PRIMA-Informationstag 18.02.2020

Sektion 2: Topic im Themenbereich Landwirtschaftssysteme
**Call 2020 Farming systems Topics**

**Topic 1.2.1**

Genetic conservation and animal feeds

A) Genetic Conservation and valorisation of local Animal Genetic Resources
B) Alternative animal feed

**Topic 2.2.1 (RIA)**

Re-design the agro-livelihood systems to ensure resilience
### Topic 2.2.1 RIA Redesign agro-livelihood systems to ensure resilience

#### SRIA priorities addressed

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<th>SRRI priorities addressed</th>
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<tr>
<td><strong>2.1 Adaptation of agriculture to climate change</strong></td>
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<td>Genetic and plant breeding but cropping system diversification, and spatial organisation, as well as diversification of animals are also important for improving resilience to climate change.</td>
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<td><strong>2.2 Developing sustainable and productive agro-ecosystems</strong></td>
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<td>Better integration of natural environmental regulation of biotic and abiotic stresses into farming systems, optimization of input use, development of new cropping systems and use of digital technologies. To do so, the specificity of Mediterranean ecosystem assets and vulnerabilities must be taken into account and solutions adapted to local conditions must be developed.</td>
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Topic 2.2.1 RIA Redesign agro-livelihood systems to ensure resilience

Challenge

Monoculture damage soil and water resources

High risk of losing the yield after extreme events

Huge variability and uncertainty for farmers' incomes
Topic 2.2.1 RIA Redesign agro-livelihood systems to ensure resilience

Scope / approach
Design RESILIENT FARMING SYSTEMS to maintain YIELDS AND INCOMES AFTER EXTREM EVENTS

- Agro ecological approach
- Crop rotation and diversification
- Perennial species
- Mix farming systems
- Circular economy approach
- Valorization of ecosystems services
- Ensure fair and stable incomes to small farmers
Topic 2.2.1 RIA Redesign agro-livelihood systems to ensure resilience

Expected impacts

- Systems redesigned to minimize the risk of failure associated with yield losses due to inappropriate farming systems (e.g. monoculture) and climate change

- Adoption of environmentally, socially and economically sustainable agroecosystems productions

- Increased soil fertility by the proposed farming systems

- Increased income and satisfaction by the farmers

- Yield stability and quality in comparison to standard farming systems under challenging environmental conditions
KPI - SGD for farming systems topics

Number of innovations in farming systems developed enabling sustainable and efficient agriculture and food systems

SDG#2  Indicator 2.4.1 Proportion of agricultural area under productive and sustainable agriculture

SDG#2- Indicator 2.5.1: Number of plant and animal genetic resources for food and agriculture secured in either medium or long-term conservation facilities

SDG#2- Indicator 2.5.2 Proportion of local breeds classified as being at risk, not-at-risk or at unknown level of risk of extinction
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