



SWG SCAR-AKIS

Strategic Working Group on Agricultural Knowledge and Innovation Systems

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Spain/Catalonia

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

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1. Introduction on Art 102 on AKIS

Article 102 Modernisation

The description of the elements that ensure modernisation of the CAP referred to in point (g) of Article 95(1) shall highlight the elements of the CAP Strategic Plan that support the modernisation of the agricultural sector and the CAP and shall contain in particular:

(a): *an overview of how the CAP Strategic Plan will contribute to the cross-cutting general objective related to fostering and sharing of knowledge, innovation and digitalisation and encouraging their uptake set out in the second subparagraph of Article 5, notably through describing....(i) and (ii)*

There are 2 parts in Art 102 to describe in the CAP AKIS plans:

- (i) the **organisational** set-up of a well-functioning AKIS in your country
- (ii) how this organisation helps to **deliver services**: better advice, more innovation and improved knowledge flows

A) Characteristics of your AKIS (SWOT)

- What are the **main characteristics of your national AKIS** (strength, weakness, main actors, knowledge flows that characterize your AKIS)?
- *Spain has not yet deeply analysed these characteristics, however, the most relevant items are:*
- *STRENGTH: there are already coordination structures among regions functioning at a national level. Some regions can share their knowledge to others less developed in this field. A **kick off meeting** has already taken place to take stock of relevant information and discuss on governance, knowledge exchange and coordination and back office.*
- *WEAKNESSES: fragmented (regionalized), different stage of evolution among regions, knowledge gap between research community and farmers needs*

A) Characteristics of your AKIS (SWOT)

- What are the **main characteristics of your national AKIS** (strength, weakness, main actors, knowledge flows that characterize your AKIS)?
- MAIN ACTORS:
 - *farmers (and farmers organizations and cooperatives, etc)*
 - *advisors,*
 - *training centres,*
 - *technological centres,*
 - *Universities,*
 - *Public Administrations,*
 - *input and services companies*
 - *and agrifood industries*
 - *Financial entities focused on agriculture*
 - *Food value chain retailers*

A) Characteristics of your AKIS (SWOT)

- **Main characteristics of your national AKIS**

Complex, fragmented, diverse, ...

- **Main changes**

Promote Actions addressing agreed shared challenges at regional/national level

- **Main barriers and bottlenecks.**

“Knowledge Generation” and “Need for Solutions” have traditionally been separated

- **Overcome**

Technological Start-ups, Advisors, Innovation Brokers,...

- **Process**

On-going at Spanish level.

In Catalonia: National Pact for the knowledge society, Catalan Strategic Plan for Agri-food Research, Innovation, and Knowledge Transfer (R+I+T) 2021-2030, ... Ready to embrace the Spanish Strategy

A) What will be the **main changes** to implement if you compare with the current situation?

- Change on Farm Advisors way of working:
 - wider scope,
 - new technologies
 - Network of FAS
 - Innovation broker
- Change on farmers' behavior towards smart farming
- Link between farm advisors and knowledge and technological development community
- Uptake of technology and capacity building on digital skills
- Use of platforms for knowledge flow
- Improve the involvement of the research community

A) Main barriers and bottlenecks hindering knowledge flows in your AKIS /How to overcome them?

- Lack of deep knowledge or the state of the art in AKIS ⇒ Need of identification all the actors involved on AKIS (AKIS mapping)
- Lack of awareness of other actors priorities/activities/needs... ⇒ Need of cross meetings among different groups of actors involved
- Need of meetings within the same groups of actors to share challenges and experiences
- Community channels weaknesses

A) How is the process of discussion on AKIS going in your country?

- ▶ **Coordination Workshop for the Public Administration** representative involved in **AKIS** (February 2019):
 - ▶ Aim: to create an open discussion forum and a collaborative working process for the exchange of experiences, consultations and alternatives to improve the AKIS with the technicians of the Autonomous Communities and the National Ministry that will work in the characterization of the AKIS. Presentations were made about: AKIS concept and evolution, AKIS approach within CAP post 2020, miniAKIS example through the AGRILINK (h2020) project, Catalanian regional experience. Followed by parallel discussions on governance, knowledge exchange and FAS and back office. Final discussion, outcomes, and next steps.
- ▶ **Upcoming activities (on the making):**
 - ▶ **Internet forum** of civil servants involved on AKIS
 - ▶ **National Focus Group** on FAS within AKIS

B) Future CAP AKIS Strategic plans

- Starting from Art 102 in the Commission proposal, and in order to tackle the cross-cutting objective on K&I, please explain:
 - ▶ (i) how the **organisational set-up of the AKIS**, and in particular **advisory services as referred to in Article 13, research and CAP networks**, will improve cooperation and the sharing of knowledge in an integrated manner; and
 - Work in progress within the national CAP strategic plans working groups.
 - ▶ (ii) how they will **provide** advice, knowledge flows and innovation support **services**
 - Work in progress within the national CAP strategic plans working groups.

C) interventions planned in your future AKIS

What are the **main CAP interventions** you may plan for your national **AKIS**? With regard to:

- ▶ a. Enhancing knowledge flows and **strengthening links between research and practice**
- b. **Strengthening farm advisory services within the AKIS**
- c. **Strengthening interactive innovation**
- d. Supporting **digital transition** in agriculture

Answer linked to the National Digital Strategy for the agrifood and forest sector and the rural areas:



Specific objectives of National Digital Strategy vs highlighted points of a future national AKIS

O1. Reduce the digital divide.

- ▶ Connectivity technology
 - ▶ Improvement current connectivity technologies coverage
 - ▶ Advisory within sector about existing connectivity technologies
- ▶ Skills training
 - ▶ Regulated and non regulated education, focus on youths, and woman.

Highlighted points of a future national AKIS

- ▶ a. Enhancing knowledge flows and strengthening links between research and practice
- ▶ d. Supporting digital transition in agriculture

Specific objectives of National Digital Strategy vs highlighted points of a future national AKIS

O2. Support Data Use

- ▶ Interoperability
 - ▶ Strengthen collaboration among European initiatives (e.g. FIWARE IOF2020)
 - ▶ Multiregional projects based on solution for data sharing (National contests promotion, EIP-Agri projects)
- ▶ Open data
 - ▶ Public Administrations and Research sectors (Ministry of Agriculture, Fisheries and Food as coordinator for agricultural data and collaboration with Ministry of Science, Innovation and Universities)
- ▶ Chain value and environmental data
 - ▶ Data sharing along chain value
 - ▶ Agricultural Cooperatives as main player gathering data
 - ▶ National and EU consumption data (Food, timber and non timber forest products, bioeconomy products,..)
 - ▶ Improvement of IACS for the future CAP (H2020 NIVA)
 - ▶ Geospatial data for land use, land use change and forestry monitoring (Copernicus, Sentinel data).

Highlighted points of a future national AKIS

- ▶ a. Enhancing knowledge flows and strengthening links between research and practice
- ▶ b. Strengthening farm advisory services within the AKIS
- ▶ c. Strengthening interactive innovation
- ▶ d. Supporting digital transition in agriculture

Specific objectives of National Strategy for digitalization vs highlighted points of a future national AKIS

O3. Boost enterprise development and new business models

- ▶ Strengthen the digital innovation system
 - ▶ Regional DIH coordination and connected to EU.
 - ▶ Public procurement strengthening innovative solutions.
 - ▶ Collaboration (e.g. partnerships H2020) with main innovative players of the sector (research and education centers, IT companies, startups, private sector in general).
- ▶ Advisory for the set up of AKIS approach applied for agri-food, forestry and rural territories
 - ▶ Data sharing among digital advisory services (national platform in development; FAIRshare)
 - ▶ Special advisory for SME and startups for digital switchover process (e.g. Digital Switchover Units)
 - ▶ Success and fails cases sharing
- ▶ Boost new business models
 - ▶ Platform for entrepreneurship in rural territories,
 - ▶ Public Administration coordination for funding of entrepreneurship.
 - ▶ Smart Villages-Startup Europe Partnership. EU initiative. Horizon Europe (2021-2027)

Highlighted points of a future national AKIS

- ▶ a. Enhancing knowledge flows and strengthening links between research and practice
- ▶ b. Strengthening farm advisory services within the AKIS
- ▶ c. Strengthening interactive innovation
- ▶ d. Supporting digital transition in agriculture



**THANK YOU FOR YOUR
ATTENTION!**