

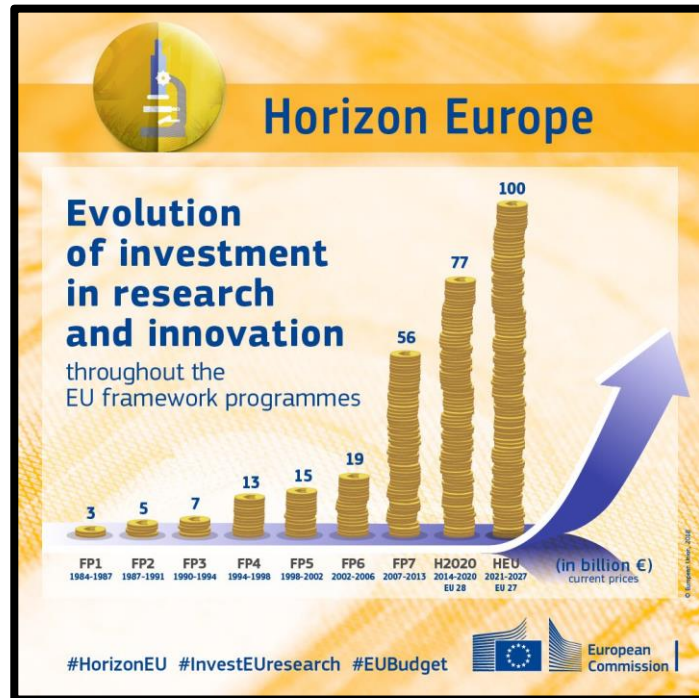
EU FP9 Horizon Europe Perspectives in Animal Health

*By
Christophe Cordevant, André Jestin*

*CoVetLab, Annual Meeting
June 19-21, 2018 WBVR*

FP9 Horizon Europe

Increasing Budgets



Chronology of preparation

- **FP9: Horizon Europe**
- **2021 – 2027: 7 years**
- **100 €B Research Innovation**
- **Chronology:**
 - **23-26 May 2019: Election Pdt EP**
 - **2d Semestre 2020 Publication of 1st Call**
 - **1 January 2021 Start Horizon Europe.**

Which Topics of interest in FP9, and which instruments to implement?

A) Which Topics of interest in FP9

Scar SRA: in preparation

The report should be presented in a conference under the EU Presidency in winter 2020/21.

Provision of an overview of relevant knowledge in the field.

The overview will include reflections based on previous SCAR Foresights and other national and international foresights, position and vision papers, strategic research agendas, research reports etc. launched e.g. by SCAR SWGs and CWGs, JPIs (FACCE, HDHL, OCEANS), European Technology Platforms, the EC Joint Research Centre, ERA-NETs

and their projects and international organisations as FAO and OECD.

This will be facilitated by the outcome of a CASA case study



Contribution of Covetlab on the topics of interest in the FP9

Lobby document: suggestions of 2016 annual meeting by Marc Savey (1/2)

- **Integrative biology of main transmissible diseases in domestic and wildlife animals (vertebrate) including non foodborne zoonoses**
- **Focusing on animal health / A.M.R. and non foodborne zoonosis integrating domestic and wildlife mammals and birds**
- **In such a way to complement EJP and unified (one day?) on the European level**

Lobby document: suggestions of 2016 annual meeting By Marc Savey (2/2)

Themes \ Domains	Farm Animals transmissible diseases	Non Food borne Zoonosis (including vector borne)	Better use of Antimicrobials / AMR Alternatives to Antimicrobials
Diagnosis and characterisation of transmissible agent	<ul style="list-style-type: none"> - Identification and typing including NGS - Evaluation of virulence ≠ multispecies 	<ul style="list-style-type: none"> - Identification/typing - characterisation of animal reservoir 	<ul style="list-style-type: none"> - AMR detection and molecular supports - Target species and administration ways
Transmission barriers and host/transmissible Agent interaction	<ul style="list-style-type: none"> - Transmission barriers between individuals [species, herd] and herds - Dose-response relationship - Carriage disease relationship - Pathogenesis and host response 	<ul style="list-style-type: none"> - Carriage disease relationship - Transmission barriers between species - Pathogenesis and host response for vector borne 	<ul style="list-style-type: none"> - Ecology of mobile AMR supports - Interaction with host transmission
Epidemiology and surveillance	<ul style="list-style-type: none"> - Design of integrated surveillance [species, diseases] - Risk of introduction - Modelling of transmission - Diseases burden - Syndromic surveillance for characterisation of emerging treats 	<ul style="list-style-type: none"> - Design and evaluation of reservoir surveillance - Modeling of transmission dynamics between domestic, wildlife and human populations 	<ul style="list-style-type: none"> - Risk factor identification of AMR emergence - AMR gene dissemination surveillance
Control focused on vaccination	<ul style="list-style-type: none"> - Targeted vaccination and production cycle - Cost / effectiveness/benefit analyses 	<ul style="list-style-type: none"> - Vaccination and carrier state - Wildlife reservoir and innovative vaccination program 	<ul style="list-style-type: none"> - Vaccination alternative for antibiotic use - Rational for treatment / AMR / species - Socio-economic impact

Proposals for COVETLAB general framework - Common research priorities to built a lobby document for 2017 in the H2020 perspective

B) Which Instruments to implement ?

+ Conventional Instruments:

- Art185, EJP, Era-Nets, JPIs.

+ Lessons from EJP instruments:

- Call for proposals:
 - internal JRP : (analogy Era-Net)
 - Internal JIP: (analogy Infrastructure)
- PhD Call, (Analogy ITN: Innovative Training Network *Marie Skłodowska-Curie*)
- STM / Workshop (analogy: COST Action)

+ Putative New Instruments

- Seminar JN, November 2017, Scenario5, Submitted to the EP.

C) Which Actors to take the lead ?

- + IRC International Research Consortium on Animal Health**
 - Same scope?**
 - Executive Committee: Defra, Anses, DTU**
 - Scientific Committee: WBVR (WvdP) Anses (SZ), DTU (AB)**
- + Epizone / ESVV:**
- + EJP One Health**
- + ATF: Animal Task Force**

Conclusions:

- ✚ A real need of EC initiative(s) on Animal Health in FP9
- ✚ A large initiative or multiple conventional H2020 initiatives?
- ✚ Matching with the scope of IRC?
- ✚ Which instruments?
- ✚ What can be done intra Covetlab?
 - Which dynamic?: A working group
 - Objective?: Sharing information
 - Mandate?: Interactions with EC officers?
- ✚ Place for debate!