







Quantum for Italy the Dataset





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PREFACE: NQSTI, the National Quantum Science and Technology Institute



Claudio Pettinari

NQSTI President, Full Professor of General and Inorganic Chemistry Università degli Studi di Camerino

Quantum science and technology is rapidly reshaping the frontiers of innovation, offering transformative potential across communication,

computation, sensing, and secure information. In this dynamic context, Italy has taken a decisive step forward with the establishment of the *National Quantum Science and Technology Institute* (*NQSTI*) — a coordinated national effort designed to strengthen the country's leadership and competitiveness in the quantum domain, a consortium that was founded by 20 Italian entities, but is currently expanding.

Supported by PNRR investments, *NQSTI* has created an integrated ecosystem that connects universities, research institutes, and industrial partners. This network not only enhances access to state-of-the-art infrastructures but also promotes technology transfer, cross-disciplinary collaboration, and advanced training for the next generation of quantum scientists and engineers. A recent and relevant milestone achievement in this process has been the creation of **Quantum Technology Fabs** designed to support industry and academy researchers in prototyping and validation of quantum devices - a concrete foundation for long-term life and sustainability and innovation capacity.

Today, *NQSTI* represents both a scientific hub and a strategic instrument for national growth. Its coordinated model supports Italy's participation in the European quantum agenda and ensures alignment with international initiatives. Through its open and collaborative approach, *NQSTI* stands as a **fundamental bridge between research, industry, and policy**, providing expert insight and evidence-based guidance for building the future of quantum technologies in Europe.

The fall of 2021 saw the creation of a group of 23 experts from Academia and Research institutions, following the publication of the Italian government guidelines. These experts shared an analysis of the QST know-how available in the country, of the obstacles to its full valorization and translation into economic growth and sustainable development, and a vision of the main directions capable of bringing the radical innovation requested by the guidelines. This study was then shared with leading enterprises operating in Italy: new goals and needs completed the report. The analysis represented the starting point for the elaboration of the *National Quantum Science and Technology Institute* as a PNRR proposal. The *NQSTI* coordination's programs aim to overcome the current structural weaknesses of the Italian systems, such as fragmentation of research lines and organizations, scarcity of personnel, poor funding, inadequate digital infrastructure, and lack of exploitation of the existing facilities/laboratories.





NQSTI's vision is that the extraordinary PNRR funding must be used to update technical facilities and strengthen the QST community in the next few years, but even more importantly, it must be channeled to drive the national community into an ordinary and sustainable condition of increased impact, visibility, and capacity to modernize and support the competitiveness of the Italian economy.

The **National Quantum Science and Technology Institute** (NQSTI) is a consortium that intends to:

- (i) team up Italian entities carrying out competitive and innovative research in the field of quantum science and technology (QST), and
- (ii) stimulate future industrial innovation in the field, providing a forum in which novel ideas and opportunities are transferred to companies.

In order to ensure a long-term positive effect on the Italian economic growth and development, the whole innovation chain was considered: from the strengthening and coordination of the low-TRL research, to its translation into prototypes, favoring interfacing with industrial needs thanks to strong outreach and continued-education programs.

The *National Quantum Science and Technology Institute* long term goal is to contribute to the establishment in Italy of a Knowledge Transfer (KT) System for Quantum Technology i.e. to manage the activities and the processes through which knowledge, expertise and qualified personnel flow between the research system (institutes, universities, research centers) and the community of end users in the industrial sectors, in commerce, in the service and in the public sectors.

Within NQSTI, the goal is to create a dedicated single-point provider for SMEs where they will be able to find educational programs for their existing staff, new QST-trained personnel, and opportunities to innovate products and processes by participating, through dedicated open calls, in collaborative projects with our project participants. NQSTI aims particularly to effectively connect low-TRL research with companies' R&D divisions, either by leveraging on the existing industrial infrastructure or by stimulating the creation of new companies.



Serafino Sorrenti

NQSTI Honorary Chair Chief Information Security Officer (CISO) Presidency of the Council of Ministers of the Italian Government

The National Quantum Science and Technology Institute (NQSTI) constitutes a precious national asset for the advancement of quantum technologies in Italy. Its coordinated structure, scientific excellence, and deep understanding of both the national and international quantum ecosystem make it an

indispensable partner to the vigorous governmental initiatives currently shaping this strategic domain.

Thanks to its technical competence and **extensive network**, *NQSTI* serves as an **authoritative interface** between the research community, industry, and policy makers. In this pivotal phase of





the digital transition, it plays a crucial role in supporting the integration of quantum-driven innovation into Italy's technological and industrial fabric.

This document is a tangible example of how **NQSTI** can serve as a **reliable and timely source of information and analysis** to assist policy makers in monitoring progress and shaping informed strategies for the future of quantum technologies in Italy.

NQSTI is organized in 9 Spokes: the first 2 dedicated to establishing the theoretical and conceptual framework of the systems to be developed, and the following 3 dedicated to the technological platforms needed to implement those concepts defined in terms of the quantum of choice (atoms or molecules, photons, electrons), Spoke 6 dedicated to the integration of the developed devices into functional modules, Spoke 7 dedicated to research on system architectures. Spokes 8 and 9 are transversal Spokes dedicated to Technology Transfer and Education and Outreach, respectively (see *figure 1*).

Theory

Platforms

Spoke 3

Atom-based

Spoke 6

Information Processing and Communication

Spoke 2

Simulation, Sensing and Netrology

Spoke 5

Electron-based

Spoke 7

Computing

Spoke 7

Complete System

Metrology, Sensing, Enhanced Imaging

Spoke 8

Technology Transfer

Spoke 9

Education and Outreach

Figure 1. The NQSTI Spokes' structure

Overall, the Partnership comprises 20 participants (public, non-profit entities, and private companies). The Hub was set up in the form of a limited liability consortium (SCARL) with the involvement of all public participants and is hosted in CNR central seat in Rome.

Its mandate is:

- ensure the coordination and management of the overall program towards the Italian Ministry of Research (MUR) and the Spokes, according to the agreement with the MUR and European/national rules for expenditures;
- monitor Spokes and participants, address gender-equality issues and diversity management;
- provide recommendations on the most appropriate solutions for achieving the selected research results;





- coordinate and promote interactions among "Spokes" and with stakeholder organizations;
- provide centralized program management support (e.g., periodic workshops, website hosting, etc.);
- promote educational programs and workforce development.

Within the Hub organization described above, *NQSTI* is scientifically coordinated by a steering committee formed by the Spoke leaders and chaired by Professor Fabio Beltram. Each Spoke is organized with a scientific coordination team comprising all activity leaders, and managing coordination is ensured by the Participants' representatives.



Fabio Beltram

NQSTI Scientific Coordinator

Full Professor of Experimental physics of matter and applications
Scuola Normale Superiore

The National Quantum Science and Technology Institute (NQSTI) represents a strategic national initiative aimed at consolidating and advancing Italy's capabilities in quantum technologies. Through coordinated action and the support of PNRR funding, NQSTI has modernized research infrastructures,

fostered collaboration among universities, research centers, and industry, and trained a new generation of scientists. Its open and integrated model has successfully unified national competences, enhanced technological platforms, and stimulated innovation and technology transfer. The recent establishment of Quantum Technology Fabs is particularly relevant since it ensures long-term sustainability by providing shared facilities for the design, prototyping, and certification of quantum devices and systems.

This document reflects *NQSTI*'s strategic vision and outlines the national landscape of quantum technologies, highlighting their essential role in strengthening Italy's scientific excellence, industrial competitiveness, and contribution to a vibrant quantum ecosystem.

The knowledge transfer system for QST

NQSTI is designed to effectively coordinate the efforts to bring science and development within all main stakeholders, in primis Research Organizations, Universities, and Industry, reconciling the different purposes and time horizons (figure 2). This coordination will make it possible to overcome the current structural weakness that limits the ability to transform Italian blue-sky research into innovation. The aim is to create products and services with high added value, generating great opportunities for the social and economic well-being of the community (health, safety, energy, environment). It is equally necessary to combine the effort in research and innovation with a suitable upgrade of the education and training system. The goal to be achieved is the creation of a learning ecosystem capable of transferring the basic concepts of quantum science at all levels, from school to professional environments. It is necessary that the key concepts





of quantum mechanics become an integral part of the training curriculum for all innovation actors, starting with engineers and computer scientists, as well as, naturally, chemists and physicists. This not only serves to train workers ready for the quantum revolution but also to create an advanced, informed society with open knowledge and attitudes towards quantum technology.

The long-term vision of *NQSTI* is the establishment of a national institute capable of structuring human resources, technical infrastructures, public and private investments to promote scientific research, technological development, and, in the medium term, industrial adoption of QST. In other words, a new ecosystem of innovation in which today's ability to study and manipulate single quantum objects (atoms, photons, molecules, nano-devices) results in tomorrow's industrial applications (see *box 1*).

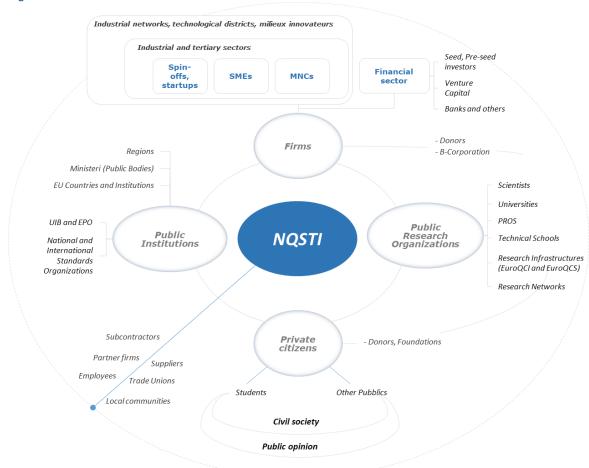


Figure 2. The NQSTI Stakeholders

Box 1. The National Research Plan for QST

The National Research Plan 2021-2027 (MUR, 2020) sets a series of overarching objectives. Within the scope of the Extended Partnership and taking into account the other efforts financed within M4C2 and by EC, the successful completion of our program will realize those objectives:





- Make Italy a key player of QST, both as a supplier of qualifying technologies, as a developer of integrated platforms and algorithms, and as an industrial end-user.
- Make Italy technologically independent by creating vertical production chains of quantum devices.
- Demonstrate the possibilities of QST for the increase in the efficiency of devices and systems and for improving the sustainability of industrial processes and the energy efficiency of consumer products.
- Set up at the national level a **QT supply chain** for:

i) integrated electro-optical, photonic and scalable hybrids;

ii) devices based on semiconductors, superconductors, molecular nanomagnets, photonic, atomic and hybrid systems;

iii) miniaturized quantum sensors based on neutral atoms, superconductors and opto-electro-mechanical devices:

iv) quantum imaging devices;

v) quantum interfaces capable of combining different platforms;

vi) test, validation and certification of QST systems.

All this is obtained by completing existing infrastructures, complementary in different areas (superconductivity, cryogenics, etc.).

- Create a National Institute for Quantum Technologies that allows to preserve and enhance the great
 national human capital and the key technologies for industrial development. NQSTI will have a
 federative role in the national community, and provide coordination and support between research
 and industrial development as well as between the different QST, within a network, and in synergy
 with the European strategy.
- Create new interdisciplinary paths of Higher Education (master's degree and doctorate) in this advanced and rapidly evolving scientific sector to prepare highly specialized staff and in possession of transversal skills involving industrial realities in training and academic research.

SPOKE 8 "Technology Transfer"

Among the various mechanisms to encourage the transfer of academic knowledge, the commercialization of research results (IPRs, licensing, spinoffs) is the tool that has generated the greatest number of insights in the last thirty years, both within the scientific literature and within institutional reports (*OECD* 2011, 2013, 2019). Although patenting and licensing activities represent effective ways to contribute to the development of the economy and society, several other ways exist through which scientific knowledge flows between public research bodies and non-academic organizations (see *box* 2).

Box 2. The Knowledge transfer (KT) for the EU

Knowledge transfer (KT) is a concept used broadly to describe the flow of (scientific) knowledge between research organizations (including universities and PROs) and business, with the objective of creating socio-economic impact through promoting better use of the (public) research base. This concept replaced the formerly used "Technology Transfer" (TT) to reflect the wider knowledge base than just technology being transferred. Nowadays, the term "knowledge exchange" is used instead to reflect the fact that the





flow of knowledge is neither one-dimensional in the direction "research organization to industry", nor only between the players on this scale (multidimensional), European Commission (2014).

The European Commission (2020) underlines how Knowledge Transfer is a complex process that involves many non-scientific and non-technological factors, as well as many different stakeholders. Good or high-quality research results are not enough for successful technology transfer; general awareness and willingness, both at the level of organizations and individuals, as well as skills and capacity related to specific aspects, such as access to risk finance and intellectual property (IP) management, are also necessary components.

NQSTI intends to push for the adoption of the most diverse mechanisms of knowledge transfer, both formal and informal, with an interdisciplinary and holistic approach: cooperative research, joint laboratories, personnel exchanges, participation and organization of roadshows and fairs (see *figure 3*). The several channels of technology transfer, in fact, play a different role according to the specific context in which they develop and according to the objectives declared by the organizations participating in the process (see *box 3*). Furthermore, informal mechanisms are often important catalysts for more formal instruments of exchange (Debackere and Veugelers, 2005). ¹

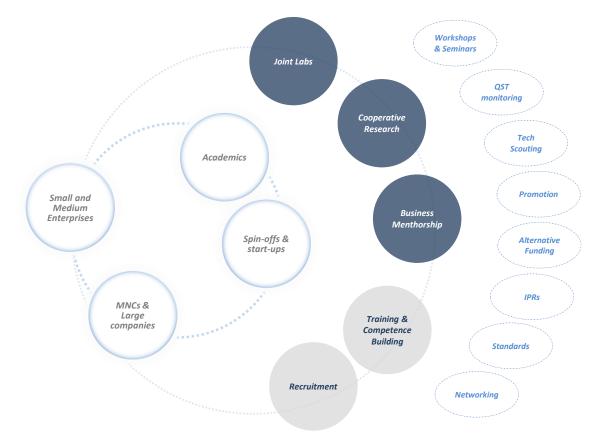


Figure 3. The NQSTI "Knowledge Transfer" activities

¹ For more Information on NQSTI Spoke 8 "Technology Transfer" activities: https://nqsti.it/technology-transfer



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Spoke 8 "Technology Transfer" Coordinator
Researcher

Istituto di Calcolo e Reti ad Alte Prestazioni del Consiglio Nazionale delle Ricerche

"As actors in the *National Quantum Science and Technology Institute*'s technology transfer activities, we first have to **analyze and understand**

the national QST system. Knowledge on the international and Italian industrial quantum structure is scarce and scattered across multiple sources (academic literature, consulting and institutional reports, *EU-Cordis* repositories, IPRs, and VC's datasets).

Incomplete Information could lead to incorrect or worthless decisions at the national level and in companies' long-term choices. **Strategic monitoring is** always **ongoing**"

Box 3. The main goals of NQSTI Knowledge Transfer

Main Goals of NQSTI "Knowledge Transfer" are:

- to translate basic research into applied knowledge;
- to know and to collaborate with science-based companies;
- to **develop "academic engagement"** in knowledge transfer;
- to boost the "absorptive capacity" of companies;
- to create trust and promote team spirit within the NQSTI network;
- to reduce socio-cultural, organizational and technical barriers between academia and companies;
- to take advantage of all **formal** and **informal** collaboration tools;
- to encourage the creation of **new companies** in the sector;
- to train a **new class of scientists and entrepreneurs** in the sector;
- to attract investments and talents, also through internalization processes;
- to **inform** main stakeholders about Quantum Technologies, scientific developments, initiatives, and use cases implemented at the national and international level;
- to obtain the maximum **economic and social benefit to society** from research activities on the technological frontier.

SPOKE 9 "Education and Outreach"

Carrying out the ambitious and highly innovative program of *NQSTI* requires highly qualified and specialized personnel who are able to operate within scientific and industrial organizations both at the national and international level in an extremely advanced and rapidly evolving scientific sector. From the point of view of human resources training, these characteristics pose non-trivial challenges, also considering that interdisciplinary skills are required, transversal with respect to the usual disciplines into which the university system is divided.

These needs originate from the academic/research world and are driven more and more from the industrial demand, where the interest in QT has rapidly increased in the last decade, initially stimulated by large multinational companies, and progressively also from small/medium enterprises and spinoffs, focused on specific devices and/or applications.





The level of Italian university education is generally very high and internationally appreciated. In the QT sector, at the time of the writing of the proposal, a few specific degree courses dedicated to QT were present, coming mostly from physical science. Recognizing the relevance of human resources training from the perspective of a longer-term horizon of the *PNRR* duration, *NQSTI* has decided to invest in the development of quantum-technology-oriented education and training via the activities and resources of *Spoke 9*. In this effort, special care has been devoted to guaranteeing wide access to the QST field, taking into account factors such as gender equality and diversity.

The activities carried out by *Spoke 9* encompass all the levels from high school to higher education, but it also includes the essential training at the professional level both of high-school teachers and of industry employees, which is required to increase the amount of highly qualified personnel towards quantum technology (see *box 4*).



Elisabetta Paladino, PhD

Spoke 9 "Education and Outreach" Coordinator Full Professor of Theoretical physics of matter, models, mathematical methods and applications Università degli Studi di Catania

"An extremely advanced and rapidly evolving scientific sector poses non-trivial challenges. We need an interdisciplinary training system

that goes beyond actual academic departments. The industrial ecosystem, as well as the ambitious and highly innovative program of *NQSTI*, requires **highly qualified and specialized personnel**"

The effectiveness of these actions is tightly connected to the general awareness of the extraordinary revolution that QTs are bringing closer and closer to everyday life, as witnessed by the decision of the *United Nations General Assembly* to declare 2025 the *International Year of Quantum Science and Technology*. Because of the broadness of the research, knowledge transfer, education and outreach activities carried out at the national level and within international collaborations, *NQSTI* is one of the *Distinguished Partners* of the *IYQ*².

Another aim of *Spoke 9* is to raise awareness on QST of civil society, particularly with companies and professional organizations that do not yet know the potential of quantum technology but might become relevant stakeholders in the future. A vast number of outreach initiatives at all levels have been undertaken and are in progress in the course of 2025³.

To implement this work program NQSTI has exploited the expertise on education and outreach of the consortium partners, firmly based on the output of the Quantum Flagship Initiative under the QTEdu Coordination and Support Action and on the

³ Detailed Information is on: https://nqsti.it/index.php/activities/outreach.



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² More Information is on: <u>https://quantum2025.org/</u>.



recommendation of the Italian *Programma Nazionale per la Ricerca 2021-2027* (MUR, 2020).

Box 4. The main goals of NQSTI Education and Outreach

Main goals of NQSTI "Education and Outreach" are:

- Identification of QST educational strategies and available infrastructures and services;
- Establishment of training courses for high school teachers on QST topics;
- Establishment of **scholarships for specialized QST-training in industry** or joining academia/industry labs;
- Activation of **specialization internships** within existing Masters;
- Activation of new I and II level Masters in dedicated academic/industrial laboratories;
- Organization of **outreach events for civil society** and of info days dedicated to industries.





The NQSTI Report: purpose and objectives

NQSTI objective for all the academic institutions involved is to strengthen cooperation with the private sector in two complementary directions: inducing the research community to respond to the needs of industry and encouraging the latter to contribute to a re-launch of the technologies available to QST researchers.

Within the process of research valorization, one of the actions envisaged was the drawing up of a dataset of possible users of the knowledge produced inside the academic institutions. Furthermore, *NQSTI* aims at informing the academic, the industrial and the institutional stakeholders on major technical advances, state of development, use cases implemented, real-market applications, and standards definition at national and international levels.

The Italian industrial sector analysis was driven by the need to understand the main dimensions of the *Quantum Science and Technology National System*, to comprehend the principal variables of the internal market (geography, size, collaborations, and industries involved), and to fully channel fundamental Technology Transfer, Education, and Communication initiatives (see *figure 4*).

Figure 4. The first NQSTI TTOs' evidence

"The priority is to understand the context in which we are moving"

Needs

- Need of national coordination For Knowledge Transfer
 Activities in the Quantum Science and Technology field of
 research (benchmark to which to refer)
- What do industrial partners do in this field? Who are true industrial partners? What research do they conduct? What do they need? How to build long-term relationships with them? What are their education needs?
- Need to create a relationships and knowledge network
- Need of professional figures as bridges between scientific and industrial research activities

Actions

- Scientific outreach and sensibilization activities
- Proof of concept (POC) to advance TRLs (Technology readiness Levels); challenges to sustain Research 2
- Incubation and consulting services to RTDA and PhDs to form new entrepreneurial science-based firms
- Companies dataset in Quantum Science and Technology Industries (data collection and analysis)
- Coordination activities with the other Spokes (Methods and timina): internal Communication Strateay
- Technology Transfer seminars and education program
- Events participation definition (Communication Strategy)

It emerged early in the first meetings among the *NQSTI* partners that there was a need for a clear understanding of the national Quantum technological context, analyzing the essential characteristics, the value chain, the collaboration capacity, the research cooperation culture, and the propensity of the firms in Italy. Specific questions remain:

- How many firms in Italy work on QST research projects?
- Where are they?





- What are the main characteristics?
- Who is collaborating with whom?
- What are the main topics of investigation?
- In which industries do they operate?
- How do they build their cooperative networks?

Science-based firms are defined as organizations where the main source of technology lies in the R&D activities of the companies themselves (Niosi, 2000). The knowledge resulting from research, pure and applied, which is carried out in universities and other public research centers flows, thanks to the collaborative activities carried out to companies. However, only a knowledge base created thanks to internal R&D activities allows the company to benefit from the research that is carried out in other organizations (Cohen and Levinthal, 1989).

The backbone of Italian enterprises is represented by SMEs that in many cases do not have the resources and expertise to take advantage of the Quantum Revolution that is going to be pervasive and will influence several economic sectors. Is this vision fully authentic?

Through the construction of an *original dataset of firms*, the *NQSTI* Report intends to represent a first picture of the Italian QST Knowledge system, shedding light on the leading actors, analyzing primary industrial sectors and applications, investigating the geographical distribution of companies and spinoffs, questioning the strategic missions, and reflecting on emerging trends.

The scope of the document is to describe the current efforts towards the implementation and deployment of quantum technology (QT) in Italy, through the presentation of the main global dynamics and politics. Notably, the report includes four separate Chapters.

The First Chapter presents an investigation of the institutional and consulting literature on quantum technology and markets, analyzing industrial segments (quantum communication, quantum computing and simulation, and quantum sensing), public and venture capital financing, outlooks, and trends on a global scale. The aim of the Chapter is to represent international dimensions broadly by comparing the most relevant references and offering insights for further in-depth analysis.

The Second Chapter introduces European policies related to Quantum Science and Technology, explicitly describing the Quantum Flagship initiative and the Quantum Europe Strategy. The scope of the Chapter is not to analyze single European national policies, but to contextualize the Italian national system of innovation inside the European general framework.





The *Third Chapter* analyzes the QST system by investigating the original *NQSTI* dataset. It presents a *comprehensive overview of Italian companies entering the quantum industrial sectors*. Several key highlights emerged, including the geographical distribution of these companies, the industries to which they belong, and the markets they serve. One particular section focuses on the role of Italian startups, emphasizing their growing importance in this field (a list of these startups is provided in the text).

Finally, the Fourth Chapter aims to represent and analyze each Quantum "vertical" (computing, communication, simulation, and sensing), further highlighting synergies and interdependencies among them, and evidencing the relevant role played by supporting firms and other industries. Along with the analysis of the quantum sectors of application, a particular focus will be on Italian research and industrial excellence, analyzing specific business case studies.

Direct interviews were conducted to give voice to the protagonists who live in the Quantum industrial and scientific systems. Indeed, a specific set of questions has been asked to: academics with specific Technology Transfer backgrounds (Chapter One), venture capitalists operating in Italy (Chapter Three), and CEOs and research managers of QST firms (in all Chapters).

Relevant questions pertain to actual and future QST industrial applications, supply chain challenges, the current state of final markets, hypothesized outlooks, and underlying significant difficulties faced in strengthening coordination and excellence.

The report aims to provide an initial representation of the state of the art in national industrial sectors, offering a valid tool for discussion among all stakeholders of the Quantum Science and Technology system to support the development of an Italian research infrastructure and future strategic programs.





The Methodological Note

Several purposes drove creation of the database of firms that operate inside QST. In particular:

1. to investigate firms that effectively conduct research and production projects, utilizing QST properties;

QST Industry Mapping
Spoke 8

1 TTO's Dataset request

TTO's Dataset first evidences
analysis

Dataset consolidation and integration (several sources)

2 CORDIS dataset (request, cleaning and analysis)

3 NQSTI dataset consolidation

Report publication

Report presentations

Dataset diffusion and sharing

- 2. to draw up a list of firms representative of the national QST business world:
- 3. to enlarge as much as possible the sample of organizations considered (as for geographical scope, as for sectors involved);
- 4. to gather up-to-date information about the organizations considered;
- 5. to have a set of variables on which to draw some first considerations.

It is possible to recognize several different steps in sampling. At the beginning of the *NQSTI* project, the author tried to define first reliable sources for the extraction of the firms interested in the research (TTOs' partnerships, scientific literature, economic and consulting reports, newspapers' articles, participation in Conferences and Technological Fairs).

Then the main activity was the definition of the QST activity of the organizations (product and services offered, or research project conducted). The third stage of the investigation was the collection and consolidation of the data and variables for all the firms of the sample and, finally, the elaboration of the first results. All the research activities have been developed between January 2023 and March 2025. In particular, it is possible to identify three specific

phases in the collection of information on the QST companies.

Phase 1— the Technology Transfer Organizations panel

To start Quantum Science and Technology analyses in the Italian context, we begin collecting Information on the research collaborations put in place by all the partners participating in *Spoke 8* (15 TTOs)⁴. We started investigating companies that already cooperate or are about to start joint research and development projects with universities, EPRs, and foundations that are part of the *NQSTI* Extended Partnership. Obviously, we considered only companies that consider fields of applied research within the QST sectors and wanted to collaborate in these specific

⁴ 15 are the organizations participating to NQSTI Spoke 8 "TT" are: CNR- National Research Council, University of Naples – Federico II, Bruno Kessler Foundation, IIT - Italian Institute of Technology, Scuola Superiore Sant'Anna, Scuola Normale Superiore, University of Catania, University of Pavia, University of Padova, INFN – National Institute of Nuclear Physics, University Milano-Bicocca, University of Firenze, Sapienza University, University of Trieste, University of Camerino.



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scientific domains. The main questions were about the industrial sectors, the mechanism of cooperation, and the existence of shared IPRs.

First evidence of the elaboration of the dataset has been presented to the *First NQSTI Annual Meeting* (Rome, 15-16 January 2024). The dataset has been sent to the *Steering Committee* and to *Spoke 8* groups' coordinators to allow a discussion on the next steps to follow.⁵

Phase 2—the Cordis dataset

The Cordis' dataset⁶ allows the investigation of information about EU research and development projects. Established in 1994, it gives free access to EU-funded research and innovation, where you can find data on projects, topics, and publications funded by the EU's research programs. Cordis belongs to the Research and Innovation community platform of the European Commission.

Science-based firms form public-private partnerships to join EU projects with the aim of addressing the most pressing challenges through concerted research and innovation initiatives. European Partnerships are a key implementation tool of *Horizon Europe* and significantly contribute to achieving the Union's political priorities, reducing the fragmentation of the research and innovation landscape⁷.

It has special meaning, consequently, to analyze the private partners that participated in the European research programs.

Dataset - HORIZON EUROPE - Projects with at least an Italian organization (Public or private)

Extraction date: 14th May 2024 (from the beginning of 2021 to)

Keyword: Quantum

Total number of projects extracted: 197

Total number of projects analyzed for the discussion: 1838

Main Information: abstract, financial measure, research fields, typology of the organization, dimension of the firm, dimension of the investment, network of organizations (participating institutions), beginning and end of the project.

The cleaning of the dataset has been realized through reading the project abstracts. Particularly, several research projects contained the words "quantum leap" in the description. Some projects have as core research activities directly linked to QST, other research programs investigate, on the contrary, specific problems through the QST lens (partially, not as core research activity).

Phase 3—the NQSTI dataset consolidation

After completing the dataset with information available in institutional reports, in consulting and technological literature, specialized magazines, and the companies participating in TT and technological events, the scientific literature on QST was collected (see Bibliography). The reports describing QST sector structure in a general way or presenting specific industrial fields (sensing, computing, imaging) were then investigated. Still, to have an idea of the companies

⁸ Consequently, 14 projects are not considered for this analysis, specifically: ANDREAH (101046846), ARCHIMEDES (101057527), CUE-GO (101058349), ELOQUENCE (101094065), ETTS (101096405), EVAI (101104404), IMPACT4MECH (101112118), ISPLASH (101112295), MAPWORMS (101114050), MEETWEEN (101116257), NEXTGEM (101135916), OLAMUR (101135916), PRESTO (190181809), and QUANTUM (190190195).



⁵ From the first meetings of the participants emerged clearly that there were Disclosure Agreements between PROs and companies that limited the complete gaining of the Information on Technology Transfer Mechanisms and partnerships.

⁶ https://cordis.europa.eu. Accessed May 2024.

⁷https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-opencalls/horizon-europe/european-partnerships-horizon-europe en. Accessed September 2024.



directly involved in the QST research, the datasets belonging to *Quantum Flagship* (*Quantera*⁹), *QUIC* (*Quantum Industry Consortium*¹⁰) and *EPO* (*European Patent Office*) reports (*EPO*, 2023a; *EPO*, 2023b) have been analyzed.

Participants in international trade fairs and conferences are another meaningful source of QST firms. Trade fairs always show companies active in different markets, looking for new clients, new partnerships, and new collaborations. Firms participating in several workshops, summer schools, and public-private meetings were considered.¹¹

The various sources gave birth to a first list of private organizations that exploit QST. Many firms, of course, were cited several times in the papers, in the economic reports and on the websites. For every single company, the authors preliminarily verified whether the firm belonged to the QST sector (in the case of non-specific events). They gathered this information through the official website that describes the products, or the services offered, the markets served and the research processes they are conducting. In the case of companies' websites that resulted poor in the description of the activities or, on the contrary, too big to understand if there exists a direct link to QST, they made use of other references, particularly of newspapers and magazines' articles (interviews and business case studies presented on the firms' websites on the page "Press releases or media").

The variables and limits

The information gathered for all the companies in the sample is:

- Business name;
- Head Office (city, state);
- Websites URL;
- Dimension: spinoff, SMEs, other;
- Year of establishment;
- Short description of the products or services offered (mission);
- ATECO codes;
- Markets served;
- QST sectors;
- Others (general notes).

To have a clear classification of the QST fields, the author followed the taxonomy realized by CEN-CENELEC exposed in van Deventer et al. (2022). The representation of the QST pillars made to orient standardization actions at European levels illustrates a simple and shared description of the main quantum sectors (a schematization of the model is offered in the first Chapter, figure 5). It has been decided, nevertheless, to consider only the platforms and systems classification. The dataset aims to represent a first step through the gathering and analysis of the QST Italian Industrial System. Authors hope in the next editions to add other relevant sources of information, such as VCs' investments in the national territory or specific IPRs analysis.

https://quantera.eu/wp-content/uploads/D6.1 Database updated-version- Feb2021 no contacts-1.pdf

¹¹ All the Knowledge Transfer events participated by *NQSTI* members are cited here: https://nqsti.it/activities/knowledge-transfer



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⁹ Quantera, Quantum Landscapes Database. Accessed July 2024.

¹⁰ European Quantum Industry Consortium, QUIC Member List. Accessed September 2024. https://www.euroquic.org/members-list/



The Italian Dataset

https://docs.google.com/spreadsheets/d/1qf0zLszLeym3w zfuJnxHDaG-hTwts6o/edit?usp=sharing&ouid=109747324304263637924&rtpof=true&sd=true

Company	Sp in- of f	S M E	City- Headqua rter	Region	State	Activity - Mission	Ateco Code	industry	Year of founda tion
Aerospazio Tecnologie	N o	Ye s	Rapolan o Terme (SI)	Toscan a	Italia	Electric Rocket Propulsion	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	2000
AFR MILANO	N o	Ye s	San Donato Milanese	Lomba rdia	Italia	Optical Components for Telecommunicat ions	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	Enabling Technolo gies	2000
Aindo	Ye s	No	Trieste	Friuli Venezi a Giulia	Italia	Al-Based Solutions / to enable artificial intelligence to add value to society while respecting our rights and freedoms	63 ATTIVITÀ DEI SERVIZI D'INFORMAZION E E ALTRI SERVIZI INFORMATICI	ICT	2018
AIRBUS	N o	Ye s	Roma	Lazio	Italia	Aerospace Design and Manufacturing	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	1970
AKKODIS ITALY SRL	no	No	Roma	Lazio	Italia	IT Consultancy	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	1949
AlmaVivA	N o	Ye s	Roma	Lazio	Italia	IT Consulting	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	2001
AM Microsystems	N o	Ye s	Macerat a	March e	Italia	Embedded Electronic Systems	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	2014
ARGOTEC SRL	no	Ye s	Torino	Piemo nte	Italia	Small Satellites and Astronaut	62PRODUZIONE DI SOFTWARE,	Aerospa ce	2008



						Comfort Solutions	CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE		
ASM TERNI SPA	no	No	Terni	Umbria	Italia	Energy Production and Distribution	35FORNITURA DI ENERGIA ELETTRICA, GAS, VAPORE E ARIA CONDIZIONATA	Energy	1960
AtomSensors s.r.l.	Ye s	Ye s	Sesto Fiorentin O	Toscan a	Italia	Quantum Sensors	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2015
BEDIMENSION AL SPA	Ye s	No	Genova	Liguria	Italia	Energy Storage and Conversion, Coatings, and Composites / Innovate industrial processes and create new performing solutions	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Energy	2016
BioAge Srl	N o	Ye s	Lamezia Terme	Calabri a	Italia	High-tech scientific instruments and design services.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	2003
Bit4ID	N O	Ye s	Napoli	Campa nia	Italia	Digital identification and electronic signatures	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2004
Bluetensor Srl	N o	No	Trento	Trentin o Alto Adige	Italia	Al-Based Business Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2006
Sensortech Italy (Bosch)	N o	Ye s	Milano	Lomba rdia	Germa nia	Quantum sensors	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	2005
BRIGHT SOLUTIONS SRL	N o	Ye s	Cura Carpigna no	Lomba rdia	Italia	Laser Technology	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E	Enabling Technolo gies	1998



							ATTIVITÀ		
							CONNESSE		
Bright101	Ye s	Ye s	PISA	Toscan a	Italia	Industrial development of optical systems with LED or laser sources	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	2019
CAEN SpA	N o	Ye s	Viareggi O	Toscan a	Italia	Particle physics, nuclear physics, and industrial electronics	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1979
CAMBRIDGE RAMAN IMAGING SRL	Ye s	Yes	Verona	Veneto	Italia	Chemometric Imaging for Cellular Analysis / To offer highly precise and detailed imaging of tissues and cells, allowing for more accurate diagnoses of diseases and a better understanding of their underlying mechanisms.	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	2005
CELLEX SRL	N O	Ye s	Roma	Lazio	Italia	Innovative Solutions for Human Life and Environment	72RICERCA SCIENTIFICA E SVILUPPO	Others	2018
CENTRO NAUTICO PERMARE S.R.L.	N O	Ye s	SANREM O	Liguria	Italia	Nautical Industry Solutions	33RIPARAZIONE, MANUTENZIONE ED INSTALLAZIONE DI MACCHINE ED APPARECCHIATU RE	Others	1973
Centro Ricerche Astrea Scarl	N o	Ye s	Lamezia Terme	Calabri a	Italia	Development of sensors	72RICERCA SCIENTIFICA E SVILUPPO	Sensing	2009
Cisco	N o	Ye s	Vimercat e	Lomba rdia	Italia	Networking and IT technologies	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	ІСТ	1984



Civitanavi COMMPLA SRL	N o	Ye s	Civitanov	March e	Italia	Development and production of advanced navigation and inertial stabilization systems	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	2012
	N O	Ye s	Pisa	Toscan a	Italia	User-Centered Digital Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2010
Consorzio CREO	N o	Ye s	L'Aquila	Abruzz O	Italia	Metamaterials	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	2009
Copan Italia	N o	No	Brescia	Lomba rdia	Italia	Manufacturing of chemicals	20FABBRICAZIO NE DI PRODOTTI CHIMICI	Others	1979
Crisel Instruments	N o	Ye s	Roma	Lazio	Italia	Wide-field confocal epifluorescence microscopy systems	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	1994
CSR CONSORZIO STUDI E RICERCHE SRL	N O	No	RIMINI	Emilia Romag na	Italia	Industrial Research and Acoustic Studies	82ATTIVITÀ DI SUPPORTO PER LE FUNZIONI D'UFFICIO E ALTRI SERVIZI DI SUPPORTO ALLE IMPRESE	Sensing	1976
COHARENTIA	Ye s	Ye s	Milano	Lomba rdia	Italia	Cohaerentia has developed an innovative diagnostic system that allows real-time monitoring of plants, machineries or civil infrastructures to improve the quality and efficiency of production processes in manufacturing industries and	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	Sensing	2015



						security in the civil sector.			
CUBIT s.c.a.r.l.	Ye s	Ye s	Cascina (PI)	Toscan a	Italia	Consulting / Adopting an operational model which integrates technological research and industrial experience with a continuous process of innovation and technology transfer, capable of increasing the competitiveness of companies.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2007
DATAPOWER SRL	N O	Ye s	Cagliari	Sardeg na	Italia	Economic and Technological Consulting	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Consulti ng	2021
DAY ONE SOCIETA A RESPONSABILIT A LIMITATA	N O	Ye s	Roma	Lazio	Italia	Venture Building and Funding	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Consulti ng	2013
DGS SPA	N O	No	Roma	Lazio	Italia	Cybersecurity and IT Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1997
Digital Superconductin g Quantum Machines (DSQM)	Ye s	Ye s	Pisa	Toscan a	Italia	Development of advanced IT solutions	27FABBRICAZIO NE DI APPARECCHIATU RE ELETTRICHE ED APPARECCHIATU RE PER USO DOMESTICO NON ELETTRICHE	Enabling Technolo gies	2022



DOMPE FARMACEUTICI SPA	N O	No	Milano	Lomba rdia	Italia	Pharmaceutical Supply Chain	21FABBRICAZIO NE DI PRODOTTI FARMACEUTICI DI BASE E DI PREPARATI FARMACEUTICI	Others	1940
DYNAMIC OPTICS	Ye s	Ye s	Padova	Veneto	Italia	Development of optical and photonic technologies / Providing unique innovative transmissive wavefront modulators, ultra-high reflectivity deformable mirrors and solutions for wavefront sensing metrology.	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	2017
E 4 COMPUTER ENGINEERING SPA	N O	Ye s	Scandian o	Emilia Romag na	Italia	High- Performance Computing and AI	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2002
ЕНТ	N O	Ye s	Catania	Sicilia	Italia	Heat pumps and solar panels	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Energy	2016
Else Nuclear	N o	Ye s	Busto Arsizio (VA)	Lomba rdia	Italia	Environmental monitoring, spectrometry, and shielding	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2008
Elt Group	N o	Ye s	Roma	Lazio	Italia	Electrical systems	72RICERCA SCIENTIFICA E SVILUPPO	Energy	1985
EMOLED SOCIETA A RESPONSABILIT A LIMITATA	Ye s	Ye s	Firenze	Toscan a	Italia	Medical Devices / Developing highly innovative medical devices, the result of advanced research in the field of photonics	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Others	2014
EMOTION SRL	N O	Ye s	Galatina Le	Puglia	Italia	Electric Vehicle Charging Systems	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Energy	2014



ENEA	N o	Ye s		Campa nia	Italia	Research, technological innovation, and the provision of advanced services	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Energy	1982
ENEL	N 0	Ye s	Roma	Lazio	Italia	Energy Production and Distribution	35FORNITURA DI ENERGIA ELETTRICA, GAS, VAPORE E ARIA CONDIZIONATA	Energy	1962
ENERBRAIN S.R.L.	N o	Ye s	Torino	Piemo nte	Italia	IT consulting	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2015
ENGINEERING - INGEGNERIA INFORMATICA SPA	N O	No	Roma	Lazio	Italia	Digital Transformation	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1980
ENGYS SRL	N O	Ye s	Trieste	Friuli Venezi a Giulia	Italia	CFD Software Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2009
ENI	N o	Ye s	Roma	Lazio	Italia	Oil extraction	06ESTRAZIONE DI PETROLIO GREGGIO E DI GAS NATURALE	Energy	1953
EPHOS	Ye s	Ye s	Milano	Lomba rdia	Italia	Integrated Photonic Circuits / Minimizing signal loss, enabling customers to build scalable quantum infrastructures.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2022
ERICSSON TELECOMUNIC AZIONI SPA	N o	No	Roma	Lazio	Italia	Telecommunicat ions	61TELECOMUNI CAZIONI	TLC	1876
ETG RISORSE E TECNOLOGIA SRL	N o	Ye s	Chivasso	Piemo nte	Italia	Gas Analysis	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E	ICT	1996



							ATTIVITÀ CONNESSE		
Exprivia spa	N o	Ye s	Molfetta	Puglia	Italia	Design and development of innovative software technologies and IT services for the banking, medical, industrial, telecommunicati ons, and public administration sectors	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2000
FOCOOS AI	N o	Ye s	Torino	Piemo nte	Italia	Development of AI solutions for optimizing complex processes through real-time data analysis	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2022
FORESEE BIOSYSTEMS SRL	Ye s	Ye s	Genova	Liguria	Italia	Gas Analysis and Biosensors / Developing innovative solutions for the assessment of in-vitro cardiotoxicity.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2021
GEM Elettronica	N o	No	San Benedett o del Tronto	March e	Italia	Quantum Nautical Industry Solutions	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	1977
GEMATEG ITALIA S.R.L.	N 0	Ye s	Perugia	Umbria	Italia	Sale of technological equipment and components	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	ICT	2018



GEMRAD	NO	Ye s	San Benedett o del Tronto	March e	Italia	Radar sensors production	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	1977
GEOMATICS RESEARCH & DEVELOPMENT SRL	Ye s	Ye s	Lomazzo	Lomba rdia	Italia	Geodesy and Remote Sensing Services / Structure displacement monitoring, Ground displacement monitoring, Gravity field modelling and inversion, Atmospheric sensing	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2000
GLASS TO POWER S.P.A.	Ye s	Yes	Rovereto	Lomba rdia	Italia	Glass-based energy conversion technologies / To develop transparent, aesthetically pleasing photovoltaic glazing that can be invisibly integrated into the architecture of buildings to align them with theNear Zero Energy Building (NZEB) standards, restoring and improving the living comfort of those who occupy them	72RICERCA SCIENTIFICA E SVILUPPO	Energy	2016



GRAFTONICA	Ye	Ye	Milano	Lomba	Italia	Solutions and		Enabling	2015
S.R.L.	S	S		rdia		consulting in technology and medicine / Use of new methodologies in order to compatibilize and disperse inorganic nanometric fillers within polymer matrices	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Technolo gies	-00
HAMAMATSU PHOTONICS ITALIA S.R.L.	N o	Ye s	Milano	Lomba rdia	Italia	roduction of photonic sensors and optical equipment	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1953
Hero (robotics) srl	N o	Ye s	Martina Franca	Puglia	Italia	Development of robotic solutions	72RICERCA SCIENTIFICA E SVILUPPO	Others	2018
HEWLETT- PACKARD CUSTOMER DELIVERY SERVICES ITALIA SRL	N o	No	Roma	Lazio	Italia	IT Support Services	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1939
IBM Italia	N o	Ye s	Milano	Lomba rdia	Italia	Technology solutions, IT services, cloud computing, artificial intelligence, and consulting	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1927
IDC ITALIA SRL	N o	No	Milano	Lomba rdia	Italia	Market Research and ICT Consulting	70ATTIVITÀ DI DIREZIONE AZIENDALE E DI CONSULENZA GESTIONALE	Consulti ng	1964
IDEAS & MOTION SRL	N 0	Ye s	Alba	Piemo nte	Italia	High-Tech Automotive Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2010
ILLYCAFFE S.P.A	N o	No	Trieste	Friuli Venezi a Giulia	Italia	Coffee Roasting	10INDUSTRIE ALIMENTARI	Others	1993



Infibra Technologies	Yes	Ye s	PISA	Toscan	Italia	Development of technologies and solutions in the field of optical fibers / Designing and manufacturing of next-generation fiber optic sensors systems, while also offering engineering services. Energy, Oil & Gas, Transportation and Civil Engineering are our target markets, with solutions even suitable for harsh environments.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2014
INTEGRATED SYSTEMS ENGINEERING SRL	N o	Ye s	Brugheri o	Lomba rdia	Italia	Systems Engineering Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2007
Intesa San Paolo	N o	Ye s	Torino	Piemo nte	Italia	Banking and financial services	64ATTIVITÀ DI SERVIZI FINANZIARI (ESCLUSE LE ASSICURAZIONI E I FONDI PENSIONE)	Others	2007
ITALTEL SPA	N o	No	Roma	Lazio	Italia	Telecommunicat ions	61TELECOMUNI CAZIONI	TLC	1921
Itsvil srl	N o	Ye s	Salerno	Campa nia	Italia	Development of advanced IT solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE"	ICT	2005
Ivert	N o	Ye s	Matera	Basilica ta	Italia	Sale of industrial and technological equipment	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	ICT	2018
JASCO EUROPE SRL	N O	No	Milano	Lomba rdia	Italia	Scientific Instruments	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	Sensing	1958
Kayser	N o	Ye s	Livorno	Toscan a	Italia	Design and production of systems and instruments for space missions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Aerospa ce	1986



LEITHA SRL	N o	No	Bologna	Emilia Romag	Italia	Digital Transformation	62PRODUZIONE	ICT	2020
				na			DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE		
Leonardo	N o	No	Roma	Liguria	italia	Defense and Aerospace	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	1948
Level Quantum	Ye s	Ye s	MILANO	Lomba rdia	Italia	Advanced IT Solutions / providing unconditional security to communications	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2022
Lutech Advance Solutions	N o	Ye s	Milano	Lomba rdia	Italia	Provision of consulting services, system integration, managed services, cloud operations, big data, and cybersecurity solutions.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2023
MBDA Systems	N o	Ye s	Roma	Lazio	Italia	Design and production of missile systems and defense solutions	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	2001
Mespac	N o	Ye s	Torino	Piemo nte	Italia	Development of advanced models and technologies for monitoring and forecasting marine weather conditions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	2022
Micro Photon Devices	Yes	Ye s	Bolzano	Trentin o Alto Adige	Italia	Development of single-photon devices for scientific research, medical, and industrial applications / Production and commercialisati on of advanced single-photon counting modules with unmatched photon-timing capabilities and overall performance	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	2004
MICRON SEMICONDUCT OR ITALIA S.R.L.	N o	Ye s	Vimercat e	Lomba rdia	Italia	Production of semiconductors and memory solutions	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E	Enabling Technolo gies	1978



							OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI		
NARRANDO SRL	Ye s	Ye s	SALERNO	Campa nia	Italia	Dosimeters for Radiology	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	2017
NATURE 4.0 SOCIETA BENEFIT SOCIETA A RESPONSABILIT A LIMITATA	N o	Ye s	Viterbo	Lazio	Italia	Experimental R&D in natural sciences and engineering	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	2018
NC - New Cleo	N o	Ye s	Torino	Piemo nte	Italia	roduction of electronic and connectivity equipment	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	2006
NetCom Engineering SpA	N o	Ye s	Napoli	Campa nia	Italia	Advanced and innovative engineering consulting and services.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2006
NEWRONIKA SPA	Ye s	Ye s	Milano	Lomba rdia	Italia	Advanced Neurostimulatio n Solutions / Restoring brain and body functions with neural devices	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Others	2013
NEXTWORKS	N 0	Ye s	Pisa	Toscan a	Italia	ICT Solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2002
NIREOS SRL	Ye s	Ye s	Milano	Lomba rdia	Italia	Optical Instruments / High Tech Solutions in Spectroscopy and Photonics	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2018
NOKIA SOLUTIONS AND NETWORKS ITALIA SPA	N o	No	Milano	Lomba rdia	Italia	Provision of telecommunicati ons infrastructure, services, and solutions for	61TELECOMUNI CAZIONI	TLC	1865



						network operators			
NTT Data Italia	N o	No	Milano	Lomba rdia	Italia	IT consulting, system integration, and outsourcing	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1988
NUOVO PIGNONE TECNOLOGIE S.R.L.	N o	Ye s	Firenze	Toscan a	Italia	Production of solutions for the energy industry, including gas turbines and compressors	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Energy	2000
OCEM	N o	Ye s	Bologna	Emilia Romag na	Italia	Manufacturing of lighting equipment, including LED and halogen lights	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1961
Optoi	N o	Ye s	Trento	Trentin o Alto Adige	Italia	Manufacturing of optoelectronic sensors for industrial, medical, and automation applications	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Sensing	1995
Optoprim	N o	Ye s	Vimercat e	Lomba rdia	Italia	Manufacturing of laser components and solutions for various industries, ranging from scientific research to industrial production	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1994
OSPEDALE SAN RAFFAELE SRL	N o	No	Milano	Lomba rdia	Italia	Healthcare Services and Research	86ASSISTENZA SANITARIA	Others	1969
PANGAIA GRADO ZERO SRL	N o	Ye s	MONTEL UPO FIORENTI NO	Toscan a	Italia	Technology Transfer	74ALTRE ATTIVITÀ PROFESSIONALI, SCIENTIFICHE E TECNICHE	Consulti ng	2001



Photon Technology Italy SRL	Ye s	Ye s	Napoli	Campa nia	Italia	Production and distribution of single-photon detection systems based on superconducting materials (nanowires/micr ostrips)	72RICERCA SCIENTIFICA E SVILUPPO	Enabling Technolo gies	2023
PicoStats	Ye s	Ye s	Trieste	Friuli Venezi a Giulia	Italia	Innovative solutions for satellite communication, maritime navigation, Earth observation, and space sustainability / aspiring to an interconnected world where people can use space-derived resources to improve community life in a sustainable way	72RICERCA SCIENTIFICA E SVILUPPO	Sensing	2018
Planckian	Ye s	Ye s	PISA	Toscan a	ITALIA	Quantum- powered energy management	72RICERCA SCIENTIFICA E SVILUPPO	Enabling Technolo gies	2022
Planetek	N o	Ye s	Bari	Puglia	Italia	Provision of geospatial solutions for Earth observation, spatial data management, and environmental monitoring / To enable people to act in an aware and timely manner in order to live better and preserve the Earth. We simplify the adoption of geospatial data in order to	72RICERCA SCIENTIFICA E SVILUPPO	Sensing	1994



						understand the world better			
PPQSENSE SRL	Ye s	Ye s	Sesto Fiorentin O	Toscan a	Italia	High-Quality Electronics for Laser Systems / aiming to contribute to the ecological transition and the emergence of the Net Zero carbon initiative by providing new technologies to researchers and industries.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	2016
Promete Srl	Ye s	Ye s	Napoli	Campa nia	Italia	Research and development in advanced technologies / R&D projects that have as their ultimate goal to promote the growth of competitiveness of SME	72RICERCA SCIENTIFICA E SVILUPPO	Consulti ng	1997
PROMOSCIENC E SRL	N o	Ye s	Trieste	Friuli Venezi a Giulia	Italia	Visual and digital solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2004
QBrain	N O	Ye s	Milano	Lomba rdia	Italia	Al application in medical diagnostics and clinical research	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2022
Qsensato	Ye s	Ye s	Bari	Puglia	Italia		72RICERCA SCIENTIFICA E SVILUPPO	Sensing	2024



QUNaTech	Ye s	Si	Napoli	Campa nia	Italia	Superconducting Nanowire Single Photon Detectors	72RICERCA SCIENTIFICA E SVILUPPO	ICT	2024
QTI - Quantum Telecommunica tions Italy	Ye s	No	Firenze	Toscan a	Italia	Advanced technologies for quantum telecommunicati ons / developing and produce reconfigurable quantum key distribution architectures	61TELECOMUNI CAZIONI	TLC	2020
QuantaBrain	N o	Ye s	Pisa	Toscan a	Italia	Al application in medical diagnostics and clinical research	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	2023
Quantum Design Europe	N o	Ye s	Roma	Lazio	Italia	Wholesale trade of equipment for materials science, microscopy, imaging, spectroscopy, photonics, nanotechnology, and life sciences	46COMMERCIO ALL'INGROSSO (ESCLUSO QUELLO DI AUTOVEICOLI E DI MOTOCICLI)	Enabling Technolo gies	1970
QuantumNet Srl	Ye s	Ye s	Napoli	Campa nia	Italia	Development of skills and solutions using quantum technologies	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2021
Quantum2Pi	Ye s	Ye s	Napoli	Campa nia	Italia	Our mission is to develop and implement cutting-edge Quantum Computing solutions that overcome current technological barriers	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE"	ICT	2024
Random Power srl	Ye s	Ye s	Como	Lomba rdia	Italia	Manufacturing of industrial machines and equipment / Design and development of an innovative system enabling data encryption and development of related services.	28FABBRICAZIO NE DI MACCHINARI ED APPARECCHIATU RE N.C.A.	ICT	2022
RDLAB137 S.R.L.	N o	Ye s	Assago	Lomba rdia	Italia	Research and development in advanced technologies	72RICERCA SCIENTIFICA E SVILUPPO	Enabling Technolo gies	2024



							I		
Reply - Quantum Computing Practics	N o	Ye s	Torino	Piemo nte	Italia	Programming and IT consulting.	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1996
RESI INFORMATICA SPA	N o	Ye s	Roma	Lazio	Italia	IT solutions for enterprise resource management and security systems	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1987
RINA CONSULTING - CENTRO SVILUPPO MATERIALI SPA	N o	Ye s	Roma	Lazio	Italia	Metamaterials and Advanced Materials	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Enabling Technolo gies	1993
RIVOIRA GIOVANNI & FIGLI S.P.A.	N o	No	Verzuolo	Piemo nte	Italia	Production and distribution of industrial and technical gases	19FABBRICAZIO NE DI COKE E PRODOTTI DERIVANTI DALLA RAFFINAZIONE DEL PETROLIO	Others	1920
RO TECHNOLOGY SRL	N 0	Ye s	Roma	Lazio	Italia	Industrial Automation	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2011
Rotonium srl	N o	Ye s	Gemona (UD)	Friuli Venezi a Giulia	Italia	Photonic Quantum Computers	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	ІСТ	2022
RULEX INNOVATION LABS SRL	Ye s	Ye s	Genova	Liguria	Italia	Development of explainable Al for understanding and interpreting processed data / Enabling people and organizations to take smart decisions and automate processes by harnessing their own business data and domain knowledge	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2014



Saes Rial Vacuum	N o	Ye s	Parma	Emilia Romag na	Italia	Production of vacuum pumps and vacuum control systems	28FABBRICAZIO NE DI MACCHINARI ED APPARECCHIATU RE N.C.A.	Enabling Technolo gies	2015
SCM GROUP SPA	N o	No	Rimini	Emilia Romag na	Italia	Manufacturing of machines and industrial components for processing wood, plastic, glass, metal, and composite materials	28FABBRICAZIO NE DI MACCHINARI ED APPARECCHIATU RE N.C.A.	Enabling Technolo gies	1952
SECURITY PATTERN SRL	N o	Ye s	Mazzano	Lomba rdia	Italia	IT Consultancy	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2017
SeeQC-EU srl	N	Yes	Roma	Lazio	Italia	Commercially scalable and cost-effective quantum computing solution	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	ICT	2017
SIGMA INGEGNERIA SRL	N o	Ye s	LUCCA	Toscan a	Italia	Design and development of engineering solutions for civil and industrial infrastructure	71ATTIVITÀ DEGLI STUDI DI ARCHITETTURA E D'INGEGNERIA; COLLAUDI ED ANALISI TECNICHE	ICT	2004
SLEEP ADVICE TECHNOLOGIES SRL	N o	Ye s	Torino	Piemo nte	Italia	Sleep Technology	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Others	2015



SMART FACTORY SRL SMARTEX SRL	N o	No Ye	Milano S.Giulian	Lomba rdia	Italia	ndustrial production and software development.	71ATTIVITÀ DEGLI STUDI DI ARCHITETTURA E D'INGEGNERIA; COLLAUDI ED ANALISI TECNICHE 69ATTIVITÀ	ICT Consulti	2016
SOCIETA' DI PRODOTTI E SERVIZI GIURIDICI INTERDISCIPLIN ARI	S	S	o Terme	a		between law, technology, and human capital	LEGALI E CONTABILITÀ	ng	
SOFTJAM SPA	N o	Ye s	Genova	Liguria	Italia	IT consulting in custom software development and digital transformation	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	1996
SOMACIS	N o	Ye s	Castelfid ardo	March e	Italia	High- performance Electronic eMbedded Systems	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1972
SPINDOX	N o	Ye s	Milano	Lomba rdia	Italia	Development and production of software and technological solutions	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ІСТ	2008
ST Microelectronic s	N o	Ye s	Catania	Sicilia	Italia	Manufacturing of semiconductors and electronic components.	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	Enabling Technolo gies	1987
STELLAR PROJECT SRL	Ye s	Ye s	Padova	Veneto	Italia	Satellite Communication and Space Sustainability / Starting to expand our activities on data analytics both for terrestrial applications and the space environment	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	sensing	2016



						providing tools for Space Debris Analysis and monitoring			
Sybilla Biotech	Yes	Ye s	Bresso	Lomba rdia	Italia	Development of small-molecule degraders with a novel mechanism of action to discover new drugs for medical needs / Focusing on developing small molecule degraders with a novel Mechanism of Action to find new therapeutics for unmet medical needs	72RICERCA SCIENTIFICA E SVILUPPO	Others	2017
TEKNE SRL	N o	Ye s	Ortona	Abruzz O	Italia	Aerospace Engineering	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Aerospa ce	1990
TELEA BIOTECH SRL	N o	Ye s	Sandrigo	Abruzz o	Italia	Quantum Resonance Medical Devices	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Sensing	2011
TELECOM ITALIA SPA	N o	No	Milano	Lomba rdia	Italia	Provision of telecommunicati ons services, including fixed- line, mobile, internet, and digital TV	61TELECOMUNI CAZIONI	TLC	1994
TELESPAZIO	N o	Ye s	Roma	Lazio	Italia	Design and production of equipment for the aerospace sector.	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	1961
TELSY S.P.A.	N 0	No	Milano	Lomba rdia	Italia	Cybersecurity and encryption services, communication security solutions.	61TELECOMUNI CAZIONI	TLC	1971



Test and Manufacturing Engineering SRL	N o	Ye s	Napoli	Campa nia	Italia	Production of electronic boards and testing systems electronic and electromechanic al devices	72RICERCA SCIENTIFICA E SVILUPPO	Enabling Technolo gies	2009
THALES ALENIA SPACE ITALY	N o	No	Roma	Lazio	Italia	Design and manufacturing of aerospace equipment	30FABBRICAZIO NE DI ALTRI MEZZI DI TRASPORTO	Aerospa ce	2000
THE CIRCLE SOCIETA AGRICOLA A RESPONSABILIT A LIMITATA	N o	Ye s	Roma	Lazio	Italia	Agricultural Company	01COLTIVAZIONI AGRICOLE E PRODUZIONE DI PRODOTTI ANIMALI, CACCIA E SERVIZI CONNESSI	Others	2015
ThinkQuantum	Ye s	Ye s	Sarcedo (VI)	Veneto	Italia	Quantum-based technology solutions for cyber security and communication systems (QKD and QRNG) / Offering quantum-based technology solutions for cyber security and communication systems	26FABBRICAZIO NE DI COMPUTER E PRODOTTI DI ELETTRONICA E OTTICA; APPARECCHI ELETTROMEDICA LI, APPARECCHI DI MISURAZIONE E DI OROLOGI	TLC	2021
TIM	N o	Ye s	Milano	Lomba rdia	Italia	Products and services for mobile and landline telecommunications	61TELECOMUNI CAZIONI	TLC	1994



T11 4			Danie	1	015	Decelerated of		E	2047
Titan4 TRUST-IT SERVICES SRL	N o	Ye s	Roma	Toscan a	Italia Italia	Development of technological solutions for optimizing energy infrastructure management. Digital Communication and IT Services	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE 62PRODUZIONE DI SOFTWARE,	Consulti ng	2017
						and it services	CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE		
TS-Way	N o	Ye s	Orvieto	Umbria	Italia	Research and development in advanced technologies	72RICERCA SCIENTIFICA E SVILUPPO	TLC	2010
UniCredit SpA	N o	Ye s	Milano	Lomba rdia	Italia	Banking and financial services	64ATTIVITÀ DI SERVIZI FINANZIARI (ESCLUSE LE ASSICURAZIONI E I FONDI PENSIONE)	Others	1999
VST srl	Ye s	Ye s	Modena	Emilia Romag na	Italia	Telemedicine Equipment	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	ICT	2003
WARRANT HUB SPA	N o	Ye s	Correggi o Re	Emilia Romag na	Italia	Business Consultancy	62PRODUZIONE DI SOFTWARE, CONSULENZA INFORMATICA E ATTIVITÀ CONNESSE	Consulti ng	1995
Xanadu	N o	Ye s	Pavia	Lomba rdia	canad a	Development of photonic quantum computers and cloud services	72RICERCA SCIENTIFICA E SVILUPPO	ICT	2016





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