope:

- Develop innovative in-silico trials to design, develop and assess drugs, other biomedical and bioactive products, devices. (In-silico trials refer to testing using computer simulations.)
- Scientific and technological solution and proof of concept
- Computer simulation of the individual human physiology and physiopathology at the relevant biological levels and the interaction with the product; build virtual populations of individual patients
- Measures for validation and quantification of benefits are mandatory

Expected impacts:

- Redesigning human clinical trials; reducing animal testing
- For biomedical products: safer, faster introduction on the market, cheaper, repositioning, post-commercial assessment
- Re-use in chemical testing; standards; libraries of virtual patients for testing

SC1-PM-16-2017: In-silico trials for developing and assessing biomedical products

Deadline, Budgets

- Submission deadline: 14/03/2017 (17.00.00 Brussels local time)
- RIA
- Cumulative threshold: 12 (4/4/3)
- Total Budget: €19M

SC1-PM-17-2017: Personalised computer models and in-silico systems for well-being

Challenge:

- Better understanding of the influence of external and internal (biological) factors on the resilience to challenges, illness, etc. and recovery

Scope:

- Development of new integrative dynamic computer-models and simulation systems
- Computer modelling and simulations able to aggregate various information
- Including individual/patient-specific information in a multi-scale approach
- Individual's lifetime taken into account if possible
- Topic SSH flagged

Expected impacts:

- New personalised interventions for increasing resilience and recovery
- Improve knowledge about human physiology and resilience in relation with SSH, association with life circumstances
- Predictive and preventive approaches in medicine, neurosciences and life sciences.

SC1-PM-17-2017: Personalised computer models and in-silico systems for well-being

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SC1-PM-17-2017 : Personalised computer models and in-silico systems for well-being

- This topic has high relevance in the context of Social Sciences and Humanities and Responsible Research and Innovation.
 - <https://ec.europa.eu/digital-agenda/en/responsible-research-and-innovation-ict-related-parts-h2020>

Contact and more info

Horizon 2020 Work Programme 2016-2017:

http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2016-17

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