



Sis
FVG



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA

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

Sis FVG - SCIENTIFIC&INNOVATION SYSTEM OF THE FRIULI VENEZIA GIULIA REGION

1 March 2017

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AREA Science Park

The new Programme Agreement - A chronicle

- *2004, January the 27th*: signature of the Programme Agreement for the Coordination Network of the Research Institutions of the Friuli Venezia Giulia region by The Ministry of Foreign Affairs and International Cooperation (MAECI), the Ministry of Education, Universities and Research (MIUR) and the Autonomous Region of Friuli Venezia Giulia
- *2016, August the 3rd*: signature of the Agreement for the enhancement of the Scientific & Innovation System of the Friuli Venezia Giulia region (**SiS FVG**) by MAECI, MIUR and the Autonomous Region of Friuli Venezia Giulia. The new Agreement replaces the previous one



SiS FVG at a glance

DURATION: 5 years (it may be renewed with the consent of the parties)

AUTHORITIES: a Steering Committee, which presents annually to MAECI, MIUR and Autonomous Region of Friuli Venezia Giulia the operational objectives and the activities to be developed, **and an Annual Assembly** focused on the activities of research and scientific institutions involved on issues of regional interest

STAKEHOLDERS: 3 subscribers Bodies + 18 public research institutions, universities, international research organisations and Science and Technology Parks supervised by MAECI, MIUR and Autonomous Region of Friuli Venezia Giulia with registered or operational headquarters in Friuli Venezia Giulia region



Sis FVG - List of partners

1. *Regione Autonoma Friuli Venezia Giulia*
2. *Ministero degli Affari Esteri e della Cooperazione Internazionale (MAECI)*
3. *Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)*
4. *AREA Science Park*
5. *Università degli Studi di Trieste*
6. *Università degli Studi di Udine*
7. *SISSA - Scuola Internazionale Superiore di Studi Avanzati*
8. *Elettra - Sincrotrone Trieste SCpA*
9. *Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS*
10. *CNR - Consiglio Nazionale delle Ricerche, sedi operative FVG*
11. *INAF-Osservatorio Astronomico di Trieste*
12. *INFN - Istituto Nazionale di Fisica Nucleare, Sezione di Trieste*
13. *Conservatorio Statale di Musica "Giuseppe Tartini" di Trieste*
14. *Conservatorio Statale di Musica "Jacopo Tomadini" di Udine*
15. *ICGEB - International Centre for Genetic Engineering and Biotechnology*
16. *The Abdus Salam International Centre for Theoretical Physics - ICTP*
17. *TWAS - The Academy of Sciences for the Developing World*
18. *IAP - InterAcademy Partnership*
19. *Polo Tecnologico di Pordenone*
20. *Consorzio Innova FVG*
21. *Friuli Innovazione Centro di Ricerca e di Trasferimento Tecnologico*

S3 - AREAS OF SPECIALISATION AND PATHS OF DEVELOPMENT



1) AGRI-FOOD

Industrial design;
Innovative product storage systems;
Smart packaging;
Chemical analysis.

2) STRATEGIC PRODUCTION CHAINS

a) Metalworking chain

Technologies for the numerical modelling of processes and products;
Methods and technologies for integrated design;
Intelligent machines.

b) Home system chain

Technology related materials;
Methods and technologies for rapid design;
Technologies for energy efficiency of buildings;
Cloud Computing technologies.

3) MARITIME TECHNOLOGIES

Methodologies for the design and development of new products, processes and services;
Green technologies and energy efficiency;
Technology for safety.

4) SMART HEALTH

Biomedical, in vivo and in vitro diagnostics;
Medical informatics and bioinformatics;
Innovative therapy;
Ambient Assisted Living - AAL.

5) CULTURE, CREATIVITY AND TOURISM

Technologies for the conservation and enhancement of goods and products;
Geomatics and image processing;
Social platforms and sharing.

SiS FVG - A multidisciplinary network

SOCIO-HUMANISTIC AREA:

Social Sciences, Economics, Statistics and Human Sciences. Studies and research on social and economic development of border areas; cooperation projects with a focus on Central and South-Eastern Europe

SCIENTIFIC&TECHNOLOGICAL AREA:

Natural Sciences, Chemistry, Physics; Maths, Engineering, Nanotechnology and Geosciences. Research in Astronomy and Astrophysics; scientific activities for the knowledge of the Earth and its natural resources; research on Green Economy and Blue Growth; advanced studies on innovative materials; international cooperation activities and transfer of knowledge for the benefit of developing countries

LIFE SCIENCES AREA:

Biotechnology; Cognitive Sciences and Medical and Surgical Sciences. R&D activities in the field of Genomics, Bioinformatics, Molecular Oncology and Immunology; studies on Neurobiology, Diagnostics and Innovative Therapies

SiS FVG - Management and Implementation

- **Regional Authority responsible for Research (Education, Training and Research Area):** regional structure in charge of the management of the Agreement
- **AREA Science Park (Park Development and Research Coordination Office):** supports the implementation of the SiS FVG activities.

AREA Science Park drafts an annual operational plan of activities, in compliance with the Steering Committee's indications. The Plan is then approved by the Regional Authority, MAECI and MIUR.

SiS FVG - Aims and Objectives

Enhancing the SiS FVG, in particular:

1. Foster the coordination of scientific activities through the creation of a "scientific network of excellence";
2. Foster the best link between the scientific system and the economic and territorial bodies through the rationalisation of the regional structures operating in Innovation and Technology Transfer;
3. Foster the improvement of the national and international visibility of the regional Scientific System through the development of services for Internationalisation in favour of the whole community of the regional researchers;
4. Foster the technical and scientific dissemination and spread of the knowledge on Innovation.

SiS FVG - Activities

- Strengthening of integrated research infrastructures and development of joint research projects;
- Consolidation of partnerships and international cooperation initiatives for the benefit of the System;
- Strengthening of services for Internationalisation provided by the Welcome Office Friuli Venezia Giulia Office – welcoming, training and cultural exchange among scientists, researchers and students;
- Carrying out studies and monitoring patterns on flows of incoming and outgoing international researchers and students;
- Events, workshops and periodic dissemination of information for the general public and the scientific and business communities.

AREA SCIENCE PARK: A DRIVER OF PUBLIC/PRIVATE PARTNERSHIPS

RESOURCES TO
CREATE KNOWLEDGE

R&D

KNOWLEDGE TO
DRIVE DEVELOPMENT



EVOLUTION STRATEGY: 4 LINES OF ACTIVITY



■ ■ ■ ■
CAMPUS

■ ■ ■ ■
BUSINESS CREATION

■ ■ ■ ■
INNOVATION

■ ■ ■ ■
HIGH TECHNOLOGY

CAMPUS

MANAGEMENT AND DEVELOPMENT OF THE SCIENCE PARK

Since **1978** the leading Italian science and technology park. Public Research Body, under the control of **MIUR**



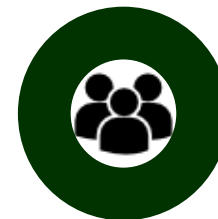
Hosts **87 High-Tech R&D Centers**, helping them to grow.
79 private companies
8 public research bodies



> 9 m€/year from competitive projects



3 campuses for R&D activities



122 direct staff
2.600 employed in the 3 campuses



BUSINESS CREATION

CREATION AND DEVELOPMENT OF HIGH TECH START-UPS
THANKS TO THE CERTIFIED INCUBATOR INNOVATION FACTORY

1600 project ideas evaluated



47 start-ups supported



16 startups created:



Consolidated methodology
tried and tested in the field
(*grant for equity*)

4,5 M€ from Venture capital
providers (Invitalia Ventures SGR,
Unicredit, Intesa San Paolo etc.)
and industrial Partner

AMPED Srl
MODEFINANCE Srl
G&LIFE Spa
SBS Srl
BILIMETRIX Srl
SERVERNET Srl
GENIUSCHOICE Srl
BY Srl
FOREVER IDENTITY Inc.
THE JONATHAN
PROJECT Srl
UELCOM Srl
INNERTOURS Srl
SOLETHEN Srl
WAWAY Srl
CERVELLOTIK Srl
CLICCA ENERGIA Srl

INNOVATION

VALORIZATION OF RESEARCH RESULTS AND SERVICES TO INDUSTRY, INTERNAZIONALIZATION AND NETWORKING, ADVANCED TRAINING, COORDINATION OF FVG'S RESEARCH ORGANISATIONS

Open Innovation System FVG:
on behalf of the regional government coordinates the regions science parks to supply innovation services to industry and researchers



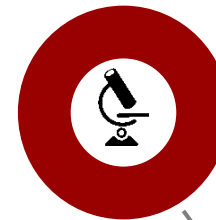
Advanced Training for multiple target groups (youth, innovators, businesses, research organizations etc.): 5000 training hours/year



Exports **formats nationally** (Basilicata, Calabria) and **internationally** (Balkans)



Euro projects: 3 Horizon 2020 financed, 4 InterReg programs in evaluation stage



Coordinates the activities of **47 Research Centers** // manages services for incoming and outgoing **international mobility** of researchers

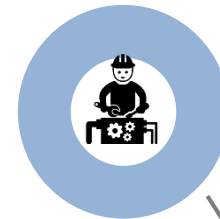
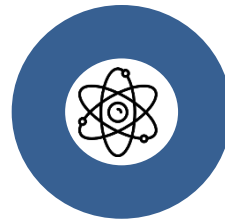
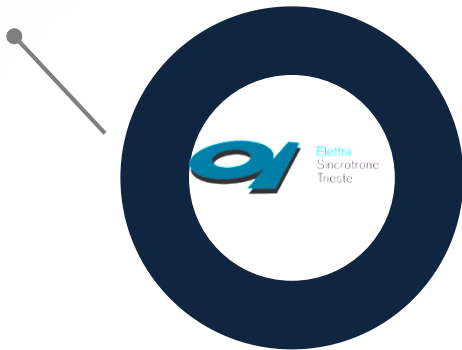
HIGH TECHNOLOGY

VALORIZATION OF PUBLIC TECHNOLOGY RESEARCH FACILITIES FOR INDUSTRIAL R&D

Majority Shareholder of **Elettra Sincrotrone**, international center specialized in the generation of high quality light sources – synchrotron and free electron laser – for applications in material science biotechnology etc.

400 employees, **32 beam lines**

5.000 hours light/year,
>1000 users from 50+ countries



Manages **OPEN LAB**: large scale research infrastructure for industry integrated with the laboratories of the Basovizza Campus

Serves manufacturing industry to develop new products and process with **advanced technologies and innovative materials**

Scientific and academic centres of the Friuli Venezia Giulia region



UNITYFVG
United Universities of FVG

► Higher Education in Friuli Venezia Giulia



**University of Trieste - University of Udine - SISSA
Music Conservatory "G. Tartini" - Music Conservatory "J. Tomadini"**



- CAMPUS
- BUSINESS CREATION
- INNOVATION
- HIGH TECHNOLOGY



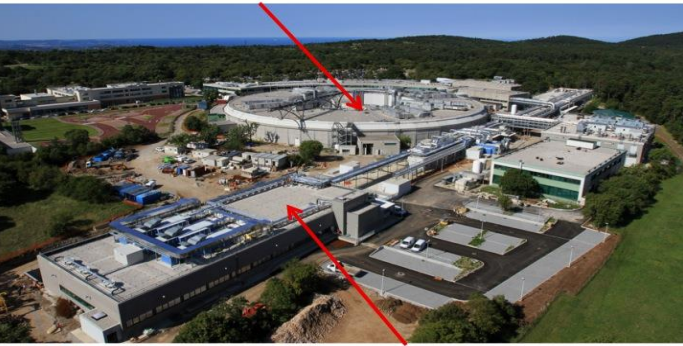
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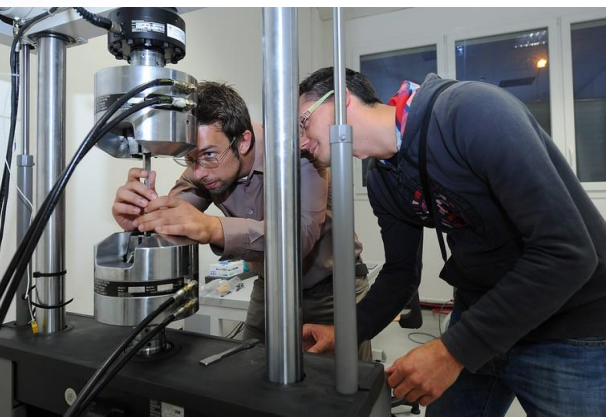
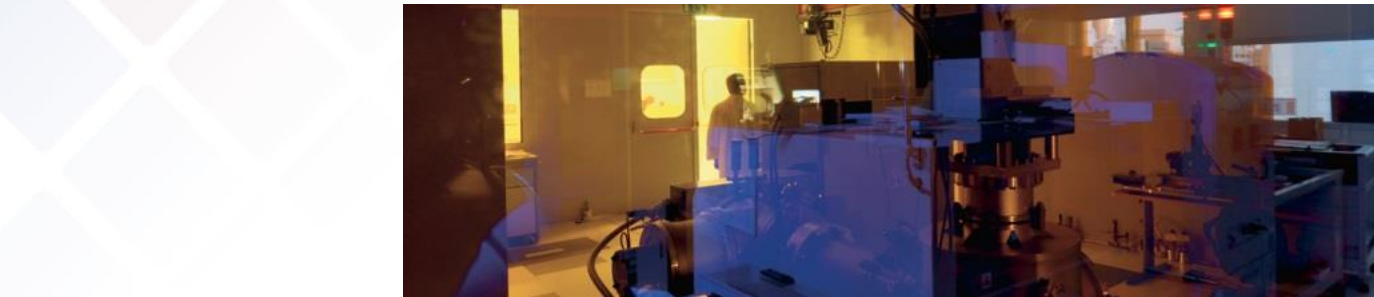
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Science and Technology Parks (STPs) research infrastructures: nodes for international scientific cooperation

Elettra 2.4 GeV 3rd generation Synchrotron Radiation Facility



FERMI 1.5 GeV seeded Free Electron Laser Facility



The International community in Friuli Venezia Giulia region

In 2015, 14.073 international students, research collaborators, researchers and teaching staff (employed, enrolled or in incoming mobility, including for short periods of time) chose one of the scientific institutions in Friuli Venezia Giulia region.

In particular:

3.189 students

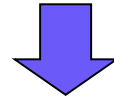
**10.884 research collaborators,
researchers and teaching staff**



Source: "Mobility of Knowledge 2016 - Survey"

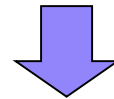
Implementation of European Priorities at regional level

Intersectoral
(public-private)



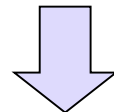
Enhancement of Research and of the scientific potential in the region of Friuli Venezia Giulia for industrial and social purposes

Internationalisation of human capital



Strengthening the role of international research centres of the Friuli Venezia Giulia region

Science and Society (communicating Science)



Scientific dissemination



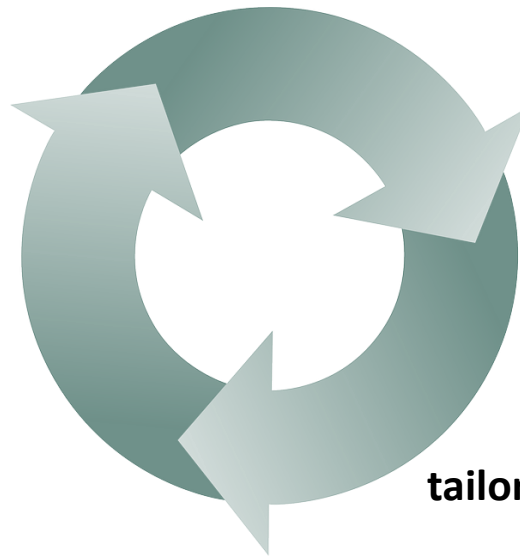
Enhancing talented human capital



**Training paths on
EU funding, international mobility
opportunities and career development,
Job recruiting events**



**International mobility
programmes**



**Helpdesk on
EU funding and opportunities**



**One-stop-shop for
tailored advice on relocation**



- CAMPUS
- BUSINESS CREATION
- INNOVATION
- HIGH TECHNOLOGY



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Welcome Office Friuli Venezia Giulia

about us contact us news

www.welcomeoffice.fvg.it

welcomeoffice
FRIULI VENEZIA GIULIA

Information and tailored assistance to international students and researchers before and during their stay in Friuli Venezia Giulia

The new website is online since december 2016

AREA
SCIENCE PARK

CAMPUS
BUSINESS CREATION
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Incoming services: before and upon arrival in Friuli Venezia Giulia region



International and incoming students and researchers

To get updated information before leaving and support upon arrival

Universities and Research Centres

To improve their incoming services and optimise time and resources

Local Authorities

To strengthen the collaboration among them and the regional Scientific System

Integrated customised pre-arrival information and on-site assistance to students and researchers

Updated information on:

- ❖ Entry and residence procedures
- ❖ Health insurance
- ❖ National taxation and social security system
- ❖ Living and social life
- ❖ Funding opportunities, events, workshops

Tailored assistance on:

- ❖ Accommodation
- ❖ Entry and Residence procedures
- ❖ Health insurance
- ❖ Daily life aspects
- ❖ Family reunion
- ❖ Administrative formalities



TALENTS FVG Strategy



An internationalisation strategy to attract foreign researchers and students on the regional territory

Aims:

- **strengthen the qualified human resources potential;**
- **foster job creation and employability** of graduates and PhD;
- support the **development of long-term cooperation** between regional enterprises and scientific institutions with foreign research centres.

Activities:

- implementation of **international mobility projects;**
- management of integrated **incoming services** (EURAXESS Esc and Welcome Office Friuli Venezia Giulia);
- Involvement of the regional scientific system in **worldwide networking programmes and initiatives** (e.g., EURAXESS network and "Science Without Borders" mobility programme).

Current programme: [TALENTS³ Project](#)



TALENTS FVG Strategy: some figures

- ❖ **4 international mobility programmes realised**
- ❖ Financial support: AREA Science Park, European Commission (COFUND), Friuli Venezia Giulia Autonomous Region, ESF - European Social Fund
- ❖ **Incoming and outgoing mobility scheme**
- ❖ **37 fellowships**
(22 incoming e 15 outgoing)
- ❖ **21 male researchers vs 16 female researchers**
- ❖ Increasing Non-EU incoming researchers
(from Africa, North America, Australia, India and China)





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Thankyou for the attention!

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THANK YOU!

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