

Meeting of the SWG SCA S Strategic Working Group on Agricultural Knowledge and Innovation Systems

Good practices & challenges of knowledge
exchange activities in the **current** period
+ plans for the **future** e.g. in
CAP AKIS Strategic plans

Kaunas, LT, 19-20/10/2019

Member State: **XXXXXX**

SCAR
Standing Committee
on Agricultural Research



Which knowledge exchange activities are possible?

AKIS 4 report – sections 1.4 and 1.5

- **For your inspiration**, attached is a list of possible AKIS actions of which some are specific to **incentivise knowledge exchange**,

For instance:

- thematic networks
- Dedicated networking activities of the EIP networks or NRNs
- Member States' networks filtering, summarizing and **translating (!!!)** all info relevant for their country about OGs, H2020 MA projects, other relevant EU or national (research) projects

Which knowledge exchange activities are possible?

- knowledge centres making relevant info flow between actors (who?)
- digital knowledge reservoirs (who organises and updates?)
- farmer-to-farmer exchanges (who organises?)
- On-farm demonstration (who organises?)
- Networks of demonstration farms
- Training on... (innovative or recent knowledge, specific themes, ...)
- Actions from research institutes to bring their solutions/practical knowledge to farmers and advisors

Which knowledge exchange activities are possible?

- Specific dissemination channels (which work best for practitioners?)
- Exchange visits of farmers or advisors
- Initiatives from education/schools to transfer knowledge
- Minimum education requirements for farmers (which content?)
- Co-location of knowledge actors
- Specific initiatives to bridge the gap between science and practice
- Communication to consumers and society
- Etc.....

Which good practices for knowledge exchange activities work well in your country/region?

Which good practices of knowledge exchange activities work well in the current period ?

FEB2019: Workshop to exchange knowledge and experiences among regional/national policy makers in charge of planning rural policy for the next MFF (AKIS): presentations from policy makers (AKIS concept and framework, role in coming CAP, best regional practices (Catalonia), example of micro AKIS through AGRILINK H2020 project (INTIA-technological centre)

Which good practices for knowledge exchange activities work well in your country/region?

Which good practices of knowledge exchange activities work well in the current period ?

- Workshops to exchange knowledge and experiences among agents of different groups of agents (i.e. Farmers and advisors, advisors and researchers):

Setting up of a FOCUS GROUP on advisory in AKIS: 20-25 relevant AKIS actors (national/regional scope) to be selected (open call closes 19th Nov) to discuss on how to cluster, map and support these services. 3 meetings to be held among Dec 2019- March 2020

Which good practices for knowledge exchange activities work well in your country/region?

Which good practices of knowledge exchange activities work well in the current period ?

- Agri-food fairs:

AGRIFOOD SUMMIT MALAGA (Jun2019): round table on **startup villages**, an initiative powered by the **Digitalization Strategy for the agrifood sector and the rural areas** (COM and ES policy makers, entrepreneurs, venture companies, rural startup supporting companies, facilitators)

SOUND VALLEY SORIA (Jul2019): digitization OGs session

Which good practices for knowledge exchange activities work well in your country/region?

Which good practices of knowledge exchange activities work well in the current period ?

PRESURA SORIA Nov2019: round table on Smart Villages (policy makers, other stakeholders)

DATAGRI Nov2019: digitization event on the agrifood sector:

- Round table on talent and training
- Digitization OGs and FAIRSHARE presentation workshop
- WG on smart agriculture as a Digitalization Strategy governance body.

Which good practices for knowledge exchange activities work well in your country/region?

Which good practices of knowledge exchange activities work well in the current period ?

- Many OGs : participation in regional ones and organization of national ones (always inviting also regionals):

Innovation knowledge exchange (OGs)

Implementation issues

Best practices on forms

What to expect from the future CAP

Which challenges for knowledge exchange activities do you see in your country/region?

Which are the challenges for the knowledge exchange activities you listed ? Which are the incentivising factors that make it work? How is the funding and the organisation managed?

- Outcomes from AKIS workshop in Feb2019:
 - Bridging the gap between research and practice (and connecting)
 - Sharing the needs of farmers
 - Sharing research results (the role of Public Research Centre)
 - Training

Which challenges for knowledge exchange activities do you see in your country/region?

Which are the challenges for the knowledge exchange activities you listed ? Which are the incentivising factors that make it work? How is the funding and the organisation managed?

- H2020 projects on AKIS:

FAIRSHARE: Improving use of Digital Tools and Services in AKIS and advisory services.

Collection of 200 DATS evaluation and identification of best practices and characteristics

i2CONNECT: helping advisors in digital transition on agriculture sector

The DS defines the strategic lines and measures necessary to boost digital transformation in the agri-food and forestry sector and rural areas, as well as the instruments planned to implement them. Its main aim is to eliminate or **reduce currently existing technical, legislative, economic and educational barriers**, thereby helping an economically, socially and environmentally sustainable agri-food sector to lead and to **actively repopulate rural areas**, making them more attractive, lively, dynamic and diverse places that generate wealth and quality jobs, paying special attention to **young people and women**.

OBJECTIVE O1

To narrow the digital divide

between rural and urban areas, as well as between small and large companies, aiming for all parties to be connected.

To achieve this, work is to be done on connectivity in order to narrow the physical digital divide as regards infrastructure, and also on capacity building to narrow the divide in adopting new technologies



OBJECTIVE O2

To foster data use as an engine to boost the sector, addressing the interoperability of the sector's data and the openness of data, understanding the latter concept in the widest sense so as to encourage, this openness in the Public Administration, in research and in the private sector.

OBJECTIVE O3

To boost business development and new business models, to bolster the digital innovation ecosystem as a key aspect in modernising the sector, and to provide advice for digital adoption in Knowledge and Innovation Systems in the agri-food and forestry sector and rural areas, in addition to **fostering new business models**, which often arise on applying and adopting technologies in certain fields.

DS MEASURES. NATIONAL RDP MODIFICATION IN PROGRESS

L1. Connectivity

- M1. Coordination
- M2. Dissemination and advice about existing formulas.

L2. Training

- M1. Fostering the inclusion of digitisation in formal education
- M2. *Vocational training out of normal education and skills acquisition*
- M3. *Attracting young people and women as stable inhabitants in rural areas*



L1. Interoperability

- M1. Fostering collaboration to improve interoperability by capitalising on existing initiatives on a European level
- M2. *Interoperability projects that respond to specific problems in which interregional stakeholders cooperate*

L2. Open Data

- M1. Open data in Public Administrations
- M2. Public research data

L3. Data from the value chain and environmental data

- M1. Support for the Code of Conduct to exchange and use agricultural data and data from the chain
- M2. *Promoting incentives to digitise farm logbooks*
- M3. Cooperatives as data gatherers
- M4. **Spanish and European data on food consumption**

M5. *Collaboration for developing the CAP's Integrated Administration and Control System*

M6. **Fostering automatic collection of existing geospatial data on greenhouse gas data.**



DS MEASURES. NATIONAL RDP MODIFICATION IN PROGRESS

L1. Strengthening the digital innovation ecosystem

- M1. Fostering Digital Innovation Hubs (DIHs)
- M2. Innovative Public Procurement
- M3. Fostering collaboration among knowledge hubs, technological companies, and companies from the sector
- M4. *Support for introducing the Living Labs method into Spain*

L2. Advice on digital adoption in the agrifood and forestry sector and rural areas' Knowledge and Innovation Systems

- M1. *Fostering knowledge and information exchange among digital advisors*
- M2. *Advice for SMEs and startups in their process of digital adoption*
- M3. *Boosting advice via events and demonstration activities*

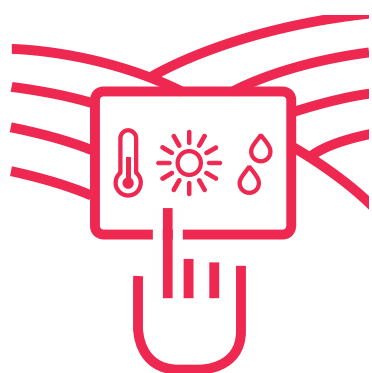


L3. Fostering new business models

- M1. Platform for digital entrepreneurship in rural areas
- M2. Fostering telework
- M3. Coordination between Public Administrations to bring in line aid for entrepreneurship in rural areas
- M4. Dissemination of European initiatives linked to digitisation in the spheres of **Smart Villages**, rural entrepreneurship and Startup Europe
- M5. Boosting development of a Smart Rural Territories ecosystem. **Startup Villages**



I ACTION PLAN 2019-2020



40 ACTIONS

**7 ACTIONS CAN BE
PROGRAMMED IN THE
NATIONAL PROGRAMME
OR RURAL DEVELOPMENT
(EAFRD) SO FAR**

O1. REDUCE THE DIGITAL DIVIDE

O1.L2. CAPACITACIÓN

O1.L2.M2. Formación continua no reglada y adquisición de competencias

A5	Formación digital para personal directivo de entidades del sector
A6	Formación digital para productores primarios del sector agroalimentario
A8	Formación y actividades demostrativas en el marco del PNDR 2014-2020

O2. SUPPORT DATA USE

O2.L1. INTEROPERABILIDAD

O2.L1.M2. Proyectos de interoperabilidad que den respuesta a problemas concretos en los que cooperen actores interregionales

A12	Convocatoria de interoperabilidad para Proyectos Innovadores
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O2.L3. DATOS DE LA CADENA DE VALOR Y MEDIOAMBIENTALES

O2.L3.M4. Datos de consumo España y Europa

A19	Convocatoria de uso de datos de consumo para Proyectos Innovadores
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O3. BOOST ENTERPRISE DEVELOPMENT AND NEW BUSINESS MODELS

O3.L1. FORTALECIMIENTO DEL ECOSISTEMA DE INNOVACIÓN DIGITAL

O3.L1.M4. Apoyo a la implantación de la metodología *Living Labs* en España

A28	Convocatoria <i>Living Labs</i> para Proyectos Innovadores
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O3.L2. ASESORAMIENTO PARA LA ADOPCIÓN DIGITAL EN SISTEMAS DE CONOCIMIENTO E INNOVACIÓN AGROALIMENTARIOS, FORESTALES Y DEL MEDIO RURAL

O3.L2.M2. Asesoramiento a PYMEs y *startups* en el proceso de adopción digital

A30	Asesoramiento a PYMEs y explotaciones agrarias en el marco del PNDR 2014-2020
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O1. REDUCIR LA BRECHA DIGITAL

O1.L1. CONECTIVIDAD

O1.L1.M1. Coordinación para la mejora de la conectividad

A1	Análisis de la conectividad en el territorio rural
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O1.L2. CAPACITACIÓN

O1.L2.M1. Impulso para la inclusión de la digitalización en la formación reglada

A2	Impulso a la inclusión de competencias digitales en la formación reglada de carácter agroalimentario y forestal
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O1.L2.M2. Formación continua no reglada y adquisición de competencias

A3	Centro de Competencias para la formación digital/agro/rural
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A4	Curso Piloto del Centro de Competencias
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A5	Formación digital para personal directivo de entidades del sector
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A6	Formación digital para productores primarios del sector agroalimentario
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A7	Formación digital para productores primarios del sector agroalimentario y personal directivo de entidades del sector
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A8	Formación y actividades demostrativas en el marco del Programa Nacional de Desarrollo Rural (PNDR) 2014-2020
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A9	Programa Crear Futuro
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A10	Programa Ejecutivo de Industria 4.0 y Negocios Conectados
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O1.L2.M3. Atracción de jóvenes y mujeres como habitantes estables del medio rural

A3	Centro de Competencias para la formación digital/agro/rural
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A4	Curso Piloto del Centro de Competencias
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A9	Formación para la ciudadanía
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A11	Programa de intercambio de experiencias entre jóvenes
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O2. FOMENTAR EL USO DE DATOS

O2.L1. INTEROPERABILIDAD

O2.L1.M2. Proyectos de interoperabilidad que den respuesta a problemas concretos en los que cooperen actores interregionales

A12	Convocatoria de interoperabilidad para Proyectos Innovadores
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O2.L2. DATOS ABIERTOS

O2.L2.M1. Datos abiertos en las Administraciones Públicas

A13	Puesta en marcha de la publicación de datos abiertos MAPA
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A14	Iniciativa Aporta, sector AGRO
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A15	Desafío Aporta 2019
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O2.L3. DATOS DE LA CADENA DE VALOR Y MEDIOAMBIENTALES

O2.L3.M1. Apoyo al Código de Conducta para el intercambio y uso de datos agrícolas y de la cadena

A16	Difusión del Código de Conducta para el intercambio de datos agrícolas
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O2.L3.M2. Promoción de incentivos por la digitalización de cuadernos de explotación

A17	Impulso a la digitalización de los cuadernos de explotación
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O2.L3.M3. Cooperativas como agrupadoras de datos

A18	Cooperativas como agrupadoras de datos
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O2.L3.M4. Datos de consumo España y Europa

A19	Convocatoria de uso de datos de consumo para Proyectos Innovadores
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O2.L3.M5. Colaboración para la mejora del Sistema Integrado de Administración y Control de la PAC

A20	Mejora digital del Sistema Integrado de Gestión y Control
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ACTUACIONES

O3. IMPULSAR EL DESARROLLO EMPRESARIAL Y LOS NUEVOS MODELOS DE NEGOCIO

O3.L1. FORTALECIMIENTO DEL ECOSISTEMA DE INNOVACIÓN DIGITAL

O3.L1.M1. Fomento de los Centros de Innovación Digital (DIH)

A21 Posicionamiento de los DIH

O3.L1.M2. Compra Pública Innovadora

A22 Fomento de la Innovación desde la Demanda del sector agroalimentario y forestal (FID Agri)

O3.L1.M3. Fomento de la colaboración entre centros de conocimiento, empresas tecnológicas y empresas del sector

A23 Apoyo a la digitalización en el marco de los Sistemas de Conocimiento e Innovación agrícolas (AKIS)

A24 Food Start Tech 2019

A25 Implementación de la Industria Conectada 4.0

O3.L1.M4. Apoyo a la implantación de la metodología *Living Labs* en España

A26 Convocatoria *Living Labs* para Proyectos Innovadores

O3.L2. ASESORAMIENTO PARA LA ADOPCIÓN DIGITAL EN SISTEMAS DE CONOCIMIENTO E INNOVACIÓN AGROALIMENTARIOS, FORESTALES Y DEL MEDIO RURAL

O3.L2.M1. Fomento del intercambio de conocimiento e información entre asesores digitales

A27 Inventario de herramientas y servicios digitales de apoyo a la toma de decisiones

O3.L2.M2. Asesoramiento a PYMEs y *startups* en el proceso de adopción digital

A28 Asesoramiento a PYMEs y explotaciones agrarias en el marco del PNDR 2014-2020

A29 Programa ACTIVA Industria 4.0

A30 Programa de Crecimiento Empresarial

O3.L2.M3. Refuerzo del asesoramiento mediante jornadas y actividades demostrativas

A30 Programa de Crecimiento Empresarial

O3.L2.M3. Refuerzo del asesoramiento mediante jornadas y actividades demostrativas

A27 Inventario de herramientas y servicios digitales de apoyo a la toma de decisiones

O3.L3. FOMENTO DE LOS NUEVOS MODELOS DE NEGOCIO

O3.L3.M1. Plataforma para el emprendimiento digital en el medio rural

A31 Apoyo a las plataformas para el emprendimiento digital en el medio rural

O3.L3.M3. Coordinación entre administraciones para acercar líneas de ayuda al emprendimiento en el medio rural

A32 Difusión de líneas de ayuda al emprendimiento en el medio rural

O3.L3.M4. Difusión de las iniciativas europeas vinculadas a digitalización en los ámbitos de *Smart Villages*, emprendimiento rural y *Startup Europe*

A33 Difusión de iniciativas *Smart Villages*

A34 Participación en *StartUp Olé 2020*

A35 Participación en DATAGRI 2019 y 2020, IV y V edición

A36 Participación en *Smart Agri Food Summit 2019 y 2020*

O3.L3.M5. Impulso al desarrollo de un ecosistema de Territorios Rurales Inteligentes. *Startup Villages*

A37 Territorios Rurales Inteligentes

A38 Liderazgo e impulso de la iniciativa *Startup Villages*

GOBERNANZA

A39 Grupo de Trabajo de agricultura de precisión

A40 Grupo de Trabajo de digitalización e integración de la cadena de valor en la industria agroalimentaria

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region?

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region? Why?

Demonstration activities: **FAIRSHARE; i2connect, DS**

Advisor training activities on digitisation and research results: **DS (CAP-SP), coordination Science Ministry within the frame of the National Strategy for Science, Technology and Innovation**

Farmer training: **DS, CAP-SP**

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region?

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region? Why?

Innovation rewards: **DS (cross-cutting measure: pilot)**

Agricultural and rural innovation fairs, Startup fairs

Hakathon activities (**ej. direct payment for Private Research Centre CNTA: pilot...**)

Workshops gathering different AKIS actors and also for a single group of actors

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region?

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region? Why?

Other interventions:

- Special approach on knowledge exchange for young farmers and women.
- Equal treatment for rural development activities (out of Annex I products).
- Shape the FAS for the AKIS adventure
- Installation of young farmers and rural business startups

Catalan Rural Development Programme (RDP) 2014-2020

Regulation (EU) 1305/2013 – Art. 14.
Knowledge transfer and information actions



Support for demonstration actions

- Addressed to universities, research and technology centers
- Eligible costs: Personnel expenses, implementation costs, overheads
- Support rate: 100%
- Maximum aid: 30.000€

CALL	Available budget	Applications submitted	Applications selected
2017	1 M€	78	37
2018	2 M€	82	59
2019	1,5 M€	59	On-going

Total Budget 2014-2020 : 5 M€

Catalan Rural Development Programme (RDP) 2014-2020

Regulation (EU) 1305/2013 – Art. 14.
Knowledge transfer and information actions

Examples of demonstration actions (available at i-Cat network)

Management of plant cover on the tree line with machinery as an alternative to herbicides

<https://bit.ly/2CGomZk>



Dissemination of the positive relationship between the increase in soil organic matter, microbial biodiversity, fertility and resistance to diseases from carbon rich compost in horticultural soils

<https://bit.ly/32GGDR4>

<https://www.youtube.com/watch?v=l4NZ5Sjlh0>





xarxa-i.cat

i.cat - Network

OBJECTIVES

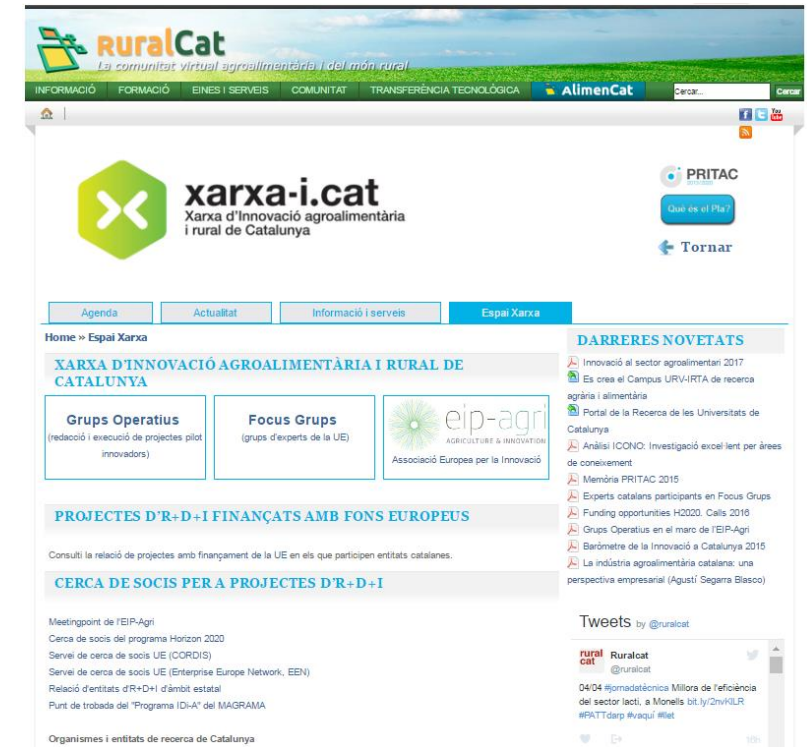
- Display current projects, actions,... (259)
- Identify and recognise active stakeholders
- Encourage involvement of new stakeholders
- Capitalize results to the final user
- Strengthen the position of the sector vis-a-vis other sectors and/or stakeholders

HOSTED BY RURALCAT consolidated virtual platform of the Catalan agricultural, food-industry and rural world

Number of RuralCat registered users: 35.891



Helping capitalization of results

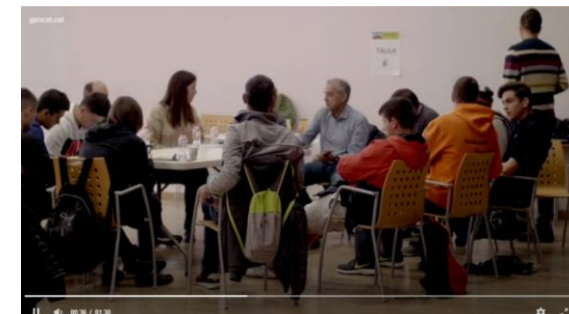


Specific training program for starting-up young farmers

New model for the management of the young farmers start-up grant scheme

Basic aspects:

- Tailored training program depending on: starting-up project, educational profile and professional experience of the young farmer
- Tutor support
- Flexible training models, adapted to the needs of the entrepreneurs: e-training, learning-by-doing,...



Which challenges for knowledge exchange activities do you see in your country/region?

Which are the challenges for the knowledge exchange activities you listed ?

1. Target group with scattered distribution and with very particular needs
2. Shortage in Communication culture within the scientific community (“Knowledge Generation” and “Marketing” have traditionally been separated)
3. Funding uncertainties, both in private and public (continuity in CAP post 2020?; National and/or Regional AKIS Strategic Plans?)
4. Innovation culture to be strengthen in certain productive sectors

Which challenges for knowledge exchange activities do you see in your country/region?

Which are the incentivising factors that make it work? How is the funding and the organisation managed?

1. Cutting red tape: simple rules and reduced administrative burden
2. Strong communication/dissemination channels, supported by the administration as a neutral player (Less resources to achieve higher impact)
3. Once in motion, the system is self-sustained with new networking dynamics responding to real needs

Knowledge generation is more expensive than knowledge transfer

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region?

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region? Why?

1. Maintain existing tools
2. Explore the “living-labs” formula to overcome the lack of awareness of other actor’s priorities/activities/needs, to propose new policies, to define research needs,...
3. Support Innovation brokers/Innovation hubs
4. Increased range of tools, adapted to the reality of the rurality depending on: ripeness and development; cost effectiveness; critical mass; previously existing knowledge and expertise
5. **KEY: Regional scale** (rurality closely linked with territory) and **Bottom-up** (reap real needs)

Discussion:

All comments and suggestions very welcome!



SCAR

AKIS

Agricultural Knowledge
and Innovation Systems

**Thank you for your
attention!
and for your active participation
and commitment!**

Report available at:

https://ec.europa.eu/info/news/knowledge-and-innovation-unlocking-potential-food-and-farming-2019-sep-26_en (more paper copies can be asked to Inge.Van-Oost@ec.europa.eu)

