Comune di Livorno

Livorno Smartcity
Informazione, partecipazione, sviluppo

invest in tuscany

INVESTING IN LEGHORN
ICT - HIGH TECH
Information Dossier

BUILD
BUSINESS INNOVATION LIVORNO DEVELOPMENT

Regione Toscana

POR CReO 2007-13

Repubblica Italiana

Unione Europea FESR

Le ali alle tue idee

Operation financed in compliance with PORCREO FESR 2007-2013

1. Why investing in Leghorn?

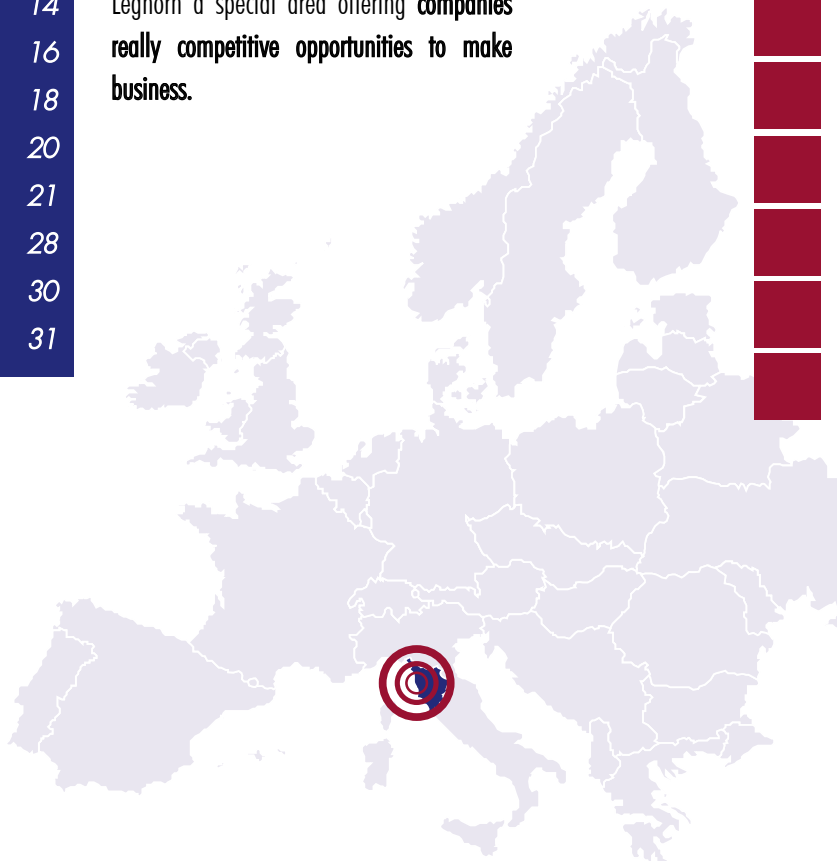
Leghorn is a local economy focussing on development and on the needs of enterprises intending to settle down for both production and R&D facilities.

INDEX

1. Why investing in Leghorn? 2
2. Accessibility and optimal infrastructures 4
3. Wide availability of qualified human resources 6
4. High standard of living 8
5. Objective: smart city 2020 10
6. Competitive location offer 14
7. Investment opportunities 16
8. Company cluster 18
9. New research areas 20
10. R&D and innovation 21
11. Facilities and incentives 28
12. Services for investors 30
13. Contact us 31

Leghorn offers companies specific location advantages.

The presence of **logistic and infrastructural assets, widespread and highly qualified professional skills, qualified services, limited investment costs** (really competitive and interesting for anyone intending to settle down in innovative territorial contexts), make Leghorn a special area offering **companies really competitive opportunities to make business.**



Leghorn has always been a place open to foreign investors. It is located in a region, Tuscany, ranking first among the Southern Europe regions in terms of Direct Investment Attraction, in accordance with the classical "FDI - European Cities and Regions of the Future Rankings", drawn up in an independent way by "FDI magazine" every two years; data and information about di 468 locations are compared, including European cities and regions.

Tuscany conquered very good positions in other categories, too: second-best South-European for investment allocations; fifth middle-sized European region for investment attraction strategies; tenth region for investment locations.

8 GOOD REASONS TO INVEST IN LEGHORN

- **Geographical position with great logistic interest** in the Mediterranean, between North and Centre–South of Italy
- Area located in a **regional context with high standard of living**
- **Very good infrastructures and integrated logistic system**
- **Qualified Universities and Specialised Research Centres**
- **Competitive and exhaustive settlement offer**
- **Industrial vocation and tradition**
- Local availability of **specialised labour**
- **Local policies supporting investments, networks and innovation**

2. Accessibility and optimal infrastructures

Leghorn is in Tuscany, the centre of Italy, on the Tyrrhenian coast of the Italian Peninsula (Genoa-Rome). Its pivotal geographical position is provided with very good infrastructures:

- **road network:** A12 to Genoa, A11 and trunk road SGC Florence/Pisa/Leghorn linked with A1;
- **railway network:** Tyrrhenian line Genoa-Rome; central line Milan-Naples with Florence connection.
  High-speed trains.
- **Galileo Galilei Airport in Pisa** (18 km away).

GALILEO GALILEI AIRPORT IN PISA

One of the most developed airports in Italy: Regional Connecting Point; 3000 m landing strip; 17 airliners; about 4.5 million passengers; over 7,000 tons of goods traffic (mail included)

PORT OF LEGHORN

90 berths, 12,000 linear metres of docks, areas of 2,500,000 sq. m ashore; stores for 56,500 sq. m in state-owned areas; annual handling of almost 30 million tons (goods); about 3 million passengers, including about 1 million cruise passengers

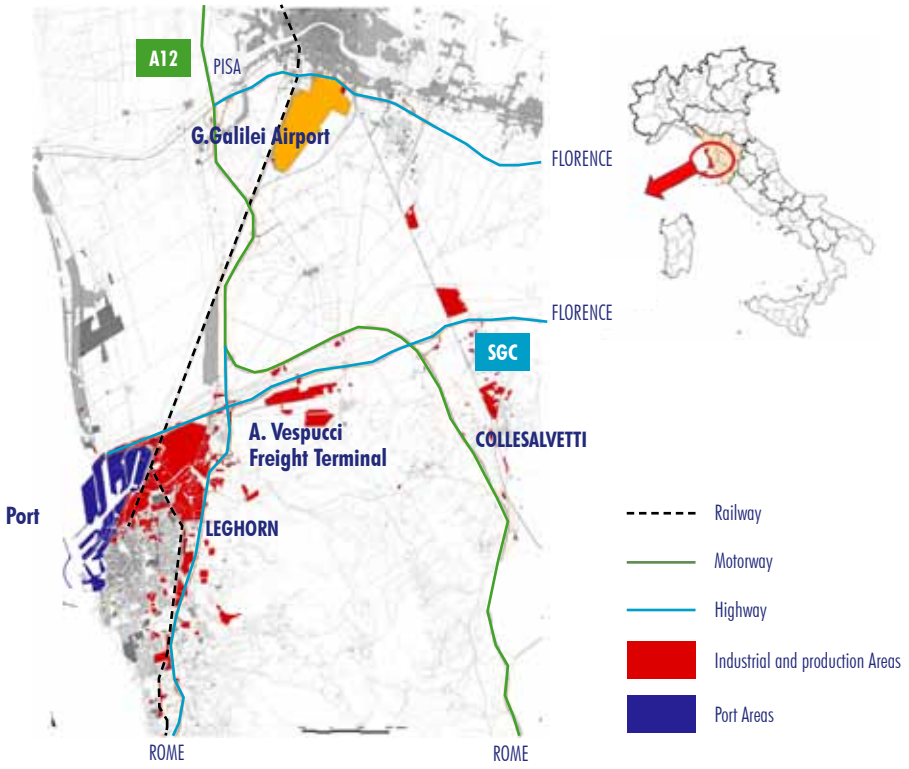
The Port of Leghorn is the **sixth Italian trade port**, ranking first in Tuscany.

Containers are mainly shipped to other ports in the Mediterranean (Barcelona, Valencia) and to the North America direction (USA and Canada).

The port area also includes areas dedicated to the logistic of the **A. Vespucci Tuscan Freight Terminal**, just 5 km away, direct link through trunk road SGC Florence-Pisa-Leghorn and railway.

FREIGHT TERMINAL

Area of 2,800,000 sq. m, with 324,500 sq. m of stores, and provided with all the main logistic and industrial services.



Journey time to reach Leghorn:

> from **Florence:** 1 hour and 20 minutes by train; 50 minutes by car
> from **Rome – Florence**: 1 hour and 30 minutes by train;
2 hours and 50 minutes by car;
> from **Milan – Florence**; 1 hour and 40 minutes by train;
3 hours and 10 minutes by car;
> from **Pisa Airport**: 20 minutes by car; direct flights with the main European cities and the airport hubs for Intercontinental connections.

3. Wide availability of qualified human resources

HIGH-SCHOOL GRADUATES

Higher education of youth living in the Leghorn area involves about **7.000** students yearly. Most of them go to either technical or scientific secondary schools (in general, technical education is either business or industrial oriented), about 40% each.

20% of youth prefers vocational training.

Istituto Tecnico Commerciale	A. VESPUCCI	83
Istituto Nautico	A.CAPPELLINI	48
Istituto Magistrale	A. PALLI	74
Istituto Tecnico Statale per Geometri	B. BUONTALENTI	101
Istituto Prof. Servizi Commerciali e Turistici	C. COLOMBO	79
Liceo Scientifico	F. ENRIQUES	227
Liceo Scientifico	F. CECIONI	174
Istituto Tecnico Industriale	G. GALILEI	232
Istituto Prof. per l'Industria e l'Artigianato	L. ORLANDO	62
Liceo Classico	NICCOLINI E GUERRAZZI	34
TOTAL GRADUATES		**1.115**

Graduates in Leghorn schools by institute
Source: MIUR – School year 2011-2012

UNIVERSITY GRADUATES

University education is widespread, giving the territory a wide and qualified range of engineers, graduates and PhDs in technical scientific subjects.

The university students in the Leghorn area were about **4.700** in 2012.

In the latest three academic years, in the Province of Leghorn, 500 Engineers graduated in different classes; industrial engineering and information engineering prevail.

University degree	*Total*
Industrial engineering	146
Information engineering	64
Master's degrees in management engineering	38
Master's degrees in defence and security science	30
Architecture and building engineering science	28
Environmental and civil engineering	23
Master's degrees in architecture and building engineering	20
Master's degrees in telecommunication engineering	20
Defence and security science	19
Master's degrees in information engineering	19
Master's degrees in aerospace and astronautical engineering	14
Master's degrees in electronic engineering	14
Master's degrees in biomedical engineering	13
Master's degrees in chemical engineering	13
Master's degrees in mechanical engineering	7
Building system engineering	4
Master's degrees in civil engineering	3
Master's degrees in automation engineering	3
Other	22
TOTAL	**500**

Engineers graduated in the Province of Leghorn, by subjects, in the latest three years. Source: MIUR - Academic years 2009- 2010; 2010-2011; 2011-2012.

SPECIALISED TECHNICIANS AND WORKERS

Unlike many mature and service-oriented contexts, Leghorn is a place where "it is still possible to make industry", and thus, it is the ideal location for locating enterprises in need of specialised technicians and workers.

Specialised production are: mechanics, plant design, chemicals, shipbuilding, ICT-Hi Tech, planning.

Type of workers	*19-25*	*26-34*	*35-44*	*45-54*	*55+*	*Total*
Craftsmen, specialised metalworkers, installers and maintenance technicians for electrical and electronic equipment	63	195	365	422	261	1306
Industrial plant operators; machinery operators	43	215	567	580	415	1820I
Professionals and technicians in the scientific, engineering and production fields	279	620	891	445	258	2493
Total specialised workers and technicians	**385**	**1030**	**1823**	**1447**	**934**	**5619**

Potentially available specialised professionals. The aforesaid qualifications have been assigned on the basis of certificates. Source: Province of Leghorn – Employment Centre – Update: 30/11/2013.

COMPETITIVE LABOUR COSTS

Labour costs in Leghorn and Tuscany are moderate; they exceed 100,000 dollars yearly just for the factory manager and other managers (production and quality control). Technician costs are under 50,000 dollars, while specialised workers are paid just more than 40.000. Engaging an engineer will cost just 56,467 dollars a year.

Qualification	*Remuneration*	*Further costs*	*Total*
Production Manager	91.191	26.545	117.737
Production Technician	37.108	10.802	47.911
Quality Control Manager	84.897	24.713	109.611
Specialised Worker	32.919	9.582	42.502
Quality Control Technician	38.680	11.259	49.940
Non-specialised Worker	20.418	5.943	26.361
Factory Manager	154.841	45.074	199.915
Engineer	43.735	12.731	56.467

Comparison of annual labour costs for a factory manufacturing car accessories in Tuscany and in Leghorn, 2013 (US$).

Labour costs are quite competitive in Leghorn as well as Tuscany and Italy, in general, just in the industrial field (specialised workers, technicians and engineers), while personnel is highly trained and productive, no less than in regions or countries where costs of technical human resources are almost twice as much, as in Germany.

4. High Standard of Living

Leghorn is a seaside city with old traditions.

Historically, thanks to its port, it is a multicultural and open meeting place, with a solid social cohesion giving rise to a widespread high standard of living.

Today, it is the **second industrial and trade centre in Tuscany, and it is the seat of the Italian Naval Academy.**

Leghorn is also a pleasant place for living, for its naturalistic, environmental context (Park of the Leghorn Hills; Park of the Tuscan Archipelago; Mediterranean Museum of Natural History; Aquarium), and for its mild climate for most of the year.

This City is close to the main Tuscan historical and artistic centres (Pisa, Volterra, Florence), and gave birth to great artists such as Amedeo Modigliani and Giovanni Fattori (Fattori Museum).

Leghorn **ranks as 30th among all the Italian provinces** in terms of standard of living.

Estimates of **social services and resources available in leisure time** are very good, with special reference to the **broadband coverage index**, one of best in Italy.

Overall Position	31

BUSINESS & LABOUR	*total*	33
Registered enterprises per 100 inhabitants, Sept. 2013		70
% jobs for total deposits - 2012		11
Bankrupts per 1,000 registered enterprises - Sept. 2013		24
% export share by GDP - 2012		45
% Women Employment - 2012		47
Innovative Start up per 10,000 youth - Oct. 2013		43

LAW AND ORDER	*total*	41
Bag-snatching/pickpocketing/armed robbery x 100,000 inhabitants - 2012		84
Burglaries per 100,000 inhabitants - 2012		70
Car thefts per 100,000 inhabitants - 2012		29
Extortions per 100,000 inhabitants - 2012		9
IT frauds/cheats per 100,000 inhabitants - 2012		67
Crime total variation index - 2008-2012		42

POPULATION	*total*	80
Density: inhabitants/sq. km -2012		82
Difference between registered and cancelled in the civil registry - 2012		20
Divorces and separations per 10,000 families - 2011 1012		101
Population % variation in the people aged 0-29 2003/2012		39
University graduates by residence prova		91
Foreigners regularly residing per 100 inhabitants - 2012		59

SERVICES & ENVIRONMENT	*total*	17
Infrastructures (Tagliacarne) - 2012		23
Legambiente Index - 2012		39
Climate Index (degree diff. maxT - minT) - 2012/13		30
Health: hospital migration rate - 2012		41
Nursery school acquisition index - 2011		13
Civil suit disposal index – 1st half-year 2012		50

LEISURE TIME	*total*	18
Bookshops x 100,000 inhabitants - Sept. 2013		60
Cinemas x 100,000 inhabitants - Sept. 2013		9
Restaurants and coffee bars per 100,000 inhabitants - Sept. 2013		12
Broadband Coverage Index - 2013		11
Volunteers per 1,000 inhabitants - 2011		45
Sport index - August 2013		39

STANDARD OF LIVING	*total*	48
Added Value per capita - 2012 (Euro)		55
Bank deposits per inhabitant - 2012 (Euro)		77
Pension monthly average amount - 2012 (Euro)		10
Consumption expenditure per capita (2010-2012 % variation)		88
Inflation % (families of workers and employees, using tobacco) - 2012		82
House cost per sq. m - Sept. 2013 (Euro)		41

Ranking of the Province of Leghorn taking into account several standard-of-living aspects (position with respect to other Italian provinces). Source: Il Sole 24 Ore - 2013.

5. Objective: Smart City 2020

Leghorn has been working on two investment lines for years:

- improving the technological structures in its area to become a smart city;
- fostering enterprises and R&D in the Hi Tech ICT.

The challenge of this territory is to become a technological platform and a service hub for companies and people, creating a technologically advanced and innovative integrated system.

The Hi Tech ICT sector is a strategic area for the growth and development of the local system. New opportunities arise from Europe plans 2014-2020, highly focussing on highly technological projects and programmes **(Smart Specialisation Strategy and Horizon Programme 2020).**

Smart Specialisation Strategy Three key points:	
	promoting European excellence and organising innovation efforts
	avoiding fragmentation and the danger of superimposing specialisations in the same fields
	developing realistic and feasible innovation strategies, in particular, in the least advanced regions

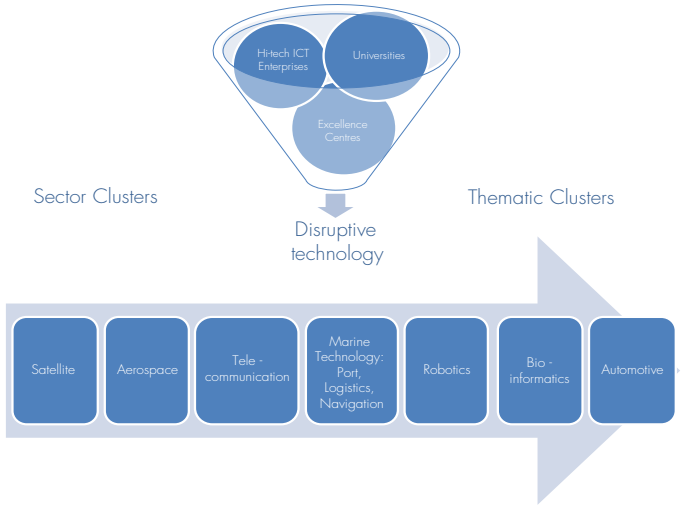
Moreover, Leghorn aims at making the most of its excellent products, often part of market niches (entrepreneurial process of discovery), by supporting:

- promotion of innovative projects through the several research and training centres, by involving ICT-Hi Tech companies in the area;
- start-up companies and the creation of company networks: local, regional and international networks;
- companies investing in the area.

DIGITAL PA The Municipality of Leghorn used ICT to innovate enterprise services, simplify procedures, and reduce "red-tape times". In 2013:

- 10,543 Wi-Fi users registered
- 27,659 civil registry files on line
- 67,562 accesses to the Citizen Help Desk
- 25,608 electronic messages (PEC and InterPRO)
- 56,148 accesses to the Business Help Desk
- 90% of purchases or contracts fully digitised

Thanks to the presence of the excellence network made up of universities, research centres and qualified technological centres, specialised in scientific subjects, several initiatives in Leghorn lead to the **development of Hi-Tech ICT competences and specialisations on specific and innovative market segments such as satellite, aerospace, surveys and intelligent territories, sea technologies (for ports, logistics, navigation), robotics, bioinformatics, automotive, life-science.**



These specialisation fields are meant to produce specific skills as well as the ability to relate with world leading partners within international networks.

TOSCANASPAZIO

A new excellence working for the future

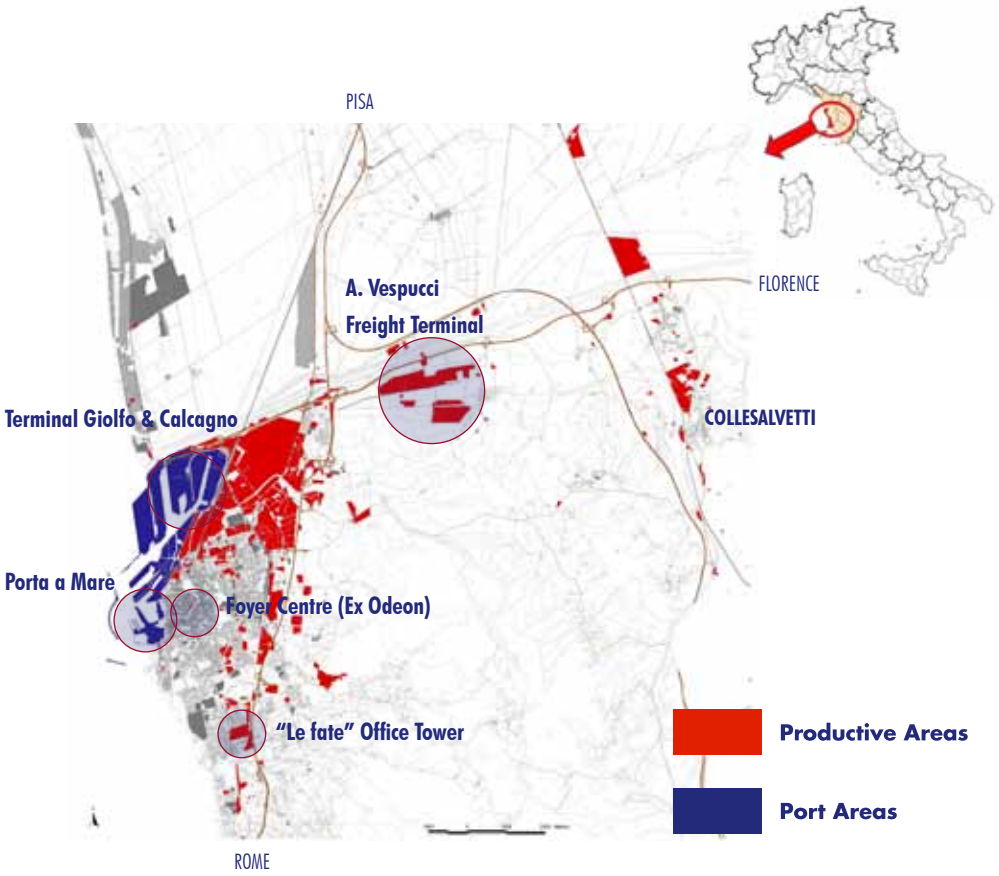
A network of companies and research bodies supporting competitiveness in the aerospace sector in Tuscany: 31 associates, 4 of which are big industries, 6 research entities, and 21 small or medium-sized enterprises.
ToscanaSpazio associates cover over 75% of the Tuscan aerospace sector: turnover exceeding 350 million euros; over 210 products in Tuscany; over 2,500 employees, 1,400 of which permanently working in Tuscany.
The professional profiles of sector's operators are highly qualified; most of them have graduated in engineering, information technology, mathematics or physics.

Leghorn contribution to ToscanaSpazio

Apart from supplying high professional competence to many excellent entities (European Space Agency, Selex, Sitael, Eutelsat, etc.), Leghorn hosts specific excellent international entities such as:

1. **Kayser Italia:** established in 1985, soon becomes a leader in Europe, collaborating with European and Italian space agencies as well as with Russia and Japan for their space programmes. It is specialised in cosmic research for advanced experiments on the physiology of the human body, starting from the use of muscular force in absence of gravity. Since 2012, it has been working in partnership with the School Life Science, an institution part of the Beijing Institute of Technology. A partnership of Kayser and the Chinese Institute of Technology is meant to generate concrete forms of collaboration in the sector of life sciences, with special regard to the sectors of biology and physiology, which should be applied in the next space missions Shenzhou and Tiangong.
2. **FlyBy:** it puts together satellite monitoring, telecommunication and smartphone: to give tourists advice through SMS on the best time for tanning yesterday; and tomorrow, to tell fishing boats the right place to go fishing, and even before getting back, making the origin of the fish caught traceable.
3. **WISER Srl:** company established in 2004 by a group of young engineers, with the aim of supplying technical and engineering support in the field of wireless communication. Its activities are mainly the planning of wireless networks and the carrying out of digital receivers for satellite communication and navigation.
   During its research stages, the company takes advantage of the precious collaboration of local research structures such as the University of Pisa and the "Consorzio Pisa Ricerche" (Pisa research consortium). The main customers of WISER are both the big national and international companies needing to outsource specific and highly technical activities, and the small-sized local firms operating in the ICT sector.

6. Competitive Location Offer



Leghorn is the core of a profound process of urban and industrial change based on a **modern use of the territory, through recovery and regeneration of large**, neglected industrial areas, and by developing **new production sites with high excellence standards.**

All those activities are meant to provide a **qualified and competitive location offer** already organised **in specific investment site opportunities, giving potential investors the best solutions for their needs.**

A. VESPUCCI FREIGHT TERMINAL

The perfect solution for investing in logistics and in the manufacturing sector; an advantageous solution for trade and managerial settlements, too, because:

- it is one of the most interesting outfitted areas in the centre of Italy (almost 3 million sq. m);
- it gives companies the opportunity to settle down with limited costs and quickly:
- it is possible to select buildings and lots with different sizes, with over 200 thousand sq. m (offered on the whole, at present).

PORTA A MARE

Prestigious site in the old Medici Port. Italian taste, beauty, harmony, genius and style, by the sea but the core of the core of the city; a city in the city:

- renewed waterfront, pedestrian area, car parks, services, order and rationality;
- over 100 thousand sq. m mostly dedicated to small and medium-sized surfaces;
- ideal place for trade and managerial investments.

Opportunities of settlement in Piazza Mazzini, at Palazzo Orlando or the Officine Storiche.

FOYER CENTRE

Historical building, real pleasure for the eye, but easily reachable as its position is strategic, in the core of the city and close to the main arterial roads:

- lots of services such as a multilevel car park with 585 places, 400 of which are public;
- totally renewed structure with state-of-the-art services;
- point of reference for anyone wishing to invest in Leghorn, starting a tertiary business or maybe a manufacturing business with low environmental impact.

"LE FATE" OFFICE TOWER

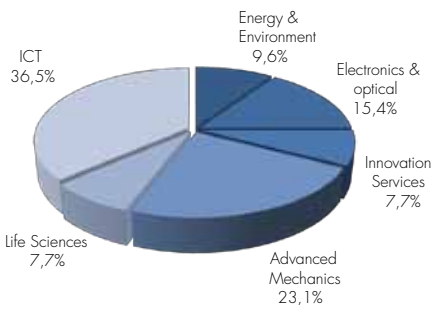
Magical concreteness and the ideal location for an office at competitive costs, thanks to easy access, construction quality, new conception with precious finishes, services and a large number of car parking spaces (200).

It is a flexible, sub-divisible and multi-purpose offer (2700 sq. m on the whole), in a context of green areas and sea view.

7. Investment Opportunities

In terms of settlement, activities and investments in Hi Tech ICT, in the Leghorn area it is possible to find a large and competitive location offer:

- areas particularly suited for the tertiary sector with manufacturing characteristics, and with some prestigious complexes available, a few of which with sea view: **Porta a Terra, Porta a Mare, Grotta delle Fate, Foyer Centre, former Borma;**
- industrial areas well-equipped and well-served, suitable for bigger settlements: **Picchianti, Salviano, Guasticce Freight Terminal, former Ceramiche Industriali Livornesi, Vallin Buio.**



Percentage distribution of local units Hi-Tech sector in the Province of Leghorn - 2013.

In relatively prestigious areas, too, Leghorn is quite competitive in terms of real estate (purchase and lease) costs of production, trade, managerial as well as residential buildings. Those costs are lower than in cities such as Florence and Milan, by 30/40%. Moreover, Leghorn's optical fibre coverage is currently very good already, and with a middle-term perspective of further and remarkable extension. The major Italian telecommunication companies are actually investing in the coverage of the territory and the city with optical fibres: the Centre, Via dei Condotti Vecchi, Vallin Buio, Pian di Rota, Via della Padula, Vecchio Dazio, Ardenza, Antignano as well as the Salviano area are just a few examples of the next extension of optical fibres in a city wishing to set the Italian wiring record (and not only Italian).

Real estate sale and lease values - Leghorn, Florence and Milan

Use / building type			Residential	Production		Trade
			Dwelling	Industrial premises	Typical premises	Warehouses
Leghorn	Market value €/mq.	min	1750	530	630	670
		max	2350	630	870	860
	Lease values €/mq.	min	7,3	1,9	2,3	2,6
		max	10,0	2,3	3,3	3,3
Florence	Market value €/mq.	min	2700	800	900	900
		max	3800	1400	1600	1900
	Lease values €/mq.	min	8,6	3,7	4,1	4,5
		max	12,2	6,4	7,2	9,6
Milan	Market value €/mq.	min	3300	850	900	800
		max	4200	950	1150	1100
	Lease values €/mq.	min	9,2	4,6	4,5	4,2
		max	11,6	5,2	5,5	5,8

Source: Real Estate Market Watchdog – Land Registry.

(*) The comparison was made on the basis of the homogeneity principle: as for data about residential structures, semi-central city areas were taken into consideration, while data on trade and production structures refer to production areas.

8. Company Cluster

Following the latest update carried out by the Hi-Tech Enterprise Watchdog of Tuscany in February 2013, the Province of Leghorn can rely on a Hi-Tech sector of **96 enterprise locations,** 74 of which also have headquarters in the Province, 16 with headquarters in other provinces of Tuscany, and 6 with company headquarters outside Tuscany.

According to the estimates of the Watchdog, the turnover of the Leghorn segment is about 527 million euros, 4.3% of the overall turnover produced by hi- tech companies in Tuscany. The people working in the sector are 2,621, 1,935 of whom operate in Leghorn seats. The Watchdog also estimates the average presence of 27 operators per company (28 in Tuscany).

Some of the main companies operating in the area, in the Hi-Tech ICT sector:

COMPANY NAME	SECTOR
Addressitaly	Information technology, consulting and software
Antitesi Srl	Information System Planning
Aplysia Società Coop.	Research and Experimental Development Sciences and Engineering
Area3d Srl	3D Planning
Aria Srl	Planning, production and Installation of aerogenerators
Blubit Srl	Digital evolution, SEO positioning, social media marketing,
Blue Team Computers Srlu	Information technology, consulting and software
Brusa Srl	Precision workshops
Chimed Srl	Technological products In the health sector
Daxo Mobile and RFID Srl	Software platforms for mobile solutions, RFID, RTLS, wireless.
Dcare Srl	TRFID technology in health processes
Dedalus	Software solutions for medicine
Drass Underewater Technology	Manufacturing of hyperbaric chambers, diving bells
Eclic Srl	Information technology, consulting and software
Elettrohouse	Electronic equipment for telecommunication
Flyby	Satellite traceability and control systems
Gamba Mario E Botteghi Fernando Snc	Instruments for industrial automation
Geopolaris	Scientific research of marine geology
Geostudi Astier	Instruments and software for geophysics
Hce Engeneering Srl	Industrial Ethernet, embedded systems, roboticsa
Iclos Srl	Satellite Communications Integrator
Indelt	Broadcast automation and robotics
Italgea Engineering Srl	Automation, robotics, industrial research
Itsyandy Net Di Lambardi A.	Web design & graphic design
Kayser Italia Srl	Aerospace system engineering company
Le Gemme Spa	E-learning systems, system consulting
Ma.Vi Srl	Industrial hi-tech electronic engineering
Neos Energia	Renewable energy, photovoltaic, cogeneration
Parser Snc	IT consulting
Rem Sas	Telecommunication instruments
Restart Srl	Automation and robot
Rifra Srl	Information technology, consulting and software
Rigel Engineering Srl	IT, research & development
S.E.T.I. Toscana Srl	Software & hardware assistance
Sigma Etruria Srl	Information technology, consulting and software
Simurg	Research and technology for public authorities
Sintesis Srl	Engineering and company consulting
Sistemi E Servizi Srl	Information technology, consulting and software
Stetel Srl	VoIP – SMS integrated services, Internet mobile applications
Studio Informatica	Information technology, consulting and software
System Srl	Information technology, consulting and software
Tecnav Systems Srl	Marine device planning
Tecno Group Srl	Service integrated systems
Teslab Srl	Innovation services
Wickedin Srl	Web search engine creation
Wiser Srl	Wireless Systems Engineering and Research
Wondersys Srl	Planning of sensor monitoring systems
Xool	Marketing web 2.0, connecting marketing and technology

9. New Research Areas

Leghorn created urban areas dedicated to research in the hi-tech ICT field – **European state-of-the-art innovation laboratories.**

The PIUSS (sustainable urban development integrated plans) for the "Scoglio della Regina" and the "Dogana d'Acqua" are bound to become important centres of knowledge and technology development. The renewed and refurbished areas will host laboratories and research centres, which may be connected with the companies in the area, in the common interest of joining research and production in the technological, marine or terrestrial fields.

The **Scoglio della Regina** is part of the PIUSS projects in Leghorn and is currently the **seat of the Marine Robotics and Logistics Centre and of the Interuniversity Centre of Marine Biology and Applied Ecology.** This scientific centre may rely on both the existing structures and the spaces made available in the new building.

The **Dogana d'Acqua** will be a **Logistics High Technology Centre**, and will be the **seat of the following laboratories:**

- Environmental and Civil Engineering Technology Laboratory;
- LOGIT Laboratory (Logistics of Tuscany);
- SEED Laboratory (Smart Energy-Efficient Design);
- PERCRO-SEES Laboratory (Safety Energy Environment and Security);
- Marine Robotics and Technology Research Centre;
- Laboratory of Nautical and Vehicle Electronics.

10. R&D and Innovation

Hi-tech ICT in the Leghorn area is remarkable and widespread, taking advantage of a series of favourable conditions: integration with local and regional specialised productions, the ability of creating networks, the nearby Universities and Innovation & Research Centres, availability of qualified resources originating from the school and university structures in the territory.

The Universities of the academic centre of Pisa, owing to the conurbation with Leghorn, are actually integral part of the Leghorn territory; many students and researchers actually live in the Leghorn area:

UNIVERSITY OF PISA
- teaching/research staff 1,900
- students 49,500
- graduates 6,750

The **University of Pisa** is one of the oldest and most prestigious Italian universities; it is very important with its 20 departments and 17 libraries available to students. **The first Italian Master's Degree in Information Science was done at the University of Pisa in 1969**. During the latest academic year, 58 A-level degree courses were carried out, and 66 B-level degree courses, with a number of graduates of about 7,000 a year.

SCUOLA SUPERIORE SANT'ANNA DI PISA
- teaching/research staff 62

The **Scuola Superiore Sant'Anna** is a university-level school with advanced course, and is located in Pisa. It is one of the three Italian high schools with special statute acknowledged by the Ministry of Education. It is a public independent university, operating in the field of applied sciences such as Economic and Managerial Sciences and Industrial and Information Engineering.

SCUOLA NORMALE SUPERIORE DI PISA
- teaching/research staff 118

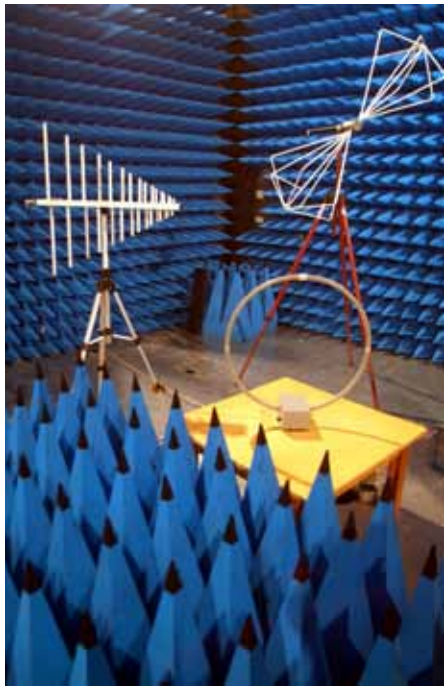
The **Scuola Normale Superiore di Pisa** is a public institution for university education, for students selected on the basis of admission examinations living in a collegial system. Classes are conducted as seminars with connection of teaching and research, with the opening of international exchanges, following the best model of European University Schools.

Specialisation Centres

Owing to its versatility, Hi-tech ICT is applied to R&D and innovation, in many sectors as well as the following excellence centres:

NAVACCHIO TECHNOLOGICAL CENTRE www.polotecnologico.it

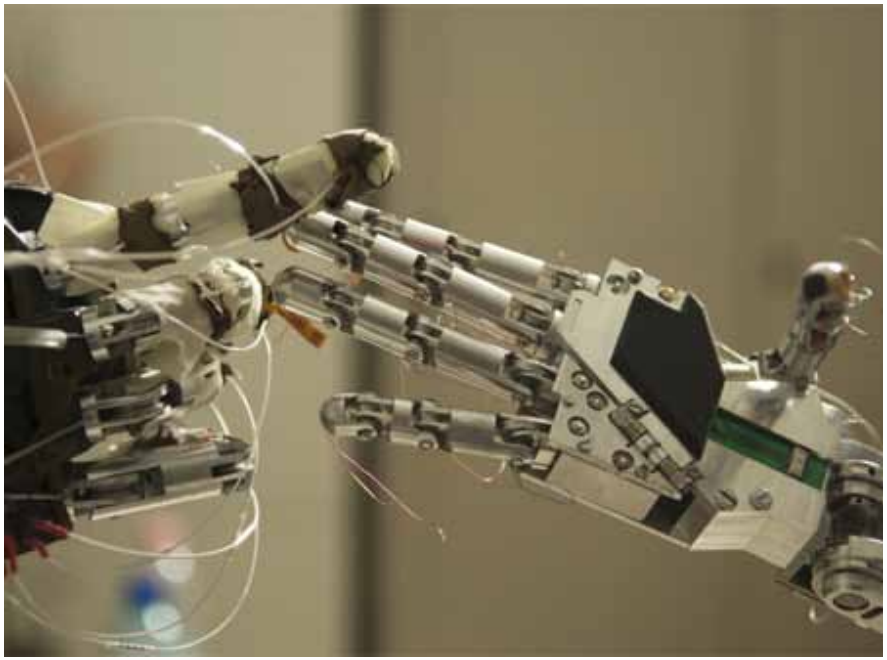
Navacchio Technological Centre is a II-generation park meant to foster collaboration of enterprises and the research world.
Hi-tech ICT, Robotics, Biomedicine, Micro-electronics and Green Economy are the special subjects dealt with by the companies in the Centre, giving also added-values services to external firms reaching agreements with the structure, such as innovation start-up support, marketing and trade penetration support, organisation, training, spotting and support of possible investors, study and management of integrated projects meant for developing innovation activities, information about financing opportunities, enterprise system databases, press office. Moreover, the Centre is a credited Training Agency. Of course, it is an important point of reference for all R&D projects in the sectors of the Centre itself.



MARINE ROBOTICS AND TECHNOLOGY RESEARCH CENTRE (SCOGLIO DELLA REGINA)

www.sssup.it

The new Research Centre in the field of Marine Technologies and Robotics originates from advanced robotics (ArtsLab) and micro/nanoengineering (CrimLab) laboratories of the Scuola Superiore Sant'Anna, in the Sant'Anna Centre, Valdera of Pontedera (Pisa). The research themes developed in the Leghorn laboratory are about the specific "marine" sector and biorobotics, a branch analysing interactions and integration of the biological world and the world of machines and robots. The highly experimental approach is meant for technological knowledge and innovation.



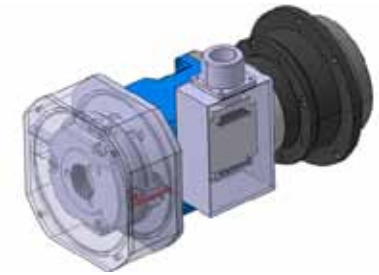
At present, the Centre is carrying out research for developing and implementing new marine robotics technologies, as well as marine robots for environmental monitoring (as happens with the "HydroNet" and "V-Fides" projects), or for other types of exploration and maintenance actions ("PoseiDRONE" project). Moreover, it is involved in projects for design and development of new biomimetic technologies (actuators, sensors, systems and other components), inspired by marine species and for marine applications (OCTOPUS and Octo-Prop projects).specie marine e per applicazioni marine (progetti OCTOPUS e Octo-Prop).

Competence centres using and contributing to hi-tech ICT technology development

CENTRE 12 – MECHANICS CENTRE

www.polo12.it

Centre 12 provides innovative services for the mechanic sector, such as testing, material experimentation, hi-tech ICT planning, prototyping, technological due diligence, benchmarking.



The mechanical segment addressed by Centre 12 is not just automotive, railway or aerospace sectors, but it is also precision mechanics or robotics; therefore, it includes production of machinery and systems that can be used in the energy, pharmaceutical, medical and textile fields.

COMPOLAB

www.compolab.it

Compolab is a "Regional Competence Centre" with specialisation in automotive components. Today it manages the Regional Innovation Centre for Mechanics: Centre 12. Moreover, Compolab is the leader of a temporary association with specific purpose (ATS), currently gathering over 300 companies mostly operating in the sector of mechanics, in several specialisations, and permanently collaborating with the Universities in the area – University of Pisa, the Biorobotics Institute of the Scuola Superiore S. Anna of Pisa.

Compolab provides services for innovating processes and products, from the conception and planning stage to carrying out and production; it can support research and high-level technological transfer for actions in the territory. Moreover, the Centre is experienced in drawing up and managing research projects to be financed.

TECHNOLOGICAL DISTRICT OF RENEWABLE ENERGIES AND REGIONAL INNOVATION CENTRE PIERRE

www.polopierre.it

PIERRE (Energy Saving and Renewable Energy Technology Innovation Centre) gathers the most important research and service centres for relevant energy and sciences, on regional level: business associations and almost 300 enterprises generating 10,000 jobs and 4 billion turnover, on the whole. It operates in the sector of renewable energy and energy saving, promoting innovation activities, technological transfer, enterprise cooperation, common use of installations, exchange of knowledge and experiences, and access to loans and contribution for R&D.

The entity managing PIERRE is made up of 13 service and research centres: CoSviG (leader), Navacchio Technological Centre, Environmental and Energy Provincial Agency of Siena, Empoli-Valdelsa Area Development Agency, Universities of Siena, Pisa, Florence, Magona Technological Centre Consortium, Scuola Superiore Sant'Anna, CNR Organometallic Compound Chemistry Institute, Colle Val d'Elsa Environment and Energy Research Centre, Climate and Sustainability Foundation, European Laboratory of Nonlinear Spectroscopy.

CPTM – MAGONA TECHNOLOGICAL CENTRE

www.polomagona.it

The Magona Technological Centre Consortium (CPTM) operates as both research centre and experimental centre on commission by third parties; the laboratory is certified by RINA for tests on materials; applications range from chemical and material engineering to environmental protection, industrial safety, energy industry, renewable energies and green chemicals.

CPTM is a node for companies seeking new solutions and applied research, carried out in a synergic way through the competence matured by universities, engineering companies and building companies. It was established in 1997, within the operation to recover the industrial area in Magona di Cecina, Leghorn; buildings and scientific instruments were made available by the municipalities of Cecina and Rosignano

Marittimo, the Province of Leghorn and the University of Pisa. Today, twenty companies are operating together with the four public founders.

UNIVERSITY LOGISTIC SYSTEM

www.els.adm.unipi.it

Service Centre of the University of Pisa whose purpose is promoting and carrying out university level training, as well as scientific research development and innovation in the logistic sector. The Centre is financed and supported by the following bodies: the Municipality of Leghorn, the Province, the Chamber of Commerce, the Cassa di Risparmio Foundation, and the Port Authority of Leghorn. The Centre plays an interactive and mutual role between the University and the local territorial system: without losing its international characteristics, the University is the driving force of a development process based on increasing the value of the peculiarities in the territory, thanks also to the establishment of a highly complex multifunctional service centre, capable of interacting with the main local socio-economic actors.

PENTA CENTRE. TUSCAN EXCELLENCE NAUTICAL CENTRE

www.polopenta.it

The Centre operates to transfer technological and scientific expertise and competence to reach the following operational goals:

- stimulate and accept the innovation demand of the companies joining the Centre and, in general, of SME in the Tuscan nautical sector;
- support enterprises in accessing specialisation services with high added value, to support diffusion of innovation between the companies in the Centre and external enterprises;
- facilitate enterprise access to scientific and technological knowledge, as well as networks and resources in national or international scenarios, in the field of scientific research and industrial oriented innovations;
- grant sharing of equipment, research laboratories, experimentation, tests and certification.

CIBM APPLIED ECOLOGY AND MARINE BIOLOGY INTERUNIVERSITY CENTRE "G. BACCI" OF LEGHORN

www.cibm.it

CIBM, Applied Ecology and Marine Biology Interuniversity Centre "G. Bacci" of Leghorn, supported by the Municipality of Leghorn and several Central and Northern Italy Universities promotes advanced and specialisation scientific activities backing university and post-university activities in the environmental sector; it also carries out consulting activities for public and private bodies in projects for safeguarding the marine and coastal environment. The Centre is specialised in environmental surveys necessary to carry out dredging, implement cables and pipes, build docks, dams, coastal remake, polluting substances analysis, studies and environmental impact assessments, management of fish resources and marine protected areas, etc.

NAVIGO – TUSCAN NAUTICAL DEVELOPMENT AND INNOVATION CENTRE

www.navigotoscana.it/content/distretto

NAVIGO operates in a highly specific sector, supporting enterprises by offering a wide range of consulting services to nautical companies, for their competitive, innovative and market development. The main services provided by Navigo are: favourable credit terms, process computerisation, advanced certification, integrated planning, training, innovation, international promotion, communication and marketing, business events, administrative simplification, university-enterprise research services, and European projects.

11. Facilities and Incentives

Leghorn provides a selected offer of grants for investors, supported by innovation and qualified employment incentives.

Local and regional, as well as national and European policies are conceived in the wake of that. Policies are rigorously monitored by institutional, local and regional operators taking care of spreading information via computer.

Therefore, for an investor, it is very easy and it needs a very short time to make sure whether it is possible to obtain remarkable incentives for the investment project, or anyway, for one's case. The whole regional context has the firm intention to be part of **Programmes such as Horizon 2020 and Cosme.**

Small but quite easily accessible incentives are:

- **R&D investment tax bonus (Ministerial Decree – Ministry of Economic Development 23/10/2013, G.U. 21.01.2014, no. 16,** giving **tax credit for 35% and up to 200,000 euros to all the companies engaging technical and scientific qualified personnel**, such as doctors of philosophy and staff with technical or scientific masters);
- contributions for registering patents (up to 30,000 euros) or their economic value increase (up to 80% of costs paid, until the maximum contribution of 70,000 euros).

The Chamber of Commerce of Leghorn issues calls for enterprise contributions. Some of the most important ones for 2014: actions to foster environmental and quality certification, as well as SOA accreditation, to grant contributions for purchasing and installing security systems, for participating in exhibitions and fairs, enterprise networks, to support SME investment programmes, and to support start-up firms.

Camera di Commercio Livorno

The open competitions are available at: www.li.camcom.gov.it/promozione/bandi2014.

Web regional sources for seeking incentives in Leghorn

The first information source for a company intending to invest in Leghorn and seeking information about possible contributions is the **site of Tuscany Region**, section **enterprise/calls for loans**:

Regione Toscana

www.regione.toscana.it/imprese/bandi-per-finanziamenti

Tuscany Region publishes an **Incentive Guide for enterprises** updated every two months; it is a precious information instrument to find out the right solutions in the opportunity 'jungle'.

Moreover, an **Online Guide of Open Calls** provides direct access to single calls for incentives and co-financing to companies; the calls in questions are those issued by the Region, the State and Europe, they are open and expiring soon, in the various sectors.

Moreover, the guide includes **tax reliefs, benefits for engaging workers, and the simplifications introduced by the Government for enterprises.**

Tax reliefs and measures for enterprise simplifications are independent loan sections.

Therefore, the interesting pages are as follows:

- **Sections dedicated to enterprises and jobs**

www.regione.toscana.it/imprese
www.regione.toscana.it/imprese/lavoro-e-formazione

- **Section dedicated to calls**

www.regione.toscana.it/imprese/bandi-per-finanziamenti
www.regione.toscana.it/bandi-europei

- **Section dedicated to investment attraction**

Tuscany Region Office: Regional policies to attract investments
www.regione.toscana.it/imprese/attrazione-investimenti

12. Services for Investors

Within the Invest in Tuscany network, the Municipality of Leghorn pledges to offer potential investors a complete range of customised, free and strictly confidential services, in order to facilitate the settlement process, from the pre-settlement stage to the real settlement.

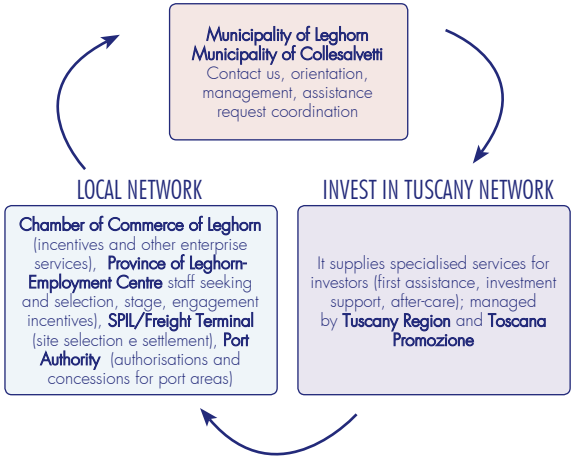
The information and care service for investors is free; it is meant to help and follow operators interested in acquiring elements and data; it facilitates relations with several public or private contact persons to meet any needs.

The purpose of this "**invest-in service**" is to assist and support investors and enterprises throughout the process, giving them opportunities to get all the necessary information to decide on the conditions to carry out one's investment plan.

The free service offered by the **Centre for Employment in the Province of Leghorn** on human resources is particularly interesting for start-up settlements:

SERVICES AND INCENTIVES FOR INVESTORS

Enterprises and investors find a cosy business environment in Leghorn, thanks also to a special support service coordinated by the Municipality of Leghorn; among other things, this service gives companies opportunities to obtain incentives and contributions, which is particularly interesting for activities linked with R&D and the most innovative ICT segments.



technical assistance to access the IT System for Compulsory Communications about work relationships, Services for combining company employment request with job requests, for training courses, and for obtaining incentives for engaging new staff.

Service supply for investors: Municipality of Leghorn, Invest in Tuscany networks and BUILD table.

13. Contact us

Here are the points of reference and information and care centres for operators interested in assessing production investment opportunities in the Leghorn area.
Those who want to take into consideration Leghorn as possible settlement place for enterprise development can contact the following entities directly, asking for further and detailed information:

MUNICIPALITY OF LEGHORN -
Assessorato al Lavoro e allo Sviluppo economico
Piazza del Municipio, 1 - 57123 Leghorn
tel. +39 0586 820117
www.comune.livorno.it

PROVINCE OF LEGHORN - Employment Centre
Via Marradi, 116 - 57123 Leghorn
tel. +39 0586 269711
ci.livorno@provincia.livorno.it
www.provincia.livorno.it

CHAMBER OF COMMERCE OF LEGHORN -
Entrepreneurial Development and Economic Information Office
Piazza del Municipio, 48 - 57123 Leghorn
tel. +39 0586 231316 - 231319
promozione@li.camcom.it
www.li.camcom.it

INVEST IN TUSCANY - Tuscany Region Presidency General Management
Settore politiche regionali per l'attrazione degli investimenti
Piazza Duomo, 10 - 50123 Florence
tel. +39 055 4382425 / 5033 / 4896
info@investintuscany.com
www.investintuscany.com

TOSCANA PROMOZIONE
Via Vittorio Emanuele II, 62-64 - 50134 Florence
tel. +39 055 462801
info@toscanapromozione.it
www.toscanapromozione.it

Municipality of Leghorn
Assessorato al Lavoro e allo Sviluppo economico
1, Piazza del Municipio - 57123 Leghorn
Tel. +39 0586 820117
www.comune.livorno.it - build.comune.livorno.it

GREEN ECONOMY *environment* ENERGY chemistry

MARINE ECONOMY logistics *port* NAUTICAL marine technology

MANUFACTURING *mechanics* AUTOMOTIVE aerospace *science of life* PLANT ENGENEERING maintenance

HI-TECH ICT robotics *engineering*

Execution, Graphics & Translation:

PROMO P.A. FONDAZIONE
RICERCA ALTA FORMAZIONE PROGETTI

SIMURG RICERCHE

Localglobal