



EU funding of animal health research

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EU Framework Programmes for Research

Legislation proposed by the European Commission; main acts adopted by the Council and Parliament (co-decision)

Detailed work-programmes with annual calls/topics adopted by the European Commission (comitology procedure)

FP1: 1984-1987

FP2: 1987-1991

FP3: 1991-1994: 6 Billion €

FP4: 1994-1998: 13 Billion €

FP5: 1998-2002: 14 Billion €

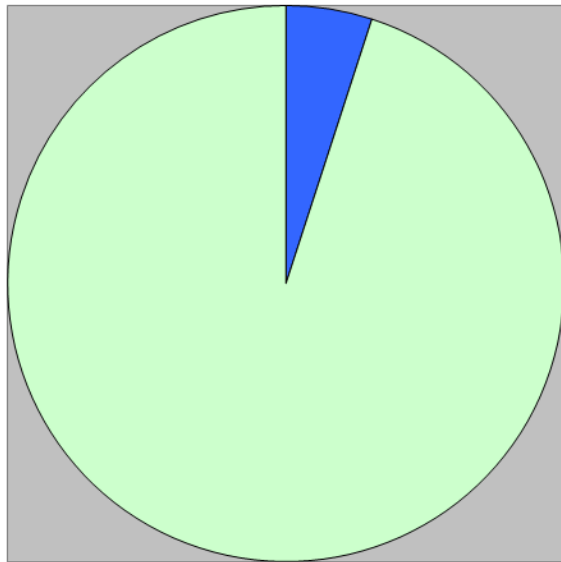
FP6: 2002-2006: 18 Billion €

FP7: 2007-2013: 53 Billion €

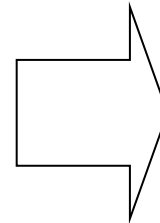
FP8 (=Horizon 2020): 2014-2020: 79 Billion €

Open to international cooperation

What is the EU Framework funding for research?



■ EU 27 ■ National (public + private)



EU research funding has been crucial for:

- Transnational scientific collaboration
- Integration, pooling of resources
- Transfer of know-how, mobility of researchers and training

Horizon 2020



1. Health, demographic change and wellbeing

2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bio-economy (€3.8 billion 2014-2020) – **SC2**

3. Secure, clean and efficient energy

4. Smart, green and integrated transport

5. Climate action, resource efficiency and raw materials

6. Inclusive, innovative and reflective societies

7. Secure societies

H2020 sub-programmes

Part I Excellent Science

1. European Research
Council

2. Future and Emerging
Technologies

3. Marie Skłodowska-Curie
Actions

4. Research
Infrastructures

Part II Industrial Leadership

1. Enabling
& Industrial Technologies

1.1 Information and
communication
technologies

1.2 Nanotechnologies

1.3 Advanced materials

1.4 Biotechnology

1.5 Advanced
manufacturing 1.6 Space

2. Access to Risk Finance

3. Innovation in SMEs

Part III Societal Challenges

1. Health and wellbeing

2. **Food security,
sustainable
agriculture, marine
research and the
bioeconomy – SC2**

3. Secure, clean and
efficient energy

4. Smart, green and
integrated Transport

5. Climate Action,
Environment, Resource
Efficiency

6. Inclusive, innovative
and reflective societies

7. Secure societies

Animals and health under Horizon 2020 / SC2 (& other parts) - Figures for SC2

21

Projects or expected contracts

179 M€

Contribution UE 2014-2020

246

Participations in selected projects

Key themes and projects (calls 2014-2018)

Vaccines/vaccinology : SAPHIR (*China in; pigs: PRRS & M Hyo*); PARAGONE (*helminth parasites*)

Host-Pathogen Interaction, epidemiology : DELTA-FLU (*anima influenza; HongKong in*) ; PALE-Blu (BTV); PIGSs (*Strep suis*)

Emerging threats : DEFEND (*ASF, LSD*)

Diagnostics : Swinostics (*incl. CSF, ASF, PRRS*), Vivaldi

One Health/ AMR: OneHealth EJP; HealthyLivestock (*pigs&poultry; 23 partners, incl. 10 from China*); DISARM thematic network

Bees: POSHBEE

International cooperation : SIRCAH (=secretariat of STAR-IDAZ IRC)

Topics 2018-2019-2020

SFS-07-2018 : Making European beekeeping healthy and sustainable

SFS-11-2018-2019: Anti-microbials and animal production

2018: Rethinking management of health of farmed animals; 2019: Alternatives to anti-microbials

SFS-12-2019: A vaccine against African swine fever

SFS-31-2019, scope C: ERA-NET on international coordination of research on infectious animal diseases

SFS10-2020: Epidemiology of non-EU-regulated contagious animal diseases: from integrated data collection to prioritization

SFS-35-2019-2020 scope C (2020): vector-borne diseases in Africa

(Also:

SC1 (e.g. COMPARE); Infrastructures (**VetBioNet**); COST (e.g. **ASF-STOP**, NEOH, Euro-FBP, **PiGutNet**, COREMI) ...

SFS-12-2019: A vaccine against African swine fever

Indicative EU contribution €10 million –

Vaccines against ASF for **domestic pigs and wild boars**

Developing **pilot vaccines and their companion DIVA test**

Vaccination as part of a control strategy in different scenarios. (ref regulatory framework)

At least the ASF **viruses circulating in Europe**

May also cover all or the most relevant exotic ones. Wild fauna other than wild boars may also be addressed.

Participation by non-EU regions particularly affected by ASF is recommended.

Involvement of the pharmaceutical industry highly recommended

Expectation that **TRL level will be brought to 5-6** (*Innovation Action*)

International cooperation: ref exotic strains, non-EU countries affected; ref to STAR-IDAZ IRC (Roadmap on ASF vaccine being developed)

On-going evaluation of submitted proposals.

SFS-31-2019/Scope C. : ERA-NET on international coordination of research on infectious animal diseases

About (Horizon 2020) ERA-NETs

ERA-NETs are (EU) funding instruments to coordinate public research programmes of countries/regions (usually, mainly EU countries). They support public-public partnerships in the preparation, implementation and coordination of joint activities.

Under H2020, the EU brings top up funding to a joint call for proposals for transnational research projects. The EU contribution is proportional (max 33%, up to max EU contribution) to the total public **-in cash** (in this case)- funding in the call*.

ERA-NET consortia are mostly composed on programme owners / funding agencies, who usually fund their own research centres when they are part of transnational projects selected under the joint call (“Virtual common pot”)

Other entities (public, private) can be part of selected research projects, but often have to bring their own resources.

ERA-NETs can be open to international cooperation (like this one): H2020 rules apply

***: Indicative EU contribution for this ERA-NET : €5million**, therefore minimum matching funds to avoid underspending of EU money: €10mio. It is expected that the ERA-NET will organize additional activities, in order to obtain leveraging beyond the co-funded joint call.

Some of the EU contribution can go into networking activities, but not at the expenses of the call budget (compensation needed)

On-going evaluation of submitted proposals.

SFS-31-2019/Scope C. : ERA-NET on international coordination of research on infectious animal diseases

Scope

Major groups of infectious diseases of animals (infections by viral, etc). An **important focus will be put on at least African swine fever (ASF) and animal influenza.**

Fundamental understanding of **hosts, pathogens and their interactions.**

Also, focus on understanding wider animal infectious disease issues e.g. systems-based studies. An important focus will be put on the **role of wildlife** in the emergence and transmission of infectious diseases to livestock, and on related **disease surveillance and control.**

Data sharing, integration and analysis to develop new tools to accelerate identification of outbreaks, enabling a rapid response and thus reducing the spreading of diseases.

Development of safe and effective **vaccines**, generic technology platforms for producing novel and/or improved vaccines, and rapid, accurate and easy to use in-field **diagnostics technology**. Vaccination strategies, including **DIVA vaccines.**

SFS-31-2019/Scope C. : ERA-NET on international coordination of research on infectious animal diseases

International cooperation and industry engagement in projects selected under the ERA-Net are encouraged.

Follow the policies and contribute to the objectives of the **STAR-IDAZ international research consortium** (<http://www.star-idaz.net/>) .

Participation of legal entities from third countries, and/or regions including those not automatically eligible for funding in accordance with General Annex A, is encouraged in the joint call as well as in other joint activities including additional joint calls without EU co-funding. Participants from countries not listed in General Annex A are eligible for EU funding under this topic and may request a Union contribution (on the basis of the ERA-NET unit cost) only for the coordination costs of additional activities.

International Research Consortium on Animal Health : STAR-IDAZ IRC

To coordinate research at international level to contribute to new and improved animal health strategies for at least 30 priority diseases/infections/issues

The deliverables include:

- **Candidate vaccines**
- **Diagnostics**
- **Therapeutics**
- **Other animal health products and procedures**
- **Key scientific information/tools to support risk analysis and disease control**



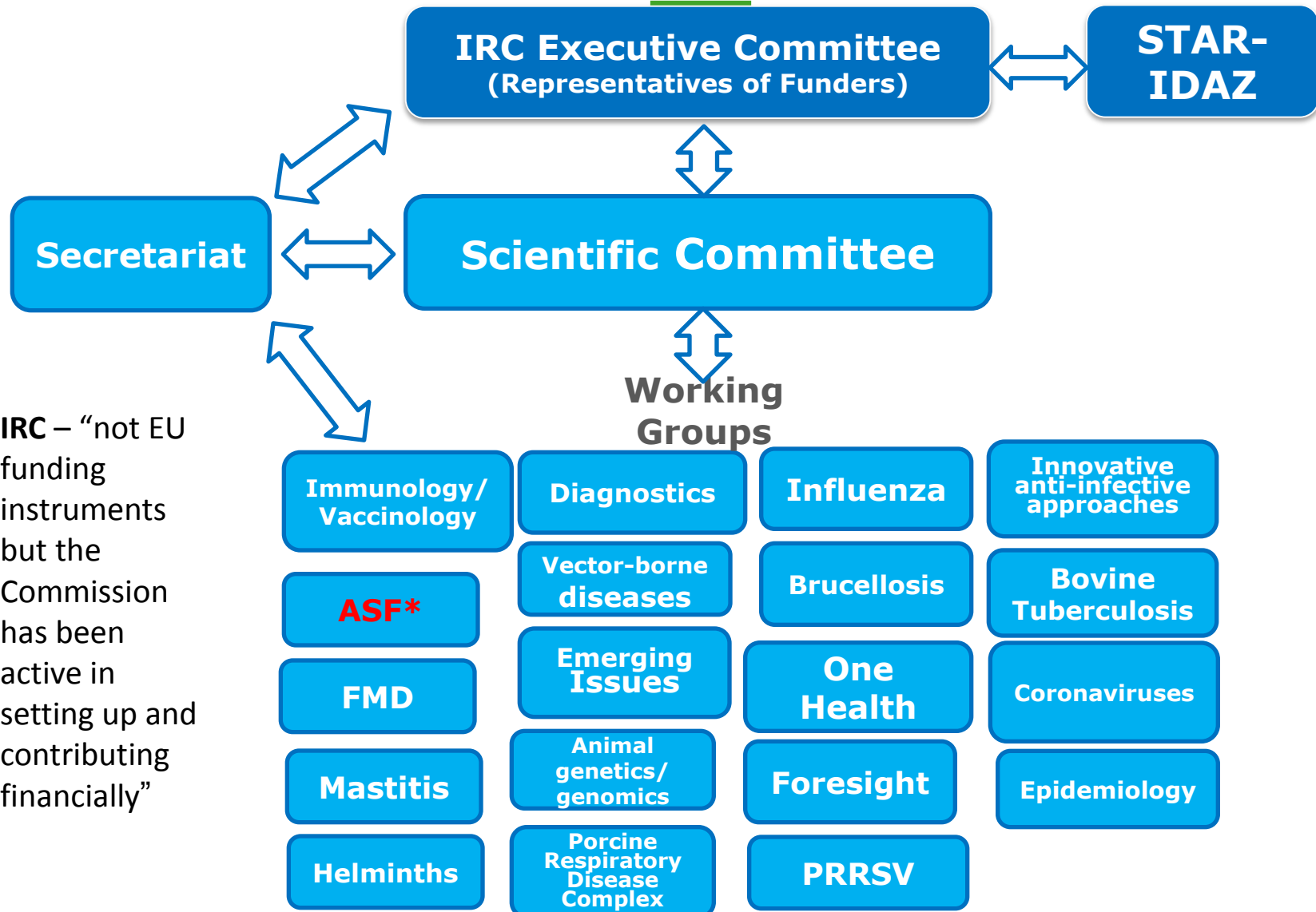
STAR-IDAZ
International Research
Consortium on Animal Health

STAR-IDAZ IRC main features

- Common objectives, based on identified priorities
- Focus on research outputs
- Distribution/alignment of research activities, with funding usually according to funders own procedures
- Sharing of information/results
- Threshold financial commitment (threshold \$US 10 million; group funding commitment possible)
- Governance (structure and modus operandi)

25 members from 16 countries +1 international research organisation
+EC + 1 Charity +1 industry +2 industry organisations have signed the Letter of Intent to participate

<http://www.star-idaz.net/>



IRC – “not EU funding instruments but the Commission has been active in setting up and contributing financially”



Thank you!

#HorizonEU

<http://ec.europa.eu/horizon-europe>