



REPUBLIC OF SLOVENIA
MINISTRY OF EDUCATION,
SCIENCE AND SPORT



HORIZON 2020 /Societal Challenge 1

Health, demographic change & wellbeing

WP 2014-2015

Zdravje, demografske spremembe in blaginja

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MIZŠ/ Direktorat za znanost
januar 2014

Delovni program (WP) 2014-2015

- Draft WP 2014-2015 objavljen 20.11.2013, v povezavi s SC1 Info dnevom v Bruslju 22.11.2013
- Teme: Zdravje & demografske spremembe & IKT
- Pri pripravi so sodelovali trije direktorati EC: DG Research&Innovation/Direct. F-Health, DG CONNECT (Communications Networks, Content & Technology)/Direct.H-Sustainable & Secure Society ter DG SANCO
- Vse teme, povezane IKT komponento so enofazni projekti, drugi tematski sklopi so eno- ali dvofazni
- **Razpis SC1 s končno verzijo WP 2014-2015 objavljen 11. decembra 2013 ;**
- Dvofazni projekti : „1 st stage application“
„2nd stage application“



Sestavni deli WP 2014-2015

1,21 billion Euro

- **34 tem Personalized Health &Care:** oznake v WP : **PHC 1- PHC 34** (15 tem v I.2014 , 17 v I.2015, 2 temi 2014 &2015)
- **16 drugih aktivnosti:** **HCO 1- HCO 16** (10 tem v I.2014, 6 v I.2015), od tega:
7 ERA Net Co-Fund aktivnosti : **HCO 7 - HCO 13**

Zdravje

Staranje in blaginja prebivalstva

- Razumevanje zdravja, procesa staranja in bolezni
- Ozaveščanje: skrb za zdravje, promocija zdravja, preventiva in nadzor zdravljenja
- Izboljševanje metod in instrumentov diagnosticiranja
- Inovativna zdravljenja in tehnologije (!kronične, redke in nalezljive bolezni)

- Spodbujanje aktivnega/zdravega staranja s pomočjo IKT tehnologij
- Inovativna zdravljenja&nove tehnologije pri zagotavljanju zdravja in zdravljenju starostnikov
- Integralna zdravstvena oskrba in nega prebivalstva: „e-Health“, „m -Health“
- Vzdrževanje baz zdravstvenih podatkov za diagnosticiranje, zdravljenje, klinične raziskave, idr
- Planiranje zdravstvenih politik in oblikovanje ustreznih regulativ

!!! Bistvene novosti v H2020 SC1 „Zdravje,demograf...“ glede na FP7

- Obsežne teme , integralen & interdisciplinaren pristop,
- Programske vsebine so izrazito horizontalno povezane:
ZDRAVJE se najbolj povezuje z IKT temami, področjem nanotehnologij, varno prehrano in biotehnologijo, raziskovalno infrastrukturo,klimatskimi spremembami,(Pril: „H2020 Health-related topics in other workprogrammes“)
- Izrazite IKT dopolnitve v ¾ podprogramov – Aging!
- V konzorciju je obvezna vključitev MSP (SME!) -vsaj 40%.
Primer: 4/10 partnerjev morajo biti obvezno podjetja (IKT!*)
- Vsi CRP (Collaborative Research Projects) so v celoti/ 100% financirani (ni več delitev 70 ali 100% kot v FP7)
- Poudarek pri ocenjevanju projektov bo na IMPACT, na rezultatih in dejanskih koristih v praksi – 4/5 točk /Evaluation !⁵

Najboljši v FP7 Health –univerze & inštituti (2007-2013)

Organizacija	Država	Vrednost/mEur
Institut National de la Sante & Recherche Medic	Francija	163
Karolinska Institutet	Švedska	96
University College London	Velika Britanija	82
University of Oxford	Velika Britanija	77
Erasmus Univ.Medisch centrum Rotterdam	Nizozemska	60
King's College London	Velika Britanija	58
Stichting Katholieke Universiteit Radboud	Nizozemska	56
University of Cambridge	Velika Britanija	56
Max – Planck Gesells. E.V	Nemčija	55
Imperial College London	Velika Britanija	54

Najboljši v FP7 Health – Podjetja (2007-2013)

Podjetje/SME	Država	Vrednost/mEu
GABO/(Ablauforganisation millitarium GmbH	Nemčija	16,4
BioCity Scotland Ltd	Velika Britanija	8,8
Taros Chemicals GmbH	Nemčija	7,4
MosaiquesDiagnostics GmbH	Nemčija	7,0
Cellectis AB	Švedska	6,4
Alacris Theranostics GmbH	Nemčija	6,2
GATC BIOTECH AG	Nemčija	6,2
European Screening Port	Nemčija	5,6
BIONTECH AG	Nemčija	5,6
MERCACHEM B.V	Nizozemska	5,3

Top 10 Koordinatorjev v FP7 Health (2007-2013)

Naziv organizacije	Država	št. projektov
INSRM *	Francija	38
Karolinska Institutet *	Švedska	27
University College London *	Velika Britanija	24
Erasmus Univ, Medisch Centrum Rotterdam *	Nizozemska	22
Stichting Katholieke Univ. *	Nizozemska	18
Academisch Ziekenhuis Leiden - LUMC	Nizozemska	13
Academisch Medisch Centrum. Univ. Amsterdam	Nizozemska	13
King's College London *	Velika Britanija	13
University of Oxford *	Velika Britanija	12
Univ.Medisch Centr. Utrecht	Nizozemska	10

Horizon 2020 Work Programme 2014-2015: Societal Challenge 1: Health, demographic change and wellbeing

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Topics under H2020-PHC-2014/2015	Funding Schemes and Conditions	Call identifier	Contacts
Understanding health, ageing and disease			
PHC 1 – 2014: Understanding health, ageing and disease: determinants, risk factors and pathways	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	<u>Environmental determinants</u> Tuomo Karjalainen Tuomo.Karjalainen@ec.europa.eu <u>Risk factors for diseases</u> Lara Passante Lara.Passante@ec.europa.eu <u>Determinants for healthy ageing</u> Beatrice Lucaroni Beatrice.Lucaroni@ec.europa.eu
PHC 2 – 2015: Understanding diseases: systems medicine	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Christina Kyriakopoulou Christina.Kyriakopoulou@ec.europa.eu
PHC 3 - 2015: Understanding common mechanisms of diseases and their relevance in co-morbidities	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Nathalie Vercruyse Nathalie.Vercruyse@ec.europa.eu
Effective health promotion, disease prevention, preparedness and screening			
PHC 4 – 2015: Health promotion and disease prevention: improved inter-sector co-operation for environment and health based interventions	<i>Research and Innovation actions EU contribution between €4m and €6m.</i>	H2020-PHC-2015-TWO-STAGE	Tuomo Karjalainen Tuomo.Karjalainen@ec.europa.eu Caroline Attard Caroline.Attard@ec.europa.eu
PHC 5 – 2014: Health promotion and disease prevention: translating 'omics' into stratified approaches	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	Tomasz Dylag Tomasz.Dylag@ec.europa.eu Caroline Attard Caroline.Attard@ec.europa.eu
PHC 6 – 2014: Evaluating existing screening and prevention programmes	<i>Research and Innovation actions EU contribution between €2m and €3m</i>	H2020-PHC-2014-TWO-STAGE	Rachida Ghaloui Rachida.Ghaloui@ec.europa.eu Ana Paola Valeri Lozano Anna-Paola.Valeri-Lozano@ec.europa.eu
PHC 7 – 2014: Improving the control of infectious epidemics and foodborne outbreaks through rapid identification of pathogens (see also societal challenge 2)	<i>Research and Innovation actions EU contribution between €15m and €20m.</i>	H2020-PHC-2014-SINGLE-STAGE	Birgit Van Tongelen Birgit.Van-Tongelen@ec.europa.eu Cornelius Schmaltz Cornelius.Schmaltz@ec.europa.eu

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PHC 8 – 2014: Vaccine development for poverty-related and neglected infectious diseases: Tuberculosis	<i>Research and Innovation actions EU contribution between €15m and €25m</i>	H2020-PHC-2014-SINGLE-STAGE	Hannu Laang Hannu.Laang@ec.europa.eu
PHC 9 – 2015: Vaccine development for poverty-related and neglected infectious diseases – HIV/AIDS	<i>Research and Innovation actions EU contribution between €15m and €20m</i>	H2020-PHC-2015-SINGLE-STAGE	Alessandra Martini Alessandra.Martini@ec.europa.eu
Improving diagnosis			
PHC 10 – 2014: Development of new diagnostic tools and technologies: <i>in vitro</i> devices, assays and platforms.	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	Dirk Hadrich Dirk.Hadrich@ec.europa.eu Arjon Van Hengel Adrianus.Van-Hengel@ec.europa.eu
PHC 11 – 2015: Development of new diagnostic tools and technologies: <i>in vivo</i> medical imaging technologies	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Alexandru Costescu Alexandru-Sorin.Costescu@ec.europa.eu
PHC 12 – 2014/2015: Clinical validation of biomarkers and/or diagnostic medical devices	<i>SME instrument (max. 100% funding) EU contribution phase 1: lump sum of € 50.000; phase 2 between €1m and €5m. Participants can apply for phase 1 and later for phase 2 or directly for phase 2</i>	H2020-SMEINST-1-2014 H2020-SMEINST-2-2014 H2020-SMEINST-1-2015 H2020-SMEINST-2-2015	Jean-Luc Sanne Jean-Luc.Sanne@ec.europa.eu
Innovative treatments and technologies			
PHC 13 – 2014: New therapies for chronic non-communicable diseases	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	Virginija Dambrauskaitė Virginija.Dambrauskaitė@ec.europa.eu
PHC 14 – 2015: New therapies for rare diseases	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Egle Simelyte Egle.Simelyte@ec.europa.eu David Ganberg David.Ganberg@ec.europa.eu
PHC 15 – 2014/2015: Clinical research on regenerative medicine	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-SINGLE-STAGE/ H2020-PHC-2015-SINGLE-STAGE	Charles Kessler Charles.Kessler@ec.europa.eu
PHC 16 – 2015: Tools and technologies for advanced therapies.	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Torbjörn Ingemansson Torbjörn.Ingemansson@ec.europa.eu
PHC 17 – 2014: Comparing the effectiveness of existing healthcare interventions in the elderly	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	Jan-Willem van de Loo Jan-Willem.Van-De-Loo@ec.europa.eu

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PHC 18 – 2015: Establishing effectiveness of health care interventions in the paediatric population	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Grigorij Kogan Grigorij.Kogan@ec.europa.eu
Advancing active and healthy ageing			
PHC 19 – 2014: Advancing active and healthy ageing with ICT: Service robotics within assisted living environments	<i>Research and Innovation actions EU contribution between €3m and €4m</i>	H2020-PHC-2014-SINGLE-STAGE	Peter Wintlev-Jensen Peter.Wintlev-Jensen@ec.europa.eu
PHC 20 – 2014: Advancing active and healthy ageing with ICT: ICT solutions for independent living with cognitive impairment	<i>Innovation actions EU contribution between €2m and €3m</i>	H2020-PHC-2014-SINGLE-STAGE	Peter Wintlev-Jensen Peter.Wintlev-Jensen@ec.europa.eu
PHC 21 – 2015: Advancing active and healthy ageing with ICT: Early risk detection and intervention	<i>Research and Innovation actions EU contribution between €3m and €4m</i>	H2020-PHC-2015-SINGLE-STAGE	Peter Wintlev-Jensen Peter.Wintlev-Jensen@ec.europa.eu
PHC 22 – 2015: Promoting mental wellbeing in the ageing population	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2015-TWO-STAGE	Sigrid Weiland Sigrid.Weiland@ec.europa.eu
Integrated, sustainable, citizen-centred care			
PHC 23 – 2014: Developing and comparing new models for safe and efficient, prevention oriented health and care systems	<i>Research and Innovation actions EU contribution between €4m and €6m</i>	H2020-PHC-2014-TWO-STAGE	Barbara Kerstiens Barbara.Kerstiens@ec.europa.eu Katarina Krepelkova Katarina.Krepelkova@ec.europa.eu
PHC 24 – 2015: Piloting personalised medicine in health and care systems	<i>Research and Innovation actions EU contribution between €12m and €15m</i>	H2020-PHC-2015-TWO-STAGE	Sasa Jenko Sasa.Jenko@ec.europa.eu Barbara Kerstiens Barbara.Kerstiens@ec.europa.eu
PHC 25 – 2015: Advanced ICT systems and services for Integrated Care	<i>Research and Innovation actions EU contribution between €3m and €5m</i>	H2020-PHC-2015-SINGLE-STAGE	Loukianos Gatzoulis Loukianos.Gatzoulis@ec.europa.eu
PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth	<i>Research and Innovation actions EU contribution between €3m and €5m</i>	H2020-PHC-2014-SINGLE-STAGE	Jaakko Aarnio Jaakko.Aarnio@ec.europa.eu
PHC 27 – 2015: Self-management of health and disease and patient empowerment supported by ICT	<i>Pre-commercial procurement co-fund actions EU contribution between €3m and €5m</i>	H2020-PHC-2015-SINGLE-STAGE	Jaakko Aarnio Jaakko.Aarnio@ec.europa.eu

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PHC 28 – 2015: Self-management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself	<i>Research and Innovation actions EU contribution between €3m and €5m</i>	H2020-PHC-2015-SINGLE-STAGE	Amalia Vlad Amalia-Irina.Vlad@ec.europa.eu
PHC 29 – 2015: Public procurement of innovative eHealth services	<i>Public procurement of innovative solutions co-fund actions EU contribution between €1m and €5m</i>	H2020-PHC-2015-SINGLE-STAGE	Jaakko Aarnio Jaakko.Aarnio@ec.europa.eu
Improving health information, data exploitation and providing an evidence base for health policies and regulation			
PHC 30 – 2015: Digital representation of health data to improve disease diagnosis and treatment	<i>Research and Innovation actions EU contribution between €3m and €5m</i>	H2020-PHC-2015-SINGLE-STAGE	Amalia Vlad Amalia-Irina.Vlad@ec.europa.eu
PHC 31 – 2014: Foresight for health policy development and regulation	<i>Research and Innovation actions EU contribution between €2m and €3m</i>	H2020-PHC-2014-SINGLE-STAGE	Stefaan van der Borght Stefaan.van-der-Borgh@ec.europa.eu Barbara Kerstiens Barbara.Kerstiens@ec.europa.eu
PHC 32 – 2014: Advancing bioinformatics to meet biomedical and clinical needs	<i>Research and Innovation actions EU contribution between €2m and €3m</i>	H2020-PHC-2014-TWO-STAGE	Christina Kyriakopoulou Christina.Kyriakopoulou@ec.europa.eu
PHC 33 – 2015: New approaches to improve predictive human safety testing	<i>Research and Innovation actions EU contribution between €10m and €15m</i>	H2020-PHC-2015-TWO-STAGE	Christian Desaintes Christian.Desaintes@ec.europa.eu
PHC 34 – 2014: eHealth interoperability	<i>Coordination and support action. EU contribution: up to € 1m</i>	H2020-PHC-2014-SINGLE-STAGE	Benoit Abeloos Benoit.Abeloops@ec.europa.eu

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HCO 12 – 2015: ERA-NET: Antimicrobial Resistance	<i>ERA-NET Co-fund EU contribution of minimum €5m</i>	H2020-HCO-2015	Arjon Van Hengel Adrianus.Van-Hengel@ec.europa.eu Patricia Paukovits Patricia.Paukovits@ec.europa.eu
HCO 13 – 2015: ERA-NET: Cardiovascular disease	<i>ERA-NET Co-fund EU contribution of minimum €5m</i>	H2020-HCO-2015	Virginija Dambrauskaitė Virginija.Dambrauskaitė@ec.europa.eu
HCO 14 – 2014: Bridging the divide in European health research and innovation	<i>Coordination and support actions EU contribution up to €500.000</i>	H2020-HCO-2014	Ferenc Marófka Ferenc.Marofka@ec.europa.eu
HCO 15 – 2014: Mobilisation and mutual learning action plan 1	<i>Coordination and support actions EU contribution up to €1m</i>	H2020-HCO-2014	Lino Paula Lino.Paula@ec.europa.eu
HCO 16 – 2014: National Contact Points	<i>Coordination and support actions EU contribution up to €2m</i>	H2020-HCO-2014	Antoine Mialhe Antoine.Mialhe@ec.europa.eu

Zdravje & Demografske spremembe (Staranje!) & IKT -primeri

- V WP 2014-2015 kar 10 od 34 vsebinskih tem („PHC part“)
- PHC 19, 20 (2014), PHC 21- 2015: Advancing and healthy aging with ICT
- PHC 22- 2015: Promoting mental wellbeing in the aging population
- PHC 25- 2015: Advanced ICT systems and services for integrated care
- PHC 26- 2014: **Self-management of health and disease: citizen engagement and mHealth**
- PHC 27-2015: Self-management of health and disease and patient empowerment supported by ICT
- PHC 28-2015: Self-management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself
- PHC30-2015: eHealth Sectorial Inducement Prize
- PHC31-2015: Digital representation of health data to improve disease diagnosis and treatment

PHC 26 -2014) Self-management of health and disease: citizen engagement and mHealth

Scope

- focus on patients or healthy persons
 - health management addressed in a holistic approach
- (i) citizen engagement in health, wellbeing and prevention of diseases
- Creation of a supportive environment for healthy behaviour
 - Health promotion, health literacy and disease prevention
 - Development of a multi-stakeholder ecosystem
 - A migration path towards comprehensive solutions that could be incorporated into health care processes

PHC 26 -2014) Self-management of health and disease: citizen engagement and mHealth

Scope, cont...

(ii) mHealth apps for disease management

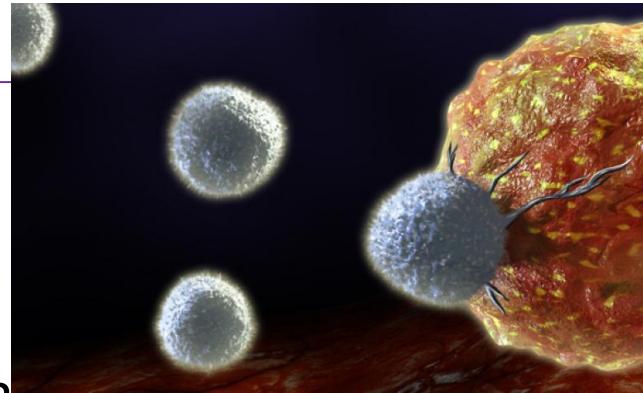
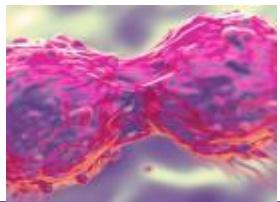
- **co-designing** and user needs as a key driver; knowledge management systems; **guidance** for patients, care-givers, families and patients' social environment; **patient adherence** to and **compliance** with medical recommendations; **economic** aspects; **secondary prevention**; addressing **avoidable negative** health and wellbeing **outcomes**; **screening** for pre-frailty states; **public health or health promotion interventions** addressed to large sectors of population through mHealth applications and; co-operative ICTs to support **co-operative management** of health and disease among patients and **eco-health** systems.

ERA Nets v SC1 „Health,demographic change & wellbeing WP 2014-2015

- Skupaj 15 ERA Netov v WP 2014-2015: Slovenija se je (okt. 2013 /MSEG SC1) opredelila za načelno in finančno podporo 3 izmed njih

Oznaka /naziv ERA Net	Indikat. proračun/ 1000 (tisoč) Eur	Leto pričetka
HCO7 Establishing synergies between JPND and Horizon 2020	100.000 Eur/leto	2014
HCO8 Aligning national/ regional transnational cancer research programs	250.00 Eur/leto	2014
HCO13 Cardiovascular diseases	220.000 Eur/leto	2015 *

Raziskave raka – številne priložnosti v WP 2014-2015



- Kar 1,8 milijon ljudi v Evropi l. 2012 umrlo za različnimi oblikami raka
- Rak= drugi najhujši ubijalec/takoj za CVD
- H2020 Magazine Nov. 2013=mesec raziskav raka
- **MOŽNOSTI ZA SODELOVANJE**
- Iz 7. OP še TRANSCAN , v **H2020 Era Net HCO8** že potrjen z veliko večino držav članic, Slovenija sodeluje
- Podrobni pregled vsebin WP 2014-2015/PHC1- PHC34: predvsem Understanding common mechanisms of diseases, Health promotion and disease prevention , Development of new diagnostic tools and technologies „... (več podnaslovov)
- **IMI 1 Call 11 & IMI 2**

Poleg vsebin WP 2014-2015

- IMI -1 Call 11 – razpis objavljen 11/12/2013
www.imi.europa.eu
- IMI- 2 / Innovative Medicines Initiative (PPP: ½ zasebnih partnerjev!) ; SRA 2014-2024
- *** IMI Info dan 13/1/2014 Fakulteta za farmacijo, 13.30-16.30 – EC & EFPIA & IMI
- EDCTP-2 / European & Developing Countries Clinical Trials Partnership 2 www.edctp.org
- AAL = Active and Assisted Living Joint Programme www.aal-europe.eu
- Active & Healthy Ageing /European Innovation Partnership on AHA <https://webgate.ec.europa.eu/eipaha>
- ERA Net Co-Fund : Info day v Bruslju 16/1/2014



„The dose makes the poison“
(Paracelsus 1493-1541)

**Veliko sreče pri iskanju dobrih partnerjev,
še boljših koordinatorjev in uspeha pri
pripravi projektov**

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