Horizon2020

SC1 – Health, Demographic change and Wellbeing - Opportunità per l'area "Salute (2018-2020)"

Bruno MOURENZA

Horizon 2020

Punto di Contatto Nazionale SC1



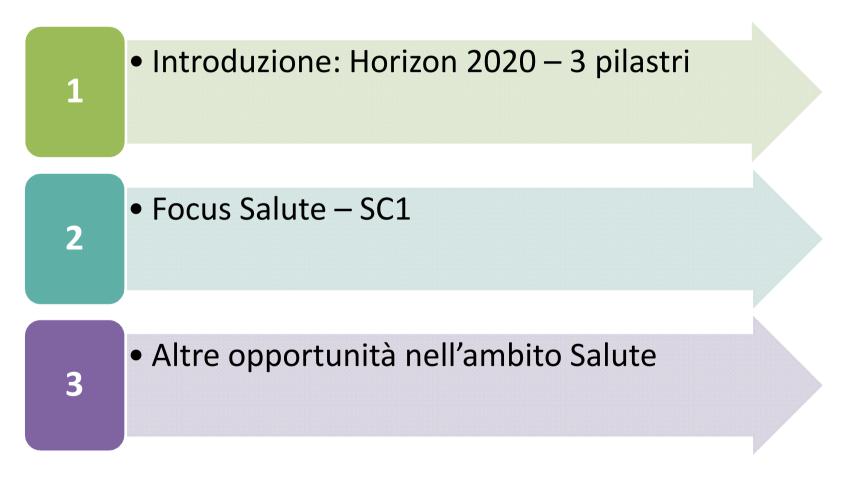
13/10/2017



APRF Agenzia per la Promozione



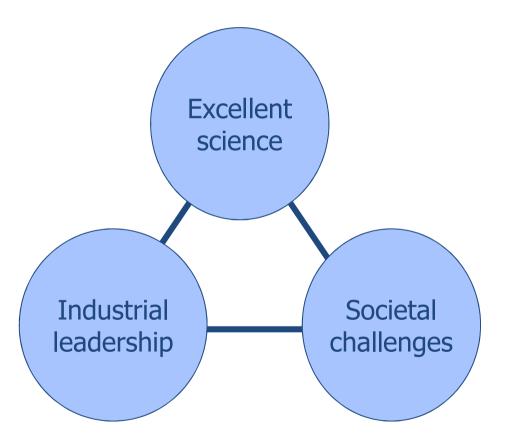
AGENDA della giornata







H2020/ The Three Pillars





Struttura del programma H2020

Excellent Science

European Research Council

Frontier research by the best individual teams

Future and Emerging Technologies

 Collaborative research to open new fields of innovation

Marie Skłodowska Curie actions

 Opportunities for training and career development

Research infrastructures

(including e-infrastructure)

 Ensuring access to world-class facilities

Industrial Technologies

Leadership in enabling and industrial technologies

 ICT, nanotechnologies, materials, biotechnology, manufacturing, space

Access to risk finance

 Leveraging private finance and venture capital for research and innovation

Innovation in SMEs

 Fostering all forms of innovation in all types of SMEs

Societal Challenges

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enteroris

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies

wwwww.cipie.ic

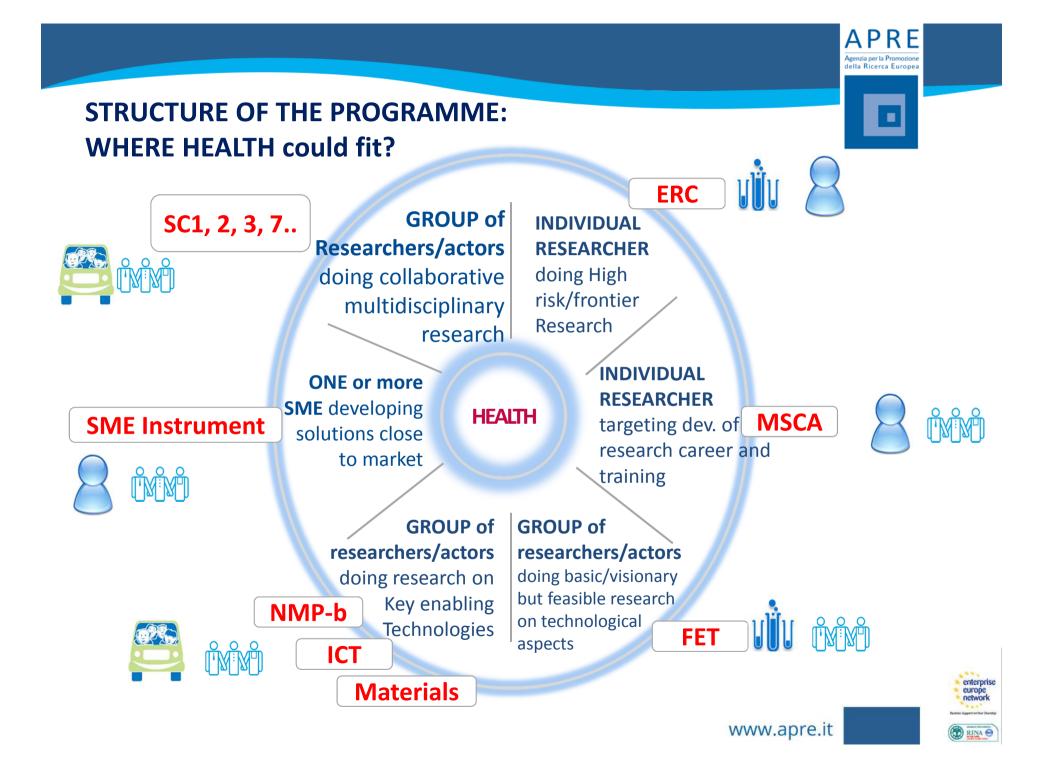
Secure societies

European Institute of Innovation and Technology (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)

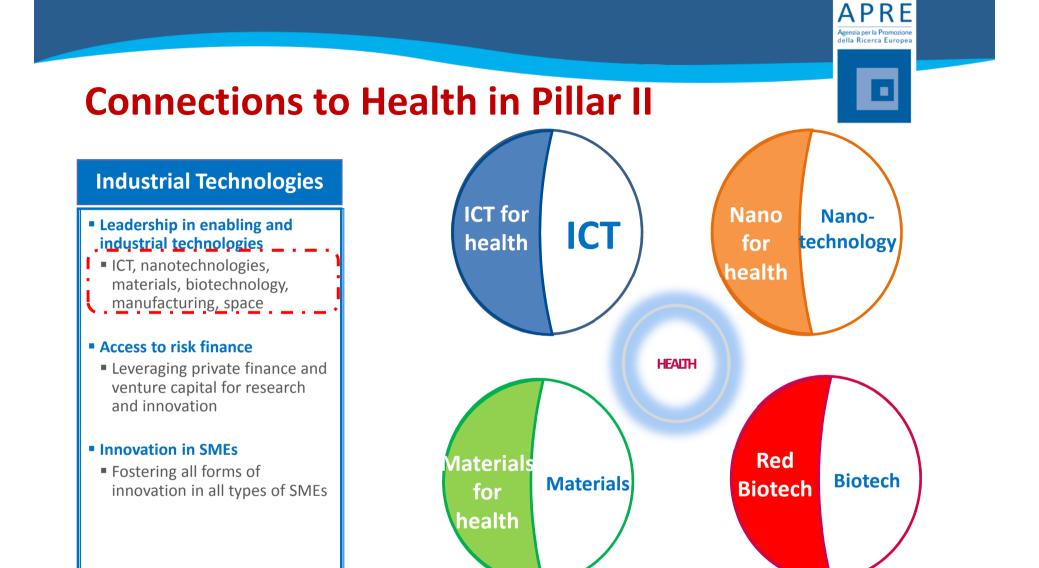




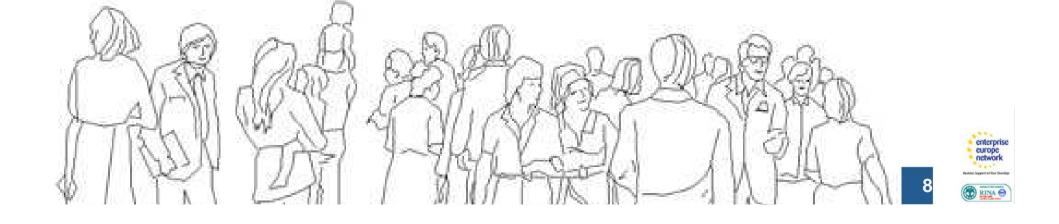
2° PILLAR

INDUSTRIAL LEADERSHIP









SOCIETAL CHALLENGES

3° PILLAR

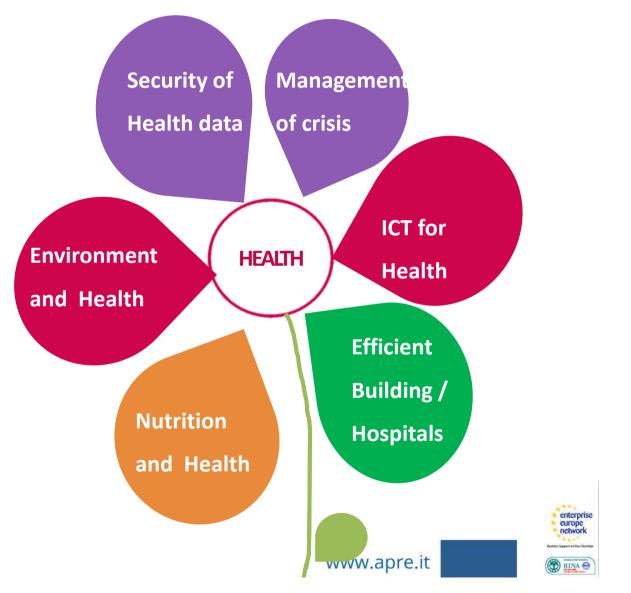




HEALTH implications in Societal Challenges

Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society





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SC1. HEALTH, DEMOGRAPHIC CHANGE AND WELLBEING









Programmazione dei prossimi 3 anni di H2020 SC1 2018-2020





Nuova struttura del WP SC 1 2018-2020

Call 1. Better health and care, economic growth and sustainable health systems (RTD)

- 1.1 Personalised medicine
- 1.2 Innovative health and care industry
- 1.3 Infectious diseases and improving global health
- 1.4 Innovative health and care systems Integration of care
- 1.5 Decoding the role of the environment for health and well-being

Call 2. Digital Transformation in Health and Care (CNECT)

Call 3. Trusted digital solutions and cybersecurity in health and care (CNECT)

Other actions (including prizes)

2020: Calls 1. and 2. and Other actions - only titles, no text





Call 1 - Better Health and care, economic growth and sustainable health systems

aims to achieve:

Develop sustainable health and care systems and growth opportunities for the health and care related industries;

□ Health and care systems and services more accessible, responsive and efficient

The scope of the call may range from prevention, diagnosis, stratified approaches, predictive toxicology, novel and repurposed therapeutic approaches, including medical technologies and advanced therapies, cohorts and registries-based research, integration of care and systemic digital solutions for health and ageing well





Call 2 - Digital transformation in Health and Care

aims to achieve:

□transformation of health and care services to <u>more digitised</u>, <u>person-centred and</u> <u>community-based care models</u>.

 Maximize the potential of the <u>digital economy</u> in the health and care sectors
 2 relevant priorities to the EC and to the <u>European Cloud Initiative</u> and the <u>European Free Flow of Data Initiative</u>

The call will address eHealth, mobile health (mHealth) and Information and Communication Technologies (ICT) for Active and Healthy Ageing.





Call 3 - Trusted digital solutions and Cybersecurity in Health and Care

aims to achieve:

□ <u>Cybersecurity</u> to assure data privacy, security and protection of health and care infrastructures.

□ contribute to the following Focus Areas from WP ICT 2018-20: <u>'Digitising and</u> <u>transforming European industry and services'</u> and <u>'Boosting the effectiveness of the</u> <u>Security Union'</u>.

It addresses the need for *secure and user-driven ICT-based solutions in early risk detection and interventions with big data approaches* that enable aggregation of a variety of new and existing data sources such as medical records, registries, social platforms and other environmental, physiological and behavioural data, including data from large scale pilots on smart living environments.

www.apre.it

Call - Better Health and care, economic growth and sustainable health systems	
alised medicine	
SC1-BHC-02-2019: Systems approaches for the discovery of combinatorial therapies for	
complex disorders	
SC1-BHC-03-2018: Exploiting research outcomes and application potential of the human	
microbiome for personalised prediction, prevention and treatment of disease	
SC1-BHC-04-2018: Rare Disease European Joint Programme Cofund	
SC1-BHC-05-2018: International flagship collaboration with Canada for human data	
storage, integration and sharing to enable personalised medicine approaches	
SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for	
Personalised Medicine 18	
SC1-HCO-02-2018: Data integration and data-driven in-silico models for enabling	
personalised medicine - a European standardization framework. 21	
SC1-HCO-04-2018: ERA-NET to support the Joint Programming in Neurodegenerative	
Diseases strategic plan (JPND) 23	
1 Turanting and	
SC1-BHC-07-2019: Regenerative medicine: from new insights to new applications	
SC1-BHC-09-2018: Innovation platforms for advanced therapies of the future	
SC1-BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for	
routine diagnosis 27	
SC1-HCO-05-2018: Strengtheming regulatory sciences and supporting regulatory scientific	
advice 28	
1.3 Infectious diseases and improving global health	
SC1 RUC 12 2010. Minimutic data for early detertion of infections disease threats deiren	
but dimate change and other factors	
second assessed to second assessed as to second	
and/or mus of infactions diseases	
active areats for available and for treatment of numbers	
infections diseases (NID)	
lliance for Chronic Diseases (GACD) - Scaling-up of	
evidence-based health interventions at population level for the prevention and management	
of hypertension and/or diabetes.	
between Europe and the	+
Commuty of Latin American and Caribbean States (CELAC)	





SC1-BHC-19-2019: Implementation research for maternal and child health
patients with mono-, co-infections and/or comorbidities in the context of fostering
national Network of Social Sciences
Research Centres to help address governance and other challenges in the preparedness for
and the response to infectious threats
SC1-HCO-08-2018: Creation of a European wide sustainable clinical research network for
infectious diseases
SC1-HCO-09-2018: Building international efforts on population and patient cohorts 49
SC1-HCO-10-2018: Coordinating European brain research and developing global
initiatives 50
DOL-11CO-11-2010. Dualegue consociation in nearly research and innovation between EC
1.4. Innovative health and care systems - Integration of care
SC1-BHC-22-2019: Mental health in the workplace
SC1-BHC-23-2018: Novel patient-centred approaches for survivorship, palliation and/or
end-of-life care 54
SC1-BHC-25-2019: Demonstration pilots for implementation of personalised medicine in
healthcare 55
SCI-BHC-26-2018: HTA research to support evidence-based healthcare
SC1-HCO-12-2018: Innovation in healthcare - a CSA towards using pre-commercial
procurement and public procurement of innovative solutions in healthcare systems
1.5 Decoding the role of the environment, including climate change, for health and well-
0emg. SC1-BHC-27-2018: New testing and screening methods to identify endocrine disrupting
chemicals 62
SC1-BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing
the impact of environment on health
SC1-HCO-13-2018: Setting the priorities for a European environment, climate and health
research agenda
Conditions for the Call - Better Health and care, economic growth and sustainable health systems 66
Can - Dignal (Lausior manou me leand and care
ial Intelligence for monitoring health status and
quality of his after the cancer treatment
SCI-DTH-03-2018: Adaptive smart working and living environments supporting active
SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in AAAAAA SCC2.
an ageing society





an ageing society

SC1-DTH-07-2018: Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments	62
c Health Record (EH	R) 80
1-09-2019: Scaling up the univocal Identification of Medicinal Products.	83
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SC1-DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care. 89 SC1-HCC 01-2018: Summorting intractment in smart living anticomments for agains until	89
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SC1-HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain.	92
ter development of international cooperation in digita	P
transformation of health and care	94
SC1-HCC-04-2018: Digital health and care services - support for strategy and (early)	
	95
SCI-HCC-03-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy	98
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Focus Area on Digitising and transforming European industry and services	05
Focus Area on Boosting the effectiveness of the Security Union	10

ned Commission	5. Commission expert group for the impact assessment of the planned Commission
	4. Grant to the Global Alliance for Chronic Diseases
116	3. External expertise
115	activities
, events and outreach	2. Studies, activities of the Scientific Panel for Health, conferences, events and outreach
tion 115	1. Subscription fee: Human Frontier Science Programme Organisation
115	Other actions
112	112

110

III.

Conditions for the Call - Trusted digital solutions and Cybersecurity in Health and Care

SU-TDS-03-2018: Raising awareness and developing training schemes on cybersecurity in

SUI-TDS-02-2018: Toolkit for assessing and reducing cyber risks in hospitals and care

centres to protect privacy/data/infrastructures .

hospitals....





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.116

6. Subscription fee: World RePORT international health research database....

communication on infectious diseases ...



CALLS and OTHER ACTIONS for 2020	119
Call - Better Health and care, economic growth and sustainable health systems	
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Draft content for 2020	122
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Pre-pubblicazione del Work Programme SC1 – 2018-2020

https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/vs.10.2 for pre -publication h2020-sc1-2018-2020 10 09 2017.pdf



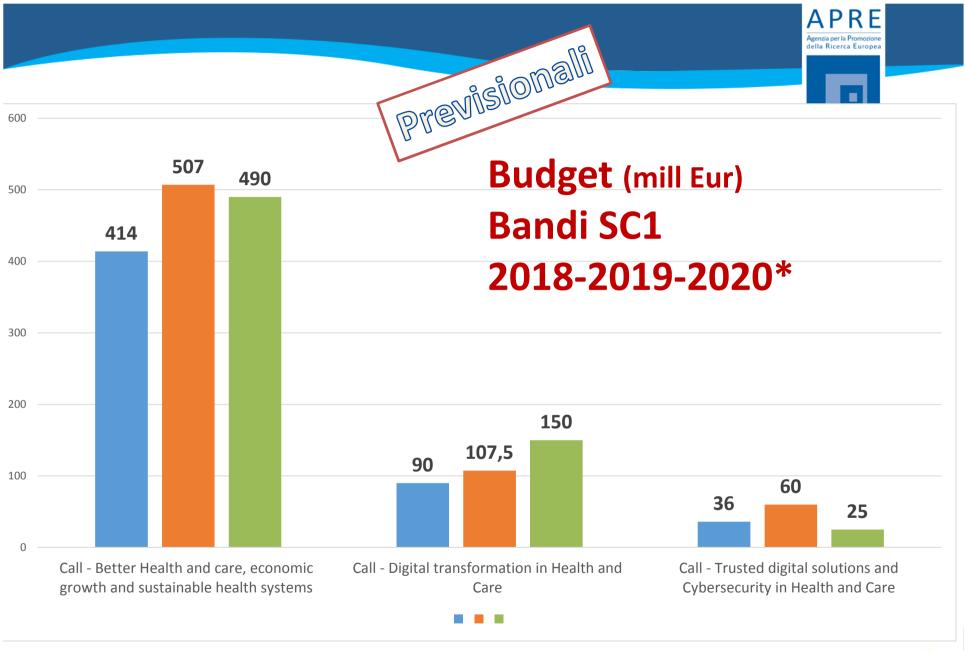
Tempi di pubblicazione, le scadenze, l'uso del Previsionalli single o doppio stage?

Previsti bandi SINGLE STAGE e DOPPIO STAGE*

Call	2018		2019		2020
	Opening	Deadline	Opening	Deadline	
1 Better Health and care, economic growth and sustainable	Nov 2017	Feb 2018* Sett 2018*	Jul 2018	Oct 2018* Apr 2019*	To be defined
health systems DG RTD		Apr 2018	Sep 2018	Apr 2019	
2 Digital transformation in Health and Care DG Connect	Oct 2017	Apr 2018	Oct 2018	Apr 2019	
3 Trusted digital solutions and Cybersecurity in Health and Care DG Connect	Oct 2017	Apr 2018	Jul 2018	Oct 2018	



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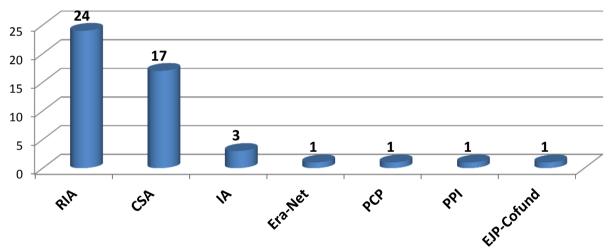
The contribution to Focus Areas will be EUR 186.50 million for 'Digitisation' and EUR 71 million for 'Security Union'.



*Other Actions excluded

Quali sono Gli strumenti utilizzati (RIA, IA , PCP , <u>Eranets</u>...?) ? Ci sono progetti di grandi, medie , piccole dimensioni? Ci sono evidenti aree di interesse sulla cooperazione extra UE (USA, ASIA, ..AFRICA..<u>ecc</u>?

- 48 topics (2018-2019) + 21 nel 2020 senza considerare Other actions. (9 +7)
- Presenti RIA, IA, CSA, PCP, PPI, Era-Net, EJP



No. of topics vs Funding scheme

- Presenti progetti di <u>piccoli e grandi dimensioni</u> (da 1,5 3, 6, 10, a 50 mill. Eur)
- Cooperazione internazionale maggiormente implementata attraverso Joint Calls (CELAC, Russia, China, Canada) e in aree di rilevante interesse per EU:
 - human data on personalized medicine approaches with <u>Canada</u>
 - non-communicable diseases <u>CELAC</u>
 - HIV, tuberculosis and/or hepatitis C with <u>Russia</u>
 - Strategic collaboration on healthcare R&I with <u>China</u>



Prossimi eventi EU rilevanti

7 Dicembre 2017 <u>SC1 Brokerage and networking Event</u> – Brussels

8 Dicembre 2017 <u>SC1 Infoday 2018-2020</u> – Brussels

15 Dicembre 2017 <u>Giornata Nazionale Informativa SC1</u> - Roma









Innovative Medicines Initiative 2 www.imi.europa.eu



EU Innovation Partnership on

Active and Healthy Ageing

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



Active and Assisted Living 2 www.aal-europe.eu



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



www.apre.it



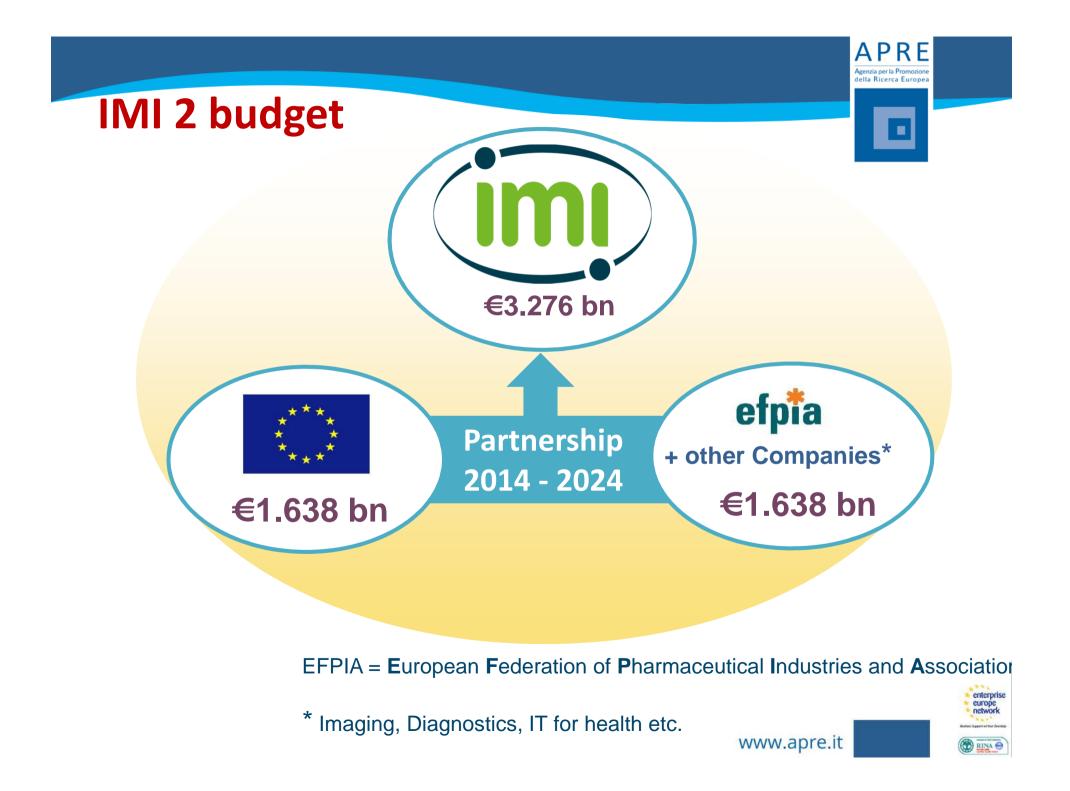


innovative medicines initiative



duve





Strategic Research Agenda

- Antimicrobial resistance
- Osteoarthritis
- Cardiovascular diseases
- Diabetes/Metabolic disorders
- Neurodegenerative diseases
- Psychiatric diseases
- Respiratory diseases
- Immune-mediated diseases
- Ageing-associated diseases
- Cancer
- Rare/Orphan Diseases
- Vaccines



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Who is eligible for funding?

- Academic institutions
- Small & medium-sized enterprises (SMEs)
- Mid-sized enterprises (≤ €500m)
- Non-profit organisations e.g. research organisations, patient organisations, NGOs, public bodies, intergovernmental organisations etc.

Established in:

- EU Member States
- Associated Countries

Other countries:

No funding **unless**

- participation deemed essential by IMI for carrying out the action
- Annual Work Plan / Calls documents

New! At least <u>three</u> legal entities

IMI partner search tool: https://cloud.imi.europa.eu/web/eimi-pst







IMI 2 – Call 8 includes the following topic:

Ebola and other filoviral haemorrhagic fevers (Ebola+) programme: future outbreaks The indicative budget for the entire period of 2 years is €70 million.

IMI 2 – Call 11 - includes the following topic : Deadline 24 October 2017:

Exploitation of IMI project results

Deadlines

The Call will remain **open for two years**, with the following **cut-off dates**:

- 16 March 2016
- 15 September 2016
- 16 March 2017
- 14 September 2017
- 15 March 2018





IMI 2 – Call 12 - includes the following topic : Deadline 24 October 2017 (1st stage):

Topic 1 : <u>Development and validation of technology enabled, quantitative and sensitive</u> measures of **functional decline in people with early stage Alzheimer's disease** (RADAR-AD)

Topic 2: FAIRification of IMI and EFPIA data

Topic 3: <u>Development of sensitive and validated clinical endpoints in primary Sjögren's</u> <u>Syndrome (pSS)</u>

Topic 4: European Health Data Network (EHDN)

Topic 5: <u>Analyzing the **infectious disease** burden and the use of vaccines to improve healthy</u> years in aging populations

Topic 6: Discovery and characterisation of blood-brain barrier targets and transport mechanisms

for brain delivery of therapeutics to treat neurodegenerative & metabolic diseases

Topic 7: European Screening Centre: unique library for attractive biology (ESCulab)

Topics under consideration for <u>future IMI Calls for proposals</u>: <u>https://www.imi.europa.eu/content/future-topics</u>



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Active & Healthy Ageing

A European Innovation Partnership









I settori d'intervento prioritari sono stati individuati nel <u>piano strategico di attuazione</u> e nel <u>piano operativo</u>, adottati nel 2011 dal <u>gruppo direttivo</u> incaricato dell'avvio e dell'attuazione della partnership.

Per realizzare il piano tutti i soggetti interessati hanno iniziato a collaborare nell'ambito di <u>gruppi d'azione</u>.

- ✓ Action Group A1: **Prescription and adherence** action at regional level.
- ✓ Action Group A2: Personalized health management: Falls prevention.
- ✓ Action Group A3: Prevention of functional decline and frailty.
- ✓ Action Group B3: Integrated care for chronic diseases, including remote monitoring at regional level.
- ✓ Action Group C2: Interoperable independent living solutions.
- ✓ Action Group D4: Age friendly buildings, cities and environments.

Stakeholders wishing to get involved in the advancing of Specific Actions have formed **Action Groups** through the "<u>Invitation for Commitment</u>" application process. In each Action Group, stakeholders <u>commit to running a number of activities, contributing</u> <u>towards the headline target, starting with the creation and implementation of an Action Plan</u>.



Submit your commitment

Logged in via ECAS as *nmourebr*.

New content: Your draft will be placed in moderation.

The EIP on AHA opens a new "Call for Commitments" inviting organisations to get involved in developing, promoting or deploying innovative solutions for active and healthy ageing.

A commitment is an individual activity regarding the declaration of intention on the work that one or several organisations will be doing in the context of an <u>Action Group</u>. The commitments are organised within 6 Action Groups and must be in line with the overall priorities of the EIP on AHA.

You can submit your commitment by filling in the following form. Before submitting it, please consult the Action Plans AG <u>A1</u>, <u>A2</u>, <u>A3</u>, <u>B3</u>, <u>C2</u>, <u>D4</u> to have an overall approach of the planned work and to define the Objective to which your commitment shall contribute. If you cannot find a suitable objective under which you can include your commitment, please choose the option "Other objective".

If you have any doubt when submitting your commitment, please read the FAQs page, of this call or send an email to <u>EC-EIP-AHA@ec.europa.eu</u> explaining your doubt.

Your organisation *		
Your commitment *	Title *	
Status of your commitment *	Please include a descriptive title of your commitment.	
Collaborative works	Action Group *	
Synergies	A1 Adherence to prescription	•
Revision information New revision	A1 Adherence to prescription A2 Falls prevention A3 Functional decline and frailty B3 Integrated care C2 Independent living solutions D4 Age friendly environments	
		1.

ERA-Nets finanziate in Horizon 2020 con partecipazione italiana

E-Rare-3	ERA-NET rare disease research implementing IRDiRC objectives	AGENCE NATIONALE DE LA RECHERCHE	FR
ERACoSysMed	ERACoSysMed - Collaboration on systems medicine funding to promote the implementation of systems biology approaches in clinical research and medical practice	FORSCHUNGSZENTRUM JUELICH GMBH	DE
JPco-fuND	ERA-NET for establishing synergies between the Joint Programming on Neurodegenerative Diseases Research and Horizon 2020	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM)	FR
TRANSCAN-2	ERA-NET: Aligning national/regional translational cancer research programmes and activities	MINISTERO DELLA SALUTE	IT
ERA-CVD	ERA-NET on cardiovascular diseases to implement joint transnational research projects and set up international cooperations	DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV	DE
JPI-EC-AMR	ERA-NET for establishing synergies between the Joint Programming Initiative on Antimicrobial Resistance Research and Horizon 2020	VETENSKAPSRADET - SWEDISH RESEARCH COUNCIL	SE
NEURON Cofund	ERA NET NEURON in the area of brain-related diseases and disorders of the nervous system	DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV	DE

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RATEO DI SUCCESSO Complessivo SC1 Bandi 2014-2015-2016

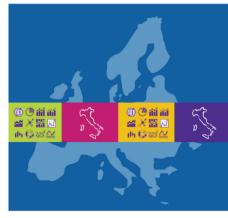
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	No. topics	Budget Mill. EUR	Proposte presentate	*** * * ***	Proposte finanziate	****	Tasso di successo	*** * * ***
	72	1.438,7	2.806		257		9,15%	
Ρ	Partecipazione No. Partecipanti italiani in proposte			esentate	No. Partecipanti italiani finanziati	Tasso	di successo partecipa	nti Italiani
			3.061		274		8,9%	
Coordinamento		No. Proposi coordiname	te presentate a nto italiano	No. Coord	ordinamenti italiani finanziati		Tasso di successo coordinatori Italiani	
		375 (2	13,3% del totale EU)		18		4,8%	

APRE Associations

Una panoramica sulla partecipazione italiana a Horizon 2020

La fotografia a metà percorso



APREdati - Luglio 2017

http://www.apre.it/media/459686/apre_panoramica_partecipazione_h2020.pdf





Grazie per la vostra attenzione

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