

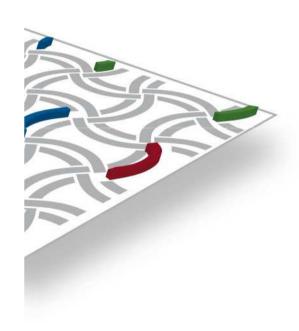




Invest in Lombardy

Life science Sector

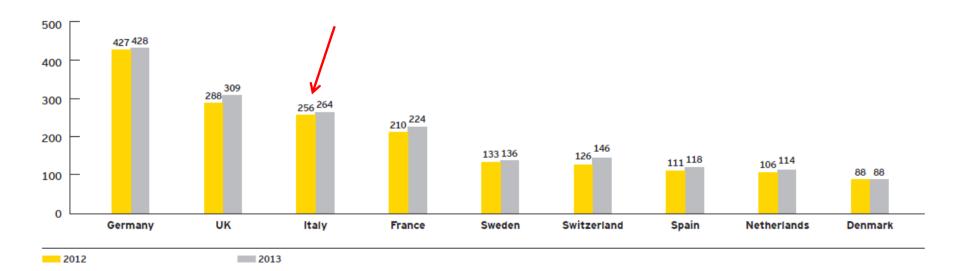




OVERVIEW ON BIOTECH SECTOR IN ITALY



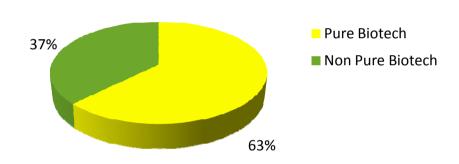
- ☐ Italian Biotechnology Industry in Italy continues to be competitive in Europe. At the end of 2013 there were in Italy 422 companies engaged in R&D in the field of biotechnologies
- ☐ Among these, **264 are defined 'pure biotech'**. **Italy ranks third** after Germany and United Kingdom
- ☐ With 1.1% of the world's researchers and 1.5% of total global spending, Italy produced 3.8% of the planet's scientific articles, obtaining 6% of all citations, thus ranking first and six times higher than the world average in terms of citations



Source: Assobiotec



DISTRIBUTION OF BIOTECH COMPANIES BY TYPE OF BUSINESS



☐ Total turnover of the sector accounts for

7,050 million euro, showing a substantial stability, while R&D investments have grown to **1,517** million, with a further **1%** increase compared to the previous year

☐The number of R&D employees is 6,626

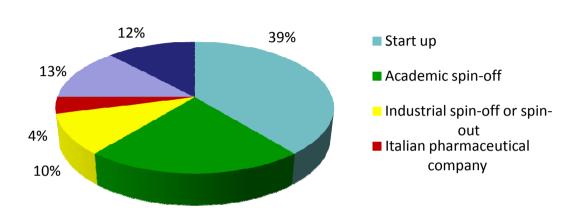
With the **weakening of the venture market**, in order to find an alternative, biotech firms are more and more keen to **establish strategic alliances**, as well as to **share resources and capabilities** with other companies

Source: Assobiotec

22%



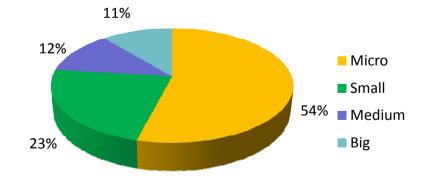
ANALYSIS BY ORIGIN



In 2013, the European Research Council funded 312 European and Non-European projects on the sole grounds of their merit. Italian scientists won 46 of the total grants, ranking second after Germany (48), and followed by France (33) and United Kingdom (27)

The large majority of Italian biotech companies (77%) is micro-small size, having fewer than 50 employees

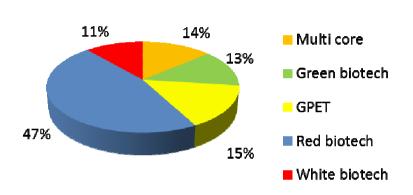
ANALYSIS BY SIZE



Source: Assobiotech



DISTRIBUITON OF COMPANIES BY APPLICATION FIELD

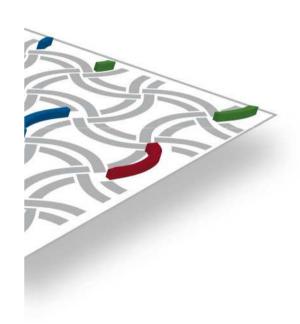


Almost half of the companies are exclusivey active in red biotech (47%) proving the **predominant** weight of human health biotechnology

- On a total turnover of **7,050 million euro**, the analysis of turnover by type confirms that **76% of revenues are attributable to the multinationals subsidiaries in Italy**, almost all of them are directly engaged in the red biotech research in our country
- □ Segmenting the turnover by size, big organizations (which have more than 250 employees) constitute 81%, medium- sized companies 10%, while micro-small companies 9%
- 88% of biotech companies turnover is produced by micro-small companies

Source: Assobiotec





OVERVIEW ON BIOTECH SECTOR IN LOMBARDY

LIFE SCIENCES SECTOR





Lombardy is the first Italian region in the field of life sciences thanks to the large number of companies, facilities, human and financial resources located in the area







- ✓ First European region in the chemical sector in terms of employees and number of companies, outdoing regions such as Rheinland (DE) and Ile de France (FR)
- ✓ At national level, Lombardy accounts for about 40% of Italian chemical employment
- ✓ The Pharmaceutical industry plays an important role in the local economy: **31,000** pharmaceutical employees, **33** R&D centres, over **90** red biotech companies, **17,000** workers in the supply chain (chemical, mechanical, paper)
- √ 34.4% of all Italian Biotech companies are located in Lombardy (126 companies on a tot. of 407)
- ✓ Lombardy tot. biotech companies turnover = € 3,472M
- ✓ Lombardy recognized as bioregion in the European Union
- ✓ More than 40% of all national patents filed over the past 10 years comes from Lombardy
- ✓ Biotechnology parks and incubators are well distributed throughout the region. Science parks, usually collaborating with prestigious local universities, are the perfect habitat for businesses and institutions aiming at developing new high-tech products both for the Health and for the Agro-food industry



LOMBARDY IS THE BEST REGION FOR YOUR FUTURE BUSINESS IN EUROPE:

- > The greater cluster in Europe of biotech industries
- > The labour availability and quality in biotech sector is over the average
- > Total turnover of the sector accounts for over 7 Billion euro
- > R&D investments have grown to 1,517 Million euro
- The **second lower total operating cost** (per annum) in Europe after Barcelona Region but with an higher quality





Setting up a company in Milan is fast and easy, get down to business in just 10 days!

✓ Business Costs in Milan are lower than in Paris, Frankfurt, Berlin, London

(according to KPMG, Competitive Alternatives 2012)

Hourly compensation costs

(all employees in manufacturing):

Germany: 46 UDS France: 40 USD

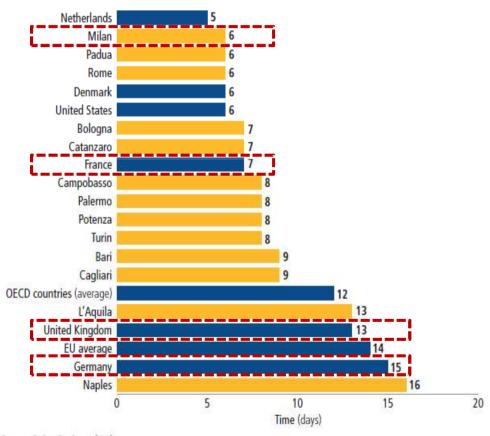
Italy: 35 USD

(Source: ILO - International Labour Organization report)

- ✓ An excellence business environment: starting a new business takes only 6 working days
- Firms have higher marginal returns of one additional unit of capital invested (ROI return on investment), in particular in best-performer sectors: manufacturing of wearing apparel, manufacturing of wood and related products, scientific activities and research

(Bocconi University report, 2012)

KEY WORDS: low costs, high productivity



Source: Doing Business database.

OUR BUSINESS ENVIRONMENT



European Cities and Regions of the Future 2014/15

Winners

TOP 10 SOUTHERN EUROPEAN REGIONS – FDI STRATEGY			TOP 10 SOUTHERN EUROPEAN REGI			
			RANK	REGION	COUNTR	
RANK	REGION	COUNTRY	1	Lombardy	Italy	
1	Tuscany	Italy	2	Tuscany	Italy	
2	Lombardy	Italy	3	Catalonia		
3	Pomurie	Slovenia	- T	527757777777777	Spain	
4	Voivodina	Serbia	4	Comunidad de Madrid	Spain	
5	Emilia-Romagna	Italy	5	Emilia-Romagna	Italy	
6	Ohrid-Struga	Macedonia	6	Aragon	Spain	
7	Aragon	Spain	7	Pomurje	Slovenia	
8	Herzegovina	Bosnia-Herzegovina	8	Lisbon Region	Portugal	
9	Split-Dalmatia County	Croatia	9	Attica	Greece	
10	Koprivnica Krizevci	Croatia	10	Valencia	Spain	

OVER	10 LARGE EUROPEAN ALL	REGIONS -
RANK	REGION	COUNTRY
1	Nordrhein-Westfalen	Germany
2	Scotland	UK
3	Île-de-France	France
	C- AL C-ALIM	LIK

RANK	REGION	COUNTRY
1	Nordrhein-Westfalen	Germany
2	Scotland	UK
3	Île-de-France	France
4	South East UK	UK
5	Lombardy	Italy
6	Bavaria	Germany
7	Hesse	Germany
8	Catalonia	Spain
9	Baden-Wurttemberg	Germany
10	Comunidad de Madrid	Spain

TOP LARGE EUROPEAN REGIONS – FDI STRATEGY

1	Scotiand	UN
2	Nordrhein-Westfalen	Germany
3	Lombardy	Italy
4	Île-de-France	France
5	Emilia-Romagna	Italy
6	Metropolis Silesia	Poland
	Note: List restricted due to shorta	age of suitable entries

FGIONS

COUNTRY

LOMBARDY - RANKED FIRST AMONGST THE SOUTHERN EU REGIONS

WINNER – SOUTHERN EUROPEAN REGIONS: OVERALL

(in 2012/2013: 10°)

• TOP 10 - SOUTHERN EUROPEAN REGIONS: FDI STRATEGY (2°)

(in 2012/2013: not classified)

• TOP 5 - LARGE EUROPEAN REGIONS: FDI STRATEGY (3°)

(in 2012/2013: not classified)

• TOP 10 - LARGE EUROPEAN REGIONS: OVERALL (5°)

(in 2012/2013: not classified)

• TOP 10 - MAJOR EUROPEAN CITIES: ECONOMIC POTENTIAL (8°)

(in 2012/2013: not classified) (in 2012/2013 Southern European Cities 6°)

• TOP 10 - LARGE EUROPEAN REGIONS: ECONOMIC POTENTIAL (8°)

(in 2012/2013: not classified)

TOP 10 – LARGE EUROPEAN REGIONS: BUSINESS FRIENDLINESS (9°)

(in 2012/2013: not classified)

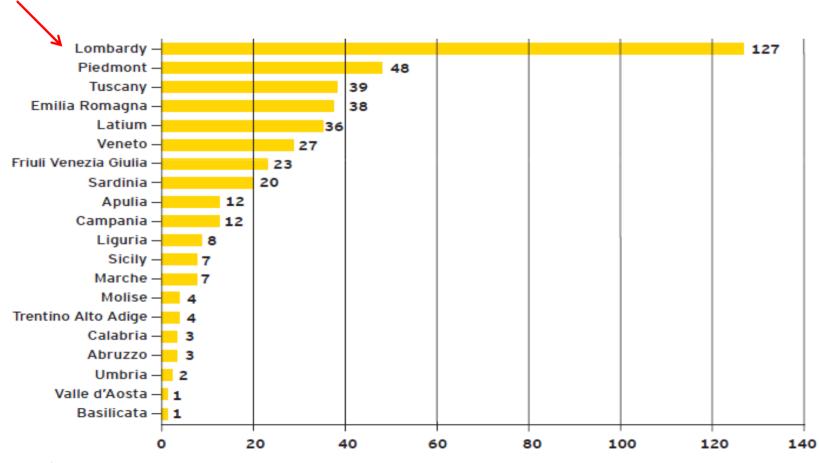
• TOP 25 - EUROPEAN REGIONS OVERALL (15°)

(in 2012/2013: not classified)





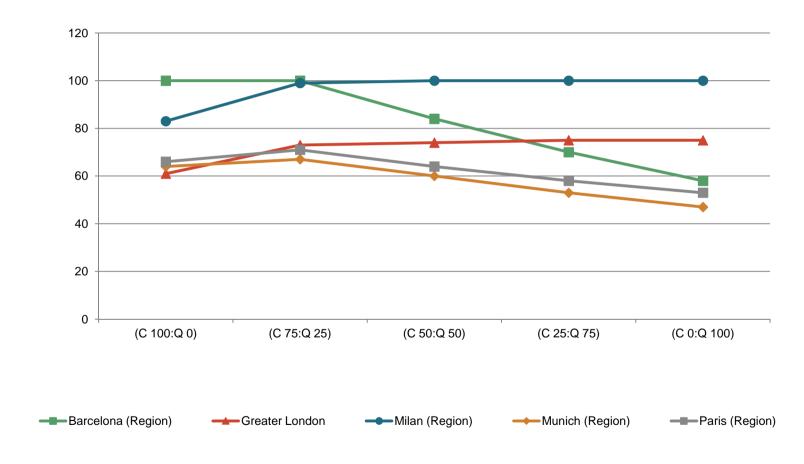
Italian biotech companies are **mainly concentrated** in the North, especially in **Lombardy**. Among the reasons, the **labour quality, the competitiveness** and the **strategic importance of clusters**



Source: Assobiotec

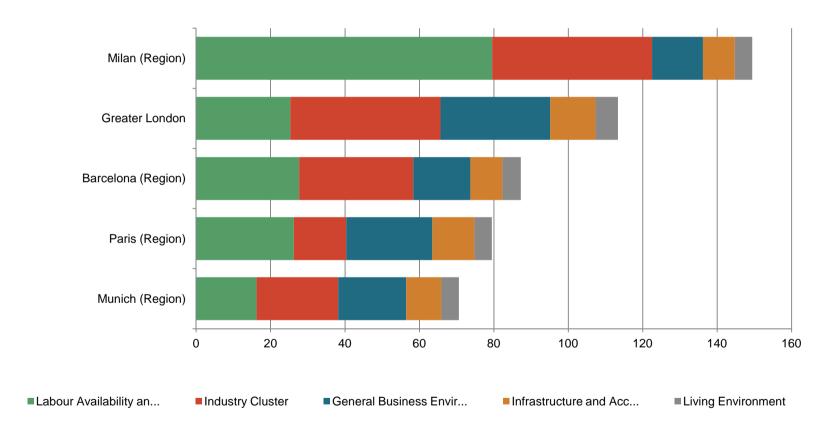


Milan Region ranks first in cost/competiveness index



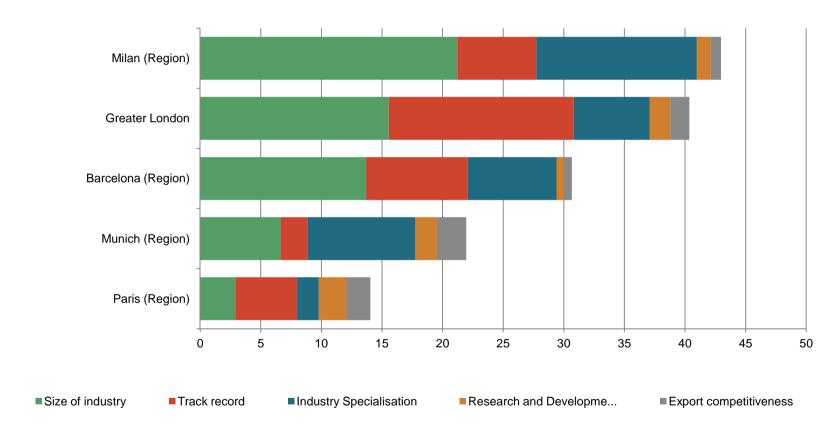


Milan Region ranks first in the quality overview





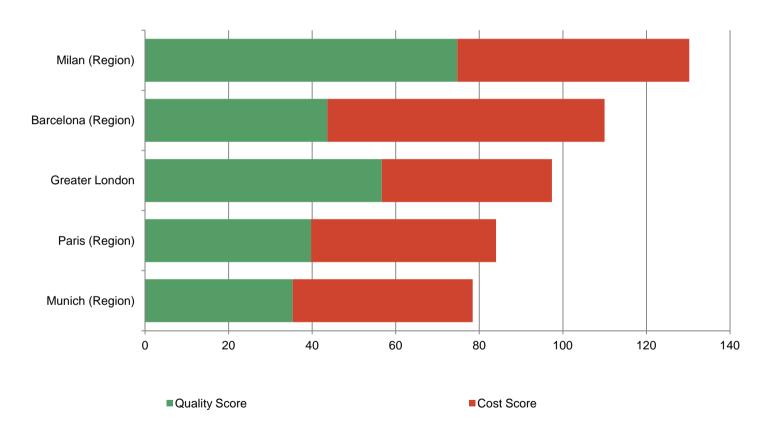
Milan Region ranks first in industry cluster



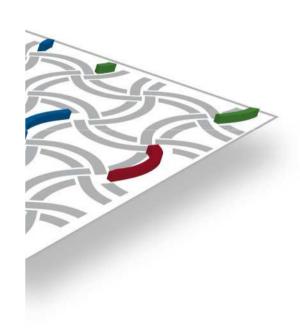




Milan Region ranks first in the attractiveness index







INVESTMENT FACLITITATIONS INCENTIVES IN R&D



ITALIAN AND LOMBARDY INCENTIVES

1) COMPETITIVENESS COMMITMENT WITH LOMBARDY REGION

Regional Government recently approved incentives to boost competitiveness and entrepreneurship. These agreements foresee facilitations for companies willing to invest in Lombardy hiring high skilled personnel or investing in R&D

2) HIRING HUMAN RESOURCES

Tax credit for companies who hire **young** (30% of the salary for 18 months) and **female** personnel (50% of the salary for 18 months)

3) ACQUISITION OF NEW MACHINERY

Financial aid at low rate for machinery acquisition in some industrial sectors:

- Maximum loan 2 Million €
- Either National and Lombardy funds are available

4) INNOVATIVE START UP

- Flexible working contract for hiring skilled personnel and Tax credit (35% of the annual salary)
- Easy access to **credit** (max 2,5 Million €)
- Accelerate procedures for setting up and registration of the New Company (NEWCO)



1) ACCORDI PER LA COMPETITIVITÀ (Agreements for the competitiveness)

Target

Improve the competitiveness and attractiveness of Lombardy region, supporting **employment** and **qualification of human capital.** These agreements give the possibility to have facilitations for companies that want to:

- Invest in Lombardy region in some particular fields
- Hire staff from Lombardy
- Invest in Research and Development in Lombardy

Advantages for foreign companies

- ✓ "One stop office" a single decision-making center for all matters
- ✓ Quick and concrete answer: answers within 1 month
- ✓ Taylor made support
- ✓ Profitable direct collaborations with local Institutions
- ✓ Access to highly specialized skills and R&D infrastructure

Fields

- innovation and R&D
- environment protection
- investments for energy production from renewable sources
- investments for energy saving measures (energy efficiency)
- establishment of new innovative SME with female participation
- welfare corporate projects
- employment and training projects for young, disadvantaged and disabled workers

2) HIRING HUMAN RESOURCES



> The Lombardy Region provides tax credit for hiring youth personnel and women

Tax credit are recognized with the following criteria:

- √ 35% of the gross salary for a period of time of 18 months for hiring youth personnel (18 29 years old)
- ✓ **50% of the gross salary** for hiring women with no limit of age for a period of time of:
 - √ 12 months for temporary contract
 - ✓ 18 months for fixed term contract

> In addittion...

- ✓ 6000 € per person for hiring personeel within 18 and 25 resident in the region with apprenticeship contract
- 1000 € per person for hiring personeel qualified within 18 and 29 resident in the region with apprenticeship contract
- 1000 € per person for hiring personeel qualified within 18 and 29 resident in the region with internship contract; 8000 € per person if the company decides to employ the intern the at the end of the stage



3) ACQUISITION OF NEW MACHINERY: National

The "legge Sabatini 2014" provides corporate loans and business financing.

Target

For all the companies which wish to invest (including through financial leasing) in machinery, equipment, capital and instrumental goods and new equipment with productive use, as well as hardware, software and digital technologies.

Conditions the company must fulfill:

- Must be regularly enrolled in the national register of companies;
- Must be operating in the Italian territory;
- Should not be in liquidation or bankruptcy nor in insolvency process.

Loans by a minimum of 20,000 to a maximum of € 2 million → the funds are provided by "Cassa Depositi e Prestiti" (Italian Public financial institution), available until 31st December 2016. The loans have low interest rate of 2,75%, thanks to a grant from "MISE" (Italian Ministry of Economic Development) which will cover part of the interests' rate.

Timing

Obtaining the loan is about 4/5 months



3) ACQUISITION OF NEW MACHINERY: Lombardy

Target:

- Support SME in Lombardy
- Investments in new machinery

Total budget: 12 Million Euro

_		_	_	_	_ 1		_	rs	
	n	\mathbf{a}	c	$\boldsymbol{\cap}$	•	•	$\boldsymbol{\cap}$	rc	
			-3	┖	L	ш	u	13	

☐Mineral extraction, manufacturing activities, production and distribution of electricity construction industry; other facilitations are allowed for SME in commerce, hotels and restaurants
☐The project will finance the acquisition of new machinery through financing operations of discount/subsidy bill of exchange
☐Investment are related for the purchase of new machineries technologically advanced with lower environmental impact
□Other investments admitted: assembling, testing, shipping and packing (up to a maximum of 15% of the total cost of the machine)



4) INCENTIVES FOR INNOVATIVE START UP

Which are the legal requirements to be defined as an Innovative START UP in Italy?

- ✓ Company must be an Italian Limited Liability Company
- ✓ Company must develop, produce or commercialize innovative products (or services) with high technological value
- ✓ Company must **not** have been established for **more than 48 months**
- ✓ Second year turnover must not exceed 5 Million euro
- Company (at least for the first 24 months) majority shares must be detained by natural persons

Furthermore, to be recognized by the Italian Government as an Innovative START UP, companies must satisfy at least one of the following criteria:

- ✓ Invest more than 20% of its production value in R&D activities
- ✓ Employ high skilled personnel (at least 1/3 of the overall company's human resources)
- ✓ Deposit industrial patents related to the company main activity



4) INCENTIVES FOR INNOVATIVE START UP

Which are the INCENTIVES available to Innovative START UP in Italy?

- ☐ Establishing Innovative START UP is cheaper than establishing a standard Limited Liability Company
 - ✓ Innovative Start up *are exempted* by the payment of *annual fees* due to the Chamber of Commerce. These fees usually are calculated on the basis of companies annual turnover:

TURNOVER BRACKETS From:	TURNOVER BRACKETS To:	RATE %
0	100.000,00	euro 200,00
100.000,00	250.000,00	0,015%
250.000,00	500.000,00	0,013%
500.000,00	1.000.000,00	0,010%
1.000.000,00	10.000.000,00	0,009%

☐ Innovative START UP take advantages from a lighter labor law procedure to hire human resources

- ✓ Innovative Start Up can hire personnel with **flexible contracts for at least 48 months.** Once this period of time has expired human resource must be employed with standard contracts, regulated by the national labor law
- ✓ Innovative Start Up have the opportunity to remunerate employees with **stock options** and to reward consultants (accountants and lawyers) with **work for share**
- ✓ Payments through stock option and work for share are submit to favorable tax system



4) INCENTIVES FOR INNOVATIVE START UP

Which are the INCENTIVES available to Innovative START UP in Italy?

> Innovative START UP has access to tax credit for employing high skilled human resources

Companies hiring high skilled personnel can benefit from a tax credit amounting to 35% of the annual labor cost per employee. The hiring company can benefit the tax credit for a period of 12 months

A company employing 3 high skilled resources will pay gross salary only for 2 of them

Innovative START UP have easy access to credit

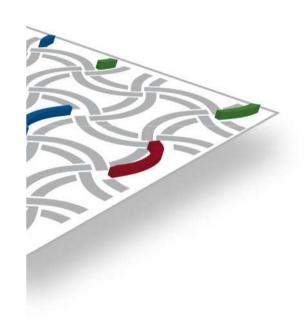
Crow funding

The crowd funding created specially for the Innovative Start Up to ease access to credit, it is regulated by CONSOB (regulatory body for the Italian Stock Exchange)

Guarantee Government Fund

A guarantee government fund has been created to offer warrantees on bank loans to Innovative Start Up and enable a easy and faster access to credit





HORIZON 2020: R&D OPPORTUNITIES IN EUROPE



HORIZON 2020

Timing

Seven-year programme € 80 billion

Target

Research centres, universities, companies and SME

Priorities

- 1. € 24.5 billion allocated to the Excellent Science priority with the aim of promoting the competitiveness of Europe at a scientific and technological level
- 2. € 17.1 billion allocated to the Industrial Leadership priority in support of research and innovation with its focus on Key Enabling technologies, SMEs and venture capital
- 3. € 29.7 billion allocated in Societal Challenges priority for research activity and pilot schemes areas as ageing population, food security, the development of new models of sustainable agriculture, climate change, renewable energy sources, the adoption of new systems of sustainable mobility

Growth of **bioenergy and biochemistry** in terms of market share is expected to be somewhere between **12% and 20%** over the next two years

27

Source: European Commission



PUBLIC EU FUNDING - BIOTECHNOLOGIES

- Biotechnologies will benefit from:
- ✓ Industrial Leadership priority (Priority 2 Horizon 2020)
- ✓ Innovation Investment Package (IIP) € 22 billion for public-private partnership approved by the European Commission (8 Billion), the member States (4) and the European industry (10). Most of the investment (17, 5) will go to five public-private partnerships, called 'Joint Technology Initiatives' (JTIs):

Ц	Innovative Medicines: to develop next generation vaccines, medicines and
	treatments
	Fuel Cells and Hydrogen: to expand the use of clean and efficient technologies in
	transport, industry and energy
	Clean Sky 2: to develop cleaner, quieter aircraft with significantly less CO2 emissions
	Bio-based Industries: to use renewable natural resources and innovative
	technologies for greener everyday products
	Electronic Components and Systems: to boost Europe's electronics manufacturing
	capabilities

Source: European Commission







AND DISCOVER OUR BUSINESS OPPORTUNITIES!







WHAT IS IT?



- Land in Lombardy is a service from Invest in Lombardy geared to the needs of foreign investors looking to relocate their offices and/or expand their business activities in Lombardy
- We offer you a free desk for up to 3
 months in one of Lombardy's excellence
 centres cutting edge structures
 specialized in a wide range of industries



- Life Sciences, Bioeconomy & Biotechnology
- Pharmaceutical and medical devices



- Manufacturing & Construction
- Mechanical & Mechatronics
- ICT



• Energy & renewable energies



- Enviroment and agricolture
- Agrofood, Food and Beverage



- Education and training
- Tourism











HOW DOES IT WORK?

Investor selection

Assistance

Investor care

Q IN DETAIL

STEP 1. The Investor must compile an Application Form and submit a Business Plan for evaluation

STEP 2. Invest in Lombardy proceeds to analyze the business plan together with the structures chosen by the investor

STEP 3 If the business plan is appropriate to the activities developed by the structure, Invest in Lombardy can proceed with the agreement between the center and the Investor.

STEP 1. Invest in Lombardy provide legal and accounting aid and Logistic assistance (accomodation ...)

STEP 2. Welcome desk in Lombardy provide by the structure

STEP 3. Further services provide by the structure (tutoring, meetings ...)

STEP 1. Step by Step assistance provided by Invest in Lombardy and the structure throughout the period of the agreement











Parco Tecnologico Padano







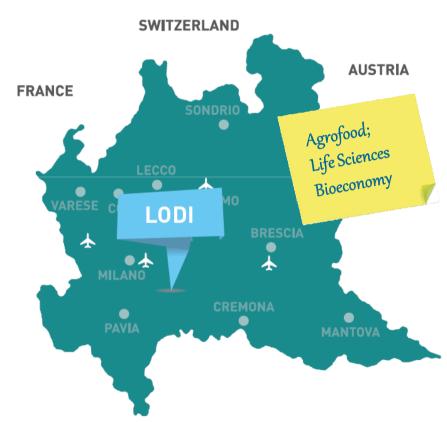
WHY CHOOSE IT?

- ✓ <u>Strategic location</u>: close to Milan; competitive, dynamic and strongly export-oriented market.
- ✓ Highly qualified HR
- ✓ <u>Innovation</u>: R&D; critical mass of interactions and interdisciplinary skills particularly in the biotech and food industry
- ✓ <u>Investment opportunities</u>: PTP manages the regional cluster for Agrofood

WHAT THEY OFFER FOR FREE

Welcome2Alimenta "Bronze Temporary Package" for up to 3 months. The package includes:

- Temporary office space (plug&play)
- Scientific network promotion
- Business network promotion



TECHNOLOGICAL OFFER @ PTP



Food Security

- Listeria, Salmonella
- Cantaminants
- Traceability



adigiano

- Composition
- Flavor
- Typicalit



New Application

- MolecularFarming
- Vaccines
- Stem Cell
- Agro-energies (Algae,







Molecular

Genome Sequencing

Biologica

Animals

Characters

Bioinformatic

Databases

Analytical methods

Tools

Genotyping Expression

European projects

- -Gene2Farm
- -MacroSys
- -Fruitbreedomics
- -Fecund

International Projects

- -ESCP
- Genome projects

Health

- -Influenza
- -Tubercolosis and para-TB
- PRRS
- -BSE
- -M. Grisea
- -Sharka











Fondazione Filarete





WHAT IT IS: Business Incubator

WHY CHOOSE IT?

- ✓ Promotional and educational services
- ✓ <u>Consulting services</u>: business planning and development, legal and managerial advice...
- ✓ Monthly meetings dedicated to Life Sciences, Biotechnology, Health startups

WHAT THEY OFFER FOR FREE

The following services are offered for up to 4 weeks:

- ✓ Up to 2 desks including Internet connection and access to meeting rooms
- ✓ Meetings with Scientific Staff and Business Development manager





ADVANCED BIOMATERIALS
MOUSE & ANIMAL PATHOLOGY LABORATORY (MAPLAB)
MICROBIOLOGY
PROTEOMICS
AGRO-FOOD
FONDAZIONE FILARETE HUB FOR BIO&HEALTH STARTUPS

Pharmaceutical, Advanced Materials, Biomedical, Agrofood, Green Chemistry, Cosmetic, Implantology, Textile

In-house technology platforms, on-going collaborations with university of Milan and distinguished research hospitals



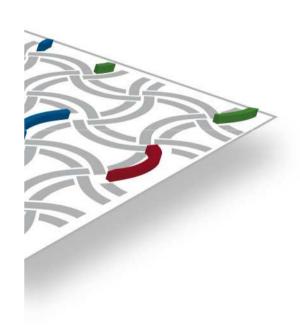
Strong connections with Venture Capitalists and Business Angels' network. Robust experience in grants' support

Partnership with complementary services and consultancy (legal, IP, fiscal, regulation)

GRANTS: HORIZON2020

Fondazione Filarete is an effective partner for seeking, building, sharing and managing projects in the Horizon 2020 EU program.





HOW WE CAN HELP YOU

INVEST IN LOMBARDY – How we support you



Thinking of starting up a business in Lombardy?

Investment opportunities

Data collection for individual business plans

Market analysis

Sector analysis

Business start-up

Advice on the

Help with

document

bureaucratic

procedures

qualified

the star-up process

necessary

authorisation

most suitable type

of business entity

drafting and other

Commissioning of

professionals to auide you through

Help in obtaining

permits, visas and

Selection of suitable locations

for your business

Location

search

Assistance during the location assessment stage

Assistance in choosing the most suitable staff recruitment channels for your

business

Recruitment

Links with public and private bodies specialising in recruitment Access to credit, incentives and finance

Research into the possible incentives available for your line of business

Links with credit institutions and financial entities





Want to expand your business in Lombardy?

Analysis and research

Market research

Selection of local partners (agents, distributors, clients and suppliers)

Location search

Selection of suitable locations for your business

Assistance during the location assessment stage Recruitment

Assistance in choosing the most suitable staff recruitment channels for your business

Links with public and private bodies specialising in recruitment Access to credit, incentives and finance

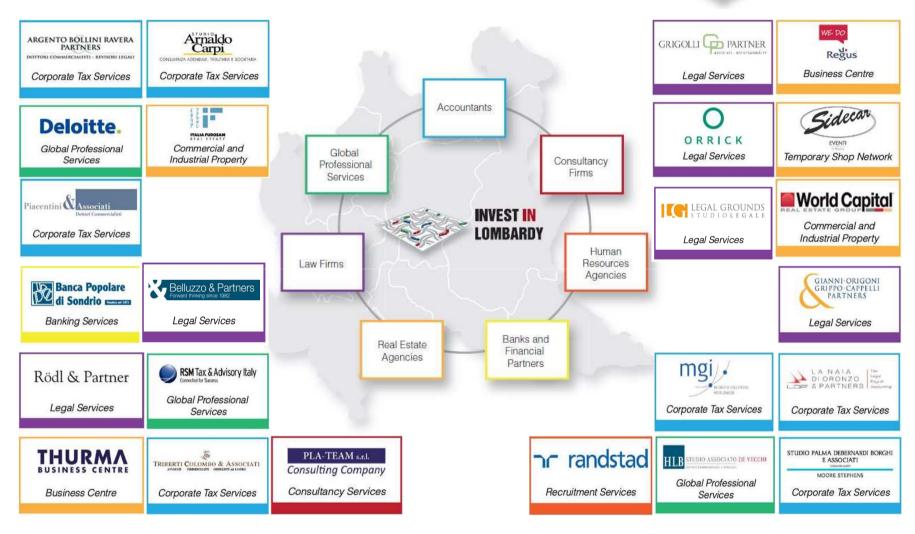
Research into the possible incentives available for your line of business

Links with credit institutions and financial entities Executive education

Customised courses for foreign companies and managers



INVEST IN LOMBARDY – our BUSINESS PARTNERS







Get in touch with us!





 $www.\ invest in lombar dy. com$

@investinlombard





Thank you!