

EU Horizon 2020: a three-pillar structure

- European Research Council 欧洲科研委员会
- Future and Emerging Technologies 未来新兴技术
- Marie Skłodowska-Curie actions 玛丽居里计划
- Research infrastructures 科研装备



Horizon 2020 After nearly 4 years of implementation

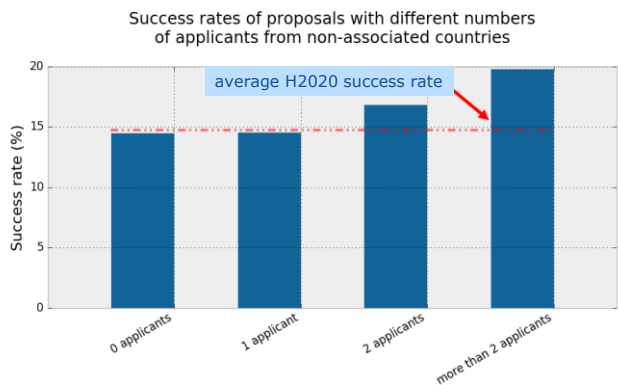
Interim Evaluation

- ✓ **An attractive, simplified and well-performing € 77 billion programme, but underfunded** (12 % success rate)
- ✓ On track to deliver **value for money** and **to meet its knowledge-creating objectives**
- ✓ Strong **EU Added Value** through unique opportunities, competition & access to new knowledge.

Participation (Oct. 2017)

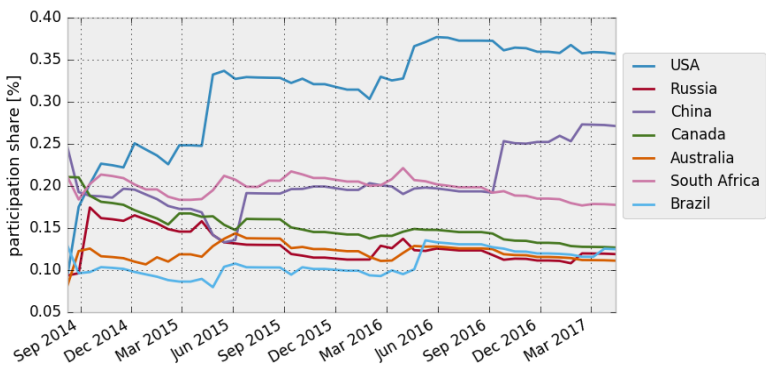
- ✓ 15,000 grant agreements
- ✓ with € 27 billion EU contribution
- ✓ 65,000 participations

Why International Collaboration?



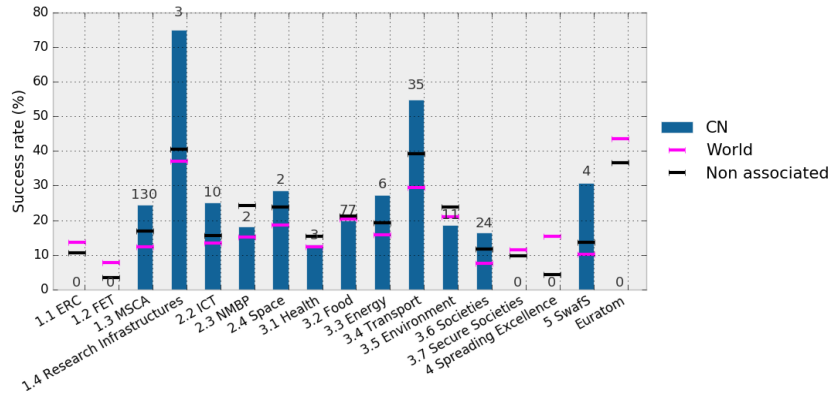
Note: Data for collaborative projects of Horizon 2020. Success rate is the ratio of mainlisted over eligible proposals.
Source: DG RTD - International Cooperation
Data: CORDA (JRC, EIT & art.185 not included), extraction date: 17/10/2017

Evolution of participations of the most active non associated countries



Note: Signed collaborative projects of Horizon 2020. Data for beneficiaries and third-parties.
Each line shows the cumulative share of participations of a country within all H2020.
Source: DG RTD - International Cooperation
Data: CORDA (JRC, EIT & art.185 not included); extraction date: 17/10/2017

CN applicants' success rates and numbers of successful applications



Note: Data for evaluated eligible proposals. Total CN success rate is 22.9%, compared to 14.6% overall H2020.
Source: DG RTD - International Cooperation
Data: CORDA (JRC, EIT and art.185 not included); extraction date: 17/10/2017

EU-China Co-funding mechanisms

- **MOST budget allocation of 200 Million RMB (or 26 m€) per year**
 - Co-funding for China-based organisations in proposals selected under Horizon 2020
 - MOST CFM to cover flagship initiatives (notably FAB, Environment and Surface Transport) but also open to other areas in H2020
- **NSFC co-funding for projects linked to the Biotechnology flagship**
- **MIIT co-funding for projects under Greener Aviation**
- **Goal: increased and more widely distributed participation of Chinese entities in collaborative projects under Horizon 2020**



Overall structure

- ❖ International cooperation in H2020
- ❖ Societal challenge 'Health, demographic change and well-being' (SC1)



EU Horizon 2020: supports health research from bench



**Collaborative
research –
Societal
Challenge 1**
*'Health,
demographic
change and
well-being'*

Europe
Societal
Challenges

What is health collaborative research?

- ✓ Collaboration between countries, sectors, disciplines
- ✓ Managed (in Societal Challenge 1) directly by the Commission
- ✓ 3-year work programme (2018-2020) with published call topics
- ✓ Electronic submission (and grant management) via 'Participant Portal'
- ✓ Independent peer review; success rate around 10%
- ✓ 8 month from submission deadline to signature of the grant agreement
- ✓ Typical EU funding per project: (1) – 4-6 – (55) million EUR
- ✓ minimum 3 legal entities from 3 different EU Member States or FP-associated countries (not for the SME instrument or financial instruments, which are mono-beneficiary!)
- ✓ International funding



13

Priorities for 2018–2020



€ 2.0 billion



1. Personalised medicine



2. Innovative health and care industry



3. Infectious diseases and improving global health



4. Innovative health, and care systems – Integration of care



5. Decoding the role of the environment for health and well-being



6. Digital transformation in Health and Care



7. Trusted Big Data solutions and Cybersecurity for Health and Care

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1
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International Cooperation: main features of WP 2018-2020

General opening: all topics open to international cooperation

- All SC1 topics are open to international cooperation
- EC contribution: 28 MS, 16 AC and 124 Third countries (General Annexes A.) + USA
- For some other TC: co-funding mechanism (CFM) => Australia, Brazil, Canada, China, Hong Kong & Macau, India, Japan, Republic of Korea, Mexico, Russia, Taiwan

Topics targeting specific countries /regions (e.g. CELAC, Russian Federation, Canada, etc.)

- ✓ Lower overall participation of TC in WPs 2014-2016 if compared to FP7
- ✓ Need to get higher and more visible participation of TC in the last WP
- ✓ Stimulate cooperation on targeted areas that represent a burden for EU and TC (e.g. cancer for CELAC)
- ✓ Give a politically visible 'sign' of cooperation (science diplomacy)

5

Overall structure

❖ International cooperation in H2020

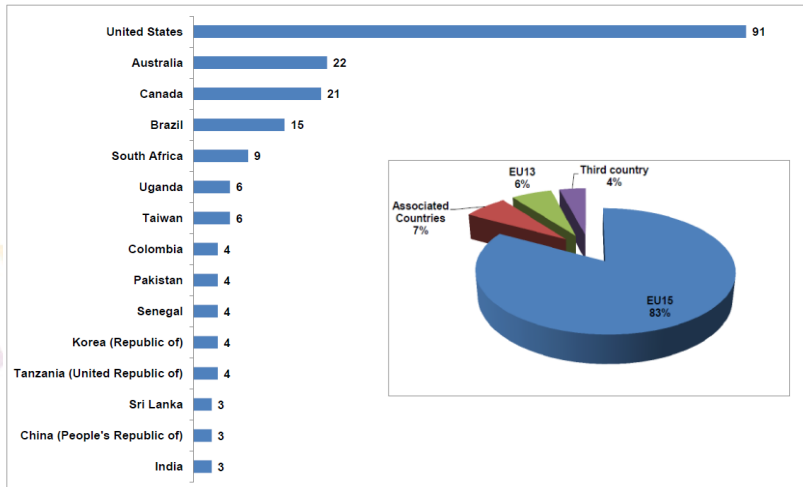
❖ Societal challenge 'Health, demographic change and well-being' (SC1)

❖ China in SC1



Third countries participation in Societal challenge Health, demographich change and well-being

Top 16 third countries based on participations



Personalised Medicine in Work Programme 2018–2019

HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine

- PM is a very broad and multifaceted area where success relies on a well-functioning collaboration between several disciplines and different actors.
- The action should focus on building links with third countries by analysing the potential and advantages of collaboration in PM with those countries, studying areas of interest for Europe in PM collaboration and promoting international standards in the field
- 2018 CELAC, 2019 China

Infectious diseases and improving global health in Work Programme 2018–2019

HCO-11-2018: Strategic collaboration in health research and innovation between EU and China

- China's participation and cooperation to the Horizon 2020 SC1 programmes is low
- The goals are to:
 - Develop a sustainable platform between EU and China in order to facilitate a constant dialogue
 - Identify health challenges, whose solution may benefit from closer bi-lateral and/or multi-lateral cooperation between EU and China



Call deadlines

Better Health and care, economic
growth and sustainable health systems

BHC + HCO call topics
Calls open: 7 November 2017
Calls close: 18 April 2018

Digital transformation in Health and Care
Trusted digital solutions and Cybersecurity
in Health and Care

DTH, HCC, and SU-TDS call topics
Calls open: 7 November 2017
Calls close: 24 April 2018

Exception
BHC-15-2018
Lump Sum Funding pilot scheme
Calls open: 7 November 2017
First stage: 6 February 2018
Second stage: 4 September 2018



Current cooperation with China on health R&I

- Health research is an area where the EU and China have a lot to gain from closer cooperation and there has been a strong tradition of cooperation on Health in the context of FP7.
- Mutually beneficial cooperation between EU and Chinese organisations is taking place in the areas of rare diseases (within the International Rare Diseases Research Consortium) and of chronic diseases (in the frame of the Global Alliance for Chronic Diseases).
- Cooperation might be strengthened in particular on the prevention and treatment of infectious diseases, in the context of initiatives such as the Global Tuberculosis Vaccine Partnership and in traumatic brain injuries, in the frame of the International Initiative for Traumatic Brain Injury.
- In Horizon 2020 WP for 2018-20 a new coordination and support action topic is foreseen to promote a Strategic collaboration in health research and innovation between EU and China, while other topics have indicated China in the text.



CENTER-TBI – Collaborative European NeuroTrauma Effectiveness Research in TBI

- Main component of EC participation in the International Initiative for Traumatic Brain Injury Research (InTBIR).
- Project led by Antwerp University Hospital, with **~40 partners** from **19 countries**, incl. Australia, China, New Zealand, USA.
- **EU contribution: €30 million** (Oct. 2013-March 2020)
- Contributed largely to **The Lancet Neurology Commission**: "TBI: integrated approaches to improve prevention, clinical care and research" (Nov. 2017)
 - ❖ <http://cordis.europa.eu/project/rcn/1100000.html>
 - ❖ <https://www.center-tbi.eu>



34 CN participations in FP7 - Health

Open to the world Multi-lateral health research activities



Useful links

- <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-health_en.pdf
- http://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020_localsupp_china_en.pdf
- http://ec.europa.eu/research/iscp/pdf/policy/cn_roa_dmap_2017.pdf#view=fit&pagemode=none

*Thank
you!*

