European Commission

Horizon 2020 - societal challenge 1

Work Programme 2014 – 2015

Area: 8. Health, demographic change and wellbeing

(DG CNECT.H1 topics only)

Health Data and modelling

17 September 2014

NCP Training Day - Horizon 2020

Research & Innovation

PHC 28 – 2015) Self-management of health and disease and decisional support systems based on predictive computer modelling used by the patient him or herself

Scope

- Development of predictive decision support systems (DSS) based on computer modelling to be used by the individual in health and wellbeing in decision and/or co-decision
- Collection of various data, examples including physical training and performance, environmental data etc.
- Existing predictive computer models
- Processing in real-time
- Indications on the uncertainties and limits

PHC 28 – 2015) Self-management of health and disease and decisional support systems based on predictive computer modelling used by the patient him or herself

Expected Impact

- Improving the participation of the patient in the care process
- Improving the management of a disease by reducing the number of severe episodes and complications
- Increasing the importance of the prevention sector in healthcare using predictive modelling
- Boosting the development of personal devices used for self-management of health
- Improving for individuals the self-control of health and the disease prevention

Research and innovation action (100%), project size 3-5 million EUR
Budget 19,5 million EUR

PHC 30 – 2015) Digital representation of health data to improve diseases' diagnosis and treatment

Scope

- New decisional support systems
- Based on a more complex integration of heterogeneous data sources and subject-specific computer models (Digital Patient)
- Personalised prediction and decision
- Prevention, diagnosis or treatment
- Highly visual data representation
- Interactivity, friendly interfaces, usability

PHC30 – 2015) Digital representation of health data to improve diseases' diagnosis and treatment

Scope

- Models: Existing multi-scale and multi-level, personalised computer models: diseases/physiology/functional disorders when relevant for the clinical context
- Data: patient specific, population specific and all other relevant data (ex. history of patient, genomics, therapeutics, nutrition, molecular imaging data etc.). New technologies eg KET data.
- Emphasis on data standard formats
- Uncertainties and limits

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Improving health information, data exploitation and providing an evidence base for health policies and regulation

Horizon 2020 - societal challenge 1

PHC30 – 2015) Digital representation of health data to improve diseases' diagnosis and treatment

Expected Impact

- Better coherent use of health data and existing medical knowledge in clinical decision making
- Designing predictive and therapeutic interventions
- Better management of complex clinical situation
- Enabling use of the same information by the different medical services and relevant healthcare professionals
- Better control and inter-service coordination in the management of the patient health
- Providing a consistent view of a patient's care needs

Research and innovation action (100%), project size 3-5 million EUR;
Budget 20 million EUR

Research & Innovation

Contact and more info

Submission Deadline: 21-04-2015 17:00:00 (Brussels local time)

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Work Programme 2014-2015, 8. Health, demographic change and wellbeing:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-health_en.pdf