ADESVA is the Agrofood Technological Center, is a non-profit organization with legal personality founded in 2001 and located in Lepe (Spain).

ADESVA has prioritized scientific activities of technological knowledge generation and knowledge application development of R+D, for the benefit of the whole agrofood sector, and, particularly, for the 44 members who make up the association, belonging to different areas of the sector.

After nearly five years since its inception, ADESVA has led the implementation of more than 90 research projects. ADESVA has organized more than 70 events (meetings, workshops, conferences, courses, etc.), has met the demand of 200 clients and has developed 60 technology transfer actions. It has also become part of several European consortiums for research projects.

ADESVA has proven its ability as a dynamic center and generator of knowledge in R&D:

- It is provincial coordinator of technological agents:
  - It acts as coordinator and representative of the cluster: Innovative Business Group of companies linked to the Andalusian Auxiliary Industry – AEVIA- (www.aevia.es).
  - ADESVA has been invited to participate, on behalf of the sector in the provincial strategic plan "NEHI" New Industrial Strategy for Huelva.
  - ADESVA has a close relationship with the University of Huelva for project development and knowledge transfer.

ADESVA has implemented an Integrated Management System (IMS) that ensures a model of efficient and sustainable development and to show their commitment to quality, technological innovation and environmental friendliness. The Integrated Management System combines the following accreditations:

- UNE 166.002:2006: R+D and Innovation Management Systems
ADESVA has the following qualifications and skills:

- Qualified AEI Excellence.
- Member of ceiA3 -Campus of International Excellence in Agrofood Sector.
- Members of Spanish Association for Quality.
- Approved consultant by the High Council of Chambers of Commerce.
- Member of several technology platforms: Food for Life, BIOPLAT.

ADESVA is specialized in the most important areas of knowledge for agribusiness. They are capable of tuning an idea into a project quickly and efficiently, supported by our infrastructure and scientific-technical network.

Our facilities are located in the main areas for food production in Andalusia, making it possible to bring science and business ever closer, offering solutions that can be applied to real life business.

We count on several semi-industrial pilot plants focused on new products development and determination and improvement of processing parameters.
ADESVA has a clear aim, to help make companies more competitive through Innovation and R&D. We perform the R&D and innovation projects under six strategic business units or subgroups:

**Food Production:**
- Efficient soil and soilless based crop management based on ICT.
- New strategies for reducing of production costs and environmental impacts.
- Pest and diseases control.
- New technologies for improving the productivity and resilience of agriculture
- New water disinfection technologies (ozone, oxygen ionized, UV).
- Biodegradable plastics for agriculture.
- Studies of new varieties.
- Environmental improvement of food production processes.
- Using statistical methodology for predicting the crop productions.
- Development of machinery.

**Food Safety and quality:**
- Studies of shelf life of fruits and vegetables.
- New smart packaging.
- Predictive microbiology applied to fruits and vegetables.
- Food additives, residues (pesticides, hormones, etc.) and contaminants (mycotoxins, heavy metals) in food, authenticity studies in food, advances analytical techniques in food studies (MS7MS, ICP-MS, etc.).

**Developing new food products:**
- Food processing technologies and products development: Production of natural compounds (e.g. bioactives) from food products by using supercritical extraction technology, pasteurization, sterilisation, drying, freezing.
- Nutritional aspects of fruits as marketing argument.

**Food preservation and packaging:**
- Modified atmosphere packaging.
- Controlled atmosphere storage.
- Control and monitoring of the food preservation along the whole food chain, improving shelf life, quality and safety of minimally processed food.
Nutritional and Functional Food:

- Biochemical analysis
- Food composition and formulation studies
- Properties of functional foods and evaluation in terms of healthy nutrition.
- Bioactive compounds and phytochemicals
- Sensorial analysis.

Sustainable industrial processes

- Optimise industrial processes to minimize environmental impacts of the food or drink manufacturing installation
- Select the best available technique to prevent or reduce the emissions of a given asset.
- Defend a company or sector interest in the development or renewal process of an environmental legislation (e.g. BREFs review process that sets the best available techniques).

ADESVA prioritizes R&D activities for the benefit of our over 2500 customers and particularly, for our 235 associated members, through 1,352 major R&D projects and a large number of analysis, experimental trials and technology services. We have developed more than 200 training course and we have supported the creation of 14 high-tech SMEs in our incubator.

Since our inception, we have participated in 15 international research projects. Nowadays, we are taking part in the following 7th Framework Programme projects:

- **RESFOOD**: Resource Efficient and Safe Food Production and Processing (FP7-ENV-2012).
- **AGROBIOFILM**: Development of biodegradable plastics for agricultural activities. (FP7-SME-2011).
EXPRESSION OF INTERES

WASTE-7-2015: Ensuring sustainable use of agricultural waste, co-products and by-products

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440.Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (for the specific topic)

ADESVA can carry out in-field demonstration activities of the proposed technologies.
Moreover we could focus on:
- Evaluation of existing techniques and develop new and innovative approaches for efficient use of agricultural waste, co-products and by-products, thereby contributing to the creation of sustainable value chains in the farming and processing sectors (including the organic sector).
- Taking into account the concept “multi-actor approach”, ADESVA has more than 500 SMEs associated and collaborates with different agrifood platforms such as FOOD for LIFE, EIP Agricultural Productivity and Sustainability, Spanish Technology Platform for Sustainable Agriculture, etc.

ADESVA is working on the application of innovative and effective strategies to improve the management of co-products/by-products/waste through FP7 projects:
- RESFOOD. “Resource efficient and Safe Food Production and Processing” (www.resfood.eu)

GLOBAL NETWORKS AND CLUSTERS
EXPRESSION OF INTERESE

WATER-1-2015: Bridging the gap: from innovative water solutions to market replication

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440.Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (for the specific topic)

ADESVA can carry out in-field demonstration activities of the proposed technologies to prove concept feasibility of the new strategies developed. Moreover we could focus on:

- Demonstration/pilot activities of new or improved innovative water solutions in a real environment, with a focus on the cross cutting priorities identified in the EIP on Water, while addressing the thematic priorities.
- Development and application of advanced ICT solutions for water resources management in agriculture

GLOBAL NETWORKS AND CLUSTERS

| TNO DEMOSNURSERY IG4 Andalucia. |
EXPRESSION OF INTERES

SFS 2-2015: Sustainable crop production: Assessing soil-improving cropping systems

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440.Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (related to the topic)

ADESVA has developed many research and demonstration projects in its experimental field relate to precision farming, crop rotations and conservation agriculture. Many of them are focused on reducing mineral fertilizers and agro-chemicals by recycling treated organic waste as compost and bio-char products.

ADESVA can carry out in-field demonstration activities of the proposed technologies in order to prove concept feasibility of the new strategies developed. Moreover we could focus on the development of tailor-made soil-improving strategies, techniques and machinery suitable

Taking into account the concept “multi-actor approach”, ADESVA has more than 500 SMEs associated and collaborates with different agrifood platforms such as FOOD for LIFE, EIP Agricultural Productivity and Sustainability, Spanish Technology Platform for Sustainable Agriculture, etc.

GLOBAL NETWORKS AND CLUSTERS

| TNO   |
| DEMOSNURSERY |
| IG4   |
EXPRESSION OF INTEREST

SFS-5-2015: Strategies for crop productivity, stability and quality.

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440. Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (related to the topic)

ADESVA has led numerous projects to develop new strategies for improving crop productivity. In our experimental fields we have introduced new crops for the farmer from Andalusia region (e.g. Stevia rebaudiana). We have developed new technologies for monitoring ground dynamic.

ADESVA can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Identification, prediction and introduction of useful genetic variation in crops, as well as favourable combinations of genotypes and management practices in a range of environments.

- Increasing productivity and stability of agricultural sector through improved crop management strategies.

- Improvement in a holistic manner, and seek for novel breeding targets to improve yield, yield stability, quality, biotic/abiotic stress tolerance/resistance and environmental benefits.

Taking into account the concept “multi-actor approach”, ADESVA can provide stakeholders interested in this topic, including SMEs and other companies. ADESVA can provide partners from third countries.

GLOBAL NETWORKS AND CLUSTERS

INRA Morocco.
EXPRESSION OF INTEREST

SFS-7-2015: Genetic resources and agricultural diversity for food security, productivity and resilience. Management and sustainable use of genetic resources

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440. Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (related to the topic)

ADESVA can carry out in-field demonstration activities of the technologies and products developed. Moreover we could focus on:

- Supporting Characterisation/evaluation and especially the use of specific genetic resources in farming activities.
- Enhancing dissemination and awareness raising activities.
- Promotion of traditional and/or underutilised crops (and their wild relatives as relevant) and breeds
- Enhancing methodologies for management, conservation, characterisation and evaluation of genetic resources.
- Engagement of end-users.

Taking into account the concept “multi-actor approach”, ADESVA can provide stakeholders interested in this topic, including SMEs and other companies.

GLOBAL NETWORKS AND CLUSTERS

INRA Morocco.
EXPRESSION OF INTEREST

SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440. Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (related to the topic)

ADESVA is an associations of private farm, including small food businesses and particularly those with small structures in achieving sustainable FNS.

We can participate in the following activities:

- Assessment of the expectative in demand for food, feed and fibre under ever scarcer resources, as well as providing evidence and developing tools to guide decision makers in the choice and combination of intensification pathways.

- Identification of the optimal enabling environment for small and family farms and businesses to accomplish the aforementioned role on FNS and the multiple dimensions of sustainability with respect to infrastructure, supply chain and governance needs.

- Providing a better understanding of the role of small and family farms and small food businesses in meeting the sustainable FNS challenge (across its various dimensions) encompassing the implications on small and medium size businesses along the supply chain and within the context of demographic developments.

Taking into account the concept “multi-actor approach”, ADESVA can provide stakeholders interested in this topic, including SMEs and other companies.

GLOBAL NETWORKS AND CLUSTERS

INRA Morocco.
EXPRESSION OF INTEREST

ISIB 2-2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

CONTACT DETAILS

<table>
<thead>
<tr>
<th>Contact</th>
<th>Rafael Muñoz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>0034 959 649 062</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:rmunoz@citadesva.com">rmunoz@citadesva.com</a></td>
</tr>
<tr>
<td>Address</td>
<td>Avd. Dehesa del Piorno nº1, CP 21440. Lepe (Spain)</td>
</tr>
</tbody>
</table>

EXPERTISE OFFERED AND PROPOSED ACTIVITIES (related to the topic)

ADESVA has a clear main, to make companies, especially SMEs, more competitive through innovation and R&D activities.

ADESVA has prioritized scientific activities of technological knowledge generation and knowledge application development of R&D, for the benefit of the whole agrifood sector, and, particularly, for the 44 members who make up the association, belonging to different areas of the sector.

Since its inception, ADESVA has led the implementation of more than 100 research projects. The center has organized more than 90 events (meetings, workshops, conferences, courses, etc.), has met the demand of 500 clients and has developed 60 technology transfer actions. It has also become part of several European consortiums for research projects.

ADESVA can participate in the different networks and in the following activities:

- Involving actors from science and agricultural practice and facilitate the exchange on existing knowledge on innovative approaches in agriculture, the supply chain, and rural areas.
- We will help to put existing research into practice and capture creative ideas from the grassroots-level.

Taking into account the concept “multi-actor approach”, ADESVA can provide stakeholders interested in this topic, including SMEs and other companies.

GLOBAL NETWORKS AND CLUSTERS

AEVIA, Association of companies linked to the Andalusian food industry.
Spanish Olive Technology Platform (ALENTA)
Innovative Business Association of Good&Services Providers of Olive Sector (INOLEO)