

Overview SFS Call

Functional ecosystems to healthy food





Environment and climate-smart food production and consumption

International Cooperation









Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 **SFS-01-2018-2019-2020**

Biodiversity in action: across farmland and the value chain.

Gaëtan DUBOIS - UNIT B2

European Commission – DG AGRI

Topic introduction

Scope B. Capitalising on native biodiversity in farmland landscape

Background for the development of the topic



Environmental Challenges and CAP					
Protection of biodiversity	Is the CAP addressing these challenges?				
Protection of blodiversity	50% 58% 80% 78%				
Reduction of soil degradation	"No"				
More sustainable use of pesticides and fertilisers					
	"Yes"				
Preservation of genetic diversity	å 🙈 • • • • • • • • • • • • • • • • • •				
'All organisa	tions involved in agriculture or forestry, **Other organisations ECORYS				

 Requirements 	to	keep	in	mind
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- "Citizen Observatories"
- 'multi-actor approach'
- open source collaboration and data collection
- a task to cluster between projects financed under this scope

EU Specific objectives	Impact indicators	Result indicators (only based on interventions supported by the CAP)
Contribute to the protection of biodiversity, enhance ecosystem services and preserve habitats and landscapes	I.18 Increasing farmland bird populations: Farmland Bird Index I.19 Enhanced biodiversity protection: Percentage of species and habitats of Community interest related to agriculture with stable or increasing trends I.20 Enhanced provision of ecosystem services: share of UAA covered with landscape features	R.25 Supporting sustainable forest management: Share of forest land under management commitments to support forest protection and management. R.26 Protecting forest ecosystems: Share of forest land under management commitments for supporting landscape, biodiversity and ecosystem services R.27 Preserving habitats and species: Share of agricultural land under management commitments supporting biodiversity conservation or restoration R.28 Supporting Natura 2000: Area in Natura 2000 sites under commitments for protection, maintenance and
		R.29 Preserving landscape features: Share of agriculture land under commitments for managing landscape features, including hedgerows





















- - GENERATIONAL

- Future of the common agricultural policy
 - https://ec.europa.eu/info/food-farming-fisheries/key-policies/common-agricultural-policy/future-cap en
- Farming for Biodiversity the results-based agri-environment schemes
 - http://ec.europa.eu/environment/nature/rbaps/index en.htm
- **Biodiversity Strategy**
 - http://ec.europa.eu/environment/nature/biodiversity/strategy/index en.htm
- **EU pollinators initiative**

Useful resources

- http://ec.europa.eu/environment/nature/conservation/species/pollinators/index en.htm
- **Environmental Citizen Science**
 - http://ec.europa.eu/environment/integration/research/newsalert/pdf/IR9 en.pdf
- **EUNIS** habitat classification & **EEA** activities
 - https://www.eea.europa.eu/data-and-maps/data/eunis-habitat-classification











Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 **SFS-04-2019-2020**

Integrated health approaches and alternatives to pesticide use

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Topic introduction

Scope A. Integration of plant protection in a global health approach

Background for the development of the topic



- Glyphosate, neonicotinoids, SDHI, chlordecone/CLD, ...
- Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market
- Citizens' initiative "Ban glyphosate and protect people and the environment from toxic pesticides" & Commission's answer and follow-up
- Science-policy-society interface

Requirements to keep in mind

- Multi-actor approach
- Transdisciplinary cooperation
- Research agenda on plant protection in the context of a global health approach
- Strengthen the European scientific community



Useful resources

Plant protection products

https://ec.europa.eu/food/plant/pesticides_en

EFSA activities

https://www.efsa.europa.eu/en/topics/topic/pesticides

Sustainable Use of Pesticides Directive

https://ec.europa.eu/food/plant/pesticides/sustainable_use_pesticides_en

Citizens' initiative & Commission's answer and follow-up

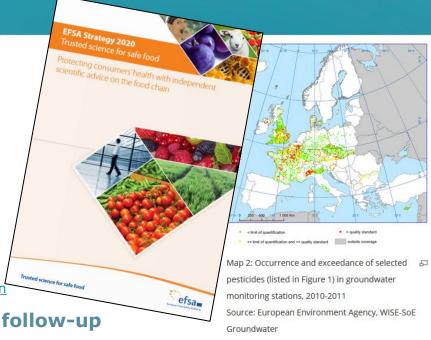
http://ec.europa.eu/citizens-initiative/public/initiatives/successful/details/follow-up/2017/000002/en?lq=en

Eurostat & EEA

http://ec.europa.eu/eurostat/statistics-explained/index.php/Archive:Agri-environmental_indicator_pesticide_pollution_of_water

Cost action – safety culture and risk management in agriculture

http://www.cost.eu/COST Actions/ca/CA16123











Patrizia Eleonora GANCI – Unit B2 European Commission – DG AGRI

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-05-2019

New and emerging risks to plant health

SFS-05-2019 New and emerging risks to plant health

Background

- •Introduction, spread and establishment of pest and diseases facilitated by
 - Trade and movement of goods and people
 - o Climatic variations and changes in agricultural/forest management practices
- •At the same time moves to increased reliance on plant protection products
- •Comprehensive knowledge on pest and disease management is needed for their control and management



SFS-05-2019

Requirements to keep in mind

- •Topic to tackle new/emerging plant pest(s)/disease(s) relevant to EU agriculture/forestry
- Proposals to tackle one or more plant pest(s) and/or disease(s)
 (regulated or non-regulated, introduced or native)
- Pests include weeds



SFS-05-2019

Cross-cutting issues

- Multi-actor approach
- •International cooperation encouraged with countries affected/threatened by the same pest(s)/disease(s)

Useful resources

•Activities will contribute to support relevant EU plant health policies

https://ec.europa.eu/food/plant/plant health biosecurity/legislation en





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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018
SFS-08-2019
Improving animal welfare

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SFS-08-2019 Improving animal welfare

Scope B: Precision livestock farming

Relevant EU projects

WELFARE INDICATORS - http://cordis.europa.eu/project/rcn/99394 en.html

WELFARE QUALITY - http://cordis.europa.eu/project/rcn/74914 en.html

ECONWELFARE - http://cordis.europa.eu/project/rcn/87806 en.html

EU-PLF - https://cordis.europa.eu/project/rcn/105333 en.html

IoF2020 - https://cordis.europa.eu/project/rcn/206761_en.html

SFS-08-2018: Improving animal welfare - Scope A: Organic and low-input farming

ERA-Net SusAn: FreeWalk - https://www.freewalk.eu/en/freewalk.htm



SFS-08-2019 Improving animal welfare

Scope B: Precision livestock farming

Scope

- Innovative technologies
- Indicators
 - Consumer & management decisions
- Business models
- Various stages of the production system
- Efficiency & air pollutants

Multi actor







Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 **SFS-11-2018-2019**

Anti-microbials and animal production Scope: B [2019]
Alternatives to anti-microbials

Jean-Charles Cavitte UNIT B 2

European Commission – DG AGRI

Research and

SFS-11-2018-2019: Scope: B. [2019] Alternatives to anti-microbials

Background

With the **widespread use of anti-microbials** for human and animal health in recent decades, the world is increasingly confronted with the emergence and spread of microbes that resist anti-microbial treatment.

Antimicrobial resistance (AMR) is responsible for an estimated 25 000 deaths yearly and over EUR 1.5 billion of healthcare costs and productivity losses in the EU alone.

The European One Health Action Plan against AMR

(https://ec.europa.eu/health/amr/sites/amr/files/amr action plan 2017 en.pdf) focussing on three pillars:

- making the EU a best practice region;
- boosting research, development and innovation;
- shaping the global agenda.

EU action on AMR: https://ec.europa.eu/health/amr/antimicrobial-resistance en



SFS-11-2018-2019 Scope: B. [2019] Alternatives to anti-microbials

Background/useful resources

Related initiatives:

EJP OneHealth (SFS-36-2017), e.g. Mo-MIR PPC project

JPIAMR, e.g. 6th call in the therapeutic area https://www.jpiamr.eu/supportedprojects/6thcall/

JTI "Innovative Medicines Initiative", e.g. COMBACTE-NET (medical sector) https://www.combacte.com/about/about-combacte-net-detail/

Feed-a-Gene project: https://www.feed-a-gene.eu/



SFS-11-2018-2019 Scope: B. [2019] Alternatives to anti-microbials

Requirements to keep in mind

- •Develop and test alternatives to anti-microbials:
 - Any type of alternative intervention measures, other than vaccines
 - Basic research on gut microbiome excluded
 - Take into guidelines, standards, legislation in the field (e.g. EMA, OIE)
 - Expectation that TRL level brought from 5-6 to TRL7

Cross-cutting issues

- Topic applies to both terrestrial and aquatic animals
- •Multi-actor approach, involving at least representatives of practitioners (e.g. veterinarians), of the feed/feed additives and pharmaceutical industries.





Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-12-2019

A vaccine against African swine fever

Jean-Charles Cavitte UNIT B 2 European Commission – DG AGRI

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

Background

A devastating viral disease present in Europe for several years, in an increasing number of member States. The threat is permanent (including incursion of exotic strains from endemic countries). Potential for very serious and rapid spread.

Serious socio-economic impact on farming sector and is of major importance in the international trade of animals and animal products.

Concerns raised on the possibility to eradicate the disease without vaccination. No vaccine currently available.



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

Background/useful resources

Blueprint and roadmap on the possible development of an ASF vaccine, by the EU Reference Laboratory https://ec.europa.eu/food/animals/animal-diseases/control-measures/asf en#bmrp

EU Infrastructure projects:

- **VetBioNet**: Veterinary Biocontained facility Network for excellence in animal infectiology research and experimentation
- Transvac2: European Vaccine Research and Development Infrastructure
- •Infravec2: Research Infrastructures for the control of vector-borne diseases

COST Action: ASF-STOP

DEFEND project (SFS-10-2017)

International: GARA (Global African swine fever Research Alliance) https://www.ars.usda.gov/GARA/



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

Requirements to keep in mind

- 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.
- 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.
- Expectation that TRL level brought to 5-6

Cross-cutting issues

•Multi-actor approach, involving at least animal health authorities and the farming and business sectors. Involvement of the pharmaceutical industry highly recommended







Razvan Anistoroaei, UNIT F3 Agri-Food Chain European Commission – DG RTD

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 LC-SFS-17-2019:

Alternative proteins for food and feed

LC-SFS-17-2019: Alternative proteins for food and feed

- Why?
- Feeding the world of today and tomorrow
 - To ensure sufficient, nutritious, safe and affordable food to a fast growing global population with changing dietary habits while facing climate change and natural resource scarcity
- Policy/EU initiatives: SDGs, Food2030, New CAP, EU Bioeconomy Strategy
- Goals:
 - Future-proofing protein supply chains for food and/or feed, based on the principles of diversity, sustainability and resilience
 - Develop new market opportunities for novel products, exclusively or partly derived from non-traditional proteins (plant-based, aquatic, insects, ...)







Requirements to keep in mind

- Innovation Actions: 32 M€ (4 X 8) with activities such as prototyping, testing, demonstrating, piloting with limited research activities
- Featuring consumer acceptance by a clean labelling approach
- Responsible Research and Innovation (RRI) to align the process and its outcomes with values, needs and expectations of society (multi-actor approach optional)

Links

- http://ec.europa.eu/environment/sustainable-development/SDGs/implementation/index_en.htm
- http://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=food2030
- http://ec.europa.eu/environment/circular-economy/index_en.htm









Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 LC-SFS-19-2018-2019

Climate-smart and resilient farming

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European Commission - DG AGRI

Topic introduction

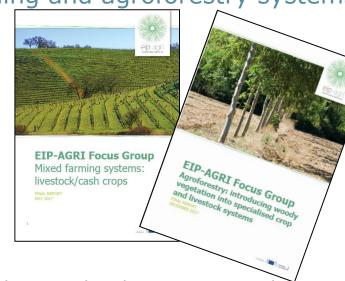
Scope B. Efficiency and resilience of mixed farming and agroforestry systems

Background for the development of the topic



- EIP-AGRI activities
- incorporating land use and forestry into the EU's emission-reduction efforts

- Requirements to keep in mind
 - Multi-actor approach
 - proposals funded under this topic (A and B) will contribute to develop a conceptual
 framework on resilience and mitigation at different levels and its policy implications.
 - Proposals should include a task to cluster with other projects financed under the same topic.



Commission

Useful resources

- Future of the CAP
 - https://ec.europa.eu/info/food-farming-fisheries/key-policies/common-agricultural-policy/future-cap en
- European Climate Adaptation Platform (Climate-ADAPT)
 - https://climate-adapt.eea.europa.eu/about
- An economic assessment of GHG mitigation policy options for EU agriculture - EcAMPA
 - https://ec.europa.eu/jrc/en/publication/eur-scientificand-technical-research-reports/economic-assessmentghg-mitigation-policy-options-eu-agriculture

EU Specific objectives	Impact indicators	Result indicators (only based on interventions supported by the CAP)
Contribute to climate change mitigation and adaptation, as well as sustainable energy	L9 Improving farm resilience: Index	R.12 Adaptation to climate change: Share of agricultural land under commitments to improve climate adaptation
	I.10 Contribute to climate change mitigation: Reducing GHG emissions from agriculture	R.13 Reducing emissions in the livestock sector: Share of livestock units under support to reduce GHG emissions and/or ammonia, including manure management
	I.11 Enhancing carbon sequestration: Increase the soil organic carbon I.12 Increase sustainable energy in agriculture: Production of renewable energy from agriculture and forestry	R.14 Carbon storage in soils and biomass: Share of agricultural land under commitments to reducing emissions, maintaining and/or enhancing carbon storage (permanent grassland, agricultural land in peatland, forest, etc.) R.15 Green energy from agriculture and forestry: Investments in renewable energy production capacity,
		including bio-based (MW) R.16 Enhance energy efficiency: Energy savings in agriculture R.17 Afforested land: Area supported for afforestation and creation of woodland, including agroforestry







Europ

Agnieszka Romanowicz UNIT B 2 European Commission – DG AGRI

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018
LC-SFS-20-2019

European Joint Programme on agricultural soil management

LC-SFS-20-2019 European Joint Programme on agricultural soil management

- Importance of soil at regional, national, EU and Global level
- This is EJP co-fund only nominated officially PM/PO can participate
- Important elements of the EJP: contribution to climate change discussion, test fields, education,





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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-23-2019

Integrated water management for agricultural land in small agriculture catchment

SFS-23-2019 Integrated water management for agricultural land in small agriculture catchment

- Water management is covered in number of EU legislations
- This topic will cover both quantity and quality of water as well as infrastructure for water retention and nutrient recovery in dual systems (drainage/irrigation)
- Important elements of the topic: multi-actor approach, preference for specific regional focus





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Tatiana Tallarico Unit F3 Agri-Food Chain European Commission – DG RTD

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018

CE-SFS-24-2019:

Innovative and citizen-driven food system approaches in cities

CE-SFS-24-2019: Innovative and citizen-driven food system approaches in cities

- Why?
 - Half of humanity lives in cities today → How to ensure food security?
 - Cities' role?
 - Need for urban food strategies

Scope

- Identify + assess benefits of food-related urban innovative approaches → Online database
- Replicate them through pilot activities → validate benefits for cities and citizens
- Cover European cities in rural and coastal areas and urban agglomerations
- Municipalities and SMEs





Requirements to keep in mind

Innovation Action: 15 M€ (2 X 7,5)

Useful resources

- Cross-cutting issues
 - Responsible Research and Innovation (RRI)
- Policy background documents
 - SDGs, EU Urban Agenda, Circular economy, Jobs & Growth, FOOD 2030









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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018

DT-SFS-26-2019:

Food Cloud Demonstrators

Research and Innovation

DT-SFS-26-2019: Food Cloud Demonstrators

- Why?
 - •To support the transition to more open & data-rich research
 - •To accelerate and support the transition to a more Open Science and Open Innovation model, to stimulate intra- and interdisciplinary research; ... to address sharp growth in data volumes
- Policy/EU initiatives: SDGs, Food2030, Open Science, European Open Science Cloud
- Goals:
 - •Build Food Cloud demonstrators that increase data findability, accessibility interoperability, and reusability, that improve the services provided to research communities and facilitate reuse of data by a wider user community
 - Focus on use cases that address researchers' needs and FOOD 2030 priorities







Requirements

- Innovation Actions: <= 10 M€; with activities such as prototyping, testing, demonstrating, piloting with limited research activities
- Support food system approach to research & innovation
- Ensure LT sustainability of demonstrators business model
- Monitor & measure awareness, interest, added value and uptake of solutions (data management skills, training)
- Reduce fragmentation

Links

- http://ec.europa.eu/environment/sustainabledevelopment/SDGs/implementation/index en.htm
- http://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=food2030
- https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud







2018-2020 Infoday, 25 June 2018 SFS-28-2018-2019-2020:

Horizon 2020

Work Programme

Scope B [2019]: Adding Value To Plant GenRes

for Research & Innovation

Annette SCHNEEGANS, UNIT B2 European Commission – DG AGRI

> Research and Innovation

SFS-28-2018-2019-2020 Scope B [2019]: Adding Value To Plant GenRes



Background

- •Genetic Resources (GenRes) hold the key to the adaptation of agriculture to changing and more variable climate
- •However, their diversity remains underused (in terms of inter and intraspecific diversity), even where GenRes collections are in place
- •One reason for this is the limited access and quality of information on GenREs available to users in ex-situ and in-situ collections
- •Objective: Step up collaborative efforts to **expand and improve preservation**, **access and use** of GenRes



SFS-28-2018-2019-2020 Scope B [2019]: Adding Value To Plant GenRes

Requirements to keep in mind

- •Expected activities:
- optimise management, services and cooperation across plant GenRes collections
- -identify valuable traits of GenRes accessions and improve information to users
- •Give attention to less adapted material and to traits associated with resilience, adaptability, quality of crops
- •While **focusing on Europe**, international resources and activities shall be taken into account
- •2 projects funded: foresee task for joint activities



Useful resources

Policy background documents

- •Report of Focus Group on GenRes:
- https://ec.europa.eu/eip/agriculture/en/focus-groups/genetic-resources-cooperation-models
- •European biodiversity strategy:
- http://ec.europa.eu/environment/nature/biodiversity/strategy/index _en.htm
- •International Treaty on Plant Genetic Resources for Food and Agriculture: http://www.fao.org/plant-treaty/en/
- •Forest Genetic Resources: http://www.fao.org/forestry/fgr/64582/en/







Annette SCHNEEGANS, UNIT B2 European Commission – DG AGRI

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-30-2018-2019-2020:

Agri-Aqua Labs
Scope B [2019]: Looking behind plant adaptation

Research and Innovation

SFS-30-2018-2019-2020: Agri-Aqua Labs Scope B [2019]: Looking behind plant adaptation

Background

- •Plants possess a number of **effective strategies to (pre)adapt to changing conditions** and to tolerate rather than avoiding stress
- •With increasingly variable environments it is important to understand how
 - plants adapt to different conditions
 - the circumstances that favour one strategy over the other and
 - how crops may respond to (future) climate



SFS-30-2018-2019-2020: Agri-Aqua Labs Scope B [2019]: Looking behind plant adaptation

Requirements to keep in mind

- Proposals are requested to
 - look into mechanisms and dynamics that underlie adaptive processes of crops and how these responses are modulated by the type and severity of conditions/stresses
 - Improve capacities for modelling plant adaption responses
- •"While taking advantage of findings from (semi) model crops, work shall focus on crop plants and relevant agronomic conditions"
- •2 projects expected to be funded: Foresee task for joint activities

















This presentation does not engage the Commission, please refer to the official documents.

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018

CE-SFS-31-2019:

ERANETs in agri-food

Research and Innovation



- Why? Improve the coordination between national and EU funding on a selected number of agrifood topics
- Sub-topics
 - A. ICT-enabled agri-food systems
 - B. Climate change and food systems
 - c. International veterinary vaccinology
- Requirements to keep in mind
 - ERA-Net Cofund: EU contribution of 6 M€ (A) and 5 M€ (each of B. and C.)





Scope: A ICT enabled agri-food systems

Background

The FOOD 2030 initiative identified digitalisation and precision techniques as major drivers of change of Agri-Food systems.

However, the sector could be faster in take-up. The open network organisation of the food sector with its multitude of SMEs and its cultural diversity is a European asset, but also a specific challenge for ICT and precision solutions.

The ERA-Net ICT-AGRI played a key role in aligning national programmes on precision farming systems, beginning with ICT-AGRI-1 in 2009. In recent years, Horizon 2020 started funding a portfolio of European projects on digitalisation and precision farming.

Further alignment of national programmes is needed to remove barriers to adoption of digital technologies, taking a food systems view and reduce the environmental footprint, increase system resilience and empower consumers.







Scope: B. Climate Change and Food Systems

Background

Proposals under this sub-topic will aim at aligning national programmes in view of developing climate-resilient and sustainable value chains for food systems. In particular they will assess risks and vulnerabilities of food systems faced with climate change, including expected effects on supply chains, thereby offering low carbon footprint solutions (technological and/or non-technological) to increase resilience and sustainability. Specific focus will be put on the socio-economic impacts of climate change on different food chains, price volatility and the territorial dimension on access to accessible and nutritious foodstuffs. Complementarity with SusFood ERA-NETs should be ensured throughout the project development stages.

The topic is open to address international cooperation with national programmes of international partner regions.

Scope: C. International veterinary vaccinology*

Background re. vaccinology

Vaccination one of the most cost-effective prevention strategies for controlling and eliminating infectious diseases of animals. Vaccines identified as an important component in strategies to reduce reliance on antimicrobials. International collaboration required.

Need to increase knowledge on immunology and to develop novel tools and generic technology platforms for producing novel and/or improved vaccines; vaccine delivery systems and thermo-stabilisation; efficient and safe vaccine against highly pathogenic avian influenza viruses and its companion DIVA test. Industry engagement in projects selected under the ERA-Net is encouraged.

Contribution of projects to the objectives of the STAR-IDAZ international research consortium (http://www.star-idaz.net/): international cooperation expected

*: indicative text. Scope being revised towards research on infectious animal diseases, adding also a particular focus on African swine fever

Scope: C. International veterinary vaccinology*

Main relevant EU projects/topics/initiatives

SAPHIR: https://www.h2020-saphir.eu/ ; **PARAGONE**: https://www.paragoneh2020.eu/

PALE-BLU: http://www.paleblu.eu/; DELTA-FLU: https://cordis.europa.eu/project/rcn/210501_en.html]

PIGS: https://cordis.europa.eu/project/rcn/210504_en.html

SWINOSTICS: https://www.cyric.eu/project/swinostics/; VIVALDI: http://www.vivaldi-ia.eu/

HEALTHYLIVESTOCK (SFS-46-2017); DEFEND (SFS-10-2017); Topic SFS-12-2019: vaccine against ASF

EU Infrastructure projects:

•VetBioNet: Veterinary Biocontained facility Network for excellence in animal infectiology research and experimentation; Transvac2: European Vaccine Research and Development Infrastructure; Infravec2: Research Infrastructures for the control of vector-borne diseases

SCAR CWG "Animal Health and Welfare" updated SRA 2017: https://www.scar-cwg-ahw.org/wp-content/uploads/2018/04/Final-Report-CWG-AHW-CASA updated-EU-AH-SRA.pdf

DISCONTOOLS: http://www.discontools.eu/

COST actions, e.g. ASF-STOP, Euro-FBP, PiGutNet, COREMI, COMBAR...



Useful recoures

- http://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=food20
 30
- http://ec.europa.eu/programmes/horizon2020/en/news/agriresearch-conference-innovating-future-farming-and-rural-communities
- https://scar-europe.org/
- https://www.era-learn.eu/network-information/networks









EU-Africa R&I Partnership on food and nutrition security and sustainable agriculture

Sustainable intensification

Agriculture and food systems for nutrition Expansion and improvement of agricultural markets and trade

Cross cutting issues





EU-Africa R&I Partnership on food and nutrition security and sustainable agriculture

- Adopted in April 2016 science and technology cooperation for a 10 year period
- Flexible approach with funding from H2020 and African Union Grants
- Currently running projects:
- InnovAfrica
- SEACRIFOG
- ERANet- LEAPAgri
- CSA- under evaluation





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Hans-Joerg Lutzeyer Unit F3 Agri-Food Chain European Commission – DG RTD

This presentation does not engage the Commission, please refer to the official documents.

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018

SFS 34-2019

Food Systems Africa

Research and Innovation

SFS 34-2019 Food Systems Africa

Why? Implementing the EU-African Union Partnership on Food and Nutrition Security and Sustainable Agriculture (FNSSA)



Nutrition sensitive agriculture, avoiding that increasing agricultural output leads to more hunger (Sikasso Paradox): Lack of agricultural diversity results in increasing levels of malnutrition

Background: Linked to Pillar 2 of the EU-Africa FNSSA Roadmap

- •sustainable post-harvest technologies (incl. bio-based packaging),
- food safety (incl. free of mycotoxins),
- reduced food waste,
- •food-supply chains to local urban and high value global markets (conventional and organic),
- Multi-actor approach





Useful recoures

Expected Impact:

sustainable healthy African diets in 10 African cities, Empowerment of small farmers and food SMEs, contributing towards reduction of malnutrition within the first 1000 days of life

Requirements to keep in mind

- •in addition to the minimum number of participants at least four participants from a specific region of Africa (as defined by African Union) and a minimum of five participants from Africa
- •Total Budget: 21 Million, proposals requesting an EU contribution on 7 million
- •Deadlines: 23 Jan. 2019, first stage, 4 Sept. 2019 second stage

Links:

- •https://ec.europa.eu/research/iscp/pdf/policy/eu-africa_roadmap_2016.pdf
- •http://www.rinea.org/en/589.php







Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-35-2019-2020:

Sustainable Intensification in Africa: scope A and B

Agnieszka Romanowicz UNIT B 2 European Commission – DG AGRI

> Research and Innovation

SFS-35-2019-2020: Sustainable Intensification in Africa: scope A and B

- This topic contributes to the first pillar of the cooperation, dedicated workshop took place on 23 January 2017.
- Scope A: African Farming Systems, sustainable intensification pathways (RIA)
 this is a general topic which includes multi-actor approach and cross cutting issues from pillar 4 of the partnership (e.g. role of female in agriculture)
- Scope B: Soil system for Africa (RIA)
- Requirements to keep in mind: Scope A: proposals shall include at least five participants from specific region of Africa (as defined by the African Union) and a minimum of eight participants from Africa. Scope B: proposals shall include at least eight participants from Africa. Due to logistics the laboratory for soil sample analysis should be located on the African continent.
- Total budget 35 million (scope A up to 7,5 million per proposal; scope B, up to 5 million)

Useful resources

Policy background documents:

https://ec.europa.eu/research/iscp/index.cfm?pg=news_by_country&country name=africa

- Key definitions:
- LUCAS soil sampling and database:
 https://esdac.jrc.ec.europa.eu/projects/lucas
- Link to FAO Global Soil Partnership with information on the IPTS members:

http://www.fao.org/global-soil-partnership/en/



Research and Innovation Cooperation in Food, Agriculture and Biotechnology (FAB) with China

 The cooperation started in 2013 and during the Horizon 2020 period up to 20 project might be funded under this cooperation.

Topics in WP 2018-2020 are co-drafted with CAAS.

 The co-funding mechanism is now fully established with dedicated funding for FAB projects.



Useful resources EU-China cooperation

Policy background documents:

https://ec.europa.eu/research/iscp/index.cfm?pg=china

Information on co-funding mechanism from MOST:

- MOST web site call notice official version in Chinese
- Call Notice unofficial English translation
- Application Guidelines unofficial English translation
- Administrative Check Requirements unofficial English translation
- Frequently Asked Questions on the CFM







Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 SFS-37-2019

Integrated approaches to food chair

Natalia Brzezina UNIT B2

European Commission – DG Agri

Research and Innovation

Background

Food safety in the food chain

Effective functioning of national and international markets with trust and transparency

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Food safety risks occur along the food chain from numerous contaminants and are increased by malpractices or fraudulent practices

Development of **integrated approaches** along the entire food chain for detecting, assessing, and mitigating relevant pathogens and other contaminant hazards is essential, yet challenging in particular for **SMEs**



- Requirements to keep in mind
 - Develop **integrated approach** for detecting, assessing and mitigating food safety risks from biological or chemical hazards (whether emerging or not) through the entire food chains
 - Include common risks and focus on specific sector(s) while taking into account diversity of the supply chains within sector(s)
 - Gather relevant data to assess risks and deliver practical solutions (technology and management related) to control hazards and their combinations
 - Develop detection and monitoring tools enabling data collection, integration, validation and analysis



- Requirements to keep in mind
 - Establish and validate non-targeted and targeted rapid detection methods for biological and chemical hazards
 - Pay attention to developing and/or improving systems ensuring process efficacy and validation for hazard control
 - Work within the food safety risk analysis framework
 - Develop simple and practical decision support tools tailored towards the needs of agri-food sector, in particular SMEs, and scientific stakeholders



Cross-cutting issues



- EU-China FAB Flagship initiative
- Balanced R&I cooperation between the EU and China
- China-based entities → the Chinese co-funding mechanism
- Multi-actor approach → involvement of SMEs and food safety control authorities
- Other project/s financed under this topic
 & complementarity with EU-China-Safe



Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership

Research & Innovation Action (≈ €4/proposal)



Useful resources

Key definitions

Integrated approach

- Efficient food safety control systems,
- Supported by reliable authentication and traceability approaches,
- Implemented across the entire food chain,
- •Focused on the combination of hazard monitoring and control options in the specific stages of the food chain where the impact would be greater, or combinations of these at multiple stages
- Links
 - •EU regulatory framework on food safety: https://ec.europa.eu/food/safety_en







Horizon 2020 Work Programme for Research & Innovation 2018-2020

Infoday, 25 June 2018 **CE-SFS-39-2019**

High-quality organic fertilisers from biogas digestate

RUIZ ESPI Jose UNIT B2

European Commission – DG AGRI

Research and Innovation

- Circular Economy Package (December 2015)
 - → Proposal for a revised **fertilisers regulation** (March 2016): favourable framework for organic-based fertilisers
 → new technologies needed
- → EU Bioeconomy Strategy review (2017) → bioeconomy to become more circular



EU-China FAB flagship initiative (2013)



Challenges

- → EU Member States and China promote biogas → digestate an environmental & economic concern
- → Used as fertiliser / amender, but:
- Soil / water pollution
- Food contamination
- Quality
- Use / handling





- Requirements to keep in mind
 - → Technologies to convert digestate into a suitable fertiliser / amender:
 - Reduced risks
 - Better fertilising properties
 - Format, formulation, handling
 - → Field tests
 - → Focus on small-scale, TRL 6-7
 - → Impact assessment
 - → Policy recommendations
 - → Cluster with CE-RUR-08 and other (H2020 and BBI JU)
 - → Balanced EU-China cooperation

Innovation Action € 5 M (≈ € 5 M/project)



Useful resources

- Circular Economy: http://ec.europa.eu/environment/circular-economy/index en.htm
- EU Bioeconomy Strategy: http://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=strategy
- EU Bioeconomy Strategy review (SWD):
 https://ec.europa.eu/research/bioeconomy/pdf/review of 2012 eu bes.p
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- Fertiliser Regulation (EC proposal, March 2016): https://ec.europa.eu/transparency/regdoc/rep/1/2016/EN/1-2016-157-EN-F1-1.PDF
- Nutrient Recovery and Reuse (NRR) in European agriculture (RISE foundation):
 http://www.risefoundation.eu/images/files/2016/2016 RISE NRR Full EN_pdf
- EIP-AGRI Focus Group on nutrient recycling: https://ec.europa.eu/eip/agriculture/en/focus-groups/nutrient-recycling



Thank you!

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