



invest in tuscan⁴

Tuscany,
for centuries
in the future

Chemistry

www.investintuscany.com

“You know

- How difficult it can be to count on reliable suppliers and partners for the development of chemical products in a variety of sectors: from leather to textiles and paper, from pharmaceuticals to petrochemicals, from special manufacturing to the treatment and conditioning of components and basic materials.
- How strategic it is to be able to rely on the most advanced technologies and the most innovative suppliers in the field of new materials and those of nano and micro scale.
- The importance of having at hand an extensive range of advanced technology products and services in the field of chemical components for the clinical and medical, bio- and nano-tech sectors for the realization of new pharmaceutical and biological products in the prevention, diagnosis and specialty therapies (personalized medicine, intelligent drugs, biomarkers and immunology).

in Tuscany you can!

- Benefit from a chemical industry with operators and organizations of the highest level, specialized in different segments and industrial and application verticals, constantly open to the search for new partners and collaborations.
- Be part of a highly specialized sector, particularly in "downstream chemistry" and "specialty chemistry", exactly where the ability to create products with particular performance from specific formulations counts.
- Get in touch with **more than 50 research laboratories and infrastructures** of high scientific and technological excellence and with four local centers specialized in chemistry.



Since

- In Tuscany, the constant industrial development of sectors such as fashion, life sciences, goldsmithing and ICT is one of the primary driving and guiding factors of a sector able to provide products, components and processes of the highest quality in fine and specialized chemistry, in basic and fibre, and in consumer chemistry.
- In Tuscany, pharmaceutical applications represent a strategic area with a strong high-tech vocation and able to compete internationally.
- In Tuscany, the chemical and pharmaceutical industry is flanked by a structured and articulated biotechnological sector and it has a long and continuous industrial and application tradition that has favoured the developing of skills, the birth of companies and has produced a dense network of relationships and skills at international level.

excellence grows up

In a country in third place in Europe for its chemical production (10.2% in 2019 – Source: Federchimica – www.federchimica.it), Tuscany is ranked the fourth region of Europe of the Future 2020/2021 for its attractive potential (Financial Times, February 2020). It is one of the natural places of settlement of new initiatives and productive activities in the sector, coming from all over the world. A highly specialized landscape that counts some of the largest international players in chemistry and basic components, serving the most diverse industrial segments:

SOLVAY

INEOS

DOW

HUNTSMAN

POLYNT

in a land where

The high concentration of production and research settlements guarantees a favourable context to inclusion in value chains and activation of partnerships between companies. Tuscany is studded with a widespread network of competence centres, production plants and advanced research and development facilities, some of them among the first in the world. All at the service of entrepreneurs and operators active in the sector, from whatever country they come from, whatever their size is, regardless of their level of maturation. A widespread and extensive distribution with some points of natural concentration where affinities, complementarity and integration of the various subjects, including service networks, have given rise to specific clusters.

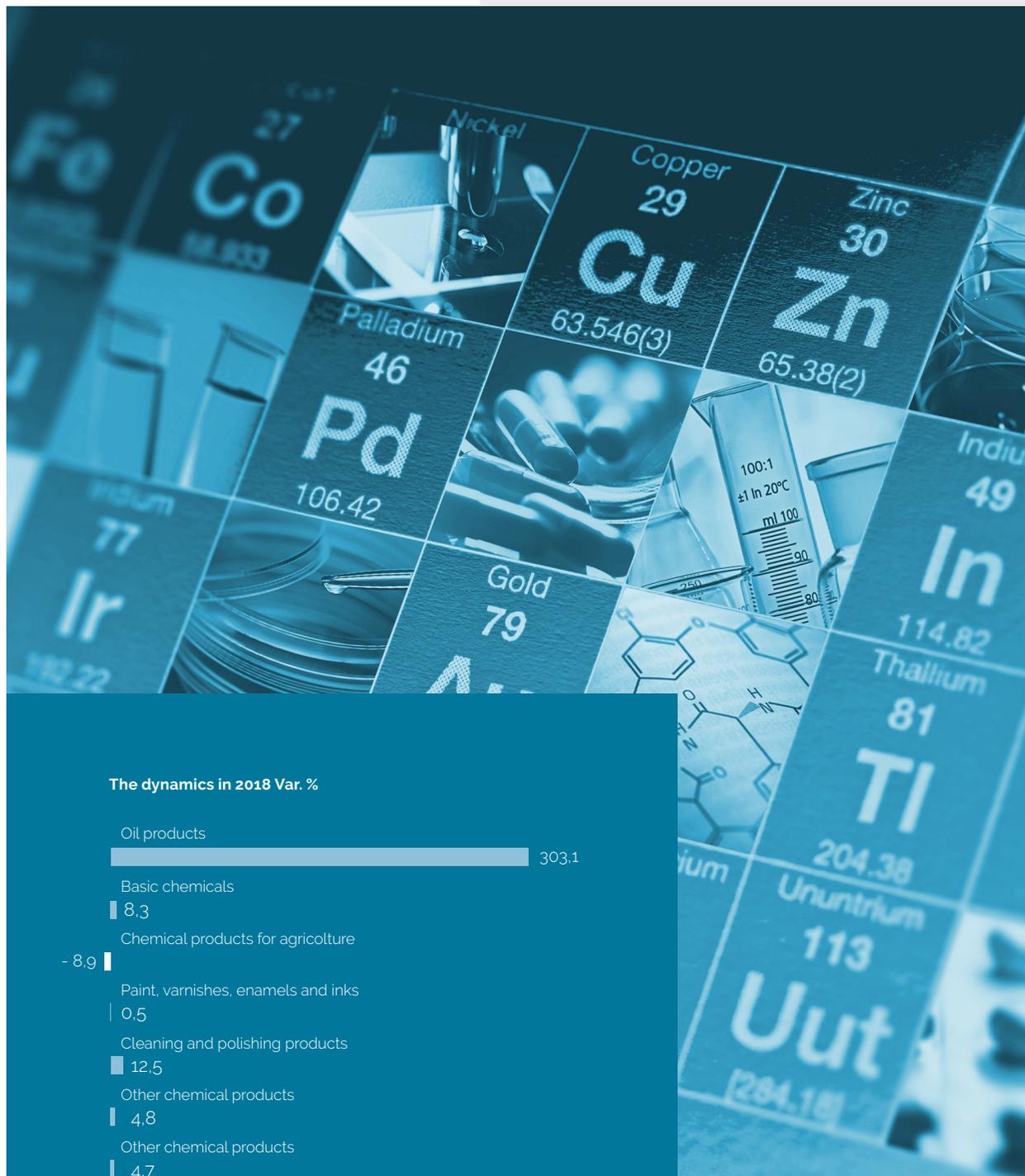


first-class standards

Tuscany is one of the main European and global destinations to invest in research and development and in service and production activities in the chemical sector. With all the advantage of settling in one of the most evocative places in the world.

Chemistry in Tuscany **exports about 2 billion euros:**

- **Over 6%** of the manufacturing figure
- **5%** of the sector figure at national level
- **+ 57%** growth in foreign sales from 2008 to 2018
- **450** are the local units present in Tuscany operating in the sector. They are generally larger than the manufacturing average (15 employees against 7)
- **6,700** are the employees working in the sector
 - 2.4% of the manufacturing figure
 - 19% operates within large companies
 - 6% the contribution of Tuscany on national data
- **3 billion** is the turnover of the sector
 - 4.4% of total manufacturing turnover
 - More than 5% of the national turnover of the sector
 - 2 billion is the value of the export





suit your needs. ”

The Tuscan economic fabric can meet all the different investment and expansion needs of your business, providing sectoral expertise and dedicated infrastructure for the functions and areas of operation and specialties that most affect your organization's investment objectives:

Research & Development

For your R&D initiatives Tuscany offers a network of about **50 laboratories for technology transfer**, of considerable technical-scientific consistency and well distributed throughout the territory: **3 joint University-Enterprise laboratories, 20 at CNR, 14 at UNIFI, UNPI and UNISI, 2 at CPR, in addition to private laboratories: 6 at EL.EN. Group and 5 at Selex Galileo**. In particular::

- INSTM (National Interuniversity Consortium for the Science and Technology of Materials www.instm.it) - It is a consortium of 46 Italian Universities based in Florence and active in research on advanced materials and related technologies. It is a centre of excellence and advanced expertise in magneto-optical systems and surfaces, bulk and nanostructured, especially for biomedical and environmental applications, and scanning probe technologies.
- NEST (National Enterprise for nanoScience and nanoTechnology www.laboratorionest.it) - Interdisciplinary research and training centre on nanoscience that brings together integrated operational teams of physicists, chemists and biologists.
- CNR ICCOM (Institute of Chemistry of Metal Organ Compounds www.iccom.cnr.it) - It has expertise in Fuel Cell technologies, nanostructured metal-based materials, High-Tech polymeric materials, the application of metals in medicine, Green Chemistry and Catalysis.

- C.R.E.A. (University Pole of Colle di Val d'Elsa www.crea.unisi.it) – It is a Research Centre, dedicated to the development of innovative materials and methodologies of analysis applicable in the industrial, agricultural and environmental sectors. The expertise in coating/deposition of naked metal nanoparticles and incorporation on 2D media and 3D matrices, and techniques for chemical and morphological characterisation of nano-structured materials are of particular importance in the nanotechnology field.

Logistics

With **75% of the Italian market less than 400 km away**, and a dense network of iron and rubber infrastructure for fluid logistics of people and products, Tuscany ranks among **the main logistical nodes of the country**. In addition, the presence of three seaports, including the Livorno platform (one of the best performing and most integrated at European level), facilitates connections with the rest of the world and with the rest of Europe. In particular, it allows a substantial saving of time to and from South East Asia and immediate access the main European corridors.

Manufacturing

In Tuscany, the chemical industry is present in all its forms: from the petrochemical industry of Livorno to the medium and small enterprises linked to local production realities. The textile chemistry of the Prato district, associated to all the activities of production and research of fibres, as well as dyeing chemistry are an example of this. Similar realities are linked to the leather and tanning district of Santa Croce, to the goldsmith of Arezzo, or to the paper sector of the Lucca area, with the production of fibres of pulp and additives, necessary for the production and processing of paper.



Motorways

Motorways provide good transports links throughout Italy:

- 2 jey north-south motorway axes (the A1-E35 Milano-Roma and the A12-E80 Genova-Livorno)
- 1 east-west motorway (A11-E76-Viareggio-Pistoia)



Ports

2 commercial ports in Livorno (7th Italian port, 6th for cointaner traffic serving all the major ports in the world) and Piobino, in close proximity to other major Italian ports.



Rail Infrastructure

An excellent, rapid rail link system guaranteeing:

- 50 daily links between Florence and Rome (1 hour 31 min)
- 24 daily links between Florence and Milan (1 hour 35 min)
- 17 daily links between Florence and Venice (2 hour 5 min)



Airports

2 major international airports, Pisa and Florence, for passengers and freight, with numerous daily flights to major Italian and European cities.



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