



Sis
FVG



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA

**SISTEMA SCIENTIFICO
E DELL'INNOVAZIONE
DEL FRIULI VENEZIA GIULIA**

SIS FVG OPERATIONAL PLAN 2017-18 MONITORING

Sis FVG Steering council meeting
Trieste, December 9th 2019

Programme Agreement for the Scientific and Innovation System of Friuli Venezia Giulia - SiS FVG

- Signed in August **2016** among **RAFVG, MIUR and MAECI**;
- **Duration: 5 years** (renewable with the approval of the parties);
- **Subjects involved: RAFVG, MIUR and MAECI + 18** public research bodies under MIUR jurisdiction and/or control, international research organizations based in the FVG region.
- **Authorities: 1 Steering council** (that proposes annually to the MIUR, the MAECI and the Region its operating objectives and development activities) **+ 1 Annual assembly** on themes of regional interest
- This Agreement substitutes the preceding agreement signed by the Region, the MIUR and the MAECI on January 27, 2004 for the establishment of a coordinating structure of the Research Centres of the Friuli Venezia Giulia Region.

Programme Agreement for the Scientific and Innovation System of Friuli Venezia Giulia - SiS FVG



- Regional Council member for work, training, education, research, university and family: Alessia Rosolen
- Central management offices for work, training, education and family – Advanced training and research Unit



- Operating support: **Area di Ricerca Scientifica e Tecnologica di Trieste - Area Science Park** for the achievement of the objectives 3 (Promotion and services for the internationalisation of the centres present in Friuli Venezia Giulia) and 4 (Technical and scientific communication and diffusion of innovation) of the Programme Agreement

SiS FVG Agreement objectives

Valorization of the Scientific and Innovation System of Friuli Venezia Giulia region

by fostering the coordination of the scientific activities and sharing facilities

1. Support the **coordination of the scientific activities** by creating a “Scientific network of excellence”;
2. Improve the collaboration between the Scientific System and the regional companies through the **rationalisation of the regional structures that operate in the technology transfer and the development of innovation**;
3. Enhancement of the national and international visibility of the regional Scientific System by **reinforcing the services for internationalisation** offered to the researchers based in the region;
4. Support the **technical and scientific communication** and diffusion of innovation.

SiS Operational Plan 2017-18

Project tables realized by SiS partners during the period 2017-2018 and consistent with the operational objectives of the Agreement.

16 project tables divided according 4 objectives:

- Objective 1 – Creation of a “scientific network of excellence”: **11** project tables;
- Objective 2 – Rationalization of the regional structures that operate in the valorization of research, technology transfer and the development of innovation: **2** project tables;
- Objective 3 – Promotion and services for the internationalization of the centres present in Friuli Venezia Giulia region: **2** project tables;
- Objective 4 – Technical and scientific communication and diffusion of innovation: **1** project table.

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.1 The creation and enhancement of integrated research infrastructures	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>HIGH PERFORMANCE COMPUTING (HPC)</p> <p>Creation of a regional HPC infrastructure for big data analysis and computing</p> <p>Managing body: SISSA. Contact persons: Lanza e Rozza</p>	<p>Inauguration of the Ulysses infrastructure (2020)</p>	<p>2016</p>	<p>2017-2018</p>	<p>€ 1.000.000</p>	<p>Infrastructure test: April 2019</p> <p>Discussion forum with the other Universities to formalize the protocol agreement, the management rules and the scientific committee: being implemented</p>

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.1 The creation and enhancement of integrated research infrastructures	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>100 G Network</p> <p>Design and creation of a regional telecommunications infrastructure based on the wavelength division multiplexing transmission optical technology for the research and academic community of the region</p> <p>Managing body: UniTs</p> <p>Contact persons: Giorgetti</p>	<p>Infrastructure test by 30/11/2020</p>	<p>2018</p>	<p>3 years</p>	<p>€ 1.976.000, of which € 476.000 as cofund and € 1.500.000,00 regional funding (LR 2/2011)</p>	<p>- 03/2019 – 08/2019: network design and tender notice;</p> <p>-29/08/2019: tender publication;</p> <p>- 15/09/2019: deadline for applications;</p> <p>- 09/2019 – 03/2020: adjudication procedure and contract;</p> <p>- 04/2020 – 11/2020: infrastructure creation.</p>

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.1 The creation and enhancement of integrated research infrastructures	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Advanced Mechatronics Laboratory ("Lama FVG")</p> <p>Creation of a regional Advanced Mechatronics Laboratory for the development of research and training in cooperation with the production system</p> <p>Managing body: UniUd</p> <p>Contact persons: Gasparetto, Sartor, Totis</p>	<p>Start of training courses and completion of the development of the III lot of the Laboratory by December, 2018</p>	<p>2016</p>	<p>2017-2018</p>	<p>2017: € 550.000</p> <p>Sustained cost 2017-2018: € 550.000</p> <p>Regional funding (LR 2/2011)</p>	<ul style="list-style-type: none"> - Investment plan to purchase materials and equipment for the III lot (completed by 31/12/2018); - Realization of 20 courses (from 2017 to 2019); - Organization of 4 workshop; - Participation in 4 promotional events - Creation of a dedicated website; - Promotional video: being implemented

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.1 The creation and enhancement of integrated research infrastructures	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Bionica (ex Ican)</p> <p>Creation of a facility in the field of the research on the diseases related to the ageing of the population</p> <p>Managing body: UniTs</p> <p>Contact persons: Manfioletti</p>	<ul style="list-style-type: none"> - Stipulation of the memorandum of understanding and start of the microscopy activities by 2020 - Start of the hub laboratory during the project implementation 	<p>From 2017 (for the I lot)</p>	<p>Multiannual</p>	<p>€ 2.110.991,75 Regional funding (LR 2/2011)</p>	<p>The project has been changed during 2018-19.</p> <p>Activities:</p> <ul style="list-style-type: none"> - connection of the activities of the three regional universities -implementation of a central lab (hub) -upgrading of the labs connected through the network (spoke) -upgrading of the microscopy equipment.

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.1 The creation and enhancement of integrated research infrastructures	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Open Lab</p> <p>Enhancement of the Area Science Park's Great Laboratories' offer with Elettra Sincrotrone Trieste and CNR FVG</p>	<p>-Number of Network's laboratories: at least 5</p> <p>-Number of orders/research projects with public and private users: at least 25</p>	<p>From I semester 2018</p>	<p>Multiannual</p>	<p>€ 1.200.000</p> <p>(funded by the “Open Lab - A System of Open Research Facilities” project)</p>	<p>2018 Management and equipment:</p> <ul style="list-style-type: none"> -organisational scheme for the access to the Advanced Materials Platform -purchase and installation of the Next Generation Sequencing (NovaSeq 6000) and adaptation of the machinery at Basovizza Campus, building Q. (July-December 2018) -Tender and terms of the contract for the realization of the information technology platform to support the computer centre -Selection of the equipment to buy (by CNR IOM and CNR IC) to upgrade the Advanced Materials Platform and set up of the Structural Biology Platform (July-December 2018) <p>Agreements made: 8, 5 for the Advanced Materials and Structural Biology and 3 for the Genomics and Epigenomics Platform</p>

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.3 Support for the development of international agreements, cooperation agreements and projects in the sector of research and innovation	Indicators	Starting date	Planned duration	Planned expenditure	Update
EU programme Active&Assisted Living (AAL)	Participation in 2018 AAL Programme' Calls	2017	Multiannual	<ul style="list-style-type: none"> •€ 5.000 (annual membership fee); •€ 200.000 (2018 Call) 	<ul style="list-style-type: none"> -The Regional Authority joined the Ambient and Assisted Living International non-for-profit Association of Bruxelles (AALA) on 8/11/2017 -Partecipation, in 2018, in the call «Smart solutions for ageing well»; -Organitazion of a webinar on 09/04/18 to present the 2018 call with the partecipation of European experts -Help in the managing of the 2019 call (Content working group); - 1 application by FVG as beneficiary (in the ranking but not funded)

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.3 Support for the development of international agreements, cooperation agreements and projects in the sector of research and innovation	Indicators	Starting date	Planned duration	Planned expenditure	Update
Agreement between RAFVG and DG JRC	Realization of: -2 operative agreements between JRC and the FVG research institutions -1 call to create 16 mobility programmes for SiS FVG researchers at JRC research centres (12 mobility programmes presented – ongoing process)	2017	Multiannual	€ 360.000 (FSE funding)	28 project proposals from JRC for SiS FVG researchers’ mobility programme - 22/1/18 II edition of Science meets Regions 2018 in collaboration with the Presidents Conference of the Italian Legislative Assembly of the Regions and Autonomous Provinces (on Alzheimer topic); - 6 events realized in Trieste with the participation of JRC experts in 2018; - 4 events realized by JRC with the participation of SiS FVG experts in 2018; - 1 study visit at ISPRA on 1/12/17, in view of the launch of the call for the researchers mobility programme (launched on 19/12/2018); - 2 trilateral meeting in FVG 22/1/18; - 1 study visit ISPRA on 25/5/18 dedicated to schools on the occasion of the new Regulation on data protection; - 1 JRC visit in FVG; - Bilateral Agreement Area – JRC on TT; - Bilateral Agreement ICGEB – JRC.

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.3 Support for the development of international agreements, cooperation agreements and projects in the sector of research and innovation	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Agreement among RAFVG, FVG universities and the Massachusetts Institute of Technology (MIT)</p>	<p>Launch of 15 projects and annual exchanges among FVG Universities and MIT :</p> <p>11 research projects 1 workshop 3 research fellowships</p>	<p>2017</p>	<p>3 years</p>	<p>€ 150.000 Per year</p> <p>(Regional funding)</p>	<p>-2 calls launched for a total of 15 projects funded</p> <p>- Organization of an event about MIT-FVG in collaboration with the FVG Autonomous region on 22/01/2019.</p>

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.3 Support for the development of international agreements, cooperation agreements and projects in the sector of research and innovation	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Apres FVG Committee (2019-2020)</p>	<ul style="list-style-type: none"> -Definition of a shared annual plan for training, information and promotion activities regarding Horizon 2020 calls with six-monthly meetings of the APRE FVG Committee -Coordination of shared one-day training and information events within the APRE FVG Committee to improve the participation of entities in the Horizon 2020 calls and organise events and activities to raise awareness among the local community on the EU opportunities as well as increase and improve the participation of enterprises and regional research bodies in the Horizon 2020 programme (activities to be implemented jointly with APRE regional partners). -Annual mapping of the participation of APRE FVG partners in the Horizon 2020 calls. -Dissemination of the calls and project best practices within Horizon 2020 through targeted SiS FVG information notices, website and newsletters. 	Ongoing	Multiannual	<p>Regional funding to support the implementation of SiS FVG Agreement</p> <p>€ 100.000,00 in total in 2018</p> <p>(for all the activities)</p>	<p>2018:</p> <ul style="list-style-type: none"> - Realization of 18 one-day training and information events with more than 400 participants; - mapping of the participation of APRE FVG partners 2017-18 in the Horizon 2020 calls

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.5 Consolidation of partnerships and initiatives of international cooperation	Indicators	Starting date	Planned duration	Planned expenditure	Update
<p>Blue Economy platform</p> <p>Platform of knowledge and expertise on the “Blue Economy” aimed at promoting a sustainable economic development and a responsible blue growth in the area of the Mediterranean Sea and of the Black Sea</p>	<ul style="list-style-type: none"> -Launch of the advanced international Master on Blue Economy with the University of Trieste -Promotion of an advanced summer training school in Trieste in cooperation with SiS FVG institutions (Summer School in Sustainable Blue Growth) and the countries of the Mediterranean and Black Sea area -Organization of workshops and seminars on environmental quality, safety at sea, etc.; - Support to international start up and/or spin off in the Blue Growth sector; - Collaboration within international exchange programmes 	2017	Multiannual	€ 200,000 (MIUR and funds from the Institute)	2018: <ul style="list-style-type: none"> - Launch of the first Master’s degree course in Sustainable Blue Growth: More than 80 applications; 21 students selected from 8 countries; 15 fellowships awarded; - V edition of the Summer School on Sustainable Blue Growth in the Mediterranean and Black Sea Countries: 187 applications, 27 students selected from 18 countries;

Monitoring of each strand of activity

Objective 1: Creation of a “Scientific network of excellence” to reinforce the capacity for action, attractiveness and competitiveness at a national and international level of the institutions

1.7 Reinforcement of the relations with the liaison office in Brussels of the Region	Indicators	Starting date	Planned duration	Planned expenditure	Update
Support to the networking activities	Participation in 3 brokerage events of the EU networks in 2017, 1 brokerage event in 2018 -2 position paper in 2017, 1 in 2018	2017	3 years	Institutional activities of the FVG Region	-Support in participation to networks, international projects and brokerage events of the EU networks -Partecipation in the draft of position paper GIURI through GIURI (Informal Group of the Italian Brussels-based Liaison Offices); - Promotion of the University of Udine (Medical Area Department) partecipation in EDEN project (Embracing Dementia, from 01/09/2018 to 31/8/2019); - Monthly collaboration between the Liaison Office in Brussels of the FVG Region to share news on events, tenders etc.. and to promote them through SiS FVG website and newsletter.

Monitoring of each strand of activity

Objective 2: Rationalisation of the regional structures that operate in the promotion of research, technology transfer and the development of innovation

2.1 Definition of an organisational model of innovation enablers	Indicators	Starting date	Planned duration	Planned expenditure	Update
Argo System	Start of the agreement approved by DGR 2292 dd. 30/11/2018 And subscribed at the end of 2018	2018	Multiannual	€ 8,800,000, of which € 4,000,000 by Regional Authority contribution, € 4,000,000 by MIUR contribution and € 800,000 by Area Science Park contribution	<ul style="list-style-type: none"> ▪ Industry Platform 4 FVG (IP4FVG) Asset: Steering Committee: created; 4 Hubs set off: IoT (Amaro, UD); Data Analytics e AI (Udine); Adv. Manufacturing Solutions (Pordenone); Data Optimiz.&Simulation (Trieste). Purchasing process started to realize the Demonstrators ▪ Industrial Innovation Harbour (IIH) Asset : Settlement of Java Biocolloid Europe Srl and launch of the Observatory on Circular Economy ▪ Technological Platform Asset: Implementation of the Genomics and Epigenomics platform, update of governance's models and purchase of new equipment. ▪ High Impact Net (HIN) Asset : activity plan being defined

Monitoring of each strand of activity

Objective 2: Rationalisation of the regional structures that operate in the promotion of research, technology transfer and the development of innovation

2.1 Definition and implementation, in collaboration with the Region and the MIUR, of an organisational model of innovation enablers	Indicators	Starting date	Planned duration	Planned expenditure	Update
OIS (Open Innovation System FVG) 2018	The annual indicators foreseen: <ul style="list-style-type: none"> - 180 finalized project ideas - 250 Technical assistance and planning interventions - 150 enterprises supported with technical assistance (on an annual basis) 	Ongoing	Multiannual	€ 1 million (regional funding)	2018: <ul style="list-style-type: none"> - 227 innovation ideas finalized; - 287 technical assistance and planning interventions; - 189 enterprises supported with technical assistance.

Monitoring of each strand of activity

Objective 3: Promotion and services for the internationalization of the centres present in the regional territory

3.1 Reinforcement of the services for internationalisation offered by the Welcome Office FVG	Indicators	Starting date	Planned duration	Planned expenditure	Update
Welcome Office Friuli Venezia Giulia	<ul style="list-style-type: none"> - Preparation of 1 annual planning document shared by the Partnership and semestral monitoring of the Network activities -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 (www.welcomeoffice.fvg.it/) -Planning of restricted meetings of the Welcome Office FVG with Public Administration on topics of interest (e.g. entry regulations for foreign students and researchers) 	Ongoing	Multiannual	Regional funding to support the implementation of SiS FVG Agreement € 100.000,00 in total in 2018 (for all the activities)	2018: <ul style="list-style-type: none"> - 13.434 customized advices (consultancy service); - Implementation of the website by the creation of the «Success Stories» section; - Organization of the training course “English for international mobility management” (Trieste, April-May, 20 hours).

Monitoring of each strand of activity

Objective 3: Promotion and services for the internationalization of the centres present in the regional territory

3.4 Creation of studies and models for monitoring the flows of researchers and international students in FVG	Indicators	Starting date	Planned duration	Planned expenditure	Update
«Mobility of Knowledge» Survey	<ul style="list-style-type: none"> -Coordination of the Working Group for the collection and monitoring of data relating to the survey -Elaboration of charts and their dissemination through the web portal www.sisfvg.it -Realization of the publication of the survey and its promotion through the SiS FVG network 	Ongoing	Multiannual	Regional funding to support the implementation of SiS FVG Agreement € 100.000,00 in total in 2018 (for all the activities)	2018: survey realized, published and distributed to SiS FVG partners

Monitoring of each strand of activity

Objective 4: Technical and scientific communication and diffusion of innovation

4.1 Creation of communication initiatives to bring science to the whole scientific community	Indicators	Starting date	Planned duration	Planned expenditure	Update
Activities associated with ESOF 2020: proESOF 2020	127 PROESOF events realized	From 2018	Multiannual	€ 550.000 (Regional funding)	<p>319 PROESOF proposals received (on December 2019), of which:</p> <ul style="list-style-type: none"> 2018 -> 39 2019 -> 123 2020 -> 150 <ul style="list-style-type: none"> Science2Citizen: 240 Science2Hard Science: 43 Science2Medicine: 35 Science2Business: 26 Science2Humanities: 20 Science2Policy: 18 Science2Communication: 17 <p>(some proposals belong to more than one topic)</p> <p>111 proposals for the Science in the City Festival.</p>