

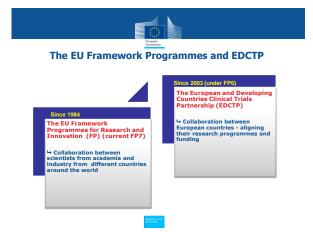


The role of the EC in health research and innovation



Develop and implement the European (EU) research and innovation policy agreed by the European Parliament and European Council

The EU is the World's 3rd largest funder of research on poverty-related and neglected infectious diseases G-Finder 2012 FP7 (2007-2013) financial commitment (€m) HIV/AIDS, Neglec malaria and Infecti

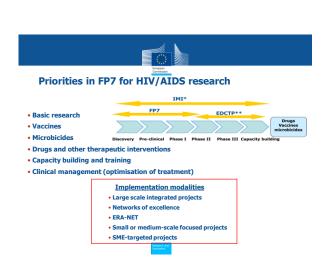


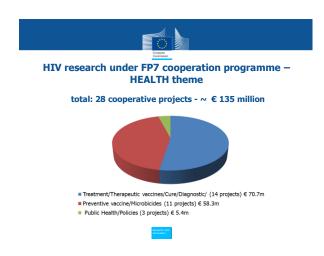
The European and Developing Countries Clinical Trials Partnership (EDCTP) . Established in 2003 as part of the EU response to MDGs • Public-Public Partnership: Joint initiative between 16 European States and EU • Independent legal entity (EEIG). Funding body (has its own calls for proposals) + convener (broker interactions between African and European research teams) Coordination of European national programmes for phase II + III clinical trials in Africa for HIV/AIDS, malaria, TB + capacity building EC contribution of 200 mill Euro + MS contribution of 200 mill Euro (in-kind) + C80m contributions from Third Parties.

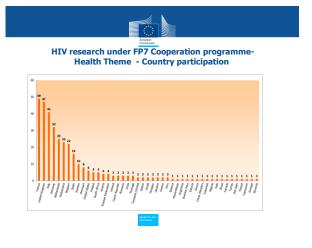
+30 clinical trials on HIV/AIDS

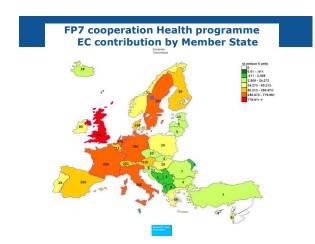
• to be renewed 2014 (EDCTP-2)

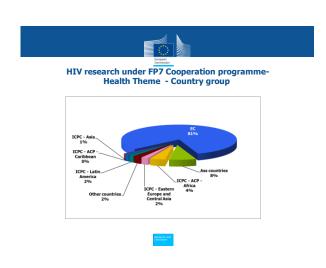
EDCTP- project portfolio 2012 http://www.edctp.org/fileadmin/documents/our_work/EDCTP_project_portfolio.pdf

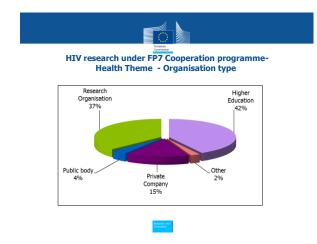


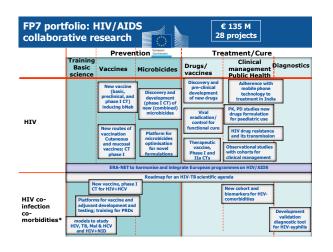














development of several new vaccine candidate, of which 11 phase I or IIa CT Vaccines development of a novel transcutaneous route of vaccination

Development of novel candidates microbicides; 1 combination will go phase I CT Development of a platform for microbicides optimisation and formulations (bottlenecks in microbicides development)

Drugs

Pre-clinical development of drug candidates tackling 4 novel targets; 1 candidate reached licence agreement with large pharma for clinical testing. 1 candidate into phase I/IIa CT

Diagnostics

Development and validation of 1 point-of-care diagnostic tool for testing HIVSyphilis in new-born and pregnant women. Validation of a low-cost ELISA test

Treatment Large network of cohorts: includes data > 270.000 HIV+ individuals; Standardised methods & protocols for data collection and sharing. Impact on WHO and EACS HIV treatment guidelines

Establishment of an European cohort for HIV-comorbidities

PK and PD studies (incl. 5 clinical trials) for new drugs formulations for pediatric



Horizon 2020 what's new?

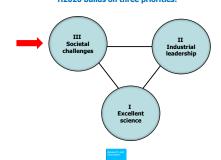


- $\bullet \textbf{ A single programme} \ bringing \ together \ three \ separate \\$ programmes/initiatives
- Coupling research to innovation from research to retail,
- Focus on societal challenges facing European society e.g. health and ageing, clean energy and transport
- Simplified access, for all companies, universities, institutes in all EU countries and beyond

□The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)



Horizon 2020: ~ € 77 billion **H2020** builds on three priorities:



Societal challenges



Proposed funding (million EUR, 2014-2020)

Health, demographic change and wellbeing	7 472
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy	3 851
Secure, clean and efficient energy *	5 931
Smart, green and integrated transport	6 339
Climate action, environment, resource efficiency and raw materials	3 081
Inclusive, innovative and reflective societies	1 310
Secure societies	1 695
Science with and for society	462
Spreading excellence and widening participation	816

 \Box All funding figures in this presentation are subject to the pending Multiannual Financial Framework Regulation by the EP and the Council



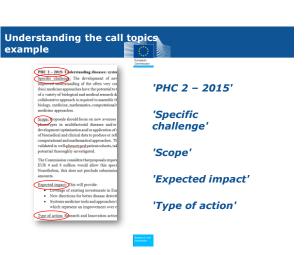














Understanding health, ageing & disease

- Determinants, risk factors and pathways of diseases (2014) (PHC 1)
- Determinants and pathways of healthy and active ageing (2014) (PHC 1)
- Systems medicine approaches (2015) (PHC 2)
- Common mechanisms of diseases and potential co-morbidities (2015) (PHC 3)



Effective health promotion, disease prevention, preparedness and screening

- Inter-sector cooperation for environment- and health-based interventions (2015) (PHC4)
- Translating -omics into stratified prevention and health promotion (2014) (PHC 5)
- Evaluating existing screening and prevention programmes (2014) (PHC 6)
- Control of infectious epidemics through rapid pathogen identification (2014) (PHC 7) (see also SC2)
- Vaccine platforms for TB (2014) (PHC 8) and HIV (2015) (PHC9)





Scope

Focus on strengthening the capacity for discovery and early development of new vaccine candidates for HIV/AIDS by:

- i) establishment of platform for novel candidates discovery, selection, preclinical and early clinical testing $% \left(1\right) =\left(1\right) \left(1\right$
- ii) tackling major bottleneck in vaccine development
- iii) the vaccine development shall continue in the context of EDCTP-2
- To also address barriers and facilitators regarding the update and implementation of a new vaccine

Expected Impact:

- To increase the chance of discovery of an effective therapeutic or preventive vaccine with reduced costs
- To establish close links to the European and Developing Countries Clinical Trials Partnership (EDCTP-2)

Type of action: Research and innevation project



- In vitro devices, assays and platforms (2014) (PHC 10)
- In vivo medical imaging technologies (2015) (PHC 11)

Innovative treatments and technologies

- Therapies for non-communicable diseases (2014) (PHC 13) and rare diseases (2015) (PHC 14)
- Clinical research on regenerative medicine (2014) (PHC15)
- Tools and technologies for advanced therapies (2015)
- Comparing and establishing effectiveness of health interventions in the elderly (2014) (PHC 17) and in paediatric population (2015) (PHC 18)





- Service robotics within assisted living environments (2014) (PHC 19*)
- Pilot projects on independent living with cognitive impairments (2014) (PHC 20*) (Innovation type of action)
- Early risk detection and intervention (2015) (PHC 21*)
- Promoting mental wellbeing in the ageing population (2015) (PHC 22)
- Integrated, sustainable, citizen-centred care
 - New models for prevention oriented health and care systems (2014) (PHC 23)
 - Piloting personalised medicine in health and care systems (2015) (PHC 24)
 - Self-management of health and disease:
 - citizen engagement and mHealth for disease management (2014), (PHC $26\ensuremath{^{\circ}}\xspace)$
 - patient empowerment supported by ICT (2015) (PHC 27*)
 - based on predictive computer modelling (2015) (PHC28*)

- * Topics with ICT focus
- Assessch and Innovation

- * Topics with ICT focus
- Research and Innovation



- Public procurement of innovative eHealth services (2015) (PHC 29*)
- ICT systems for integrated care (2015) (PHC 25*)
- eHealth sectorial inducement prize (2015)

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

- Digital representation of health data to improve diagnosis and treatment ($\overline{2015}$) (PHC 30*)
- Foresight for health policy development and regulation (2014) (PHC 31)
- Advancing bioinformatics for clinical needs (2014) (PHC 32)
- Improve predictive human safety testing (2015) (PHC 33)
- eHealth interoperability (2014) (PHC 34*)

* Topics with ICT focus



CONDITION FOR 2014 PHC CALL

Publication date: 11 December 2013 (Opening date: PHC 12 – 2014/2015 only: 1st March 2014)

<u>Deadline(s)</u> (2014): 11 March 2014 (stage one of two stage call) 15 April 2014 (single stage call) 19 August 2014 (stage two of two stage call)

Eligibility and admissibility conditions*:

The conditions are described in $\underline{\text{parts B and C}}$ of the General Annexes to the work programme

Evaluation criteria, scoring and threshold*:

The criteria, scoring and threshold are described in $\underline{\text{part } H}$ of the General Annexes to the work programme

(exception: PHC 12, SME topic)





- Broader scope: HIV/AIDS, malaria and tuberculosis, other NIDs diseases. From phase I to IV clinical trials. Diagnostics, therapy, prevention
- Extended duration of the programme to 10 years, since a clinical trial programme
- Larger budget, the broader scope and extended duration require a higher budget in order to maximise the impact of the initiative.

 Currently planned EDCTP2 budget: €1366 million with calls over 10 years: matching EU contribution of up to €683 million
- **Better coordination, alignment and integration of relevant national** programmes to increase the cost-effectiveness of European public investments
- **Strengthened cooperation with sub-Saharan African countries**, in particular on building their capacity for conducting clinical trials in compliance with relevant laws
- extended international cooperation with other public and private funders (incl. BMGF and the pharmaceutical industry)



Experts

Appropriately qualified individuals may apply to work as experts in H2020 evaluations!!

• Application via Participant Portal



Call for experts published 22 November Official Journal of the European Union C342/3

http://eurlex.europa.eu/JOHtml.do?uri=OJ%3AC%3A2013%3A342%3ASOM%3AEN%3AHTML



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DG Research and Innovation http://ec.europa.eu/research **Infectious Diseases unit**

Cordis



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