

INVEST IN LAZIO

INVEST IN LIFE SCIENCES



Lazio a Region of Beauty and Innovation



Cofinanziato
dall'Unione europea



REGIONE
LAZIO



LAZIO
INNOVA



REGIONE
LAZIO

WELCOME TO LAZIO

REGION OF ROME, HEART OF EUROPE AND CENTRE OF THE MEDITERRANEAN AREA

Lazio boasts a geopolitical position of global importance: in the heart of Europe and at the center of the Mediterranean region, a crossroad towards the Middle East and South-East Asia.

Lazio is the 2nd Italian Region for Gross Domestic Product (GDP) with 186 Bn euros, contributing to 11,3% of Italian national GDP.

Lazio is the Italian Region with the highest level of specialization in manufacturing and in high-tech knowledge intensive sectors

Lazio's share of exports in global leading sectors is twice the national average (in percentage terms 72% vs 32%).



UP to 2 hours flight UP to 3 hours flight UP to 4 hours flight



REGIONE
LAZIO

LAZIO, A CONNECTED REGION

LAZIO REGION IS F A STRATEGIC LOGISTICAL PLATFORM IN ITALY, IN THE MEDITERRANEAN AREA AND IN EUROPE



2 International Airports (Fiumicino and Ciampino, over 50 million passengers per year). Fiumicino Leonardo Da Vinci Airport is the first stopover in Italy and the first European airport in terms of traveler satisfaction.



Civitavecchia Port is the major Italian touristic port, the 2nd in Europe and 7th in the world for number of passengers (3 million per year). It boasts the handling 10 million tons of goods a year.



2 main railway stations (Termini and Tiburtina) which guarantee high speed rail connections with all major Italian and European cities. Lazio is part of the Trans-European Networks - Transport (TEN-T).

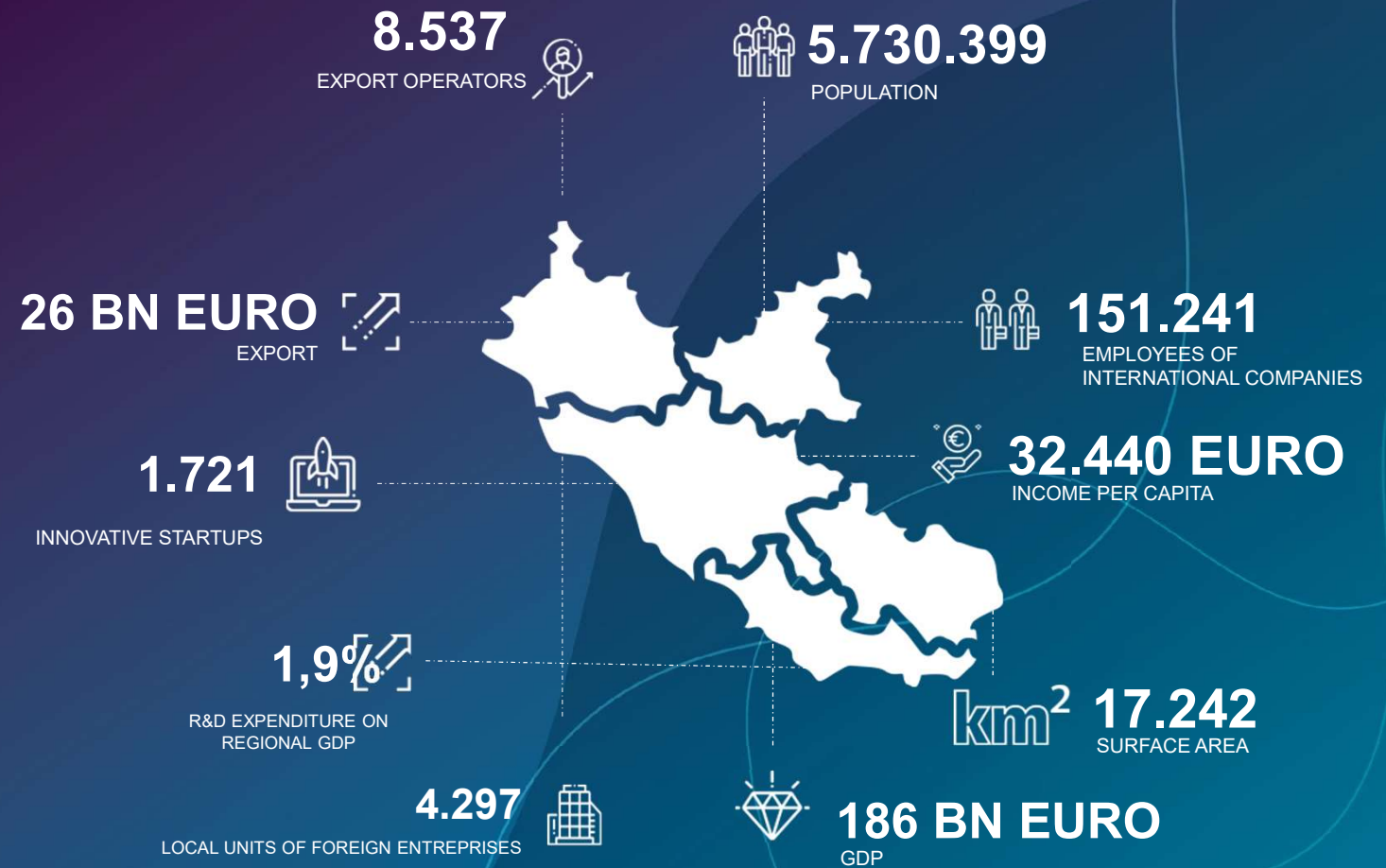


Main Highways: A1 Milano-Roma-Napoli, A12 Roma-Civitavecchia, A24 Roma-L'Aquila. The extension of the road network in Lazio Region consists of approximately 10 thousand kilometers, of which 473 are motorways and 553 national roads.



REGIONE
LAZIO

LAZIO KEY INDICATORS



ALL ROADS LEAD TO ROME

THE STRATEGIC ROLE OF ROME FOR THE ATTRACTIVENESS OF THE LAZIO REGION

TOURISM



Rome, with over **20 million tourists a year**, is the most visited city in Italy and one of the most visited in the world.

VATICAN STATE



Rome is home to the **Vatican State**, with its own 85 diplomatic representations of the main countries, residence of the Pope and home to the Basilica of St. Peter, the Vatican Museums and the Sistine Chapel.

DIPLOMACY



Rome hosts 209 diplomatic missions (embassies, consulates, permanent missions and other diplomatic representations) according to Global Diplomacy Index 2019.

ROME AS A STRATEGIC HUB



2 International airports: Fiumicino and Ciampino. Fiumicino Airport is connected to Rome by the direct train "Leonardo Express". Travelling time: only 32 minutes, trains run every 15 min.



3 major railway stations: Termini, Tiburtina and Ostiense.
Head office of the important logistics center: CAR - the ROME AGRI-FOOD CENTRE (agroalimroma.it).

INTERNATIONAL ORGANISATIONS HEADQUARTERS BASED IN ROME



FOOD AND AGRICULTURAL ORGANISATION



INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT



WORLD FOOD PROGRAMME



INTERNATIONAL GENETIC RESOURCES INSTITUTE



INTERNATIONAL CENTRE FOR THE STUDY OF THE PRESERVATION AND RESTORATION OF CULTURAL HERITAGE

HEALTH EXCELLENCES



32 HOSPITAL



4 UNIVERSITY POLYCLINICS



SISTEMA SANITARIO REGIONALE
IRCCS
ISTITUTI FISIOTERAPICI
OSPITALIERI

8 IRCCS, i.e. **HOSPITALS OF EXCELLENCE** that pursue **research purposes**, mainly clinical and translational, in the biomedical field and in the organization and management of health services. Among them, the **INMI SPALLANZANI HOSPITAL** and the **IFO HOSPITAL**.

EBRI

EUROPEAN BRAIN RESEARCH INSTITUTE

IRBM

IRBM - "PIERO ANGELETTI" MOLECULAR BIOLOGY RESEARCH INSTITUTE



CENTRES OF EXCELLENCE IN THE FIELDS OF ONCOLOGY, NEUROSCIENCE, GENETIC THERAPY AND STEM CELLS



REGIONE
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WHY CHOOSE TO INVEST IN LAZIO



LAZIO, REGION OF INNOVATION

ONE OF THE MOST IMPORTANT R&D AND INNOVATION SYSTEMS IN ITALY AND WORLD CLASS INTERNATIONAL EXCELLENCES



LAZIO, REGION OF KNOWLEDGE

IS ONE OF THE FIRST ITALIAN REGION FOR RESEARCHERS, UNIVERSITIES AND PUBLIC AND PRIVATE RESEARCH INSTITUTIONS



LAZIO, REGION OF CULTURE AND CREATIVITY

FIRST ITALIAN REGION BY SHARE OF ADDED VALUE AND EMPLOYMENT PRODUCED BY THE CULTURAL AND CREATIVE PRODUCTION SYSTEM



LAZIO, 8 SECTORS OF EXCELLENCE

FOR INNOVATION, RESEARCH AND HUMAN CAPITAL:

1. LIFE SCIENCES & BIOTECH
2. AEROSPACE & SPACE INDUSTRY
3. TOURISM, CREATIVE-CULTURAL & DIGITAL INDUSTRIES
4. AUDIOVISUAL & FILM INDUSTRY
5. ICT
6. ENGINEERING & AUTOMOTIVE
7. AGRIFOOD
8. BLUE ECONOMY

LAZIO, REGION OF INNOVATION

- Lazio hosts global industrial players from all over the world that run their R&D activities
- Lazio hosts many public and private research centres
- Tech Districts & Clusters play a role as aggregators, knowledge enablers and in transferring technology

4 

SCIENTIFIC AND
TECHNOLOGICAL
PARKS

3 

TECHNOLOGICAL
DISTRICTS

6 

TECHNOLOGICAL
NATIONAL CLUSTERS

1.721 

STARTUPS – Newly established
innovative startups in the last 3
years: +59% (Italy +45%)



3.7 BN€
R&D EXPENDITURE



3.5 BN€
R&D
EXPENDITURE



62.981
TOTAL EMPLOYED
IN R&D



18
NATIONAL
RESEARCH CENTRES

LAZIO, REGION OF KNOWLEDGE

LAZIO IS A TERRITORY RICH IN HUMAN CAPITAL AND IT IS AMONG THE FIRST ITALIAN REGIONS FOR NUMBER OF RESEARCHERS, UNIVERSITIES AND PUBLIC AND PRIVATE RESEARCH INSTITUTIONS.

LAZIO IS ALSO ONE OF THE MOST SIGNIFICANT RESEARCH CENTRE IN EUROPE.

19 

Universities

- 6 Public
- 7 Private
- 6 Distance Learning Universities

44.599 

Graduates

- 24.860 Female
- 19739 Male

60% 

Graduates in science and economic

241.847 

University Student

82.000 

Scholarships

13.201 

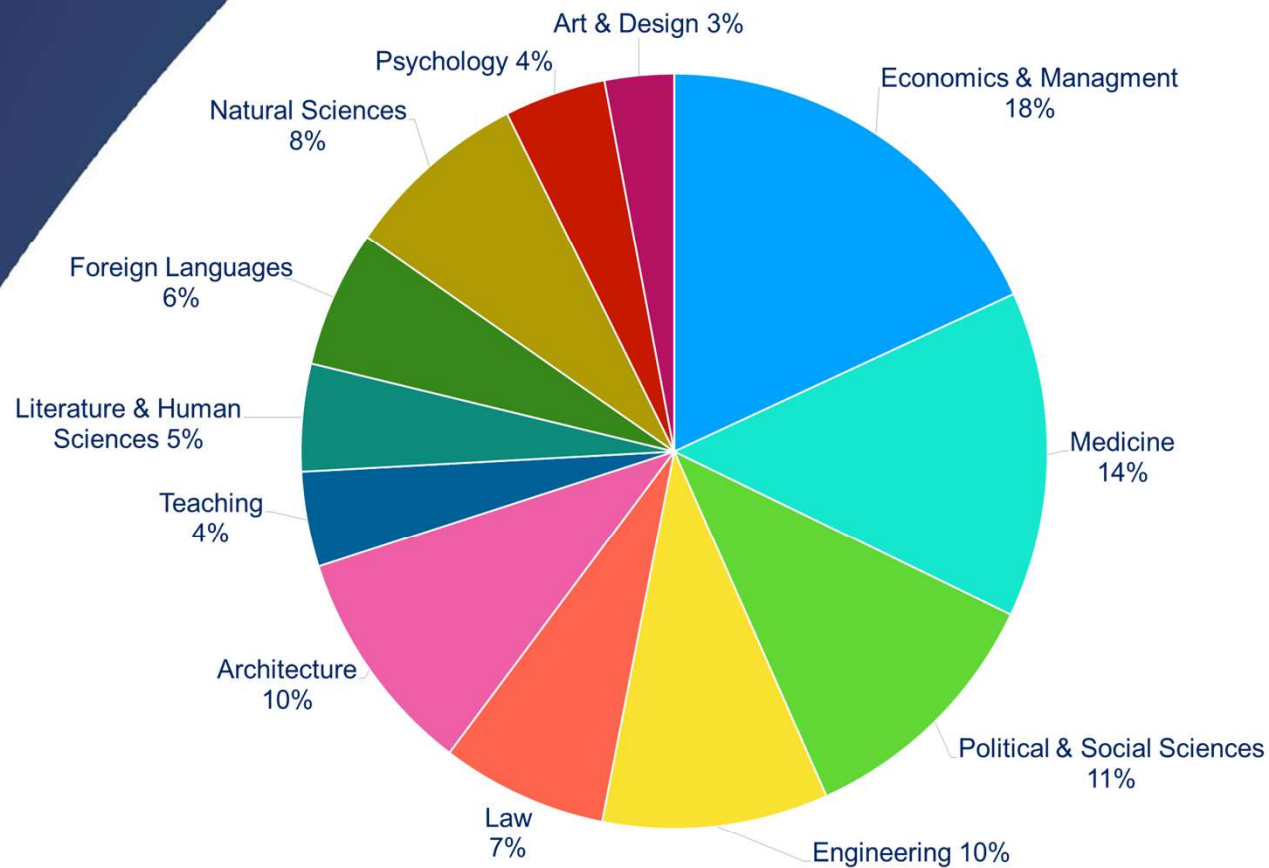
University Professors and Researchers



REGIONE
LAZIO

THE UNIVERSITY SYSTEM

Graduates for degree courses



LAZIO, REGION OF CULTURE AND CREATIVITY

- LAZIO HOSTS MOST IMPORTANT MONUMENTS AND UNIESCO SITE.
- ROME AND THE VATICAN CITY, ARE AMONG THE TEN MOST FAMOUS DESTINATIONS IN THE WORLD, WITH A UNIQUE ARTISTIC AND CULTURAL HERITAGE.
- LAZIO HOSTS MOST IMPORTANT MONUMENTS: FLAVIAN AMPHITHEATER-COLOSSEUM, PALATINE HILL AND PALATINE MUSEUM, TRAJAN'S MARKETS AND FORUM, BATHS OF CARACALLA, OSTIA ANTICA, VILLA ADRIANA E VILLA D'ESTE, ABBAZIA DI MONTECASSINO.

 Over
250



6
UNESCO
SITES



36
MONUMENTS



4
CENTRAL INSITUTES
OF THE MINISTRY OF
CULTURAL



30
ARCHEOLOGICAL
AREAS AND PARKS



LAZIO
INNOVA



REGIONE
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SECTOR OF EXCELLENCE

LIFE SCIENCES

LAZIO IS THE 2ND ITALIAN HUB AND ONE OF THE MOST IMPORTANT IN EUROPE FOR THE LIFE SCIENCES INDUSTRY, WITH RELEVANT INTERNATIONAL PLAYERS AND HIGHLY INNOVATIVE LOCAL SMES LINKED WITH THE NATIONAL PUBLIC RESEARCH NETWORK.

LAZIO HEALTH TECHNOLOGICAL CLUSTER (DTB) was established in 2008 and is one of the founding members of the Italian National Technological Cluster of Life Sciences **ALISEI**. 

MAIN SPECIALIZATIONS

- Pharmaceutical innovative drugs
- New vaccines (one of the most effective anti-Ebola vaccines is from Lazio) and biomedical production
- Pre-clinical development of inhibitors for the treatment of solid cancers
- E-Health
- Medical devices.

 **+300**
COMPANIES

 **9BN €**
ANNUAL
TURNOVER

 **8BN €**
EXPORTS

 **22,000**
EMPLOYEES

 **10,000**
RESEARCHERS

 **26**
SPECIALIZED
RESEARCH CENTRES

 **8**
UNIVERSITIES WITH
BIOMEDICINE
DEPARTMENTS

SECTOR OF EXCELLENCE

BIOTECH

LAZIO IS THE SECOND REGION IN TERMS OF NUMBER OF BIOTECH COMPANIES AND TURNOVER IN ITALY. OVER THE LAST FIVE YEARS, LAZIO HAS RECORDED AN INCREASE IN ITS SHARE FROM 17% TO 21% IN TERMS OF INVESTMENTS IN BIOTECH

Over the last years, **BIOTECHNOLOGY** has expanded to include new and diverse sciences, such as GENOMICS, RECOMBINANT GENE techniques, applied IMMUNOLOGY, and development of PHARMACEUTICAL therapies and DIAGNOSTIC TESTS. It includes also the commitment to health to create **vaccines, such as that against Covid-19.**

THE BIOTECHNOLOGY INDUSTRY IN ITALY:

- a growing and research-intensive sector
- the growth trend continues for all the main indicators
- biotech is characterized as one of the main national science-based sectors
- biotechnologies are an innovative lever for the bio-economy and sustainable economic development

70 

BIOTECH COMPANIES
(ABOUT 10% OF THE
NATIONAL TOTAL)

26% 
CONTRIBUTION TO
BIOTECH
TURNOVER









2.7 BN € 
BIOTECH TURNOVER

2.200 
BIOTECH
EMPLOYEES

2.075 
BIOTECH
RESEARCHERS

ACADEMIC HUMAN CAPITAL

GRADUATES (2019) AND STUDENTS (2019/2020)
IN **LIFE SCIENCES**-RELATED DISCIPLINES

UNIVERSITY COURSES	GRADUATES	STUDENTS
 PHARMACY AND INDUSTRIAL PHARMACY	364	4,060
 BIOTECH AND BIOTECH TRADES	410	2,103
 BIOLOGY	931	4,522
 BIOMEDICAL ENGINEERING	183	655
 MEDICINE AND DENTISTRY	1,503	11,312
 HEALTHCARE ASSISTANCE	3,532	13,856
 NUTRITION AND HEALTH SCIENCE	389	2,220
 CHEMISTRY AND CHEMISTRY TRADES	511	2,662



7,823

GRADUATES IN LIFE SCIENCES -
RELATED DISCIPLINES

41,390

STUDENTS IN LIFE SCIENCES -
RELATED DISCIPLINES

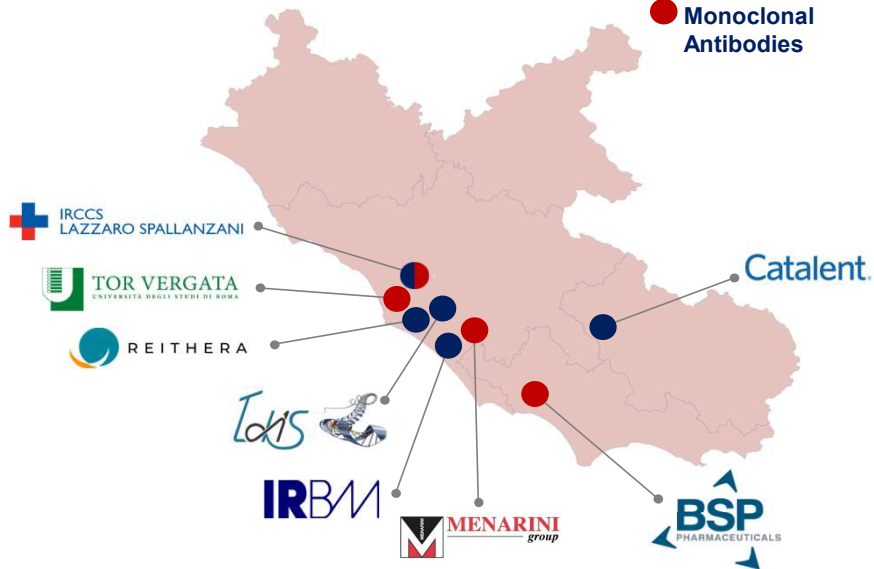
AT THE FOREFRONT OF THE COVID-19 RESPONSE

HIGH CONCENTRATION OF NATIONAL AND INTERNATIONAL PLAYERS THAT HAVE IMPLEMENTED A SET OF INITIATIVES TO LEAD THE COVID-19 RESPONSE:

KEY PLAYERS BY AREA OF SPECIALISATION

● Vaccines

● Monoclonal Antibodies



Focus on Biotech Sector



Spallanzani Hospital is an international excellence in terms of clinical research.

In February 2020, it was among the first research institutes to isolate the DNA sequence of the Coronavirus.

Nowadays, Spallanzani Institute is one of the leading international centres in the COVID-19 response – currently supporting the development of the Italian COVID-19 vaccines and monoclonal antibodies

COVID-19 VACCINES IN LAZIO



Biopharmaceutical company based in Castel Romano (Rome).

Reithera is developing and testing a **COVID-19 vaccine** (GRAd-COV2). In January 2021, the company signed the **Development Contract with Invitalia** to support an industrial and research investment of **€ 81 mln.**

In March 2021 Reithera started the **Phase 2 of the clinical trials** along with the INMI Spallanzani Hospital (Rome).



IRBM of Pomezia (Rome) contributed to the development of the **AstraZeneca and University of Oxford COVID-19 vaccine** as a research partner.

Catalent, the leading global provider of advanced delivery technologies, development, and manufacturing solutions for drugs, biologics, cell and gene therapies, consumer health products, **is taking care of the bottling of the AstraZeneca's as well as Johnson & Johnson's COVID-19 vaccines in its production site in Anagni.**

The Anagni **Catalent** plant **currently produces 1.5 mln dosis of AstraZeneca vaccine per day**



Takis Biotech is a **biotechnology company** based in **Rome**, with over 10 years of experience in drug discovery.

In partnership with Rottapharm Biotech, Takis is developing the second Italian COVID-19 vaccine (Covid-eVax).

In March 2021, the company **started the Phase 1 of the clinical trials.**



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COVID-19 MONOCLONAL ANTIBODIES IN LAZIO



Founded in 2006, **BSP Pharmaceuticals** is based in **Latina, 60 km from Rome**.

Since the end of 2020, BSP Pharmaceuticals has been producing monoclonal antibodies created by the US-company **Eli Lilly's** and approved **AIFA – the Italian Drug Agency**.

In 2021, it is expected that the pharma company will also **supply the Italian market with Lilly's antibodies**.



Tor Vergata Universities Laboratories have been studying **monoclonal antibodies** for months, biological products capable of preventing the virus from entering host cells and preventing their replication.

The Lazio Region has chosen to focus on the **new technique** developed in Tor Vergata, which uses **synthetic antibodies, potentially able to adapt to virus mutations**.

In October 2020, **Lazio Region and Tor Vergata Universities** have signed a **MoU** to support with 2 million euros "research and experimentation for the development of a drug capable of treating Covid-19 patients in as short as possible". Project partners are INMI Spallanzani Hospital (Rome) and Toronto (Canada).



Partnering with **Tuscany Life Sciences Foundation** on the **MabCo19 project**, which aims at developing producing monoclonal antibodies against the COVID-19.

Menarini's **biotech plant in Pomezia** (Rome) started the production of the new drug, which consists of a mixture of **monoclonal antibodies that neutralise the SARS-CoV-2 spike protein**.



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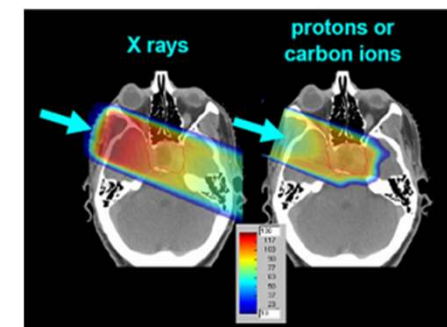
BEST PRACTICE

TOP IMPLART – ONCOLOGICAL THERAPY WITH PROTONS

PARTICLE ACCELERATORS AND MEDICAL APPLICATIONS LABORATORY



ITALIAN NATIONAL AGENCY FOR NEW TECHNOLOGIES,
ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT



The accelerator group of the ENEA Frascati Research Centre is part of the FSN-TECFIS-APAM Laboratory, which develops particle accelerators for medical, industrial and research applications.

The aim of **TOP-IMPLART PROJECT**, developed by the **ENEA FRASCATI RESEARCH CENTER** (about 20 km from Rome), **ISS - Italian National Institute of Health** and **IFO - Regina Elena National Cancer Institute of Rome**, is to develop a **PROTON THERAPY CENTER** based on a sequence of linear accelerators and designed with three treatment rooms: one with a 150 MeV beam for superficial tumors and two with a 230 MeV beam for deep tumors.

The energy of 150 MeV (corresponding to a penetration in tissue of about 15 cm) is a milestone in design being useful for the proton therapy treatment of almost 50% of tumors based on their position and depth (including ocular melanoma, head-neck tumors, pediatric tumors, and more superficial tumors).

The program was funded by the Lazio Region. The activities have started in 2013 and the deadline of the agreement is currently February 2022.

<http://www.frascati.enea.it/accelerators/Sito/index.htm>



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Castel Romano Technology Park TECNOPOLO SpA



BUSINESS ENVIRONMENT

THE CASTEL ROMANO TECHNOLOGY PARK IS ONE THE **MAIN ITALIAN CENTERS FOR APPLIED RESEARCH AND A FIRST-CLASS LOCATION FOR BUSINESS**, IT IS CONNECTED TO THE MOST QUALIFIED NATIONAL AND INTERNATIONAL PARTNERS FOCUSED ON **HEALTH AND LIFE SCIENCES**. IT IS **PART OF TECNOPOLO S.P.A.**, A PUBLIC COMPANY CREATED IN 1995 WITH THE AIM TO PROMOTE AND IMPROVE THE LOCATION AND DEVELOPMENT OF HIGH-TECH AND INNOVATIVE INITIATIVES

- PRESENCE OK KEY PLAYERS OF THE LIFE SCIENCES INDUSTRY
- INNOVATIVE INFRASTRUCTURES AND SERVICES
- STRONG LINKS WITH UNIVERSITIES AND RESEARCH
- MAIN AREAS OF EXPERTISE: ADVANCED MANUFACTURING, LIFE SCIENCES, NEW MATERIALS, GREEN ECONOMY

 **52**
HECTARES

 **400**
PEOPLE INVOLVED

COMPANIES AND RESEARCH CENTER

- NOUSCOM S.R.L.
- ALLEVAMENTI PLAISANT S.R.L.
- **REITHERA S.R.L.**
- **TAKIS S.R.L.**
- TESTING POINT 5 S.R.L.
- I.S.P.R.A. - ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE

C.H.I.CO – Cluster of Health Innovation and Community

www.clusterchico.eu

C.H.I.CO IS THE FIRST **HEALTH CLUSTER** CREATED IN THE LAZIO REGION. IT IS MADE UP OF 150 PRIVATE AND PUBLIC ENTITIES (COMPANIES, UNIVERSITIES, RESEARCH CENTRES AND HOSPITALS) WITH THE AIM TO DEVELOP **INNOVATIVE PROJECTS IN THE FIELD OF HEALTH AND WELLNESS.**

MAIN ACTIVITIES

- It supports the development of projects and partnerships thanks to its dynamic ecosystem
- It contributes to direct national strategies on the subject of Life Sciences
- It promotes synergy between **INDUSTRY** and **RESEARCH**
- It develops partnerships in the field of technology transfer and industrial cooperation
- It promotes the technological innovation of the production system, promoting the creation of start-ups and spin-offs
- **CHICO SINERGY**: matchmaking and networking tool - for the exclusive use of members - to promote and enhance innovative projects <http://www.clusterchico-synergy.eu/>
- **LIFESEEDER**: first equity crowdfunding platform dedicated to all those who wish to invest in Life Sciences <http://www.lifeseeder.com>

 **7 BN €**
REVENUES FROM THE
NETWORK

 **1,500**
PEOPLE INVOLVED

 **150**
PARTNERS

BUSINESS ENVIRONMENT



PARTNER C.H.I.CO



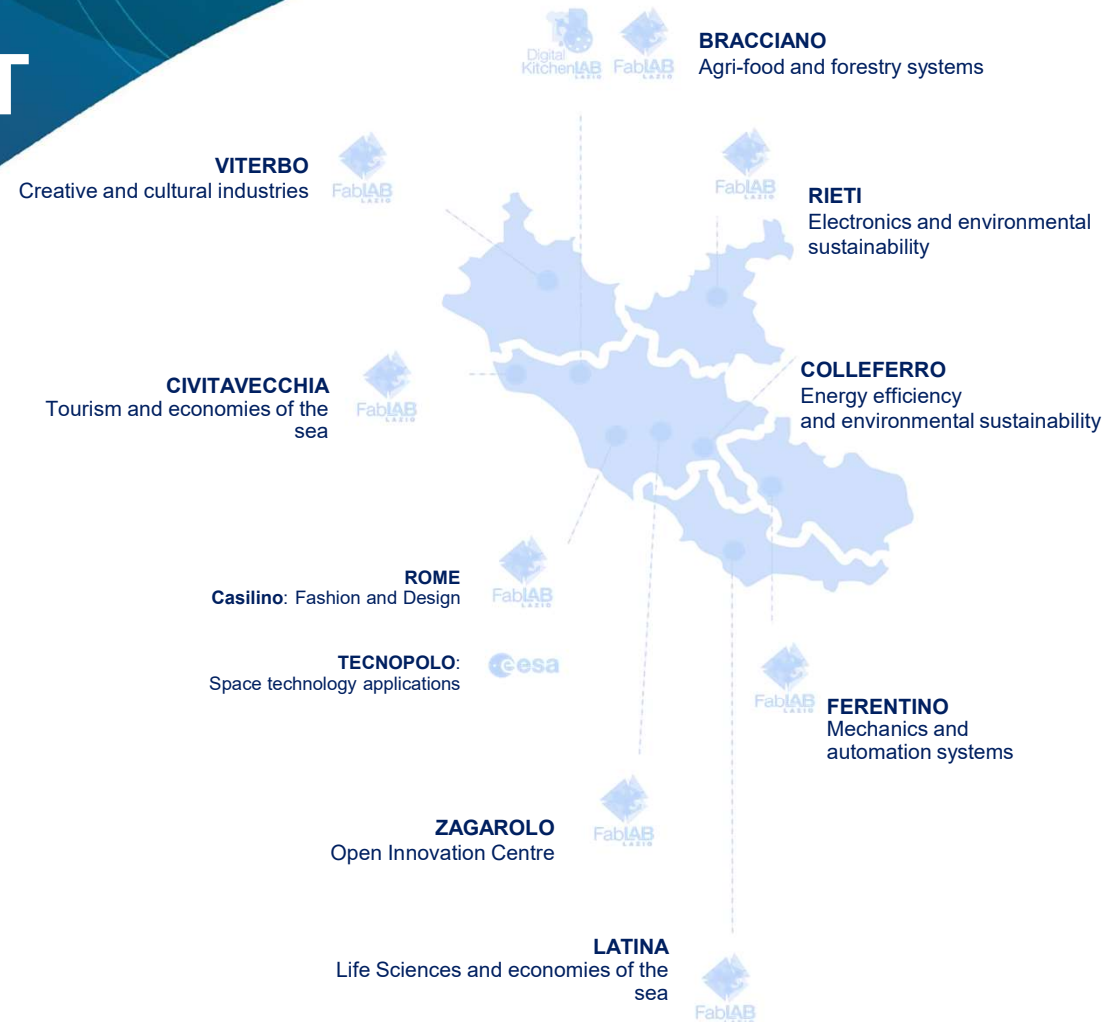
BUSINESS ENVIRONMENT

INNOVATION HUBS

“SPAZI ATTIVI” are hubs where citizens, startups, businesses and local authorities can gather and contribute to the growth of the territory. All services are offered with an aim to promote and generate innovation, assist development, creativity and dissemination of business culture

THERE ARE 10 “SPAZI ATTIVI” IN LAZIO, EACH ONE OF THEM IS CHARACTERIZED BY A MAIN AREA OF SPECIALISATION:

- **ROME Casilina**, Fashion And Design
- **Roma Tecnopolo**, Applications Of Space Technologies
- **Viterbo**, Cultural And Creative Industry
- **Rieti**, Electronics And Environmental Sustainability
- **Bracciano**, Agrifood And Forestry Systems
- **Ferentino**, Mechanics And Automation Systems
- **Colleferro**, Energy Efficiency And Environmental Sustainability
- **Latina**, Life Sciences And Blue Growth
- **Civitavecchia**, Tourism
- **Zagarolo**, Game, Culture And Tourism



BUSINESS ENVIRONMENT

BIG INTERNATIONAL PLAYERS



REGIONE
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BUSINESS ENVIRONMENT

R&D Network



Agenzia nazionale per le nuove tecnologie,
l'energia e lo sviluppo economico sostenibile



ISTITUTO NAZIONALE
DI ASTROFISICA
NATIONAL INSTITUTE
FOR ASTROPHYSICS



Agenzia
Spaziale
Italiana



National Institute for
Astrophysics



National Institute of
Geophysics and
Volcanology



ISPRA

Italian Institute for
Environmental Protection



Consiglio Nazionale delle Ricerche



Istituto Nazionale
di Alta Matematica



ISTITUTO NAZIONALE
DI GEOFISICA E VULCANOLOGIA



Istituto Nazionale di Fisica Nucleare



Bambino Gesù
FONDAZIONE



Consiglio per la ricerca in agricoltura
e l'analisi dell'economia agraria



International Center for Relativistic Astrophysics



MUSEO
STORICO DELLA FISICA
E
CENTRO
STUDI E RICERCHE
ENRICO FERMI



FONDAZIONE



SANTA LUCIA
NEUROSCIENZE
E RIABILITAZIONE



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LAZIO

LAZIO EXPORT DATA 2020

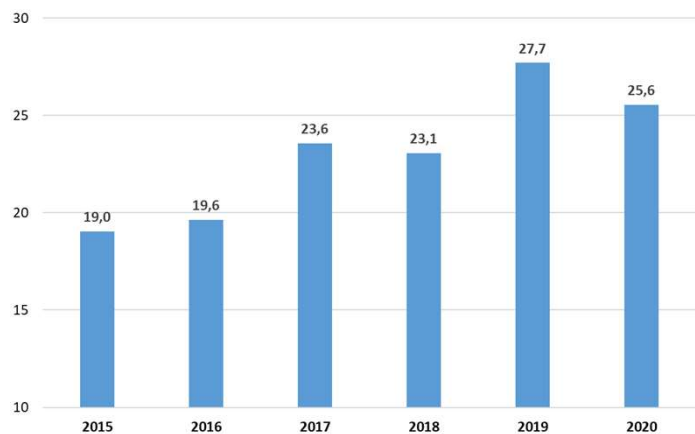


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LAZIO FOREIGN TRADE

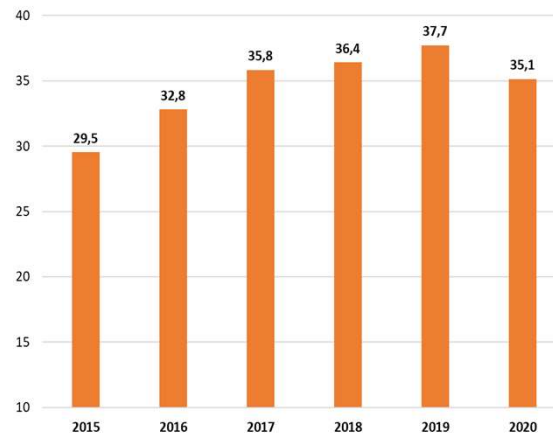
Export

(values in billions of euros)



Import

(values in billions of euros)



- In 2020 Lazio trade exchange value has been 60.7 BN of euros.
- Export amounted to 25.6 BN of euros.
- Despite of the reduction of export (-7.7%) due to pandemic crisis, in the period 2015- 2020 it increased of 34.2%.
- Import amounted to 35.1 BN of euros.

LAZIO COMPANIES ECONOMIC PERFORMANCE



461.071
Businesses
(Industry, Trade & Services)



382 Bn €
TURNOVER



85 Bn €
VALUE ADDED



32 Bn €
SALARIES



1.6 Mn
EMPLOYEES

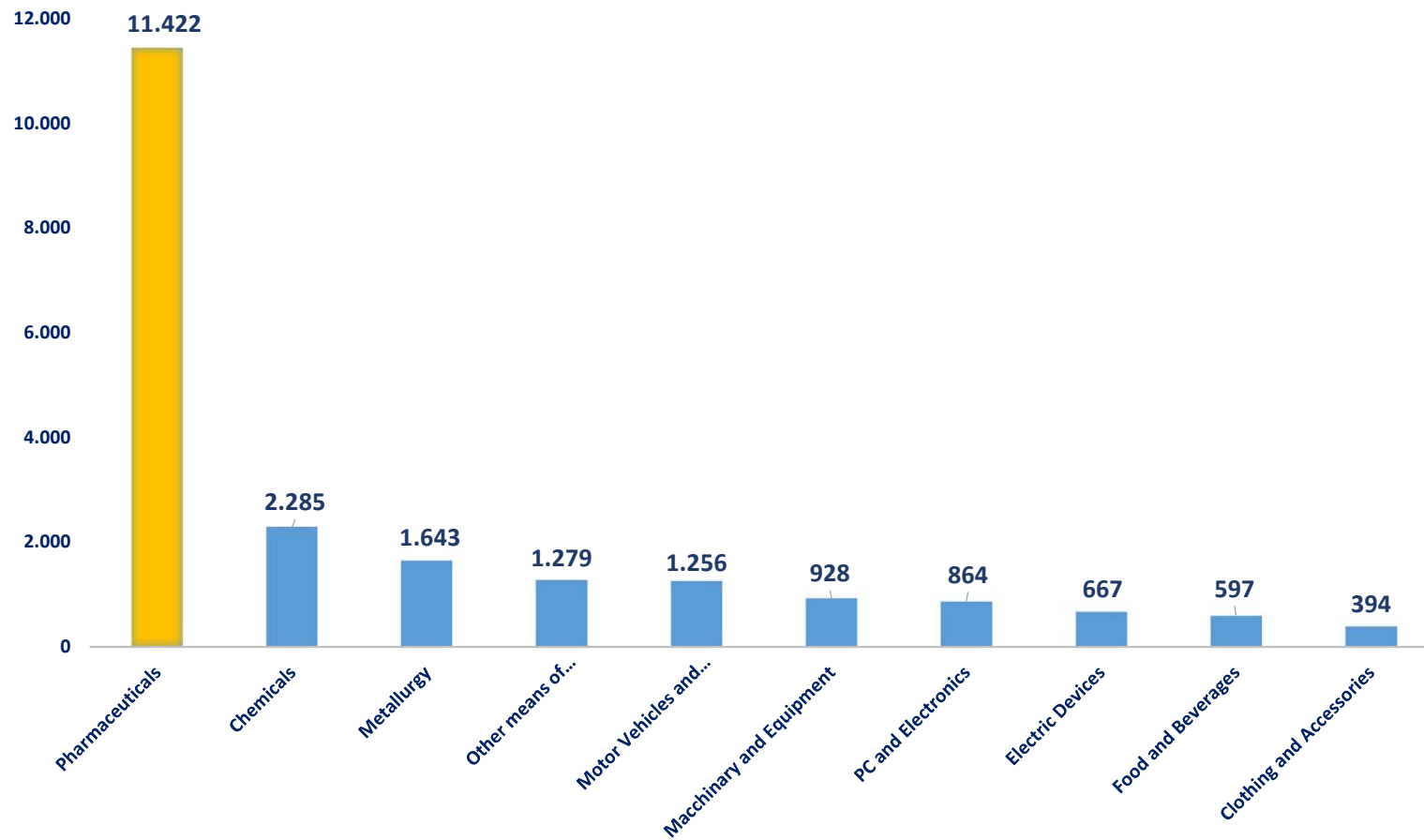
Source Istat 2019



**REGIONE
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TOP 10 EXPORT GOODS OF LAZIO REGION

2020 – MLN €

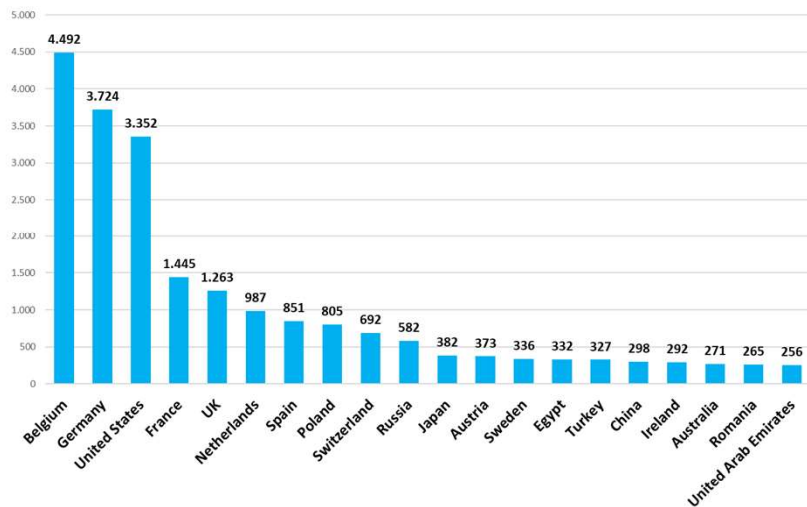


LAZIO MAIN PARTNERS AND PRODUCTS

In Lazio there are 8.537 export operators (according to the region of origin of the goods).

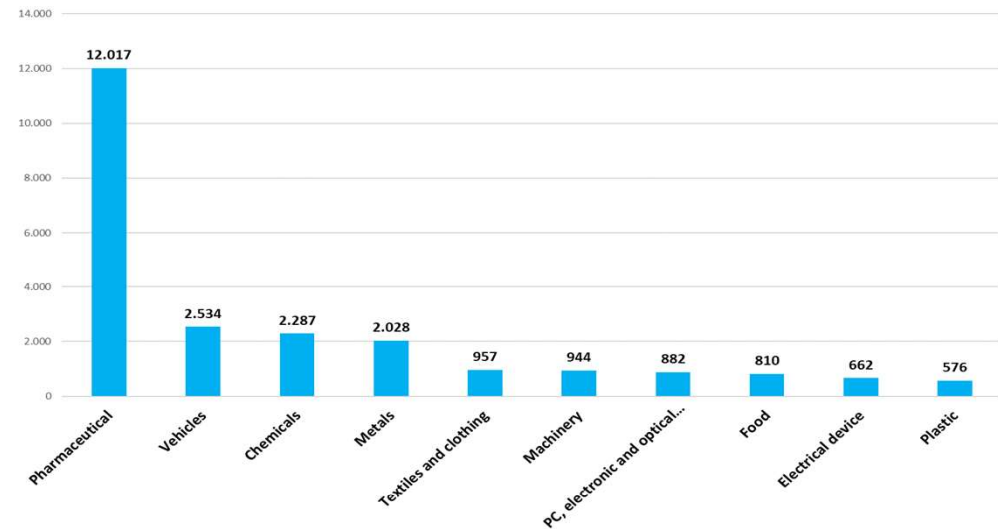
Lazio main trading partners are located in the European area, particularly in the Union area (EU27, 58,7% of the total, 15 Bn Euro).

Top 20 countries where Lazio has exported goods in 2020 (values in mln euros)



The main products exported from Lazio are pharmaceuticals with 12 Bn euro (47% of the total), followed by vehicles with 2,5 Bn euro (10% of the total).

Top 10 goods exported from Lazio in 2020 (values in mln euros)



LAZIO STRONG AND SUSTAINABLE ECONOMIC GROWTH

Lazio is the first Italian region for:

- **employment growth: +5,6% (Italy +1,5%)** Source Istat 2012-2020
- **growth in female employment: +6,8% (Italy +2,7%)** Source Istat 2012-2020
- **export growth (considering only largest regions): +34,2% (Italy +5,9%)** Source Istat 2015-2020
- **reducing greenhouse gas emissions: -11,4% (Italy -1,7%)** Source ISPRA-Istat 2017-2019

- **Top-ranked Italian region in innovation according to the EC Competitiveness Index (2019)**

- **Lazio is the second Italian region as for Innovative startups: 1.721** (February 2022)

Newly established innovative startups in the last 3 years: +59% (Italy +45%)

(Source Infocamere 2018-2021)



REGIONE
LAZIO

Contact us

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COMMUNITY OF INNOVATORS 

Life Sciences: <https://www.linkedin.com/groups/8846745/>



Cofinanziato
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