

POWERED BY







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LOMBARDY IN A SNAPSHOT

AMONG THE TOP EUROPEAN REGIONS



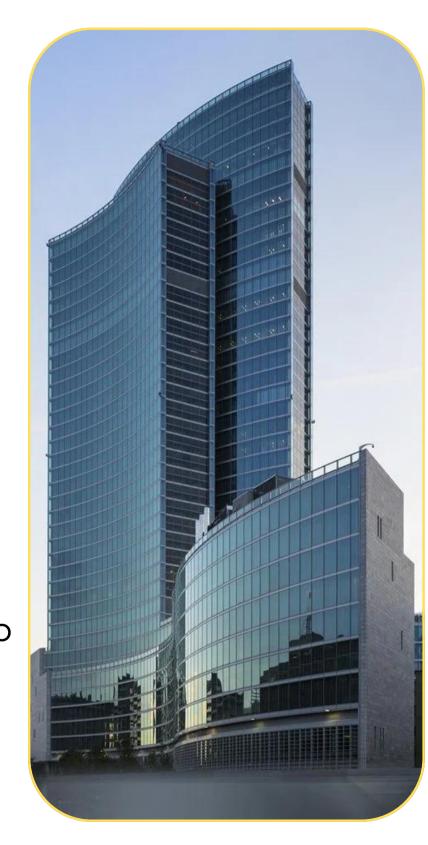
- 2nd EU Region for GDP
- Among the 67 out of 240 European Strong Innovator Regions

THE MOST ATTRACTIVE REGION IN ITALY:





- € 11 billion (from 2012 to date)
- **24,7** % of 44.4 bln € Italy's FDI



1ST REGION FOR:



GDP

- € **368** billion
- 22% of Italy's GDP



NUMBER OF COMPANIES

- About **816K** companies
- **6,300** multinational companies
- 4,2 million employees



HUBS SUPPORTING INNOVATION

- 26% of certified national incubators
- 18% of national fablab

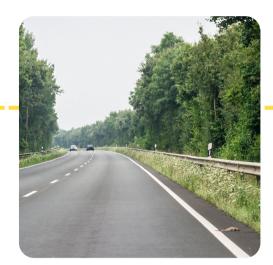
INFRASTRUCTURES & CONNECTIONS



1,920 km of railway networks



700 km of highways



11,000 km

of provincial roads



4

international airports

Lombardy offers a wide range of direct flights to the main European and global destinations





WHAT MAKES LOMBARDY DIFFERENT

ENVIRONMENT

Lombardy's territory and its **diversification**represent a perfect field for the Agrifood Tech
sector. In fact, there are both **plains** and **hills**as well as **mountains** all in one region
making it the **perfect destination** for any
agrifood-related business

TECHNOLOGICAL DEVELOPMENT

In Lombardy, **agriculture is growing smarter** and **new models** of production, distribution, and consumption are being designed and tested

ECOSYSTEMS INTERSECTION

A region where **different ecosystems intertwine**, and where all sectors such as energy, health, and nutrition go hand in hand and work together creating **strategic synergies**

SUSTAINABILITY

Lombardy develops and uses frontier
technologies for the benefit of all with a view
to sustainability, transparency, security, and
resilience, combining process and product
innovation with environmental enhancement
from the perspective of full circularity

FOOD SAFETY

Safety both in terms of traceability and surveillance of production and distribution. The aim is to ensure the highest level of protection to customers by making the product history accessible throughout its supply chain, certified immutably through blockchain technologies

A GREAT ENVIRONMENT

Lombardy has a vastly diversified territory, specifically:



900

Alpine pastures



20

Regional woods



40,000 km

Water channels for irrigation and reclamation use



1,560

Farmhouses:

50% authorized for accommodation and70% for restaurant services



209

Educational Farms

LOMBARDY IN THE ITALIAN AGRIFOOD SYSTEM



area dedicated to agriculture, whose activities cover **69% of the territory**



1ST REGION IN ITALY FOR AGRICULTURAL PRODUCTION:

42% of the Italian Rice40% of Italian pigproducts



1ST REGION IN ITALY FOR IV RANGE PRODUCTS

30% of the national surface of IV range products



SECTOR VALUE ADDED

€41 BLN in Italy

11% generated by Lombardy



INCLINATION TO INVEST

29% in Italy

41% in Lombardy



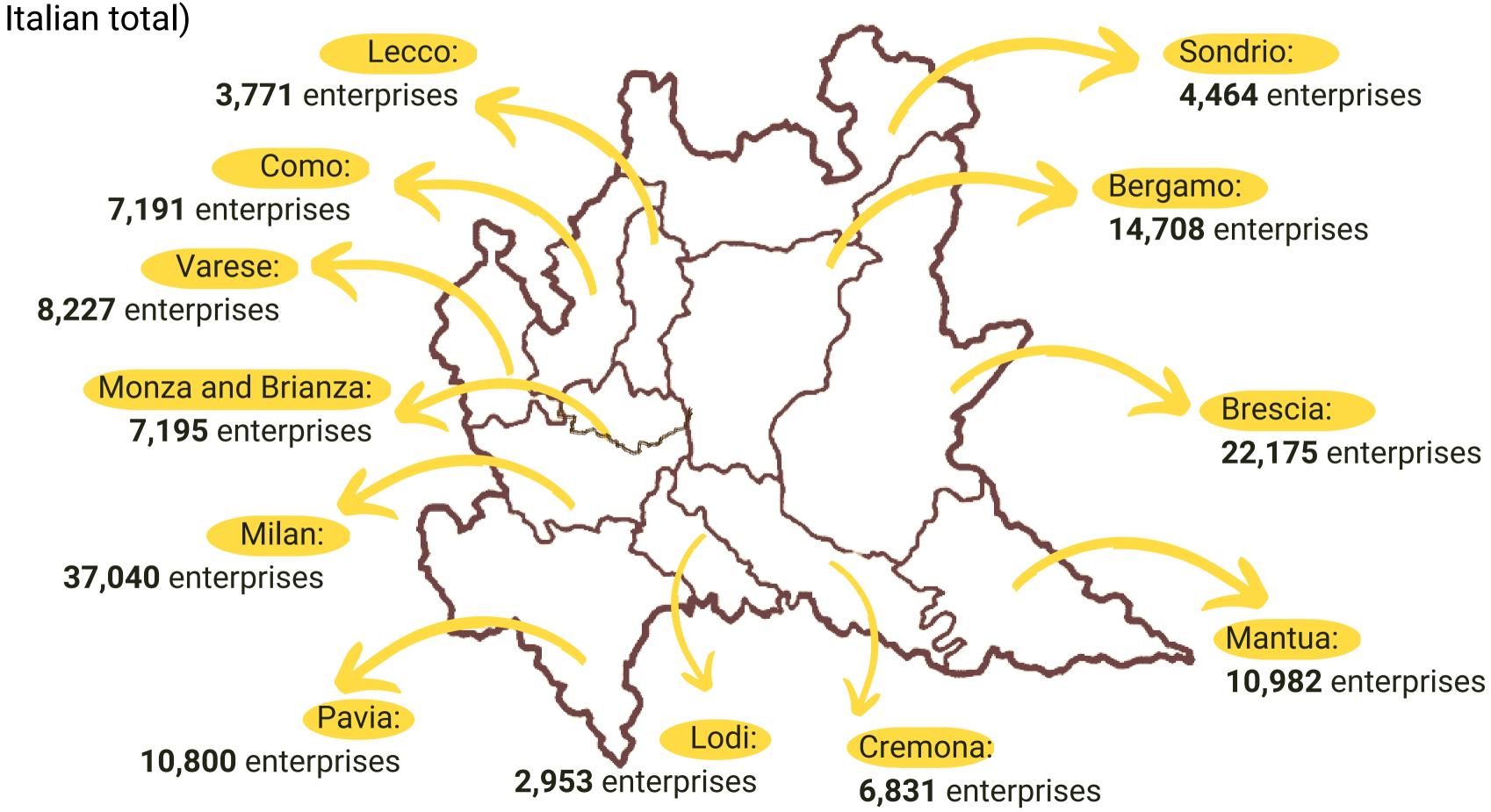
N. OF PEOPLE EMPLOYED IN AGRICULTURE

912,000 in Italy

71,000 in Lombardy

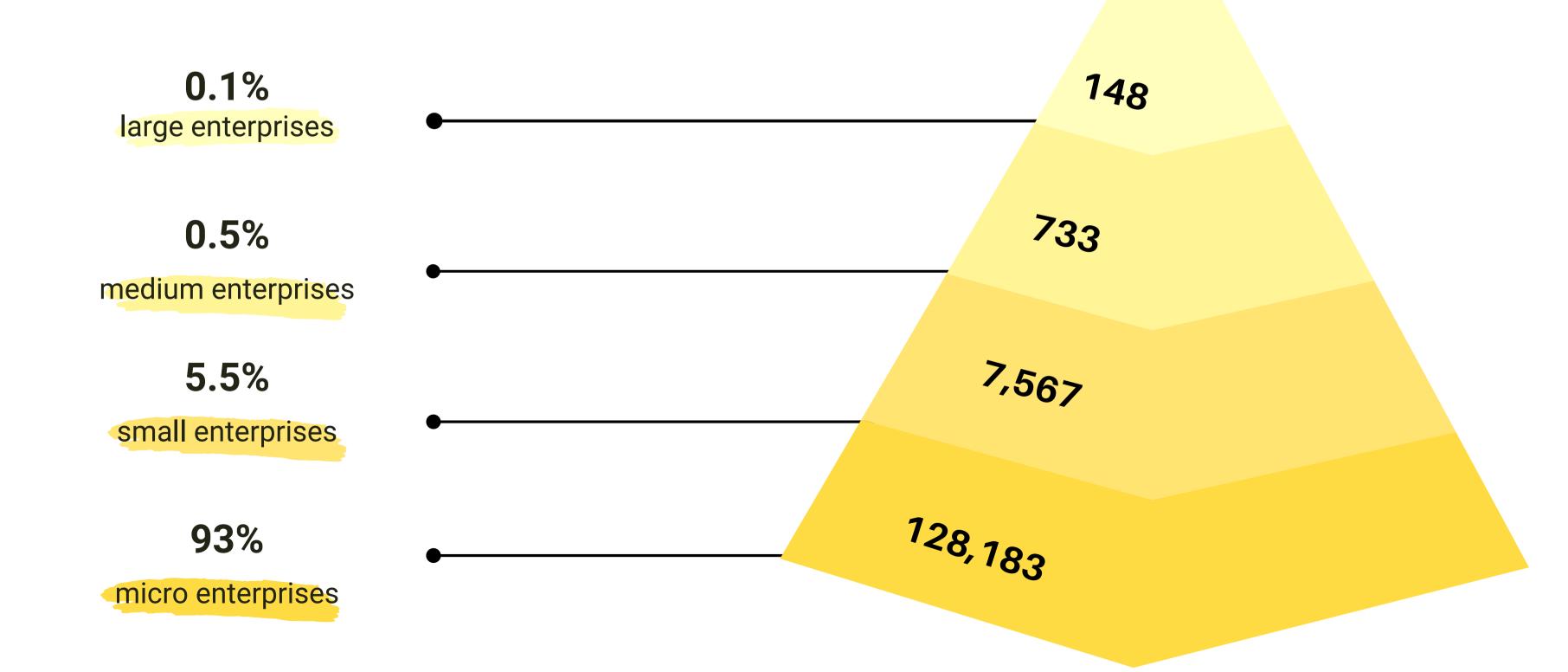
NUMBER OF ENTERPRISES AND THEIR DISTRIBUTION

Of 1.406.645 Agrifood enterprises in Italy in 2022, 136,337 are in Lombardy (almost 10% of the



FIRMS BY SIZE

The majority of Lombardy's companies in the Agrifood sector are micro and small businesses



VOLUMES OF EXPORT IN ITALY AND LOMBARDY

2021



64 bln €

The value of goods exported by Italy



21 bln €

The value of goods exported by Lombardy

Compared to other Italian regions, Lombardy is the one that **exported the most** in the first quarter of 2022 with **€5.6 bln**, followed by Lazio (€5 bln) Emilia Romagna (€4 bln), and Tuscany (€1 bln)



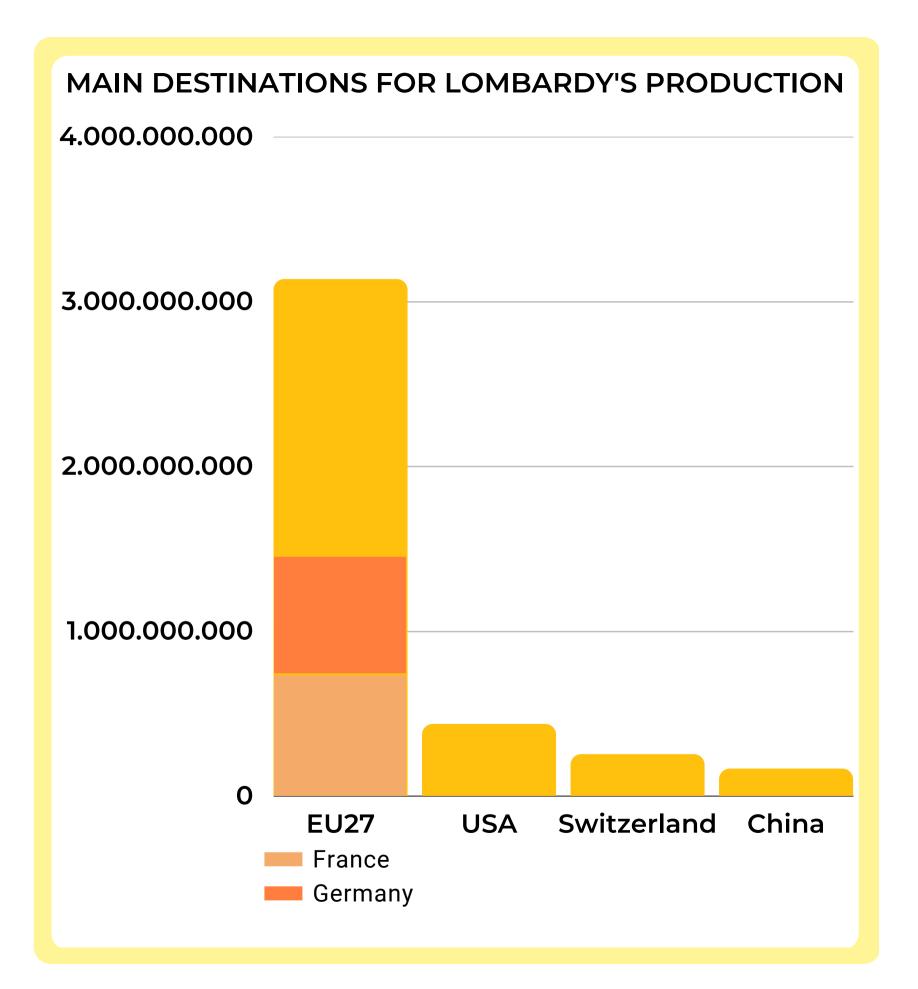
LOMBARDY'S PRODUCTION FOR THE INTERNATIONAL MARKET

The European Union is the main destination for Lombardy export. In fact, in the first quarter of 2022, Lombardy exported €3 bln to the 27 EU countries. In particular:

- **Germany** €689 mln
- France €688 mln

For **non-European countries**, the main destinations are:

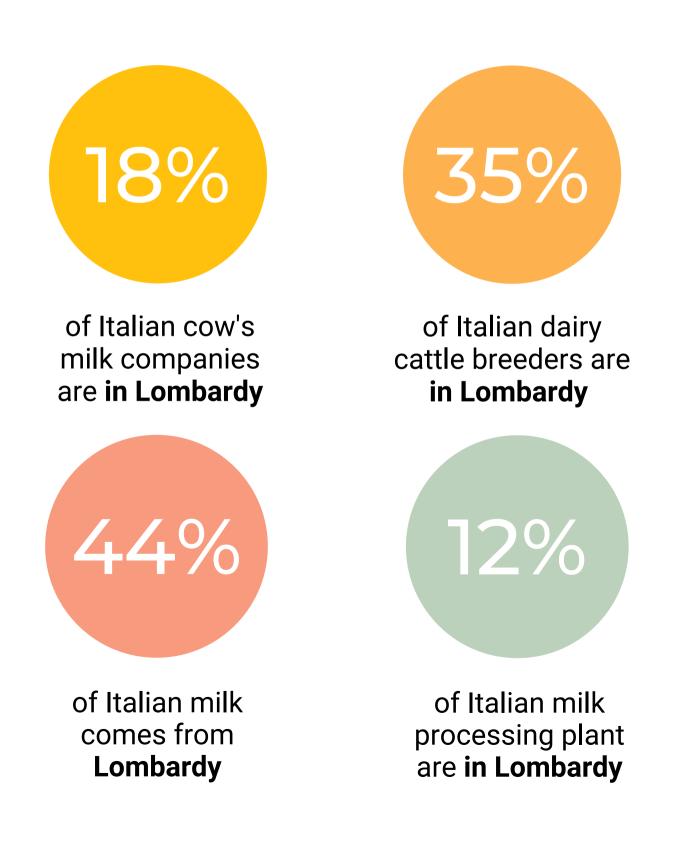
- **USA** €436 mln
- Switzerland €253 mln
- China €165 mln



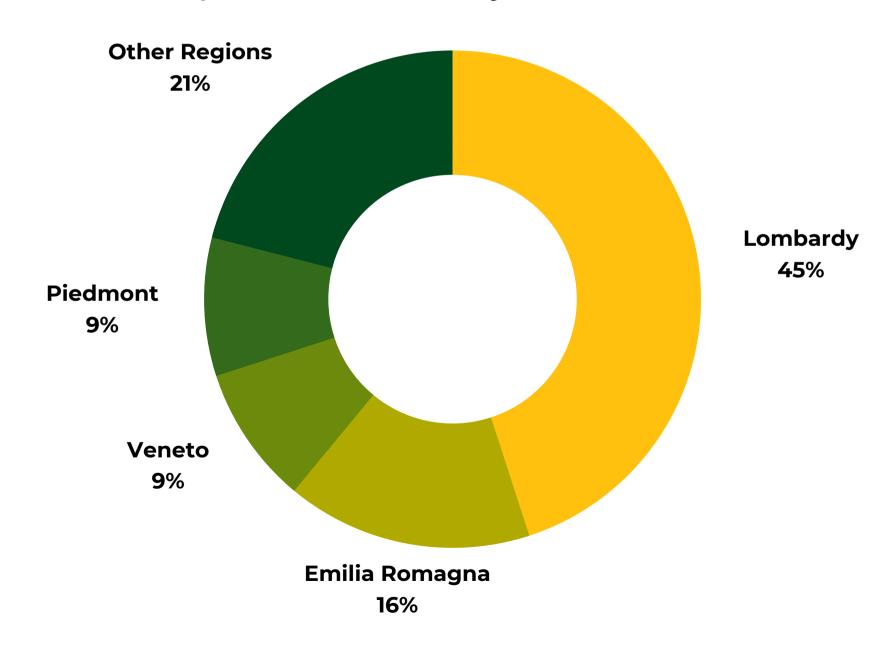
LOMBARDY'S SPECIALIZATIONAND SUCCESS STORIES IN SOME SUBSECTORS OF EXCERENCE

THE DAIRY INDUSTRY IN A SNAPSHOT

Lombardy is the **leading area** for animal husbandry. In particular, the farming and dairy industries represent regional excellencies



Lombardy ranks **first in Italy** for dairy products **delivery in 2021**



THE STRENGTH OF LOMBARD BREEDING FARMS

Of 5,9 mln bovines bred in Italy in 2020, **1,5 mln** were in Lombardy

€650 mln

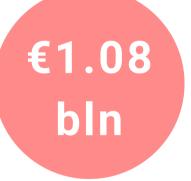
of the national value of production total in Lombardy

26%

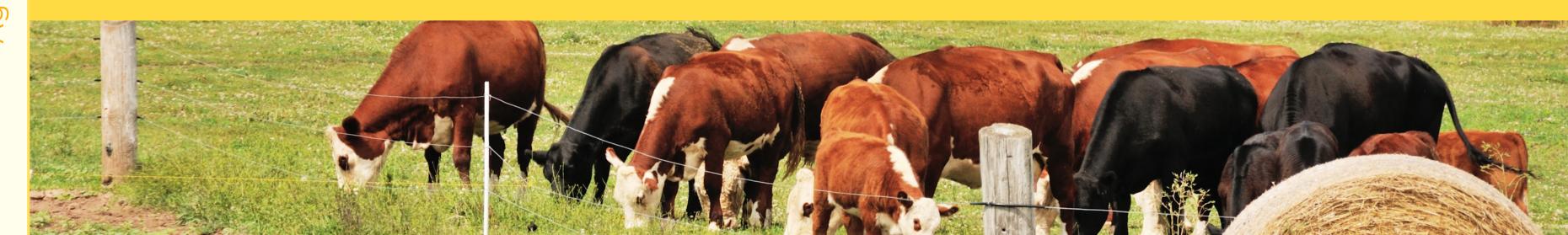
Of 8,5 mln pigs bred in Italy in 2020, 4,4 mln were in Lombardy



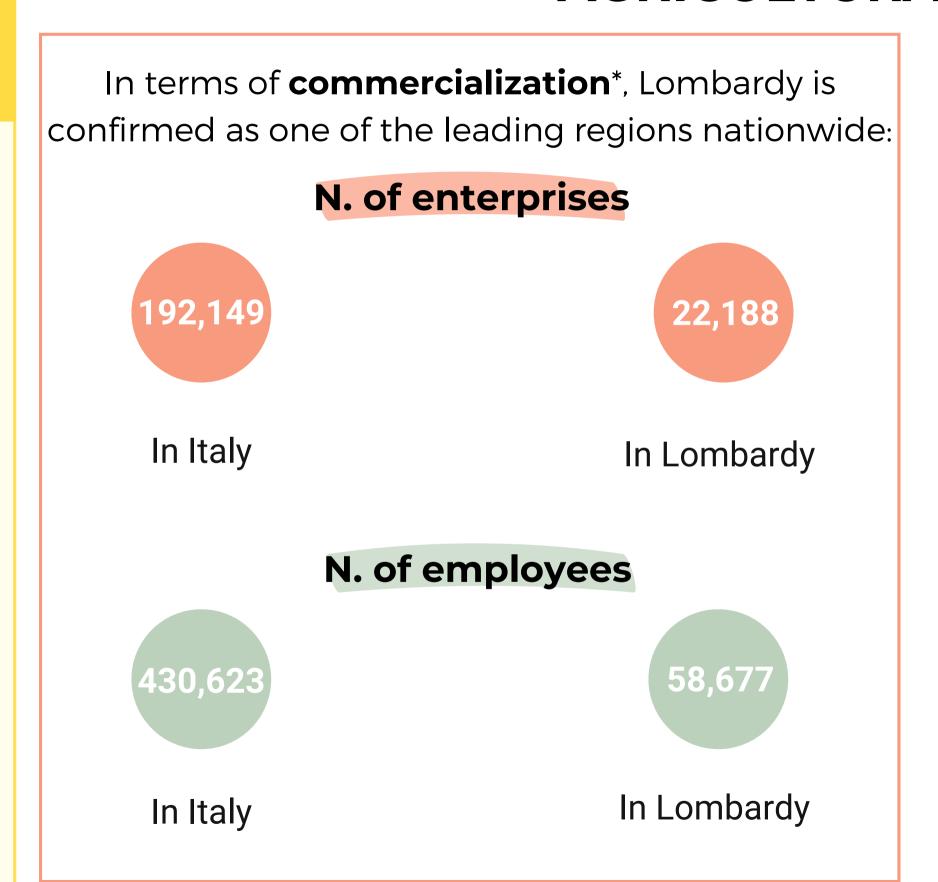
of the national total

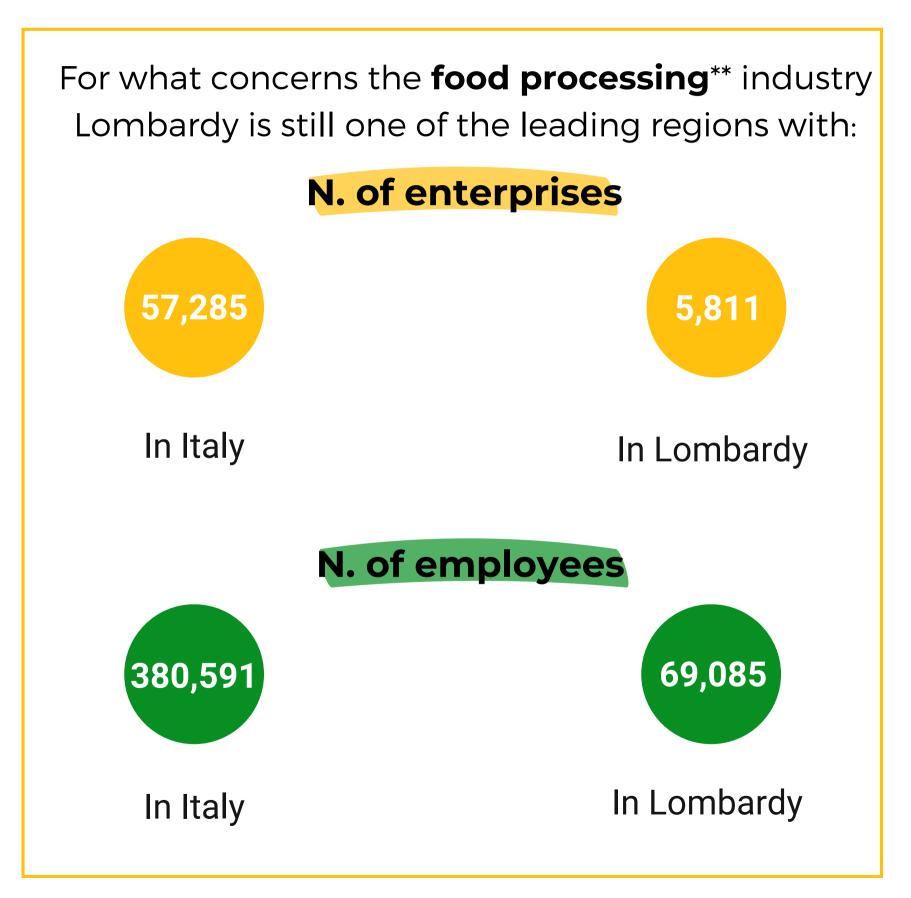


value of production in Lombardy



PROCESSING AND COMMERCIALIZATION INDUSTRY OF AGRICULTURAL PRODUCTS





LOMBARDY'S TASTE: PDO AND PGI PRODUCTS 1/2

Lombardy is the **3rd region** in Italy for the value impact of **PDO** and **PGI*** products. These trademarks guarantee to the consumer that a specific product comes from a **precise geographic area** and that the entire production process is carried out according to a **specific methodology**

Foods in 2021:



20 PDO

14 PGI



Wines in 2021



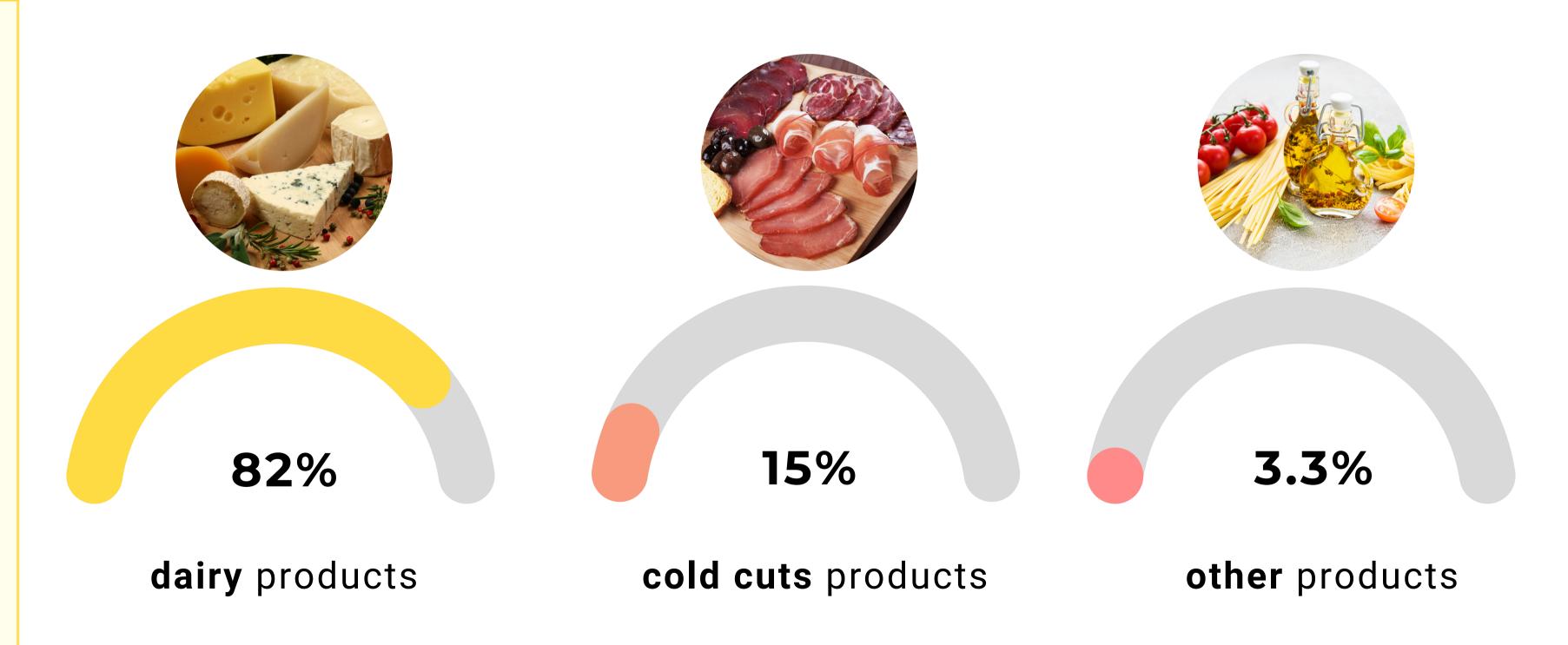
26 PDO

15 PGI

*PDO: Protected Designation of Origin PGI: Protected Geographical Indication

LOMBARDY'S TASTE: PDO AND PGI PRODUCTS 2/2

With **9,598** people employed, PDO and PGI turnover in Lombardy amounted to **€1.77 bln** in **2020.** This value can be divided as follows:



PACKAGING INDUSTRY IN LOMBARDY

Lombardy is one of the best European regions in the **manufacturing sector** being part of the so-called **"Packaging Valley"**. Specifically, the packaging industry counts:

ITALY
LOMBARDY

2,800 721

enterprises* enterprises*

33 bln € 7.85 bln €

turnover

59,100 20,926

employees* employees*



CEREALS AND HORTICULTURAL INDUSTRY IN LOMBARDY



10.8% of national cultivated area of cereals



17.1% of national production harvested cereals



30% of regional UAA* used for growing fresh vegetables and fruits



SILK INDUSTRY

Lombardy maintains its position as a leading silk producer especially thanks to Como

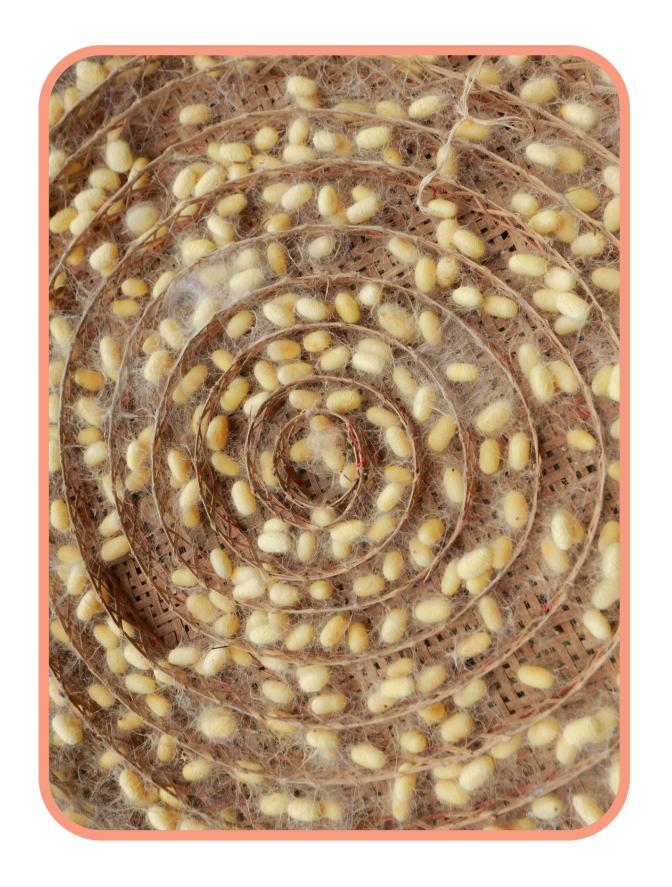
Como's silk culture dates back to the 1400s when Ludovico Sforza forced farmers to cultivate mulberry trees, nourishment for the silkworm. This led silk production to become industrial already in the 18th Century

80%

of silk production in Europe

70%

of production is exported abroad



SOME NATIONAL AND INTERNATIONAL COMPANIES IN LOMBARDY



SOME OF LOMBARDY'S INTERNATIONAL SUCCESS STORIES



VETROPACK

The Swiss glass packaging manufacturer has invested in a new super industrial hub in Boffalora Ticino (Milan). This new factory was officially opened in October 2021. The investment committed was about **200 mln €.** In 2022, the company launched a hiring plan for around **300 people**

NESTLÈ

Nestle has expanded the production capacity at its water and soft drinks factory in San Pellegrino Terme, Italy. The company has invested **90 mln €** in a new bottling line as well as restructuring work of the facility in 2021. The expansion forms part of the San Pellegrino Group's plan to increase its total production capacity by 25% by 2023

EUROGERM

Founded in 1989 in France and in Milan since 2017, EUROGERM specializes in research, development, mixing, and marketing of milling correctors, baking improvers, technological products, and processing aids intended for **milling and baking sectors** using technical and nutritional **cereal products**. The company counts **553 employees** around the world

VERALLIA

France-based glass company has expanded operations in Villa Poma, Bergamo. The 60 mln € investment includes the addition of a new furnace at its existing site, which has created 80 new jobs. This will serve the domestic market

INTERNATIONAL FAIRS



Cremona periodically hosts the <u>International Livestock Exhibition</u> which plays a leading role in Italy and Europe as one of the most influential fairs in the **breeding sector**. Every year, it provides interesting solutions for sector professionals thanks to the involvement of the **best international brands** of equipment and services



Taking place in Milan, <u>Myplant & Garden</u> has given a new impetus to the Italian horticulture and gardening sectors, helping them gain more recognition on an **international level**. Every element of the process that makes up the gardening industry is present at the fair: research, construction, seeds, forestation, production, innovation, components, and distribution



<u>HostMilano</u> is an international exhibition dedicated to the world of food service and hospitality. Taking place every two years, it offers everything needed to build a successful business, with one eye firmly focused on trends, technologies, and innovation



<u>TUTTOFOOD</u> is the B2B exhibition for the entire agri-food ecosystem. Global and innovative, it gathers producers and distributors of quality products from the whole food and beverage supply chain. A national and international point of reference for sector development and the identification, planning, and steering of a food sector relaunch

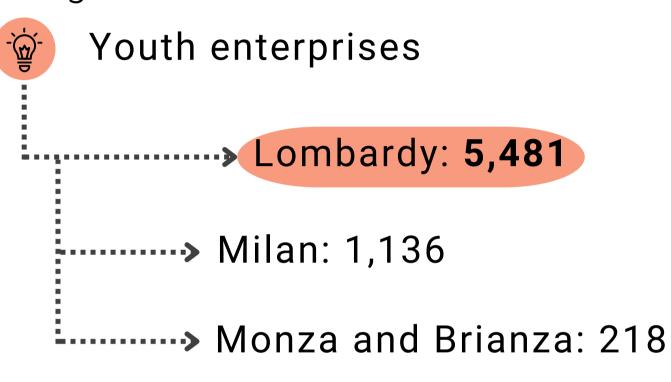


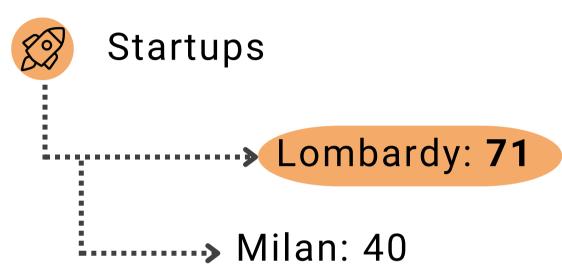


AGRIFOOD TECH YOUNG ENTREPRENEURSHIP

Businesses led by **young entrepreneurs** are constantly growing in Lombardy employing almost **3,000 people** in 2021 only in the Agrifood Tech sector.

For what concerns **innovative startups**, Lombardy alone hosts **22%** of the national total. Specifically for the Agrifood Tech sector, there are:







INCUBATORS AND ACCELERATORS

PLUGANDPLAY

<u>Plug and Play</u> built a <u>unique ecosystem</u> that connects change-makers and leading organizations. Their network consists of 50,000 startups, 500+ world-leading corporations, and hundreds of venture capital firms, universities, and government agencies across multiple industries. They work as a bridge between Silicon Valley and 35+ locations around the world. They chose Milan to expand their Food, Fintech and Sustainability programs



Located in Pavia, the <u>Neorurale Hub</u> founded the <u>Giulio Natta Innovation Center</u> to support ambitious entrepreneurs to build their companies to success. The center was created to be the cradle of <u>Nature-Based Solutions</u> (NBS) and aims at helping societies address critical environmental, social, and related economic challenges in a <u>sustainable way</u>



Powered by Deloitte the <u>Foodtech Acceleration Platform</u> is the first global Foodtech Acceleration Platform in Italy. They help promising startups and innovative companies in their **development journey**, transforming ideas into businesses and accelerating their **growth**



Inside MIND Milano Innovation district it raises <u>MIND FoodS Hub</u> a project that integrates multidisciplinary skills with the aim of promoting the vision of **agri-food research** as an engine of innovation. The general objective is the creation of an **infrastructure and skills hub** for the development of an innovative concept aimed at the identification, production, and **sustainable transformation** of plant products and derivatives with an excellent nutritional profile, assessed through functional validation



LOMBARDY REGION "RURAL DEVELOPMENT PLAN"

Funding program that stems from the European Regulation

3 cross-cutting Objectives

INNOVATION



ENVIRONMENT



CLIMATE MITIGATION AND ADAPTATION



The Objectives pursued with rural development support are divided into 6 Priorities for Action:

- training and innovation;
- competitiveness and income;
- agribusiness chain and risk management;
- ecosystems;
- resource efficiency use and climate change;
- economic and social development of rural areas



AN INNOVATIVE REGION 1/3

Blockchain

Lombardy region experimented with a **web app** dedicated to the consumer to access the history of food. The web app aims at:

- Collecting certified data and information from different databases of entities involved in ensuring product quality;
- Using a blockchain to record the information captured;
- Giving consumers access to the entire history of the product

Riccagioia Agri 5.0

Creation of an **Innovation Hub** characterized by the participation of major industry and technology companies and the public presence of **ERSAF**, the Lombardy Region Authority for Services to Agriculture and Forestry.

A range of **services** will be provided covering all sector production chains:

- Management of a **laboratory** for testing and customizing **innovations**;
- Establishment of an Innovation Training Center;
- Development of innovative **operational projects**, thanks to the technologies and skills provided by private partners, to be replicated in the regional and national territory



AN INNOVATIVE REGION 2/3

The use of drones in agriculture

Lombardy developed a **plan to use drones** for the distribution of crop protection products, starting with experimentation on **olives**, **rice**, and **grapevines**.

Rice in the Pavia Province

Lombardy produces **more than 40**% of Italian rice but the production is threatened by the considerable array of invasive weeds. The use of drones enables the **protection of crops** from pests and the protection of biodiversity

Olives in the Brescia Province

The project objective is to test an **effective** and **innovative application strategy** for olive fly defense combining the usage of drones and licensed insecticide baits

Grapevines in the Sondrio Province

Grapevine cultivation involves significant difficulties, mainly related to the impossibility of **accessing the vineyards** by mechanical means. The objective is to validate the **distribution** of plant protection products using drones

AN INNOVATIVE REGION 3/3

Lombardy region approved a bill on Urban, peri-urban and metropolitan agriculture

The project has **three** specific goals:



Contribute to the achievement of the goals of environmental sustainability, urban regeneration, energy conservation, climate change resilience



Supporting agricultural production obtained by conventional or innovative cultivation techniques



Recognize the economic, social, environmental, and cultural role of peri-urban agricultural areas and the agriculture practiced within



The regulation aims to encourage settlement especially in urban centers. The goal is to enhance the capacity for self-supply of healthy, zero-mile food, while also fostering new job outlets

SOME TECH EXCELLENCES IN LOMBARDY

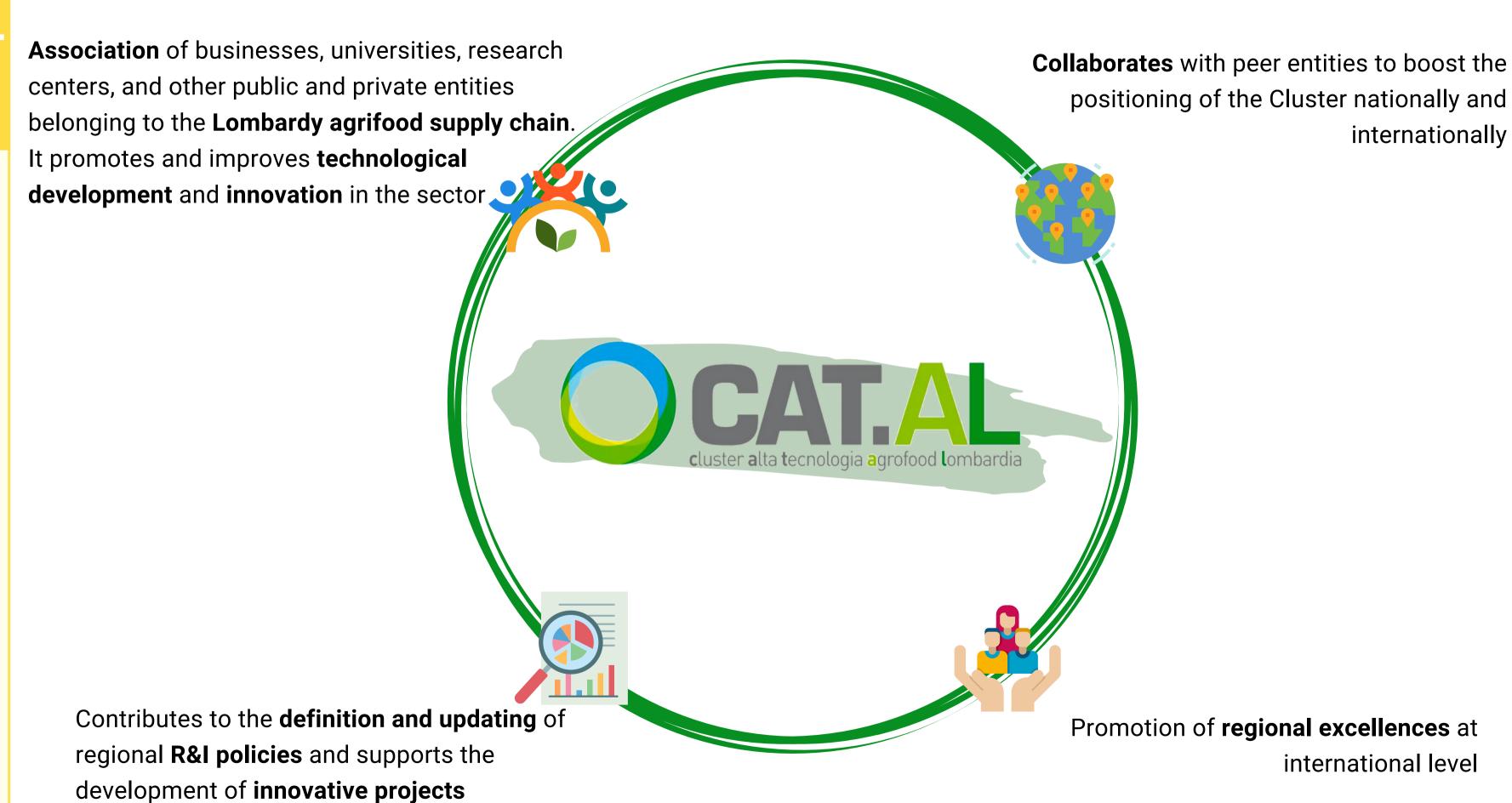
Heallo is a startup researching sustainable solutions to naturally improve nourishment, conditioned today by incorrect models and processed foods. From natural sources and production surplus, they obtain ingredients and supernutrients able to contrast problems caused by incorrect nourishment.

With substances, fibers and molecules already present in nature they are able to create innovative foods and supplements, with a high nutraceutical value

Founded in 2018 **Planet farms** built its first Vertical Farm in Cavenago in Brianza, on the outskirts of Milan. It is **the largest in Europe** and among the most innovative in the world, with the most **advanced technology** available today. Their Vertical Farming model becomes a resource for traditional agriculture providing **solutions** to issues such as urbanization, food safety, and food access, and water scarcity



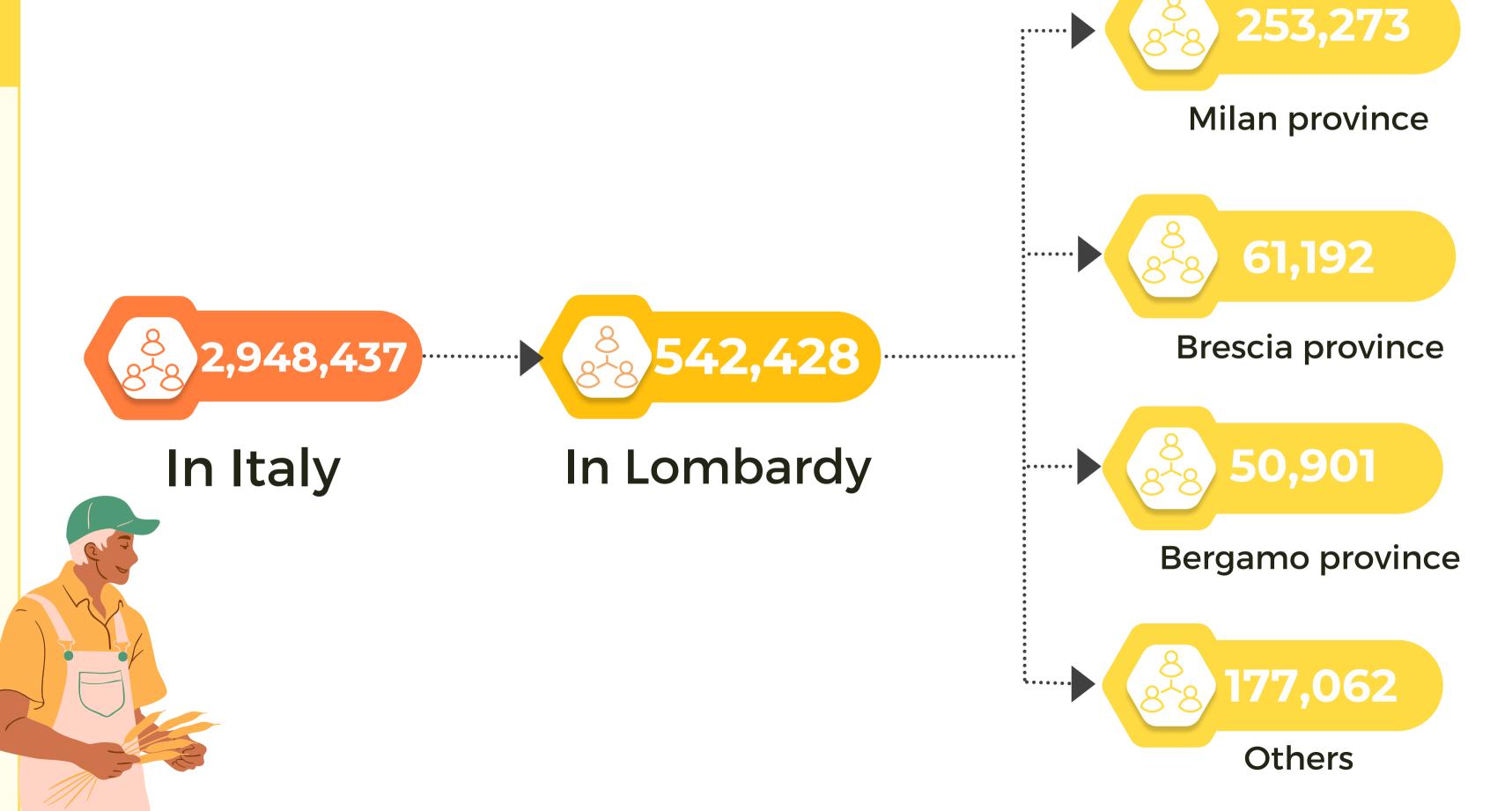
A DEDICATED REGIONAL CLUSTER





NUMBER OF EMPLOYEES

in the **Agrifood Tech sector** in 2022:



LOMBARDY EDUCATIONAL SYSTEM: AGRIFOOD EXCELLENCES

Lombardy's knowledge system is highly articulated. It is characterized by **specialization in different technical-scientific disciplines** and is composed of world-class expertise and research groups thanks to its **15 universities**

Lombardy Universities with sector-relevant courses:

Milano Politecnico

University of Brescia

Bocconi University - Milan

Bicocca University - Milan

University of Pavia

"Cattolica"University





POLITECNICO
MILANO 1863

Agricultural engineering
Food engineering
Food Design

"Alta Scuola di Management ed Economia agro-alimentare" (SMEA)

Agricultural and food economics

Master in Agri-food Business

LOMBARDY EDUCATIONAL SYSTEM: NOT ONLY UNIVERSITIES

ITS's courses (Istituti Tecnici Superiori) offer young people in Lombardy access to

high-level technical specialization, designed and implemented in collaboration with

companies, universities, and the training system

Lombardy offers the "ITS Made in Italy Area courses - agribusiness system in Lombardy"

aim to provide **skills** to manage **artisanal** processes of production and processing, typical **local products**, and **food and wine** traditions, ensuring the eco-sustainability of the processes





RESEARCH AND INNOVATION FOR AGRIFOOD TECH

Digital Innovation observatories - Smart Agrifood

osservatori.net digital innovation

In 1999, the Digital Innovation Observatories of the School of Management of Politecnico di Milano were set up to raise cultural awareness in all the main areas of digital innovation. The Observatory's goal is to convey research results to decision-makers, initiate opportunities for stakeholders to meet and debate, promote communication and value innovation, and develop culture by spreading information and knowledge about digital innovation for the supply chain activity



INVEST IN LOMBARDY: ONE-STOP-SHOP DEDICATED SERVICES



LOCATION SCOUTING

Find the best locations for your business through a dedicated network of local public institutions and private partners



NETWORKING

We are a business integrator, facilitating the connection with private and public, local and national stakeholders



BUSINESS INTELLIGENCE

Providing useful information on sectors/markets, supporting the evaluation of business opportunities in Lombardy



INCENTIVES

Overview of the tax incentives, grants, loans, and applicable bilateral conventions with institutions



PUBLIC ADMINISTRATION

We facilitate the dialogue with the public administration & support you in dealing with administrative procedures



HUMAN RESOURCES

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



START OF THE OPERATIONS

Tailor-made technical support for the setup of a new business



EXPANSION & RELOCATION

General support to the expat workers in the relocation process

CONTACTUS

FOR QUESTIONS, COMMENTS, AND DEDICATED SUPPORT



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