

**PROGRAMME AGREEMENT  
FOR THE PROMOTION OF THE SCIENTIFIC AND  
INNOVATION SYSTEM OF FRIULI VENEZIA GIULIA  
SiS FVG**

**2021-2023 OPERATIONAL PLAN**

(Article 3, paragraphs 2 and 3 of the Agreement)

## INTRODUCTION

Launched in August 2016, SiS FVG is the renewed networking initiative for research institutes in the Friuli Venezia Giulia region.

Considered a hub for science and technology, with a large pool of internationally relevant research infrastructures, the Friuli Venezia Giulia region boasts a broad community of foreign scientists and students and a significant network of public and private research institutes.

SiS FVG is a strategic tool to promote the regional science, technology and innovation system and to ensure adequate returns from research activity for the local area from a social and economic perspective.

The Programme Agreement signed on 8 August 2016 between the Regional Authority of Friuli Venezia Giulia, the Ministry of Foreign Affairs and International Cooperation (MAECI), and the Ministry of Education, Universities and Research (MIUR) to promote the Friuli Venezia Giulia Scientific and Innovation System (SiS) was renewed by the Parties for a further five years in 2021.

The renewed Agreement, recognising the specific characteristics and expertise of the 17 scientific and innovation organisations present in the region and the new planning framework — at regional level with approval of the Smart Specialisation Strategy - S4 of the Regional Authority of Friuli Venezia Giulia for the period 2021–27 and at national level with adoption of the 2021–27 National Research Plan — maintains previously identified goals to promote increasingly efficient scientific coordination of these organisations and development of services benefitting the entire regional scientific community and increasing its visibility both nationally and internationally. This will be done through creation of a network of scientific excellence for the FVG region, rationalisation of regional structures working to promote research, promotion of internationalisation services benefitting the community of regional researchers, dissemination and sharing of technical and scientific knowledge and innovation.

SiS FVG confirms its status as a strategic initiative to enhance processes of aggregation between key players in the regional innovation ecosystem, fuelling their capability for joint action at the European and international level, and to increase investment in research & innovation infrastructure and human capital with high added value, acting to pursue and optimise the returns of research and innovation for the region in terms of social and economic development.

Through the Agreement, in the context of promotion of the Scientific and Innovation System, the intention is to guarantee greater national and international visibility of the Scientific and Innovation System, supporting the sharing of activities and services between Organisations, connection between scientific and economic entities, and increasing dissemination and sharing of technical and scientific knowledge and innovation.

In the planning framework for actions to be implemented in the period 2021–2023, the Regional Authority of Friuli Venezia Giulia, through the Research, Lifelong Learning and European Social Fund Service, and Area Science Park in the context of strengthening the SiS, have identified certain strategic approaches that meet the real needs of the region and member organisations of SiS FVG. The following actions, marked by their innovation compared to those already established and which will be implemented simultaneously, as a continuation of the previous programme, represent a new element around which to centre the synergistic collaboration of the SiS network:

- 1) Strengthening of action to raise awareness of EU and national financing tools, and of technical, administrative and planning capabilities, supporting more effective participation of the Regional System in opportunities provided by Sector-Specific Funds and EU, National and Regional Programmes, also on the basis of the Italia Domani National Recovery and Resilience Plan.
- 2) Support for technological-transfer activity of the organisations, by identifying an organisational model capable of generating a system of expertise and resources, scientific and technical information and services in the area of intellectual property and patents, establishing a channel for privileged access to knowledge and operational tools.

3) Development of a strengthened joint communication strategy, which considers both internal information flows between the System Organisations and the Region and external flows aimed at improving the positioning of SiS at the national and international level, enhancing activity already underway, also with integration of studies and data analyses on the innovation ecosystem and international consolidation of centres present with a view to increasing success in attracting talent, with adoption of a specific Strategic Communication Plan.

For each of the four operational objectives, this document presents the actions set out in the 2021–2023 Plan identified as strategic for the System by the Steering Council. These guidelines apply as a continuation of the priority measures previously implemented and at the same time introduce new strands.

The Central Directorate of Labour, Training, Education and Family, Higher Education and Research Service, is the regional technical structure responsible for implementation of the Agreement and works in collaboration with Area Science Park for the functions of planning, monitoring and operational execution of actions.

This document presents the actions, ordered by objective, set out in the 2021–2023 Plan indicated as strategic for the System by the Steering Council. In addition to a brief description of each activity, the document contains the detailed Programme Tables.

## **OBJECTIVE 1 CREATION OF A “NETWORK OF SCIENTIFIC EXCELLENCE”**

### **Strand 1.1 Creation and strengthening of integrated research infrastructure**

To strengthen the capabilities of SiS FVG scientific institutions and reinforce research infrastructure, with a particular focus on shared infrastructure, in the context of the Three-Year Programme of actions to finance the Regional University System for the period 2022–2024 (currently being drafted), financing is planned — continuing on from the previous Programmes — for **shared research infrastructure**, organised by the Regional University System within a framework of expansion, optimisation and creation of shared research services, benefitting the **Regional Research System** and increasing the attractiveness of the area. (Table 1)

### **Strand 1.3 Support for the development of international agreements, partnership agreements and projects in Research and Innovation sectors**

One of the strategic activities to strengthen the regional network involves promoting partnership agreements with institutions and scientific networks and for international innovation, as well as international research projects.

Specifically, through strategic support for europlanning, the intention is to increase the number of high-quality projects financed with European and national funds in which SiS organisations participate as a partner. For this purpose, a structured approach will be defined to identify areas of interest combined with targeted selection of funding opportunities on which to base the necessary training activity, accompanying and strengthening technical, administrative and planning capabilities, with a view to increasing the ability of organisations to prepare high-quality proposals. This path, considering the system actions of Mission 4 “Training and Research” - Component 2 “From research to business” of the Italian National Recovery and Resilience Plan (NRRP) led by the expertise of the Italian Ministry of University and Research (MUR) as the Administration Responsible and the intersection and integration of certain investments in the context of the same Mission with European planning, also has the goal of increasing sharing of expertise and best practices between Organisations involved. (Table 2<sup>NEW</sup>)

Also taking into account that the Regional Administration is a participant in two European Macro strategies, EUSAIR for the Adriatic and Ionian Region and EUSALP for the Alpine region, the intention is additionally to propose a series of actions to link up these activities with regional scientific and innovation institutions and to promote participation of institutions in initiatives of interest. (Table 3<sup>NEW</sup>)

Following on from the previous programme, the Regional Administration is involved as a financing institution for the “Assisted Living” (AAL) programme (Table 4) to support participation of regional scientific and industrial partners in research, development and innovation initiatives of a collaborative nature promoting active and healthy ageing, aimed at the market, of a transnational and multidisciplinary nature based on ICT (information and communications technology), in line with the area of specialization entitled “Health, Quality of Life, Agri-food and Bioeconomics” of S3.

In addition, again aligned with previous planning, project activities continue as set out in the Framework Agreement between the Regional Authority of Friuli Venezia Giulia and the Joint Research Centre (JRC) of the European Commission, with a broad range of activities to promote regional scientific institutions. In November 2021, the joint event “SMART SPECIALIZATION & TECHNOLOGY TRANSFER: THE EXPERIENCE OF THE FRIULI-VENEZIA GIULIA (FVG) REGION”, was held, organised by the JRC and the Regional Authority of FVG in the context of the conference “Strengthening Technology Transfer in Europe”, held by the JRC and Area Science Park on 17, 18 and 19 November 2021. Definition and implementation of a new letter of intent with the JRC is also planned. (Table 5)

Following on from the Previous Plan, together with the Regional Universities and SISSA, the Regional Administration is implementing the strategic Framework Agreement with MIT-Massachusetts Institute of Technology, part of the MIT Italy Program, to strengthen international partnerships regarding research, innovation and technological transfer and to increase the impact and visibility of these initiatives together with actions for capitalisation of results through the international cooperation project “MIT-FVG for the region: training, innovation and sustainability”. (Table 6)

Strand 1.3 “Support for the development of international agreements, partnership agreements and projects” involves continuation of work of the CEI (Central European Initiative) Secretariat, divided into various activities, with aims including the promotion of events and activities of SiS FVG in the CEI area, diplomatic support for members of SiS FVG in the CEI Member States and involvement of SiS FVG in activities and events organised by the Secretariat, by Member Countries and by the CEI Presidency. In addition, there are plans to complete action focused on the topic of science diplomacy, with the goal of defining pathways for learning, analysis and study in coordination with the Italian Ministry of Foreign Affairs and International Cooperation (MAECI), MUR and the Regional Authority of Friuli Venezia Giulia. (Table 7)

#### **Strand 1.5 Consolidation of partnerships and international collaboration initiatives benefitting SiS FVG, with support of the Relevant Offices of MAECI and networks of external scientific experts**

In this context, activity of the “Platform for Knowledge and Expertise on the Blue Economy - Blue Skills” continues, with a focus on countries in the Mediterranean, led by the Italian National Institute of Oceanography and Experimental Geophysics (OGS). (Table 8) Amongst other activity, the Platform offers an annual higher-education summer school in Trieste in collaboration with SiS FVG institutions (“*Summer School in Sustainable Blue Economy in the Euro-Mediterranean Region*”), a 2nd level Master’s degree on the Blue Economy (“*Advanced international master on Sustainable Blue Economy*”) in collaboration with the University of Trieste, exchange and international mobility programmes, and support for workshops and seminars and higher education. The initiatives of OGS for a sustainable blue economy (Blue Skills) include activity to promote Italian scientific research with production of multimedia materials and content for dissemination of scientific culture in collaboration with MAECI.

### **OBJECTIVE 2 RATIONALISATION OF REGIONAL STRUCTURES WORKING TO PROMOTE RESEARCH, TECHNOLOGICAL TRANSFER AND DEVELOPMENT OF INNOVATION:**

#### **Strand 2.1 Definition and implementation of an organisational model for Innovation Enablers, with collaboration of Regional Authorities and MUR**

To systematize activity in the sector of intellectual property and patents, the intention is to launch targeted support, establishing an access channel through which Organisations can obtain information and services,

utilising the specialist expertise built up by Area Science Park within its own Centro PatLib centre for research, analysis and strategic management of technical and scientific information, patents and market-related information supporting the technological transfer activity of SiS FVG Partners, with particular reference to action on protection, management and promotion of Intellectual Property. (Table 9<sup>NEW</sup>)

Also on the topic of supporting innovation and growth of the local economic system, activity continues under the ARGO System project (Table 10<sup>NEW</sup>), on the basis of the Memorandum of Understanding signed between the Regional Authority, MIUR and MISE on 1 March 2018 and renewed, with agreement of the parties, for the three years 2021–2023 (signed on 13 July 2021). The project is built around the following four strategic pillars:

- Labs for Tech (High Impact Net) asset - Development of innovative businesses
- Scientific and Technological Platform asset
- Industry Platform 4 FVG asset
- IPFVG (Industry Platform 4 FVG) asset

Additionally, and again to strengthen the local economic system, there will be implementation of the project “2021–2022 FVG Innovation System” (Table 11<sup>NEW</sup>), established jointly by Friuli Innovazione, Polo tecnologico Alto Adriatico and Bic Incubatori FVG. The initiative has four parts:

- IP4FVG Hubs coordination and system activity
- IP4FVG digital manufacturing
- Additive Manufacturing and Digital Fabrication centres of excellence
- Smart Mountain centre of excellence.

### **OBJECTIVE 3 PROMOTION OF SERVICES FOR INTERNATIONALISATION OF CENTRES IN FRIULI VENEZIA GIULIA:**

#### **Strand 3.1 Strengthening of services for internationalisation issued by Friuli Venezia Giulia Welcome Office**

With reference to the consolidation of FVG Welcome Office, enhancement of services continues for consulting offered to students and researchers, constant updating of content on the web portal [www.welcomeoffice.fvg.it](http://www.welcomeoffice.fvg.it) and the programme of meetings with the public administration on topics of interest. There are also plans for preparation of an annual planning document shared by the partnership and half-yearly monitoring of Network activity. (Table 12)

#### **Strand 3.4 Creation of studies and models to monitor incoming and outgoing flows of international students and researchers**

The annual “Mobility of Knowledge” survey continues, focused on flows of international students and researchers at academic and scientific institutions in the region, carried out by the Area Science Park Research Valorisation Unit in collaboration with SiS FVG Partners. (Table 13)

#### **Strand 3.6 Promotion of SiS FVG through suitable channels of communication**

With the goal of strengthening the positioning of SiS FVG and optimising and enhancing internal and external communications activity, the plan is to develop a joint communication strategy through definition and adoption of a Strategic Communication Plan, as well as launching awareness-raising and networking actions with the individual institutions of the System around communications issues. Constant updating of content on the Web Portal ([www.sisfvg.it](http://www.sisfvg.it)) also continues, as well as the FB page, and preparation and sending of the Newsletter, promotion of the System at events aimed at the general public and organisation of the SiS Conference. (Table 14<sup>NEW</sup>)

## OBJECTIVE 4 DISSEMINATION AND SHARING OF TECHNICAL AND SCIENTIFIC KNOWLEDGE AND INNOVATION:

### **Strand 4.1 Creation of initiatives to promote the transfer of knowledge to the entire scientific community**

The activities required for this objective, involving organisation of the SiS Conference and promotion of the System at events aimed at the general public (e.g. Trieste Next), are illustrated and included in the previous strand (3.6), as they are closely integrated and connected to activity for promotion of the SiS network.

### **FINAL CONSIDERATIONS**

As noted in the initial section of this introduction, the Regional Administration has identified a need for acceleration in **specific strategic areas**, particularly regarding europlanning, patents and communications, to **strengthen** the performance of the regional Scientific and Innovation System, **promoting** activity at the national and international level and increasing its visibility, as well as enabling the creation and optimization of the **impacts** of research in the region from a social and economic perspective.

From the structure of the programme tables, it is clear how some actions represent a continuation of previous planning, demonstrating the strategic character of certain approaches with a continuing nature and the provision of services with a consolidated nature, which will be further strengthened in the context of the innovative strategic system actions set out.

Below is an overview of the actions set out by the Plan in its entirety, highlighting connections with the various strategic objectives and indication of the number of continuing and new actions.

### **14 project tables (8 continuing activities and 6 new activities) divided according to the four operational objectives:**

- Objective 1 – Creation of a “scientific network of excellence”: 8 project tables (2 new activities and 6 continuing activities)
- Objective 2 – Rationalization of the regional structures that operate in the valorization of research, technology transfer and the development of innovation: 3 project tables
- Objective 3 – Promotion and services for the internationalization of the centres present in Friuli Venezia Giulia region: 3 project tables (1 new activities and 2 continuing activities)
- Objective 4 – Technical and scientific communication and diffusion of innovation: activities are included in Objective 3

The continuing activities, listed according to the objective and objective strand are:

Project name	Objective	Objective strand
Research Infrastructure	1	1.3
European Programme Active Assisted Living - AAL	1	1.3
Agreement between the FVG Autonomous Region	1	1.3

and the Joint Research Centre (JRC) of the European Commission		
Agreement among the FVG Autonomous Region, regional universities and the Massachusetts Institute of Technology - MIT	1	1.3
InCE	1	1.3
Blue Economy platform	1	1.5
Welcome Office FVG	3	3.6
Mobility of knowledge Survey	3	3.6

Specifically, there remains — precisely with a view to continuity — a commitment of the Regional Administration to enhance research infrastructure, with a particular focus on shared infrastructure, as well as the promotion of internationalisation and visibility of the regional Scientific System.

TABLE 1		INTEGRATED RESEARCH INFRASTRUCTURES (LR 2/2011)
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>	
<b>Strand of activity</b>	1.1 The creation and enhancement of integrated research infrastructures, to reinforce the capacity for action of scientific institutions and to optimise the use of the infrastructures themselves, making them available also to private companies, and the creation of shared services for research or the coordination of existing services	
<b>Description of the intervention</b>	In the context of the Three-Year Programme of actions to finance the Regional University System for the three-year period 2022–2024 (currently being drafted), certain financing is planned — continuing the previous Programmes — that is specifically dedicated to shared research infrastructure, created by the Regional University System within a framework of expansion, optimisation and creation of shared research services, benefitting the Regional Research System and increasing the attractiveness of the area.	
<b>Implementing bodies</b>	University of Trieste, University of Udine and SISSA	
<b>Starting date</b>	To be defined	
<b>Planned duration</b>	Multi-year	
<b>Planned expenditure</b>	€ 3.000.000	

<b>Output indicator</b>	Strengthening of regional integrated research infrastructure, with the corresponding increase in research potential and attractiveness of the regional academic and scientific system and promotion of knowledge transfer in terms at the applications and industrial level.
<b>Result indicator</b>	Number of projects for infrastructure/expansion of infrastructure

**TABLE 2 EUROPLANNING**

<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>
<b>Strand of activity</b>	1.2 Selection of scientific areas of common interest and promotion and support for the sharing of best practices. 1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)
<b>Description of the intervention</b>	<p>The main goal is to increase the number of research projects with European funding in which SiS FVG is a partner. To achieve this goal, it is necessary to act effectively during the preparation of proposals, strengthening technical and administrative capabilities to improve the quality of proposals, through:</p> <ul style="list-style-type: none"> <li>• Identification of personnel of SiS organisations dedicated to European projects and the requirements of SiS FVG Partners to evaluate opportunities for new joint services</li> <li>• Establishment of a euoplanning Coordination Committee composed of operational leads for European or national projects of SiS FVG Partners and creation of a shared virtual workspace</li> <li>• Monitoring and coordination with APRE FVG of the participation of SiS organisations in European tender procedures</li> <li>• Identification of personnel of SiS FVG Partners with experience as project evaluators</li> <li>• Identification of personnel of SiS FVG Partners that participate in coordination meetings of the Horizon Europe programme and who are national delegates or MUR experts for the programme</li> <li>• Establishment of sub-working groups for specific topics</li> <li>• Launch of the structured exchange of information between SiS FVG and the Liaison Office of the Regional Authority of Friuli Venezia Giulia in Brussels</li> <li>• Analysis of the project proposals already presented to the SiS FVG Committee and financed by the Regional Authority of Friuli Venezia Giulia to assess scalability into national or European projects</li> </ul>



<b>Implementing bodies</b>	Area Science Park
<b>Starting date</b>	2021
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	SiS FVG 2021/2022/2023 funds
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Increase the intensity of scientific collaboration between the organisations of SiS with other parties at the European level, the ability to attract EU and national funding, involvement in initiatives of the National and European System and European networks</li> <li>• Strengthen expertise for high-quality planning and collaboration between SiS FVG Partners and the exchange of best practices in order to establish thematic sub-working groups for future years and verify possible opportunities to launch joint services supporting euoplanning</li> <li>• Promote the establishment of strategic projects in the research and innovation sector also in line with macroregional EU strategies</li> </ul>
<b>Result indicator</b>	<p>In 2021 (1 December to 30 June 2022):</p> <ul style="list-style-type: none"> <li>• Preparation of the programme of activities for 2021–2022</li> <li>• Drafting and implementation of a survey aimed at SiS FVG Partners to identify requirements and opportunities, and to identify the presence of evaluators of European projects and experts on Horizon Europe working groups. The findings of the survey are analysed and published in a specific report.</li> </ul> <p>In 2022–2023:</p> <ul style="list-style-type: none"> <li>• Gathering and processing of survey data and proposal of a shared workplan to submit to SiS Partners, highlighting any new services to be launched</li> <li>• Establishment of a Coordination Committee composed of operational leads for European projects of SiS FVG Partners</li> <li>• Creation of a shared virtual workspace</li> <li>• Establishment of an updatable database of SiS Partner personnel with experience as project evaluators and personnel participating in coordination meetings of the Horizon Europe programme and who are national delegates or MUR experts</li> <li>• Establishment of working groups for specific themes composed of experts from organisations that are SiS FVG Partners</li> <li>• Definition of a shared operational protocol between SiS FVG and the Liaison Office of the FVG Regional Authority in Brussels and launch of structured collaboration between the parties</li> <li>• Evaluation of project proposals already financed by the FVG Regional Authority with possible scalability to national and/or European projects</li> <li>• Monitoring of “Seal of Excellence” proposals for possible financing through regional financing tools</li> </ul>

TABLE 3

MACROREGIONAL STRATEGIES EUSALP AND EUSAIR

<p><b>Objective</b></p>	<p><i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i></p>
<p><b>Strand of activity</b></p>	<p>1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)</p>
<p><b>Description of the intervention</b></p>	<p>The Regional Administration participated in two EU macroregional strategies, for the Adriatic and Ionian Region (EUSAIR) and Alpine region (EUSALP), respectively. In the context of activities for implementation of these macroregional approaches, the intention is to maintain a link between the Regional Administration, in accordance with national and European governance of the strategies in question, with the regional Scientific and Innovation System, in order to facilitate and support involvement of SiS organisations, as applicable, in the multi-year plan of activities of the relevant thematic Action Groups for strategies and in preparation and implementation of specific projects for the macroregion, referred to as flagship projects, which have an impact on scientific collaboration, creation of innovation networks and higher education.</p> <p>The four strategic pillars underlying the EUSAIR strategy, which involves ten countries (four EU and six non-EU), are focused thematically on 1. “Sustainable blue growth”, 2. “Transport and energy infrastructure”, 3. “Environmental quality”, and 4. “Sustainable tourism”. Research and innovation and training are considered cross-cutting priorities that intersect with every Thematic Pillar. In the case of the EUSALP strategy that involves seven countries (five EU and two non-EU) and 48 Regions, there are nine Priority Actions making up the Shared Action Plan, and specifically, the Transnational Action Group AG1 “Development of a research and innovation ecosystem” has defined the following multi-year operational objectives:</p> <ul style="list-style-type: none"> <li>• Preparation of an SRIA research agenda for the Alpine Region by 2022</li> <li>• Strengthening of networking between research actors of the Alpine Region, including establishment of a Network/Cooperation between the EUSALP universities for the green transition (which UniTS and UniPD have expressed interest in joining).</li> <li>• Synchronisation of supranational tender procedures of the Alpine Region for alignment/coordination of measures to support research and innovation.</li> </ul> <p>Taking into account this structure of EUSAIR and EUSALP and the expertise and areas of specialisation of each organisation in the System, the intention is to support all forms of enhanced collaboration with equivalent organisations in the sector of research and innovation for the two macroregions. In light of the flagship projects identified by EUSAIR and the multi-year workplan of the EUSALP thematic Action Groups, also in synergy</p>

	<p>with the partnerships launched at the Italian national strategic level with the Regional Authorities and scientific and innovation parties involved from other relevant Italian and European regions, there will be particular focus on:</p> <ul style="list-style-type: none"> <li>• Creation of and/or participation in initiatives and events with a macroregional scope that involve SiS organisations in response to the action plans of the two EUSAIR and EUSALP strategies</li> <li>• participation in establishment of the EUSALP network under construction of the Universities of the Alpine Region for the green transition and of supranational innovation ecosystems with a macroregional scope on the basis of the areas of smart specialisation identified as of common interest by the Regional Authorities/EUSALP countries.</li> </ul>
<b>Implementing bodies</b>	FVG region and SiS FVG institutions
<b>Starting date</b>	2021
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	On the basis that the macroregional strategies do not have specific funds allocated to them, the individual initiatives and flagship projects with macroregional scope that are identified are implemented by building variable partnerships according to the needs of the areas involved and activation of specific financing instruments on a case-by-case basis
<b>Output indicator</b>	Increase of internationalisation capabilities of SiS FVG with particular regard to participation in events and initiatives promoted in the context of EUSAIR and EUSALP activity
<b>Result indicator</b>	<ul style="list-style-type: none"> <li>• Number of participants of SiS FVG in European and national events organised in the context of implementation of EUSAIR and EUSALP</li> <li>• Number of initiatives and projects organised and participated in by SiS Organisations connected to the action plan of the transnational thematic Action Groups of EUSAIR and EUSALP</li> </ul>

TABLE 4	EUROPEAN PROGRAMME “ACTIVE&ASSISTED LIVING” - AAL
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>
<b>Strand of activity</b>	1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)
<b>Description of the intervention</b>	<p>As set out by Art. 8 section 57 of Regional Law 25/2016 (Regional Stability Law 2017), in 2017, the Regional Administration joined the Ambient Assisted Living Association (AALA). It therefore participates in activity of the European Commission R&amp;D Programme supporting an active and independent lifestyle (AAL Programme).</p> <p>Following on from the previous programme, since 2018 the Regional Administration participates as a financing institution for the “Active &amp; Assisted Living” (AAL) programme to support participation of regional scientific and industrial partners in research, development and innovation initiatives of a collaborative nature promoting active and healthy ageing, aimed at the market, of a transnational and multidisciplinary nature based on ICT (information and communications technology), in line with the area of specialization entitled “Health, Quality of Life, Agri-food and Bioeconomics” of S3.</p> <p>More specifically, since 2018 the Regional Authority has contributed to the management and preparation of the calls for applications under the Programme, with specific reference to requesting parties and recipients from its own territory, participating in Programme governance within its remit. The goal is to support initiatives for research, development and innovation of a collaborative nature promoting active and healthy ageing, aimed at the market, of a transnational and multidisciplinary nature based on ICT (information and communications technology), aiming to take action in the fields of application of the Programme and focusing on specific markets.</p> <p>The 2021 Tender procedure “Advancing inclusive &amp; care solutions for ageing in the new decade” is the final Round of the current Programme. It is open to regional participants, with a dedicated regional budget of € 200,000.00 per year, in addition to EU co-funding in the case of projects with a qualifying position in the rankings for funding. The Regional Authority of Friuli Venezia Giulia finances both types of projects set out by the Call: projects with standard collaboration and small collaborative projects, with a more modest budget and duration and a preliminary nature. Recipients include universities, research institutes and businesses in the region. End users can participate in projects at their own expense.</p> <p>In October 2021, the AAL Forum was scheduled with a fully digital format (18–22 October 2021), after it had originally been planned for November 2020 in Trieste.</p> <p>In order to increase the reach and visibility of the Forum at the international</p>

	<p>level, it was included within the scope of the second digital edition of the European Week of Active and Healthy Ageing (EWAHA).</p> <p>EVENTS ON THE SCHEDULE</p> <ul style="list-style-type: none"> <li>• 16 October 2021: TRIESTE CITIZEN ACCELERATOR - ACTIVE &amp; HEALTHY OVER 65</li> <li>• 17–21 October 2021: EUROPEAN WEEK FOR ACTIVE AND HEALTHY AGEING</li> <li>• 20 October 2021: FVG Workshop - “FVG Living Lab: a project proposal for a local ecosystem for capitalisation of systemic innovation” (10:00–11:00)</li> </ul> <p>VIRTUAL STAND OF THE REGIONAL AUTHORITY OF FRIULI VENEZIA GIULIA AND REGIONAL LIFE-SCIENCES CLUSTER</p> <p>During the EUROPEAN WEEK FOR ACTIVE AND HEALTHY AGEING (EWAHA), due to the role of RAFVG as co-organising partner of the EWAHA event, the Regional Authority and newly established Life-Sciences Cluster had a virtual stand on which to present and host examples of excellence from the world of research, business in Friuli Venezia Giulia and the third sector, relevant to the topic of active ageing.</p> <p>By joining the Association it intends to contribute to promoting internationalisation of the regional Scientific and Innovation System and facilitate access to European funding opportunities, with particular regard to the area of specialisation “Health, Quality of Life, Agri-food and Bioeconomics” of S3.</p>
<b>Implementing bodies</b>	FVG region
<b>Starting date</b>	2021
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	<p>€ 5,000 (annual membership amount)</p> <p>€ 200,000 - regional budget for the 2021 call, in addition to — in the case of regional recipients of funding — EU resources of an approximately equal amount</p>
<b>Output indicator</b>	Participation of regional parties in the Call in the context of the Programme
<b>Result indicator</b>	<ul style="list-style-type: none"> <li>• Participation in tender procedures of the AAL Programme by the Regional Authority as National Funding Authority (NFA)</li> <li>• Number of regional parties participating in AAL Calls</li> <li>• Events organised</li> </ul>

TABLE 5		AGREEMENT BETWEEN THE FVG AUTONOMOUS REGION AND THE JOINT RESEARCH CENTRE (JRC) OF THE EUROPEAN COMMISSION
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>	
<b>Strand of activity</b>	1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)	
<b>Description of the intervention</b>	<p>From a strategic perspective to enhance collaboration at the European and international level regarding research, innovation and technological transfer, the Regional Administration continues with implementation of the Agreement (MoU) signed in 2017, which has a five-year duration, with the DG - Joint Research Centre (JRC) of the European Commission, supporting European policies, contributing to the decision-making process through research and scientific investigation. The Agreement is a framework tool enabling the promotion and facilitation of further operational agreements between institutions belonging to the regional Scientific and Innovation System and the JRC for the development of joint initiatives that also bring benefits for the region.</p> <p>Specifically, in line with the previous programme, project activities set out in the Agreement that comes to an end in 2022 continue, whilst at the same time a new renewed tool for collaboration is defined with the JRC through a specific Letter of Intent (LoI), with a wide range of actions to promote regional scientific institutions, in a strategic approach to strengthen collaboration at the European and international level regarding research, innovation and technological transfer, to the benefit of the regional research and innovation system.</p> <ul style="list-style-type: none"> <li>• Organisation in November 2021 of the joint event “SMART SPECIALIZATION &amp; TECHNOLOGY TRANSFER: THE EXPERIENCE OF THE FRIULI-VENEZIA GIULIA (FVG) REGION”, with collaboration of JRC and the Regional Authority of FVG in the context of the conference “Strengthening Technology Transfer in Europe”, organised by the JRC and Area Science Park for 17, 18 and 19 November 2021.</li> </ul> <p>The workshop saw presentation of the regional Smart Specialisation strategy (S3) with specific reference to measures to overcome innovation bottlenecks, also in terms of the digital and green transition. There was a specific focus on the two strategic and systemic actions aimed at creating an effective innovation ecosystem: SiS FVG and the Argo System project, to conclude with an overview of the experience regarding regional cooperation for technological transfer and the promotion of innovation with a transnational perspective, led by the Central European Initiative (CEI).</p> <ul style="list-style-type: none"> <li>• Definition, signing and implementation of a Letter of Intent between the FVG Regional Authority and the JRC</li> </ul>	

<b>Implementing bodies</b>	FVG region and SIS Institutions
<b>Starting date</b>	2021
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	-
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Enhance the internationalisation capabilities of the regional Scientific and Innovation System and increase active international collaboration</li> <li>• Foster collaboration between the Regional Authority and stakeholders (Research Bodies)</li> </ul>
<b>Result indicator</b>	Number of events of a collaborative nature

<b>TABLE 6</b>	
<b>AGREEMENT BETWEEN THE FVG AUTONOMOUS REGION, REGIONAL UNIVERSITIES AND MASSACHUSETTS INSTITUTE OF TECHNOLOGY - MIT</b>	
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>
<b>Strand of activity</b>	1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)
<b>Description of the intervention</b>	<p>In order to strategically enhance the collaboration activities at the international level in the field of research, innovation and technological transfer, and to increase the impact and the visibility of such initiatives, the Regional Authority signed along with the Universities of Trieste and Udine and SISSA - and has been implementing - an Agreement with the Massachusetts Institute of Technology (MIT). The Agreement falls within the MIT-Italy Program and has the purpose of strengthening such programme through new initiatives to increase its critical mass, as well as its impact and visibility.</p> <p>In August 2020, the Agreement between RAFVG and MIT was renewed for three years.</p> <p>Specifically, following the editions MIT 1, MIT 2, MIT 3 and MIT 4, which saw funding of numerous research projects, the MIT 5 initiative will be launched, entitled “MIT-FVG for the region: education, innovation and sustainability”, as an international cooperation project involving capitalisation workshops, a project impact assessment, innovation and promotion activity, and activity in schools and universities.</p>
<b>Implementing bodies</b>	Regional Authority, University of Trieste, University of Udine, International School for Advanced Studies (SISSA) and Massachusetts Institute of Technology (MIT)

<b>Starting date</b>	2021
<b>Planned duration</b>	3 years
<b>Planned expenditure</b>	€ 150.000,00 (2021) € 130.000,00 (2022)
<b>Output indicator</b>	Increase in the internationalisation capabilities of SiS FVG and capitalisation of results achieved with projects under the MIT 1, MIT 2, MIT 3 and MIT 4 editions, and an increase in active international collaboration.
<b>Result indicator</b>	<ul style="list-style-type: none"> <li>• Number of projects launched between FVG and MIT</li> <li>• Launch of a capitalisation workshops, a project impact assessment, innovation and promotion activity, and activity in schools and universities</li> </ul>

<b>TABLE 7 INTERNATIONALIZATION OF SIS FVG WITHIN THE InCE-CEI AREA</b>	
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>
<b>Strand of activity</b>	1.3 Support for the development of international agreements, cooperation agreements and projects in the sectors of research and innovation, which involve the institutions belonging to the scientific network of excellence, first of all inside the strategy areas of the European Union for the Alpine Region (EUSALP) and of the European Union Strategy for the Adriatic - Ionian Region (EUSAIR)
<b>Description of the intervention</b>	<p>With respect to activity strands 1.3 and 1.6, the InCE-CEI Secretariat, in agreement with the interested parties, will carry out activities aimed at the internationalisation of SiS FVG, such as:</p> <ul style="list-style-type: none"> <li>• Collaboration with the University of Trieste - Department of Political and Social Sciences (DISPES) for completion of activity regarding “Models and learning pathways on science diplomacy: opportunities for internationalisation of SiS FVG in relation to countries in the CEI area” and contribution to the planning of short learning pathways on science diplomacy at the graduate level</li> <li>• Collaboration with the University of Trieste on the topic of healthcare cooperation, with particular focus on activity to support the healthcare systems of selected Western Balkan states for the treatment of haematological illnesses</li> <li>• Collaboration with the UNESCO Chair on Intersectoral Safety for Disaster Risk Reduction and Resilience established at the University of Udine: the “Resilience” project aimed at defining strategies and tools to strengthen territorial resilience to extreme events and critical situations, supporting achievement of the Sustainable Development Goals</li> <li>• Collaboration with the Abdus Salam International Centre for Theoretical Physics (ICTP) to promote mobility for researchers/scientists from non-EU CEI Member States (incoming to TRIL network laboratories)</li> </ul>



	<ul style="list-style-type: none"> <li>• Collaboration with the Italian National Research Council (CNR) - European and International Relations Unit for research and monitoring activity for the “Western Balkans Research Foundation”</li> <li>• Readiness to collaborate with SiS FVG organisations on initiatives of common interest regarding/with CEI Member States, including EU projects (first and foremost in the context of European Territorial Cooperation - ETC and Horizon Europe 2021–2027)</li> </ul>
<b>Implementing bodies</b>	InCE-CEI Secretariat and interested SiS FVG members
<b>Starting date</b>	36 months
<b>Planned duration</b>	3 years
<b>Planned expenditure</b>	€ 80.000,00 (InCE funds)
<b>Output indicator</b>	<ol style="list-style-type: none"> <li>1. Support for internationalisation of SiS FVG through support from the CEI in multilateral forums, involvement of SiS FVG in international activity carried out/participated in by the CEI and involvement of CEI Member States in SiS FVG activity</li> <li>2. Preparation of a concept for a specific science-diplomacy learning pathway</li> <li>3. Drafting of a report on healthcare cooperation with the Western Balkans</li> <li>4. Definition of the guidelines and recommendations on territorial resilience.</li> <li>5. Drafting of a report on the Western Balkans Research Foundation</li> </ol>
<b>Result indicator</b>	<ul style="list-style-type: none"> <li>• Number of participants of SiS FVG in international events led by the CEI and participants from CEI Member States in activity of SiS FVG Members (ref. RA1)</li> <li>• Concept, report and guidelines prepared (ref. RA2, RA3, RA4 and RA5)</li> </ul>

TABLE 8	BLUE ECONOMY PLATFORM
<b>Objective</b>	<i>Objective no. 1: Creation of a “Scientific network of excellence” in the Friuli Venezia Giulia Region among universities, public research bodies and international research bodies to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions</i>
<b>Strand of activity</b>	1.5 Consolidation of partnerships and initiatives of international cooperation to benefit the SiS FVG with the support of the appropriate offices of the MAECI and the networks of scientific experts located across the territory
<b>Description of the intervention</b>	<p>It is a platform of knowledge and expertise on the “Blue Economy,” hosted by OGS and aimed at promoting a sustainable economic development and a responsible blue growth in the area of the Mediterranean Sea and of the Black Sea, in line with the EU strategy.</p> <p>The Platform aims to:</p> <ul style="list-style-type: none"> <li>-promote an advanced summer training school in Trieste to provide courses once a year in cooperation with SiS FVG institutions (Summer School in Sustainable Blue Growth) involving researchers, innovators, scientists and managers of Institutions, Universities and Research Centres from the countries of the Mediterranean and Black Sea area;</li> <li>-promote an advanced international Master on Blue Economy with the University of Trieste and other SiS FVG partners, thus contributing to the creation of new professional figures and more job opportunities in the Blue sector;</li> <li>-collaborate within international exchange programmes enhancing the attractiveness of the institution, of SiS FVG and the Country system</li> <li>-develop training and mobility activities to encourage the strengthening of the abilities of the Blue Growth sectors by working together in the framework of international projects. In particular, the DEEP BLUE project coordinated by OGS in cooperation with partners from Tunisia and Spain (University of Sfax, Polytechnic University of Madrid and Advanced Institute of Fishery and Aquaculture Technologies);</li> <li>-promote international cooperation among Mediterranean and Black Sea countries through the exchange of knowledge, education, entrepreneurship and employability.</li> </ul>
<b>Implementing bodies</b>	National Institute of Oceanography and Experimental Geophysics - OGS
<b>Starting date</b>	2019
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	Ministry of University and Research and funds from the Institute
<b>Output indicator</b>	The OGS Initiative on Blue Growth is strongly supported by the 5+5 Dialogue Countries, coordinated by Italy, to promote advanced education, innovation, international mobility and access to the research infrastructures for a sustainable growth in the marine and maritime sectors and with the goal of creating new jobs and increase products and services offered by the Italian

	industry, especially in this region, in the marine and maritime sector.
<b>Result indicator</b>	<p>2021:</p> <ul style="list-style-type: none"> <li>• Summer School (June 2021) online edition:</li> <li>• The school saw the participation of 36 students including researchers, young professionals and new graduates.</li> <li>• IV Edition of “Advanced Master in Sustainable Blue Growth” - Online edition (60 university credits), in cooperation with the University of Trieste. Participation of 25 students.</li> <li>• Workshop: "Towards the States General of the Blue Economy in the Mediterranean: a roadmap between Italy and Tunisia" (september 2021)</li> <li>• Workshop: “OC-NET Ocean cities: challenges &amp; solutions”- parallel session on Culture (Capacity building, TEK and Ocean Literacy) (september 2021) organized by Ocean Cities Network</li> <li>• 3rd WestMED Stakeholder Conference (Rome, November 2021): presentation of the Blue Skills project, winner of the Best Project Awards during the first edition of the WestMED Project Awards</li> </ul> <p>2022 expected activities:</p> <ul style="list-style-type: none"> <li>• Summer School in Sustainable Blue Economy in the Euro-Mediterranean Region –(July 2022). Target 25 participants.</li> <li>• V Edition of the Advanced Master in Sustainable Blue Growth , in cooperation with the University of Trieste. Target 23 participants.</li> <li>• Organization of the Ministerial Conference of the 5+5 Dialogue in Nouakchott, Mauritania</li> <li>• Advanced Training for Trainers on Technologies for fisheries and Aquaculture, organised in cooperation with Higher Institute of Fishing Technologies and Aquaculture.</li> <li>• Secretariat - 5+5 Dialogue for Research, Innovation and Higher Education in the Western Mediterranean. The main activity set out is organisation of the Ministerial Conference in May in Nouakchott, Mauritania, the member currently with the presidency, while the co-presidency is held by Italy. Plans for publication of the Nouakchott declaration (2022) and the new two-year annual plan (2022–2024).</li> </ul> <p>2023 expected activities:</p> <ul style="list-style-type: none"> <li>• Summer School in Sustainable Blue Economy in the Euro-Mediterranean Region</li> <li>• VI Edition of the Advanced Master in Sustainable Blue Growth , in cooperation with the University of Trieste.</li> </ul>

	Secretariat - 5+5 Dialogue for Research, Innovation and Higher Education in the Western Mediterranean. The current year will be dedicated to coordination of the activities conducted by the Member States. In the role of Secretary and appointed member for Italy, OGS will coordinate and support organisation of the groups of experts on a half-yearly basis (Group of Senior Officials).
--	--

<b>TABLE 9 INTELLECTUAL PROPERTY AND PATENTS</b>	
<b>Objective</b>	<i>Objective 2: Rationalisation of the regional structures that operate in the promotion of research, technology transfer and the development of innovation</i>
<b>Strand of activity</b>	2.1: Definition and implementation, in collaboration with the Friuli Venezia Giulia Autonomous Region and the MUR, of an organisational model of Innovation Enablers
<b>Description of the intervention</b>	<p>Development of a regional Patent and Competitive Intelligence hub through strengthening of collaborations between the Area Science Park PatLib Centre and SiS Partners for research, analysis and strategic management of technical and scientific information and patents to support technological-transfer activity, with particular focus on protection, management and promotion of Intellectual Property.</p> <p>More specifically, the intention is to establish channels and methods of interaction making it possible to support System Partners, both structurally and on demand, with the performance of studies and analyses aimed at identifying the applications potential of the results of research, with purposes all along the chain of processes for technological transfer, from protection of new discoveries to their commercialisation.</p>
<b>Implementing bodies</b>	Area Science Park
<b>Starting date</b>	2021
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	SiS FVG 2021/2022/2023 Funds (partially covering operating costs, personnel and database, of the Area Science Park PatLib Centre)
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Development of an organisational model enabling systematization at the regional level of expertise and resources dedicated to promoting research</li> <li>• Identification of applications and industrial potential of results of research through studies and analyses into the relevant technological and patent scenario</li> <li>• Support for definition of strategies to protect Intellectual Property in terms of the results of research and evaluation of possibilities for extension, maintenance and continuation of industrial property rights</li> <li>• Identification of directions for development of innovations also through selection of potential industrial partners to involve in utilisation and commercialisation of the results of research.</li> </ul>
<b>Result indicator</b>	The first year of the programme (December 2021–April 2022) was dedicated

	<p>to planning of the system supporting activities for protection, management and promotion of Intellectual Property performed by SIS FVG Partners</p> <ul style="list-style-type: none"> <li>• Number of agreements with SIS FVG Partners (at least 4 in the first year)</li> <li>• Number of awareness-raising actions (at least one per year from the second year)</li> <li>• Number of one-to-one meetings (virtual or in person) with representatives of the technological-transfer functions and/or “inventors” to examine discoveries to be protected (at least 15 per year from the second year)</li> <li>• Number of reports (prior art, technological and market scenarios, patent landscape, preliminary and patentability assessments) aimed at defining the applications potential of results of research (at least 10 per year from the second year)</li> </ul>
--	---

TABLE 10 «ARGO» SYSTEM	
<b>Objective</b>	<i>Objective 2: Rationalisation of the regional structures that operate in the promotion of research, technology transfer and the development of innovation</i>
<b>Strand of activity</b>	2.1: Definition and implementation, in collaboration with the Friuli Venezia Giulia Autonomous Region and the MUR, of an organisational model of Innovation Enablers
<b>Description of the intervention</b>	<p>The Operational Plan of the ARGO project for the period 2021–2023, formulated and approved by the Area Science Park Board of Directors, with resolution no. 34 of 31 May 2021, and approved by the Strategic Committee of the “ARGO SYSTEM Overall Project” Memorandum of Understanding on 28 October 2021 sets out the development of a system divided into four assets (IP4FVG, Technological platforms, Lab4Tech and Sustainable Circular-Economy Models and Facilities), for which a brief description and indication of the main strands are provided below.</p> <p>IP4FVG – Industry Platform for Friuli Venezia Giulia has the strategic objective of promoting digital transformation of businesses, innovation of the regional manufacturing system and promotion of interaction between the research and industrial spheres, through harmonisation and integration of existing resources and expertise, to be achieved through the following strands:</p> <ul style="list-style-type: none"> <li>• TEST BEFORE INVEST: Consolidation of Hub demonstration infrastructure (INVESTMENT), Increase in cases of usage of hubs, Launch of further IP4 Hubs at the national level, Support for digital transformation in businesses and the public administration (SERVICES)</li> <li>• ACCESS TO FINANCE: Monitoring of financing opportunities, Support for the generation of business in the field of digital transformation</li> <li>• SKILLS AND TRAINING: Higher education, Informative events on hub labs, Training courses on enabling technologies</li> <li>• INNOVATION ECOSYSTEM &amp; NETWORKING: Launch of structured collaborations at the national and international level, Communication</li> </ul> <p>The Technological Platforms asset contributes to the systemic impacts of the ARGO System by providing different types of academic and industrial users with optimal scientific and technological conditions to establish innovation projects, experimental activity and services of excellence, through access to</p>

	<p>research laboratories characterised by centres of high-level scientific expertise and availability of instrumentation and equipment of significant dimensions and which is not easily replicated.</p> <p>Area Science Park manages the Genomics and Epigenomics Platform (established by a facility dedicated to analysis of DNA and RNA sequences and genotyping, and a datacentre capable of providing advanced computing services and data analysis associated with genomics and other fields), while for the other platforms (Innovative Materials and Structural Biology) have a role of aggregation and dialogue between ARGO partners that have made their scientific instrumentation available to the System.</p> <p>Lab 4 Tech has the goal of promoting and supporting a process of economic growth in the local area, contributing to development of business through generation of highly innovative enterprises, through:</p> <ul style="list-style-type: none"> <li>• Integrated management and coordination of the FVG ecosystem supporting innovative start-ups</li> <li>• Programmes with vertical development in ARGO System sectors: ICT and digital transformation, Life sciences (technological platforms), Cultural and creative industries, Circular economy</li> <li>• Corporate Programmes and Open Innovation to incentivise and promote connections between medium and large enterprises and start-ups</li> <li>• Internationalisation programmes to support scale-up of FVG start-ups, also through partnership with important initiatives and public and private organisations and the promotion of various parties operating to support scale-up of businesses.</li> </ul> <p>Development of the “green” Asset in Sustainable Circular Economy Models and Facilities begins with the need to consolidate FVG’s model for activity (Industrial symbiosis, one stop shop, smart construction, energy supply chains) developing tangible initiatives (short-chain industrial and circular-economy pilot initiatives) for optimisation on a multi-regional scale, with particular focus on the following strands:</p> <ul style="list-style-type: none"> <li>• Circular industrial initiatives in the field of port logistics (Enhancement of circular and sustainable production and logistics investments, development of tools to support decisions for the planning and management of infrastructure, development of applied research projects for the creation of chains for the recovery of materials and energy)</li> <li>• Strategic project for close industrial symbiosis for the inner port area in Trieste - SISSI tool, Regional Platform for Industrial Symbiosis</li> <li>• Development of industrial projects aimed at decarbonisation</li> </ul>
<b>Implementing bodies</b>	Area Science Park
<b>Starting date</b>	2021
<b>Planned duration</b>	The ARGO System Institutional Memorandum of Understanding was renewed in June 2021, up to 31 December 2023.
<b>Planned expenditure</b>	<p>Development of ARGO System is co-financed by the FVG Region for total three-year funding of € 3,000,000 divided up as follows:</p> <p>Industry Platform 4 FVG asset € 1,500,000.00</p> <p>Scientific and Technological Platform asset € 750,000</p>

	Lab for Tech asset (High Impact Net): € 750,000
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Complete experimentation of the system in Friuli Venezia Giulia, strengthening its structure and impacts, starting from the strengths and issues identified in the 2018–2020 phase, evaluating the replicability of assets and the possibility of their extension to other Italian regions with a hub &amp; spoke model</li> <li>• Make the ARGO System a model supporting regional planning for development initiatives, in sectors connected to research, technological transfer and industrial innovation, at a national and macroregional level</li> <li>• Further harmonise the system with EU and national directives linked to the Green Deal.</li> </ul>
<b>Result indicator</b>	<p><b>Industry Platform 4 FVG asset</b></p> <ul style="list-style-type: none"> <li>• Number of experimental digitalisation projects supported through ARGO financing calls</li> <li>• Number of services supporting digitalisation of companies issued</li> <li>• Number of companies and public administration entities involved in demonstration activity</li> </ul> <p><b>Scientific and Technological Platform asset</b></p> <ul style="list-style-type: none"> <li>• Number of collaboration/partnership agreements aimed at increasing the technical and scientific offer of the Platforms</li> <li>• Number of thematic/sector catalogues focused on technology and know-how of the platforms</li> <li>• Number of grants/research funding packages for machine learning/deep learning or data management topics</li> </ul> <p><b>Labs for Tech (High Impact Net) - Development of innovative businesses</b></p> <ul style="list-style-type: none"> <li>• Number of agreements with regional partners for the creation of coordinated programmes supporting business generation</li> <li>• Number of start-ups selected and trained to guide in participation in international acceleration programmes and scale-up</li> </ul> <p><b>Circular-economy models and facilities asset</b></p> <ul style="list-style-type: none"> <li>• Creation of a system of services for the development of “eco-sustainable investments” (One Stop Shop)</li> <li>• Implementation of a georeferenced Territorial Data Infrastructure (IDT) tool to support decisions (SISSI)</li> <li>• Design of a pilot system for the digital management of infrastructure (BIM)</li> <li>• Number of feasibility studies and preparatory activity for the presentation and launch of projects of strategic interest supported by the Argo System</li> </ul>

TABLE 11		FVG INNOVATION SYSTEM
<b>Objective</b>	<i>Objective 2: Rationalisation of the regional structures that operate in the promotion of research, technology transfer and the development of innovation</i>	
<b>Strand of activity</b>	2.1: Definition and implementation, in collaboration with the Friuli Venezia Giulia Autonomous Region and the MUR, of an organisational model of Innovation Enablers	
<b>Description of the intervention</b>	<p>The project “FVG Innovation System 2021–2022”, finalised pursuant to Italian Regional Law 27/2014, Art. 7, sections 16–29, is divided into four work packages, with the goal of contributing to the growth of the local economic system, following on from the objectives of the ARGO System managed by Area Science Park</p> <p>WP1 IP4FVG Hubs coordination and system activity: this includes general activities for operational coordination and monitoring of project activities and support for IP4FVG Hubs, particularly to facilitate access for companies and promotion of their technological offer</p> <p>WP2 IP4FVG Digital manufacturing: this includes activity to support digital innovation of company processes, assessment of the degree of digital maturity of companies and promotion of digital-transformation projects</p> <p>WP3 Additive Manufacturing and Digital Fabrication centres of excellence: this includes activity for technological transfer and development of new business models linked to additive manufacturing and digital fabrication, considered to be strategic and enabling technology for development of the regional manufacturing sector</p> <p>WP4 Smart Mountain centre of excellence: includes activity aimed at triggering revitalisation of the social and business fabric in the mountain region, both in terms of technological innovation and innovation of business models, supporting the transition from an unattractive and marginal area subject to depopulation to a centre that attracts talent and national and international key players to investigation of technology, solutions and business models capable of resolving typical problems of the area.</p>	
<b>Implementing bodies</b>	BIC Incubatori FVG srl, Friuli Innovazione Centro di Ricerca e di Trasferimento Tecnologico Scarl, Polo Tecnologico Alto Adriatico “Andrea Galvani” Spca	
<b>Starting date</b>	2021	
<b>Planned duration</b>	2021-2022	
<b>Planned expenditure</b>	<p>BIC Incubatori FVG srl: € 200.000,00</p> <p>Friuli Innovazione Centro di Ricerca e di Trasferimento Tecnologico Scarl: €1.020.000,00</p> <p>Polo Tecnologico Alto Adriatico ‘Andrea Galvani’ Spca: € 780.000,00</p>	
<b>Output indicator</b>	<p>WP1 IP4FVG Hubs coordination and system activity</p> <ul style="list-style-type: none"> <li>• Control of progress of project activity and corresponding reporting to the IP4FVG Steering Committee</li> <li>• Preparation of operational documentation (workplan, periodic SAL documents)</li> <li>• Support for activity of IP4FVG Hubs</li> </ul> <p>WP2 IP4FVG digital manufacturing</p>	



	<ul style="list-style-type: none"> <li>• Support for digital innovation of company processes</li> <li>• Evaluation of degree of digital maturity (Digital Assessment)</li> <li>• Support for digital-transformation projects (Digital worksites)</li> <li>• Development of the supply chain event management (SCEM) planning initiative</li> <li>• WP3 Additive Manufacturing and Digital Fabrication centres of excellence</li> <li>• Launch of pathways for the discovery of new technologies and their applications</li> <li>• technological audits and specialist investigation for the development of technological and strategic innovation pathways</li> </ul> <p>WP4 Smart Mountain centre of excellence</p> <ul style="list-style-type: none"> <li>• Sustainable management of environmental assets</li> <li>• Experimental initiatives for advanced digital technology</li> <li>• Smart production and consumption of renewable energy</li> <li>• Remote monitoring for disadvantaged groups</li> <li>• Overcoming the digital divide</li> </ul>
<p><b>Result indicator</b></p>	<p><b>WP1 IP4FVG Hubs coordination and system activity</b></p> <p>Final report on support activity performed for access to Hubs and their promotion</p> <p><b>WP2 IP4FVG digital manufacturing</b></p> <ul style="list-style-type: none"> <li>• Number of assessments</li> <li>• Number of digital worksites</li> </ul> <p><b>WP3 Additive Manufacturing and Digital Fabrication centres of excellence</b></p> <ul style="list-style-type: none"> <li>• Number of laboratory open days</li> <li>• Company technological audits</li> <li>• Number of worksites</li> </ul> <p><b>WP4 Smart Mountain centre of excellence</b></p> <ul style="list-style-type: none"> <li>• Number of working groups/company audits with public/private stakeholders and companies, start-ups and aspiring entrepreneurs</li> <li>• Number of pilot initiatives defined at project level and launched</li> </ul>

TABLE 12 WELCOME OFFICE FRIULI VENEZIA GIULIA	
<b>Objective</b>	<i>Objective 3: Promotion and services for the internationalisation of the centres present in Friuli Venezia Giulia</i>
<b>Strand of activity</b>	<p>3.1 Reinforcement of the services for internationalisation offered by the Welcome Office FVG in collaboration with the services of internationalisation of the universities and regional research offices;</p> <p>3.2 Enhancement of the links of the Welcome Office FVG with the appropriate offices of the MAECI dedicated to migratory policies and entry procedures for foreigners, also through the creation of workshops and dedicated working groups with officials and national and European experts;</p> <p>3.3 Creation of thematic forums and study groups with the MIUR and the MAECI.</p>
<b>Description of the intervention</b>	<ul style="list-style-type: none"> <li>• Preparation of 1 annual planning document shared by the Partnership and semestral monitoring of the Network activities</li> <li>• Strengthening of the consultancy services addressed to students and researchers and constant updating of the pre-arrival information provided by the regional web portal Welcome Office FVG (<a href="http://www.welcomeoffice.fvg.it/">www.welcomeoffice.fvg.it/</a>)</li> <li>• Planning of restricted meetings of the Welcome Office FVG with Public Administration on topics of interest (for example, entry regulations for foreign students and researchers)</li> </ul>
<b>Implementing bodies</b>	Area Science Park in collaboration with the University of Udine (which manages the Welcome Office Udine)
<b>Starting date</b>	ongoing
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	SiS FVG 2021 -2023 funds
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Strengthen the collaboration and the interaction among the Institutions of the Network to foster the international attractiveness of the Friuli Venezia Giulia region</li> <li>• Consolidate the relationship among the Welcome Office FVG, the regional scientific and academic institutions and the PA, as well as strengthening the role of the Welcome Office FVG as the interface between the parties</li> <li>• Reinforcing the competences of the staff of the SiS FVG Institutions in relation to the procedures for the arrival of students and researches to Italy</li> <li>• Sensitising the scientific community and the scientific and academic institutions on policies and actions - promoted at European level - to improve working conditions and promote the international and intersectoral mobility of researchers</li> <li>• Supporting the development of the researchers' career</li> <li>• Optimising the useful information available on the web portal to</li> </ul>

	facilitate the arrival to the region of students, researchers and their families
<b>Result indicator</b>	<p>In 2021:</p> <p>Annual meeting with the WOFVG Partners</p> <p>Presentation of the Welcome Office FVG initiative at the italian chapter of the Marie Curie Alumni Association</p> <p>Updating of the the web portal <a href="http://www.welcomeofficefvg.it">www.welcomeofficefvg.it</a> and of the To-Do List tool</p> <p>Collaboration with the immigration offices at Questura, Prefettura, RAFVG and with MAECI Visa center</p> <p>Design of the Community of Practice dedicated to technical and administrative staff</p> <p>Publication "10 years of welcoming" on the first 10 year of Welcome Office FVG activities</p> <p>In 2022/2023:</p> <p>Annual meeting with the WOFVG Partners</p> <p>Collaboration with Marie Curie Alumni Association Network</p> <p>Collaboration with the immigration offices at Questura, Prefettura, RAFVG and with MAECI Visa center, annual meeting with the Network</p> <ul style="list-style-type: none"> <li>• Implementation of the Community of Practice dedicated to technical and administrative staff</li> </ul>

<b>TABLE13 MOBILITY OF KNOWLEDGE SURVEY</b>	
<b>Objective</b>	<i>Objective 3: Promotion and services for the internationalisation of the centres present in Friuli Venezia Giulia</i>
<b>Strand of activity</b>	3.4 Creation of studies and models to monitor the incoming & outgoing flows of researchers and international students
<b>Description of the intervention</b>	<p>Annually, the SiS FVG carries out a survey on the mobility flows of international students, researchers and scientists present in the territory in order to monitor the attractiveness rate of the regional Scientific and Innovation System. The Survey gathers the data relating to incoming international researchers and students in the Friuli Venezia Giulia region, which is validated by a Working Group created among the subjects partners of the SiS FVG.</p> <p>The main activities are:</p> <p>Coordination of the Working Group for the collection and monitoring of data</p> <p>Elaboration of charts and their dissemination through the web portal <a href="http://www.sisfvg.it">www.sisfvg.it</a></p> <p>Pubblication of the survey and promotion to the SIS FVG network</p>
<b>Implementing bodies</b>	Area Science Park (in collaboration with SiS FVG partners)
<b>Starting date</b>	Ongoing
<b>Planned duration</b>	Multi-year
<b>Planned expenditure</b>	SiS FVG 2021/2022/2023 funds
<b>Output indicator</b>	<ul style="list-style-type: none"> <li>• Enhance the presence of international researchers and students in the regional territory</li> <li>• Improve the attractiveness of the regional Scientific and Innovation System.</li> </ul>
<b>Result indicator</b>	<p>Attività relative a ciascuna annualità (2021-2022-2023)</p> <ul style="list-style-type: none"> <li>• Management of the working group</li> <li>• Publication of the survey</li> <li>• Publication of the survey data on SiS FVG website</li> </ul>

TABLE 14		ACTIVITIES FOR THE PROMOTION OF SIS FVG
<b>Objective</b>	<i>Objective 3: Promotion and services for the internationalisation of the centres present in Friuli Venezia Giulia</i>	
<b>Strand of activity</b>	3.6 Promotion of SiS FVG through suitable means of communication	
<b>Description of the intervention</b>	<p>With the goal of strengthening the positioning of SiS FVG and optimising and enhancing internal and external communication activity, the following actions are planned:</p> <ul style="list-style-type: none"> <li>• Definition of a Joint Strategic Communication Plan</li> <li>• Updating of news, data and charts regarding Partners published on the Web Portal <a href="http://www.sisfvg.it">www.sisfvg.it</a></li> <li>• Updating of SiS Facebook page</li> <li>• Updating of Partner profiles (Partners section)</li> <li>• Drafting of SiS FVG Newsletter</li> <li>• Updating of promotional channels/initiatives with a view to marketing and innovation</li> <li>• Launch of actions to raise awareness and promote networking with individual institutions of the System in relation to communication themes, also with a view to creating a sharing tool for promotion of the System with potential external parties interested in engagement or launching joint initiatives</li> <li>• Organisation of the annual SiS FVG Conference</li> <li>• Promotion of the System in the context of events aimed at the general public on the topics of research and innovation (Next).</li> </ul>	
<b>Implementing bodies</b>	Area Science Park	
<b>Starting date</b>	2021	
<b>Planned duration</b>	2021-2022-2023	
<b>Planned expenditure</b>	SiS FVG 2021-2022-2023 funds	
<b>Output indicator</b>	Strengthen the promotion of SiS FVG among different types of audiences	
<b>Result indicator</b>	<p>2021</p> <ul style="list-style-type: none"> <li>• Event with the Ministry of University and research</li> <li>• Management and update of SiS website, FB page, Youtube channel</li> <li>• SiS Newsletter</li> <li>• Promotion of SiS FVG in public events (e.g. Next)</li> <li>• Organization of SiS Conference</li> </ul> <p>2022</p> <ul style="list-style-type: none"> <li>• Creation of the Joint Strategic Communication Plan</li> <li>• Updating of news, data and charts regarding Partners published on the Web Portal</li> </ul>	

- Updating of SiS Facebook page
- Updating of Partner profiles (Partners section)
- SiS FVG Newsletter
- Updating of promotional channels/initiatives with a view to marketing and innovation
- Launch of actions to raise awareness and promote networking with individual institutions of the System in relation to communication themes
- Promotion of the System in the context of events aimed at the general public on the topics of research and innovation (Next).
- Launch of collaboration with Rachael/SWG for updating of certain data generated by the Rachael study carried out by SWG SpA and its publication on the SiS website (following technical and budget assessment)

2023

- Implementation of the Joint Strategic Communication Plan
- Updating of news, data and charts regarding Partners published on the Web Portal
- Updating of SiS Facebook page
- Updating of Partner profiles (Partners section)
- SiS FVG Newsletter
- • Promotion of the System in the context of events aimed at the general public on the topics of research and innovation (Next).