



# Action Plan Comunitat Valenciana



**GENERALITAT  
VALENCIANA**

**iVACE**  
INSTITUTO VALENCIANO DE  
COMPETITIVIDAD EMPRESARIAL

**AIDIMME**   
METAL-PROCESSING, FURNITURE, WOOD AND PACKAGING  
TECHNOLOGY INSTITUTE

### Part I General Information

<b>Project</b>	<b>Transition Regions Towards Industrial Symbiosis (TRIS)</b>
<b>Partner Organisation</b>	IVACE
<b>Other Partner Involved (if relevant)</b>	AIDIMME
<b>Country</b>	SPAIN
<b>NUTS2 region</b>	Comunitat Valenciana
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### Part II Policy Context

<b>The Action plan aims to impact</b>	<b>Please tick fields that are relevant</b>
Investment for growth and jobs programme	<input checked="" type="checkbox"/>
European Territorial Cooperation programme	<input type="checkbox"/>
Other Regional development policy instruments	<input checked="" type="checkbox"/>
<b>Name of the policy instrument addressed</b>	ROP 2014-2020 - PROGRAMA OPERATIVO DEL FONDO DE DESARROLLO REGIONAL DE LA COMUNIDAD VALENCIANA 2014-2020

## Main lines:

Axis.	Action
<b>1. Visibility and presence of Industrial Symbiosis (IS).</b>	
a. Policy Instrument.	Creation of a Specialized Strategic Innovation Committee on EC
b. Administration.	Increase of the environmental/sustainability evaluation weight on all Regional Administration-related activities
c. Stakeholders and companies.	Integration of IS awareness, information exchange and matchmaking promotion into the action plans of the Industrial Associations in the region
<b>2. Instruments to promote IS actions</b>	
a. Methodologies and resources	INSYLAY PROJECT
b. Technical Feasibility.	Incentives for feasibility studies/preparatory actions related to Industrial Symbiosis
c. Implementation actions	R&D & Innovation projects regarding implementation of IS models

## Action 1.1. Creation of a Specialized Strategic Innovation Committee on EC

<b>Interregionality Reference</b>	Regional Permanent Coordination Table (Bologna). GreenACT (Krononberg).
<b>Additionality</b>	Yes. Coordination of AIDIMME has made one of the SSIC axes to be IS.
<b>Policy Relevance</b>	All Strategic Innovation Policy instruments will be focused on the topics of the SSICs.
<b>Implementation Focused</b>	Oriented towards innovative companies and consortia. Indicators on projects launched will be available.
<b>The background</b>	<p>AVI (Valencian Agency for innovation) has as a mission to promote the improvement of the Valencian Region's productive model. Strategic Innovation Committees have been launched in strategic topics.</p> <p>The Spirit of this action is related to the Regional Permanent Coordination Table on byproducts as one of the tools introduced by the Circular Economy Law that it was shown in Emilia Romagna region during Peer Review in Bologna. It showed that a table of stakeholders and their decisions could coordinate actions where several bodies are implied. The strategic topics and decision chosen relate to different policy instruments (calls for projects from different bodies).</p> <p>On the other hand, the <b>Strategic Committee Specialized in Circular Economy</b> has an structure and working procedures inspired on the GreenAct Groups in Krononber (<a href="http://greenactkrononberg.se/organisation/">http://greenactkrononberg.se/organisation/</a>)</p>
<b>Action</b>	<p>Creation of Strategic Innovation Committee (SIC): an advisory body of the AVI that was born with the aim of proposing specific strategies, actions and programmes to meet the challenges faced by companies in the Region..</p> <p>The SIC, has a section called the Specialized Strategic Committee in Circular Economy.</p> <p>The <b>Strategic Committee Specialized in Circular Economy</b> (SSIC) has been promoted and is coordinated by AIDIMME, and is proposing topics and a catalog of technological solutions and innovations capable of responding to the improvement of the Valencian Region's productive model. IS has been identified as one of the key topics. These key topics are the main ones funded by the different calls for projects from the AVI (<a href="http://innoavi.es/es/actuaciones-proyectos/#programas-y-lineas-de-apoyo">http://innoavi.es/es/actuaciones-proyectos/#programas-y-lineas-de-apoyo</a>), and is also influencing the evaluations of the calls from IVACE, therefore the <b>SSIC contributing to improved decision making within the policy instrument</b> (<a href="http://www.ivace.es/index.php?option=com_content&amp;view=category&amp;layout=blog&amp;id=200&amp;Itemid=100455&amp;lang=es">http://www.ivace.es/index.php?option=com_content&amp;view=category&amp;layout=blog&amp;id=200&amp;Itemid=100455&amp;lang=es</a>), by aligning granted projects with the key topics included (IS among them). The SSIC will review the catalogue yearly</p>
<b>Players involved</b>	Regional Government. Technological institutes. Universities. Companies.
<b>Timeframes</b>	Created in 2018- Ongoing
<b>Cost (if relevant)</b>	All actors and stakeholders volunteer to create the SSIC. AVI (coordination body) costs covered by own funds.
<b>Funding source</b>	Financed by the Regional Government. Own funds. Participating actors and stakeholders not additionally funded.

## Action 1.2 Increase of the environmental/sustainability evaluation weight on all Regional Administration-related activities

<b>Interregionality Reference</b>	Europe Circular Economy Package regional implementations. As seen in the different TRIS areas. Similar actions are being proposed in Hungary and Emilia Romagna.
<b>Additionality</b>	The inclusion of Industrial Symbiosys as part of the sustainability concept is not evident for Administration Activities. In fact it does not appear in any of the current procedures.
<b>Policy Relevance</b>	ROP 20142020 more focused on EC and sustainability
<b>Implementation Focused</b>	Most of these Administration actions have industrial and service companies as addressees..
<b>The background</b>	The Circular Economy Package. The UK TRIS partners helped develop, this new policy driver, which was shared with all the TRIS partners. This driving capability was discussed in June 2018, during Valencia Interregional meeting and during the staff exchange in September 2018. "Concrete measures to promote re-use and stimulate industrial symbiosis - turning one industry's by-product into another industry's raw material" –as stated by the Package- were outlined, including the ones related to all Administration (Municipal, Regional and National) actions. Visibility and eligibility criteria were chosen as measures able to promote and stimulate CE and IS.
<b>Action</b>	<p><b>Increase of the environmental/sustainability evaluation weight on all Regional Administration-related activities:</b></p> <ul style="list-style-type: none"> <li>• All funded Innovation and R&amp;D actions will have higher scores when sustainability-related, so this type of projects will have easier to get funding.</li> <li>• Green and innovative procurement procedures will positively evaluate companies that can provide evidence of being involved in IS or Circular Economy actions (i.e. Eco-Design Management System UNE EN - ISO14006).</li> </ul>
<b>Players involved</b>	Industrial associations. Consumer and citizen associations Regional Government.
<b>Timeframes</b>	2019-2022
<b>Cost (if relevant)</b>	Action 1.1 is a labour of internal lobby.
<b>Funding source (if relevant)</b>	<ul style="list-style-type: none"> <li>• ROP 20142020. PROGRAMA OPERATIVO DEL FONDO DE DESARROLLO REGIONAL DE LA COMUNIDAD VALENCIANA 20142020. Priority Axis 3 To improve the competitiveness of SMEs.</li> <li>• Own Funds from Regional Administration.</li> </ul>

## Action 1.3 Integration of IS awareness, information exchange and matchmaking promotion into the action plans of the Industrial Associations in the region

<b>Interregionality Reference</b>	Circular Hungary Programme and IS examples from Nordic Countries.
<b>Additionality</b>	Till the end of 2018, IS was not a priority of the industrial regional policy. Now it is an action axis.
<b>Policy Relevance</b>	Policy Instrument (own regional industrial promotion funds) does not change, but investment gets more focused, since the objective is that the most powerful industrial associations in the region include "semi-standard" EC and IS actions (promotion, matchmaking and diagnosis) in their action plans.
<b>Implementation Focused</b>	Regional Action Plans submitted and eventually funded will have to include several of the defined activities.

<b>The background</b>	<p>Challenges that hinder the adoption of Industrial Symbiosis approaches in companies range from lack of information and insufficient awareness to complicated technological implementation.</p> <p>In every interregional meeting, a lot has been told related to awareness about circular economy and Industrial Symbiosis. Cooperation and knowledge sharing is essential in circular economy. For example, in Hungary there is a multiannual, innovation and collaboration initiative, called 'Circular Hungary Program – the economy in cycles', which stresses collective actions (promotion and matchmaking) as a way of fostering the implementation of EC concepts. Hungary has an interesting track of such a successful collective actions which are something we want to include in our regional plan. Additionally, challenges and possibilities with IS were shared at the TRIS interregional workshop in Växjö by professor Murat Mirata, specialist in the application of Industrial Symbiosis Practices, who also shared good examples from the Nordic countries. It was a good example of the promotion activities we intend to "sell" to the Industrial Associations.</p>
<b>Action (please list and describe the actions to be implemented)</b>	<p><b>Integration of IS awareness, information exchange and matchmaking promotion into the action plans of the different industrial associations in the region.</b></p> <p>Regional Action Plans funded by the Regional Government to Industrial Associations and Federations, include promotion actions on i4.0, sustainability (only in one of the funding programmes), co-operation, internationalization, etc. The action here foreseen will define and implement a set of standard activities that may be coordinated on a yearly basis:</p> <ul style="list-style-type: none"> <li>• Technical days on Industrial Symbiosis.</li> <li>• Promotion of the uses of matchmaking tools and methodologies (including existing ones such as Sharebox and SurplusMall, or developing links to them). IS matchmaking days.</li> <li>• Development of new tools for information exchange between companies and for symbiotic cooperation.</li> </ul>

<b>Players involved</b>	Managerial Federations. Professional and regional Industry Associations.IVACE and Regional Ministry for Industry.
<b>Timeframes</b>	2018-2020. Implementation 2019-2020.
<b>Cost (if relevant)</b>	In 2018, two pilot action plans were carried out with the industrial associations of Valencia (metal) and Alicante (generic) for a 50K€ budget. The share of IS in these action Plans amounts 20,1 K€. An extrapolation to most of the industrial associations in the CV rises an estimate budget of 260.000€ per year.
<b>Funding source</b>	Own Funds Regional Administration.

## Action 2.1: INSYLAY PROJECT

<b>Interregionality Reference</b>	Yes. Different approaches to IS observed in each region (Public/private). SurplusMall and SHAREBOX projects.
<b>Additionality</b>	Yes. First project in IS methodologies submitted to regional ERDF programmes.
<b>Policy Relevance</b>	
<b>Implementation Focused</b>	AIDIMME will offer this methodology on an open basis both to companies and stakeholders.
<b>The background</b>	<p>The Gap between matchmaking and implementation appears way too big for IS. Different support levels and a wider methodological approach are needed to get the symbiotic possibilities identified by companies down to earth.</p> <p>Projects implement by the partners to identify and structure IS actions are an interesting headstart for particular geographically-centered IS platforms. SurplusMall (Bologna) and SHAREBOX (Birmingham) have inspired some functionalities of INSYLAY, which also includes methodologies based on examples from TRIS (and from other experiences).</p> <p>TRIS good practices in the INSYLAY methodological pack include Tyseley and Sweden biogas, which are symbiosis examples of <i>substitution</i> and <i>genesis</i>, and they help to indicate, in their fieldsat which point of the value chain Industrial Symbiosis actions can be undertaken.</p>
<b>Action</b>	<p><b>Insylay (Industrial Symbiosis Layer).</b></p> <p>Insylay is an Independent Research Project by AIDIMME, which aims at implementing sustainable cooperation models between industrial companies located in industrial areas, through the application of a methodology of levels, from least to greatest possibility of synergy, based on an Industrial Symbiosis crosslink matrix. The output of the project will be a methodological tool to define symbiotic co-operation paths for companies, based on the existing information and experiences.</p> <p>Insylay will include several pilot implementations between companies in previously defined industrial areas.</p>
<b>Players involved</b>	AIDIMME. Professional and regional Industry Associations. IVACE / IVACE-Industrial Areas.
<b>Timeframes</b>	2017-2019
<b>Cost (if relevant)</b>	320.000€
<b>Funding source</b>	ERDF



## Action 2.2 Incentives for feasibility studies/preparatory actions related to Industrial Symbiosis.

<b>Interregionality Reference</b>	Core Elements and preparatory actions defined in the Pre-Standard on IS.
<b>Additionality</b>	Yes. Instrument newly defined in Valencia out of experiences of the consortium.
<b>Policy Relevance</b>	Not only innovation and research actions related to CE will be funded, but also preparatory actions.
<b>Implementation Focused</b>	This instrument will end up in a number of companies ready to evaluate IS feasibility.
<b>The background</b>	<p>Industrial Symbiosis is not an automatic process once the opportunity has been identified. As in each industrial decision, a detailed feasibility study must be carried out. This feasibility study includes the analysis of: cooperation, value chain, technical solutions, RoI, etc.</p> <p>As a key element in defining these preparatory actions we consider the first standard on Industrial Symbiosis (<i>CWA on Industrial Symbiosis: Core Elements and Implementation Approaches</i>). This Standard was shared in the Staff Exchange Sep.18 (Pre-standard Session, attended by AIDIMME), published in late 2018 and finally Sdpresented in a 13/03/2019 meeting in Birmingham by Rachel Lombardi.</p> <p>Out of the 5 drivers for SI, identified by the document, 2 of them must be clearly quantified before undertaking an IS action: Economic/business Impact (1), and Resource Security (4). <b>Previous studies</b> are, thus, much needed to drive towards the development of IS actions, although previously identified.</p>
<b>Action</b> (please list and describe the actions to be implemented)	<p><b>Incentives for feasibility studies/preparatory actions related to Industrial Symbiosis.</b></p> <p>A specific call will be defined by the Regional Ministry for Industry. One or more companies will submit an application for the development of these studies, which will be carried out with the help of a set of authorized consultants.</p> <p>This action will be launched in a pilot experience, and several possibilities will be tested:</p> <ul style="list-style-type: none"> <li>• Standardized maximum amounts of funding –i.e. depending on company size, or the number of companies submitting the application-</li> <li>• Simplified procedures.</li> <li>• Alternative funding mechanisms (vouchers, in-house experts, etc.).</li> </ul>
<b>Players involved</b>	<ul style="list-style-type: none"> <li>• Companies.</li> <li>• Consultants and Technical Institutes already involved in IS actions.</li> <li>• Regional Ministry for Industry. IVACE</li> </ul>

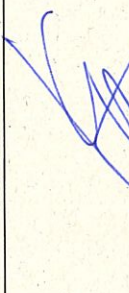
<b>Timeframes</b>	<b>2019-2022</b>
<b>Cost (if relevant)</b>	250.000€ in the pilot call of incentives. Amounts in next years to be defined.
<b>Funding source</b>	ROP 20142020.PROGRAMA OPERATIVO DEL FONDO DE DESARROLLO REGIONAL DE LA COMUNIDAD VALENCIANA 20142020. Priority Axis 3 To improve the competitiveness of SMEs

## Action 2.3 R&D & Innovation projects regarding implementation of IS models

<b>Interregionality Reference</b>	Existing IS projects: Emilia Romagna, Birmingham. Similar initiatives to be Launched in Emilia Romagna and Hungary.
<b>Additionality</b>	No specificities towards IS existed in the regional calls. TRIS has put in place a lobbying strategy to include these concepts in the future calls.
<b>Policy Relevance</b>	No change of policy, but application of instrument to a wider scope of non-previously considered actions.
<b>Implementation Focused</b>	Some 100 companies involved in IS R&D&I projects in 2019-2022

<b>The background</b>	<p>A major barrier for industrial symbiosis between companies –mainly for waste/by-products, but also for other streams/flows such as water, energy, etc.- is the fact that a steady and constant quality flow is required. Waste and by-products do not usually have these properties, and transformation/adaptation is, thus, mandatory. This implies a technological process which tends not to be evident and leads to an R&amp;D or Innovation project. During TRIS project, other projects focused on the implementation of IS models have been shown (Surplus Mall presented in Bologna and Sharebox introduced in Valencia interregional meeting). Current calls for proposals from the Regional Ministry of industry include R&amp;D projects and process and product innovation. However, they are not very well suited to IS projects (complicated co-operative submission), focus on the technical tasks and costs, etc.</p>
<b>Action</b>	<p><b>R&amp;D &amp; Innovation projects regarding implementation of IS models.</b></p> <p>Modification of current calls for proposals to cover most of the types and scopes of IS actions (cooperative actions between companies, collective actions by industrial areas, technical implementation, value chain structuring, etc.). The application of the instrument</p> <p>(<a href="http://www.ivace.es/index.php?option=com_content&amp;view=article&amp;id=7232:pidcop-cv-i-d-en-cooperacion&amp;catid=435:programas-de-ayudas-para-empresas-2019&amp;lang=es&amp;Itemid=100455">http://www.ivace.es/index.php?option=com_content&amp;view=article&amp;id=7232:pidcop-cv-i-d-en-cooperacion&amp;catid=435:programas-de-ayudas-para-empresas-2019&amp;lang=es&amp;Itemid=100455</a>.) <b>will be expanded</b> to including key concepts in the application of industrial symbiosis and currently not covered (non-technologic activities and concepts (managerial cooperation, logistic procedures). Both eligible budget and nature of the submitted projects will be clearly widened.</p>

	<p>Sub-actions to be considered:</p> <ul style="list-style-type: none"> <li>• Companies submitting IS related projects will be positively evaluated on the IMPACT of their proposals.</li> <li>• Submissions providing feasibility studies from Action 2.2 will be positively evaluated.</li> <li>• Easier co-operative submission.</li> <li>•</li> </ul> <p>IVACE, AVI and Companies  <b>2019-2022</b>          No relevant costs. Currently re.defining calls with the services at IVACE, Periodic meetings.          ROP 20142020. PROGRAMA OPERATIVO DEL FONDO DE DESARROLLO REGIONAL DE LA COMUNIDAD VALENCIANA 20142020. Priority Axis 3 To improve the competitiveness of SMEs</p>
<b>Players involved</b>	
<b>Timeframes</b>	
<b>Cost (if relevant)</b>	
<b>Funding source</b>	

<b>Date</b>	18/07/2019
<b>Signature</b>	 <p>Júlia COMPANY SANUS          General Director IVACE</p>
<b>Stamp of organisation</b>	



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