

Fit for Health 2.0

Support to SMEs & Researchers in FP7 and Horizon 2020 health-oriented projects

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



www.fitforhealth.eu

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Dr Cristina Pascual | National Documentation Centre - EKT



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the European Commission



- Horizon 2020: Societal Challenges
- Societal Challenge 1 (SC1):
Health, demographic change & wellbeing
 - What, Why & How?
- SC1 Work Programme (WP)
 - New approach & Structure
 - WP 2014-2015
 - Draft WP 2016-2017
- SC1 related Initiatives

Horizon 2020 - Societal Challenges

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



Health, Demographic Change & Wellbeing (SC1)	7 472 Mio € (current prices)
Food security, sustainable agriculture & forestry, marine & maritime & inland water research & the Bioeconomy	3 851 Mio €
Secure, clean & efficient energy *	5 931 Mio €
Smart, green & integrated transport	6 339 Mio €
Climate action, environment, resource efficiency & raw materials	3 081 Mio €
Inclusive, innovative & reflective societies	1 310 Mio €
Secure societies	1 695 Mio €

Health, Demographic Change & Wellbeing: WHAT & WHY?

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

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



Health, Demographic Change & Wellbeing: HOW?

- Budget: 7,472 billion € (2014-2020)
- Based on the experience of the **FP7-HEALTH Programme**: programmatic approach, SME focus, prizes, co-operative research
- But includes **ICT for Health & market-driven** 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

SC1 Work Programme: New approach

- **Two-years** work programme: 2014-2015 / 2016 -2017
- **Challenge-driven:** Personalising Health & Care
- **Broader & less prescriptive topics**
- Stronger focus on **end-users**
- **Clinical trials**



Example of Call Topic

PHC 2 – 2015: Understanding diseases: systems medicine

Specific challenge: The development of new improved understanding of the often very complex (bio) medicine approaches have the potential to transform a variety of biological and medical research data. A collaborative approach is required to assemble the data from biology, medicine, mathematics, computational science and systems medicine approaches.

Scope: Proposals should focus on new avenues for identifying phenotypes in multifactorial diseases and/or the development/optimisation and/or application of systems of biomedical and clinical data to produce or refine computational and mathematical approaches. The data should be validated in well-phenotyped patient cohorts, taking into account potential thoroughly investigated.

The Commission considers that proposals requesting up to EUR 4 and 6 million would allow this specific challenge. Nonetheless, this does not preclude submission of proposals for smaller amounts.

Expected impact: This will provide:

- Leverage of existing investments in Europe
- New directions for better disease detection and diagnosis
- Systems medicine tools and approaches that will be used in clinical practice which represent an improvement over existing approaches

Type of action: Research and Innovation action

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

SC1 Work Programme 2014-2015: 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: Calls



1,21
billion €

Call 'Personalising Health & Care - PHC'

- 34 topics (15 open in 2014, 17 in 2015, 2 in 2014 & 2015)
- Most topics: RIAs (1 IA & 1 SME instrument)
- Single & two-stage topics

Call 'Health Co-ordination Activities - HCO'

- 16 topics (10 open in 2014, 6 in 2015)
- Most topics: CSAs (1 RIA)
- Single-stage topics

[http://ec.europa.eu/research/participants/portal/doc/call/h2020/
common/1587763-08_health_wp2014-2015_en.pdf](http://ec.europa.eu/research/participants/portal/doc/call/h2020/common/1587763-08_health_wp2014-2015_en.pdf)

SC1 Work Programme 2014-2015: Feedback

- **Broad** formulation of topics
- **Oversubscription**
 - Proposals clear & detailed
 - Close to market topics: market analyses, business plans, involvement of industry & end users,
 - ICT topics: innovation, IPR, business models, industry, end users, social awareness
 - Clinical trials: addressed in detail
- EC suggest **budget range & no negotiation phase**

SC1 WP 2014	Proposals submitted	Participants in proposals	Funded projects Coordinators (Co) & Partners (P)	EC Contribution (Mio euros)	Applicants Success Rate
Total	1.458	11.738	165 Co & 1316 P	594	13%
Romania	4	104	0 Co & 14 P	2.6	13%
Main partner countries in funded projects =				Italy, Germany & UK	

SC1 Work Programme 2016 - 2017: Structure

1. Personalised Medicine (PM)

- 1.1. Understanding health, well-being & disease
- 1.2. Preventing disease
- 1.3. Treating & managing diseases
- 1.4. Active ageing & self-management of Health
- 1.5. Methods & data
- 1.6. Healthcare provision & integrated care

2. Health Co-ordination activities (HCO)

3. Health Other Actions (HOA)

Draft SC1 Work Programme 2016 - 2017*

Area		Topic keywords (Year)	Action
Personalised Medicine (PM)	1.1 Understanding health, well-being & disease	Multi omics, personalised therapies (2016)	RIA
		<i>Patient stratification, personalised therapies (2017)</i>	RIA
		Molecular characterisation, rare diseases (2016)	RIA
		Integration, EU population cohorts (2016)	RIA

**under discussion*

Draft SC1 Work Programme 2016 - 2017*

	Area	Topic keywords (Year)	Action
Personalised Medicine (PM)	1.2 Preventing disease	EU joint programme, human biomonitoring, chemicals exposure (2016)	RIA
		Vaccine, malaria , neglected infectious diseases (2016)	RIA
		<i>Prevention, mental health & well-being, young people (2017)</i>	<i>RIA</i>

**under discussion*

Draft SC1 Work Programme 2016 - 2017*

Area	Topic keywords (Year)	Action
Personalised Medicine (PM)	1.3 Treating & managing diseases	<i>Novel therapies, orphan designation, clinical trials, rare diseases (2017)</i>
		Novel therapies, optimisation therapies, chronic diseases (2016)
		<i>Effective, cost-effective, comparison healthcare interventions, adults (2017)</i>
		Clinical research, regenerative medicine therapies (2016 & 2017)
		Cell technology, medical applications (2016 & 2017)
		Clinical validation, biomarkers, diagnostic medical devices (2016)
		RIA
		RIA
		RIA
		RIA
		SME (Phase 1 & 2)
		SME (Phase 2)

**under discussion*

Draft SC1 Work Programme 2016 - 2017*

Area		Topic keywords (Year)	Action
Personalised Medicine (PM)	1.4 Active ageing & self- management of health	EU eHealth SMEs (2016 & 2017)	SME - Phase 1 &/or 2
		ICT solutions, active & health ageing, open platforms (2016 & 2017)	SME - Phase 1 &/or 2
		eHealth services, hospitalised patients (2016)	PCP co-fund
		Scale-up, active & healthy ageing solutions, (2016)	PPI co-fund
		Robotics, active & healthy ageing, home or care facilities (2016)	RIA (EU-Japan)
		<i>Virtual personalised coaching, active & healthy ageing (2017)</i>	<i>RIA (100%)</i>

**under discussion*

Draft SC1 Work Programme 2016 - 2017*

Area	Topic keywords (Year)	Action
Personalised Medicine (PM)	1.5 Methods & data	
	<i>In-silico trials, biomedical products (2017)</i>	RIA
	Digital security, storage & exchange, health data (2016)	RIA
	<i>Computer models, simulation systems, well-being (2017)</i>	RIA
	Big data, public health policies (2016)	RIA
	<i>EU interoperability standards, eHealth records (2017)</i>	PPI co-fund
	<i>Novel methods, economic evaluation, efficiency, health sector (2017)</i>	RIA

**under discussion*

Draft SC1 Work Programme 2016 - 2017*

Area	Topic keywords (Year)	Action
Personalised Medicine (PM)	1.6 Health care provision & integrated care	Scaling-up, novel interventions, better & sustainable health systems (2016) RIA

**under discussion*

Draft SC1 Work Programme 2016 - 2017*



	Topic keywords (Year)	Action
Health co-ordination activities (HCO)	Valorisation, H2020 & FP7, Health research results (2016)	CSA
	Standardisation, in-vitro diagnostics (2016)	CSA
	<i>Strategic research & innovation agenda, EU personalised medicine (2017)</i>	ERA-NET Co-fund
	Joint Programming Initiative- Antimicrobial resistance, globalisation (2016)	CSA
	EU collaborative platform, personalised medicine research (2016)	CSA
	<i>Global Alliance for Chronic Diseases (2017)</i>	
	<i>EU disparities, Health research & innovation performance, remediation (2017)</i>	CSA

**under discussion*

Draft SC1 Work Programme 2016 - 2017*



	Topic keywords (Year)	Action
Health co-ordination activities (HCO)	EU m-Health hub, non-communicable diseases (2016)	CSA
	Support structure, EU top Health ICT SMEs (2016)	CSA
	Demographic change, silver economy opportunities (2016)	CSA
	Digital Health literate citizens (2016)	CSA
	Healthcare workforce, IT skills & training, EU-US collaboration (2016)	CSA
	EU-US eHealth roadmap, interoperability framework (2016)	CSA
	EU eHealth Interoperability Framework, sustainable EU conformance assessment (2016)	CSA
	Standardisation, ICT for Active & Healthy Ageing (2016)	CSA

**under discussion*

SC1 Work Programme 2016-2017: **Important dates**

- Spring/summer 2015: Preparation of WP
- September 2015: Publication of WP
- End of 2015: First calls deadlines
- 17/09/2015: FFH & EC Partnering event (Brussels, Belgium)
- 18/09/2015: EC SC1 Information day (Brussels, Belgium)
- 20-22/10/2015: EU event on ICT research (Lisbon, Portugal)

SC1 Related initiatives



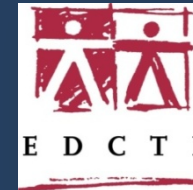
IMI 2
Innovative Medicines Initiative 2
www.imi.europa.eu



**European Innovation Partnership on
Active and Healthy Ageing - EIP AHA**
<https://webgate.ec.europa.eu/eipaha>



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

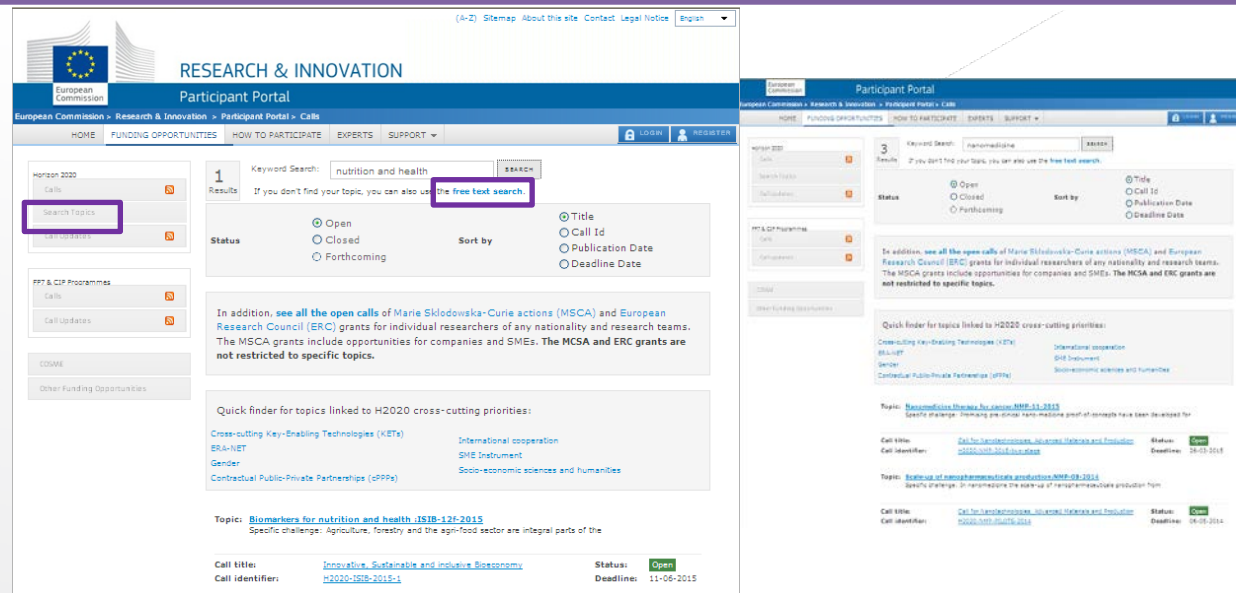


EDCTP2
**European & Developing Countries
Clinical Trials Partnership**
www.edctp.org

Health-related topics in Horizon 2020:

Do also look elsewhere!

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



The image displays two screenshots of the European Commission Research & Innovation Participant Portal. The left screenshot shows the search results for 'nutrition and health' with a 'free text search' button highlighted. The right screenshot shows search results for 'nanomedicine' with a 'free text search' button highlighted.

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

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ΕΘΝΙΚΟ ΚΕΝΤΡΟ
ΤΕΚΜΗΡΙΩΣΗΣ
N A T I O N A L
D O C U M E N T A T I O N
C E N T R E

Thank you!

Dr Cristina Pascual | EKT

cpascual@ekt.gr | www.ekt.gr