



# ITALIA

at **SPACECOM**

AMERICA'S COMMERCIAL SPACE CONFERENCE AND EXPOSITION 2019



THE EXTRAORDINARY

ITALIAN TECH

Innovation Days

A primary component of the Italian Trade Agency's Technology Project USA, the Innovation Days program is divided into several initiatives, all aiming at affirming Italy's standing as an ideal partner for trade, investment and collaboration.

The concerned sectors range from renewable energy and aerospace to advanced manufacturing and life sciences, with a special attention to start-up companies. The second edition of the Innovation Days takes place in connection with major trade shows and conferences, between November 2019 and January 2020.

The participation at SpaceCom Expo 2019 is part of ITA's Innovation Days: the aim is to reaffirm Italy's position as a top solution provider to the US while encouraging engagements between some of Italy's leading companies and universities to create or further enhance existing partnerships with their US counterparts in commercial and research areas

[www.itahouston.com/spacecom](http://www.itahouston.com/spacecom)



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ITALIAN TRADE AGENCY

ITA - Italian Trade Agency is the Governmental agency that supports the business development of our companies abroad and promotes the attraction of foreign investment in Italy. With a motivated and modern organization and a widespread network of overseas offices, ITA provides information, assistance, consulting, promotion and training to Italian small and medium-sized businesses. Using the most modern multi-channel promotion and communication tools, it acts to assert the excellence of Made in Italy in the world.

**ITA – Italian Trade Agency**

1300 Post Oak Blvd, Suite 775, Houston, TX 77056

T. +1 281 888 4288 – F. +1 281 974 3100 – [houston@ice.it](mailto:houston@ice.it)

[www.ice.it/en](http://www.ice.it/en)



@ITAHouston\_



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In collaboration with



# AEREA

**AEREA S.p.A.**  
Via C. Cattaneo, 24  
22078 Turate (CO)  
Italy  
T. +39 02334831  
[www.aerea.it](http://www.aerea.it)

**AEREA Inc.**  
201 12<sup>th</sup> Street S.  
Arlington, VA 22202  
USA

**Contact:**  
*Giovanni Muretino*  
[murettingo@aerea.it](mailto:murettingo@aerea.it)



Founded in 1927, AEREA is one of Italy's oldest privately-owned companies in aerospace & defense sectors. Highly specialized in design, development, manufacturing, and post-production support of electromechanical and pneumatic store carriage and release systems and mechanical components for international air defense projects such as AV-8B II+, Eurofighter and F-35.

AEREA is exporting its knowledge by developing HDRM for solar panels on satellites, having conceived a mechanism easy to install, operate on ground and in flight, without need to replace or adjust components, highly reliable, and virtually shockless. The result is SHREK, planned to fly in 2020 on Platino mission.



# AEROSPAZIO TECNOLOGIE

Via Provinciale Nord, 42A  
Labs: Strada di Ficaiole  
53040 Rapolano Terme (SI)  
Italy

T. +39 0577705009  
aerospazio@aerospazio.com  
[www.aerospazio.com](http://www.aerospazio.com)

**Contact:**

*Fabrizio Scortecchi*



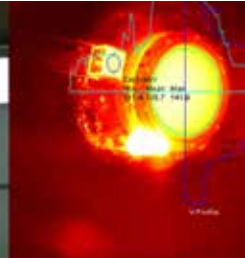
Regione Toscana



AEROSPAZIO Tecnologie was founded in 2000 with the aim of providing testing and engineering services in the fields of vacuum technology and Electric Space Propulsion to European industries and R&D organisations. Since its foundation, AEROSPAZIO has been involved in some of the most challenging European Electric Propulsion development programmes, including:

- The high power Ion Propulsion System testing for the ESA BepiColombo mission to Mercury,
- The Plasma Propulsion System testing for the ESA SmallGeo platform,
- The testing of the Safran PPS@5000 and the Fakel SPT-140 thrusters in the frame of ESA/NEOSAT programme.

To this aim, an extensive set of test facilities, including Large, Medium size Vacuum Test Facilities and EMI/EMC test room have been developed at Aerospazio and are now available for qualification testing of EP thrusters.



# ALMA SISTEMI

Via Dei Nasturzi, 4  
00012 Guidonia Montecelio (RM)  
Italy

[www.alma-sistemi.com](http://www.alma-sistemi.com)

**Contact:**

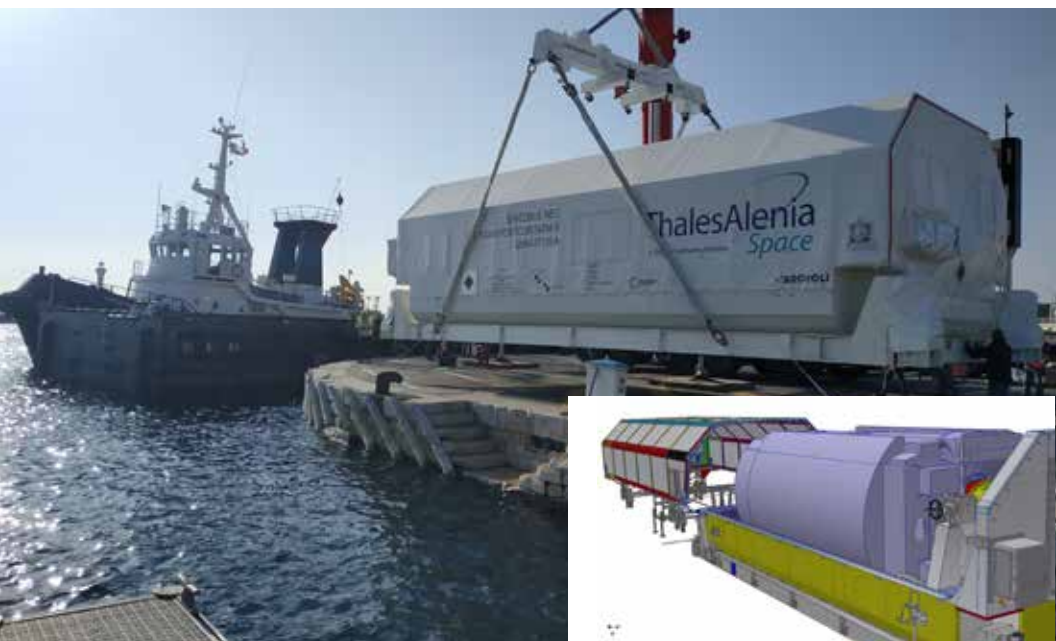
*Alessio Di Iorio*  
T. +39 3356317013  
[adi@alma-sistemi.com](mailto:adi@alma-sistemi.com)



ALMA Sistemi Srl is an Italian SME established in 2005 providing high level mechanical and software engineering and services in the space and defence markets for industries and research centres in the frame of European Space Agency, European Union and Italian Space Agency space programs.

The activities span from Research & Technology Development to industrial projects covering added value services and products with specific regard to Mechanical and Electrical Ground Support Equipment for satellite and payloads, remote sensing application, scientific instrumentation for planetary exploration and innovative antennas based on metamaterials.

ALMA has been providing mechanical engineering for the main European large-scale integrators Airbus D&S and Thales Alenia Space. ALMA has recently successfully delivered to Thales-Alenia Space, Cannes, France, in cooperation with Garofoli SpA, the largest transport container for Satellite ever build for the SPACEBUS NEO series' satellite with overall dimension of 13,0x5,4x4,2 mt. (LxWxH). ALMA is certified ISO 9001:2015 engineering.



## CONNEX ITALIANA

Piazzale Lugano, 9  
20158 Milano (MI)  
Italy

T. +39 0239321147

[www.connex-italiana.com](http://www.connex-italiana.com)

**Contact:**

*Marco Infrano*

*[marco.infrano@connex-italiana.com](mailto:marco.infrano@connex-italiana.com)*



Connex Italiana was founded in 1979 with the aim to propose and to design-in electrical and electromechanical components to main Italian OEM customers. Our main markets are Aerospace & Defense, Racing, Railways and Space. We are a Manufacturer's Representative company, continually seeking to represent new innovative companies, for the Italian market and we are also a worldwide specialized distributor/service provider with thousands of items available in stock. We are looking for companies interested to explore the Italian markets and we are looking for to sell products worldwide as a distributor AS9120B qualified.

# GRAPHENE-XT

Via D'Azeglio, 15  
40123 Bologna (BO)  
Italy  
info@graphene-xt.com

**Contact:**

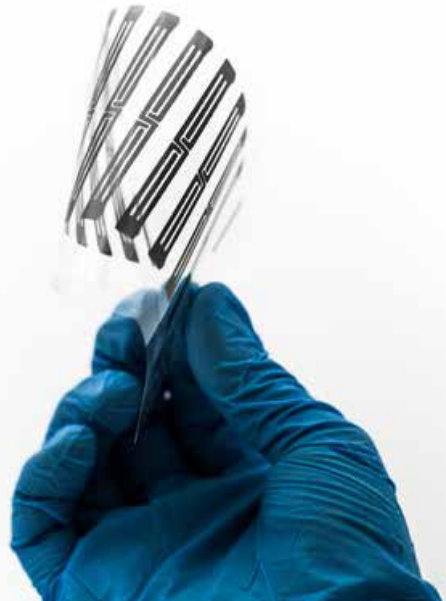
*Nicola Mirota*  
T. +39 3200290713  
info@graphene-xt.com



**GRAPHENE-XT**  
NEXT GENERATION MATERIAL

Graphene-XT is an innovative startup that develops and produces high quality graphene. It actively collaborates with customers with the aim of improving product characteristics and designing personalized solutions. Through a multifunctional approach it provides new and better functionalities to conventional products.

Graphene-XT uses graphene for several applications: lubricants, membranes, sensors, composites, coatings, inks, paints; it produces a continuous coating for metal-free recyclable ESD bags to be used in electronics (reducing the amount of wasted materials), or conductive patterns printable by inkjet printer or by industrial rotogravure process to fabricate sensors, dry high performances lubricants for fasteners in aerospace. Graphene-XT collaborate regularly with important universities and research institute in the world.





# INSTITUTE OF APPLIED PHYSICS – NATIONAL RESEARCH COUNCIL OF ITALY (CNR-IFAC)

Via Madonna del Piano, 10  
50019 Sesto Fiorentino (FI)  
Italy  
T. +39 0555226437

**Contact:**  
*Roberto Pini*  
[r.pini@ifac.cnr.it](mailto:r.pini@ifac.cnr.it)

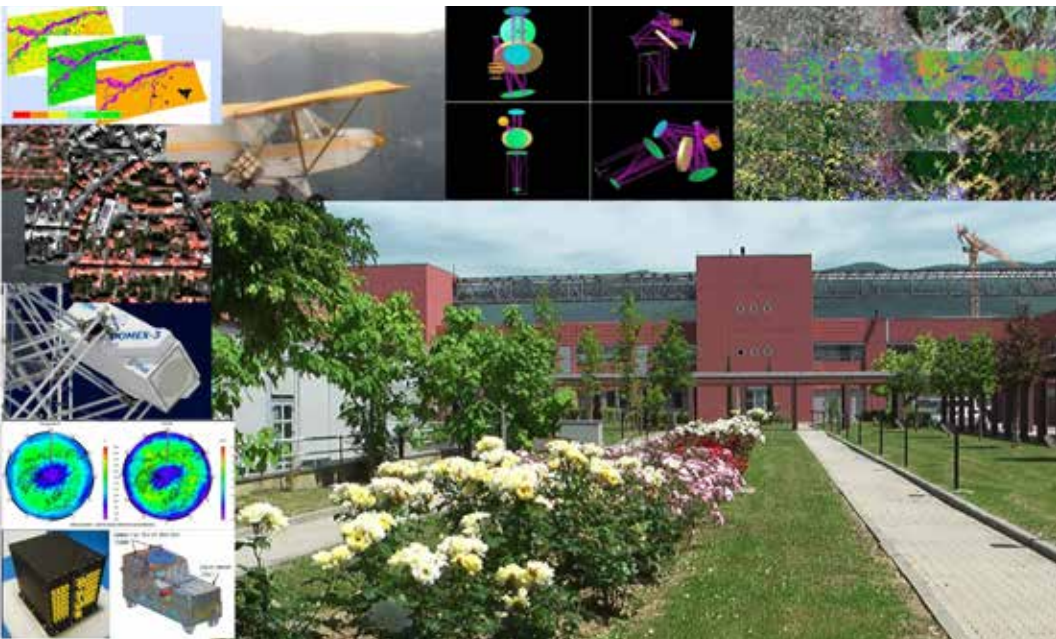


Regione Toscana



The “Nello Carrara” Institute of Applied Physics (IFAC) is part of the National Research Council (CNR), the main public organization pursuing research and innovation in Italy. IFAC carries out research activities and technological transfer in many areas of Applied Physics and ICT, as: SPACE, AEROSPACE and EARTH OBSERVATION, HEALTH, NANOMEDICINE and SAFETY, ENVIRONMENT and FOOD QUALITY MONITORING, CULTURAL HERITAGE. With particular regard to Aerospace, IFAC carries out research on:

- 1) Space: astrodynamics is devoted to study long term evolution and impact risk of spacecraft, space debris and asteroids in the Solar System.
- 2) Aerospace and Earth observation: innovative passive and active (e.g. LIDAR and SAR) aerospace instrumentation for remote sensing from optical to microwave frequencies, together with advanced methods and algorithms for processing of remotely sensed data, acquired from ground-stations, airborne and satellite platforms, for studies on the vertical sounding of the atmosphere and on bio-geophysical parameters.

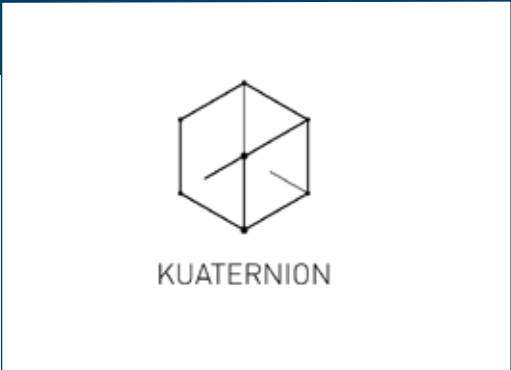


# KUATERNION

Viale Castrense, 21  
00182 Roma (RM)  
Italy

**Contact:**

*Alberico Sonnessa*  
T. +39 3289489315  
[albericosonnessa@gmail.com](mailto:albericosonnessa@gmail.com)



Kuaternion is a StartUp active in the field of high-precision GNSS positioning, remote sensing, photogrammetry and image analysis, with a vocation to develop innovative geomatic monitoring systems for the measurement, analysis and evaluation of the movement of buildings, structures and infrastructures, such as SELF-CONTROL.

SELF-CONTROL monitors the displacements of infrastructures and their fundamental kinematic parameters (velocities/accelerations); it is based on two different modules:

- The Earth Observation module employs optical and SAR satellite imagery for detecting large-scale phenomena interfering with the infrastructure and/or the surrounding area. This module monitors the position of the infrastructure at sub centimetric accuracy level, providing low-frequency data;
- The GNSS module leverages the patented VADASE® algorithm and the observations acquired by GNSS receivers installed on the infrastructure when a continuous and/or real-time monitoring is needed, also for fast-occurring phenomena, providing the positions of the monitored points at few millimeters accuracy level, estimating their velocities and accelerations.



## HOW DOES IT WORK

Start Up of SAPIENZA  
UNIVERSITÀ DI ROMA

EARTH OBSERVATION  
Module



OUR ALGORITHMS



GNSS  
Module



GEOMATICS MONITORING OF INFRASTRUCTURAL ASSETS



# LATITUDO 40

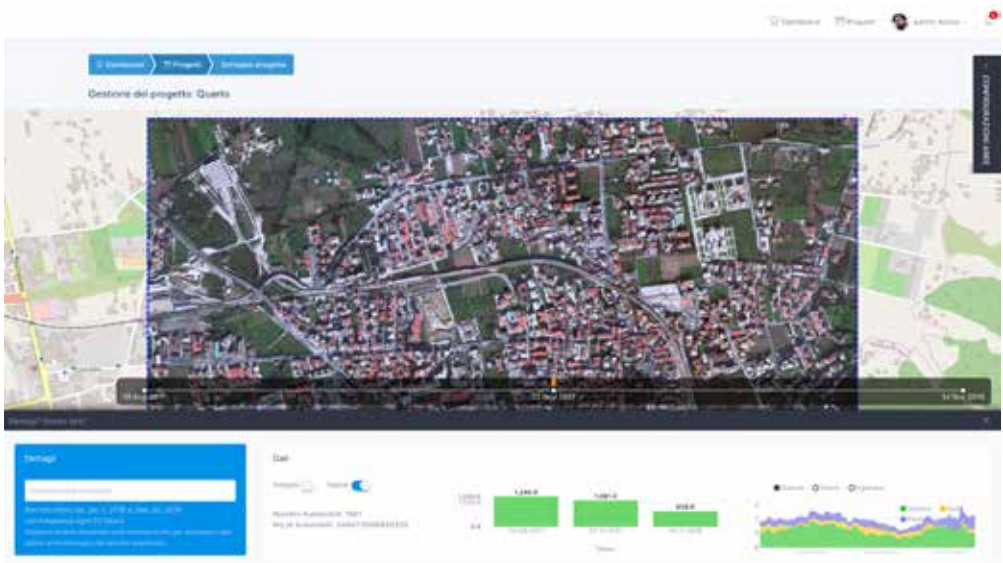
Via Francesco Verrotti, 4  
80128 Napoli (NA)  
Italy

**Contact:**

Gaetano Volpe  
T. +39 3355797883  
gaetano.volpe@latitudo40.com



We combine artificial intelligence, machine learning, and Big Data analysis to transform earth observation images into information for decision support. We find complex correlations that are difficult to identify with traditional tools. Applying these techniques to satellite imagery and geospatial data sets allows us to offer powerful decision support tools, using multi-temporal or spatial analysis dashboards or building custom applications through our APIs.



# PECCHIOLI RESEARCH

Via di Parga, 6  
50065 Pontassieve (FI)  
Italy  
T. +39 0558364427

**Contact:**

*Ernesto Pecchioli*  
[e.pecchioli@pecchioliresearch.com](mailto:e.pecchioli@pecchioliresearch.com)

**STEPHANIE**  
Interreg Europe



**Regione Toscana**



Pecchioli RESEARCH was born in 2009 in Florence, the cradle of Italian optical culture, from over 40 years of “on-field” experience devoted to problem solving in optical design and system production for high end application. Pecchioli Research proposes itself as system manufacturer thanks to its strongly/ state of the art equipped facilities, synergy with specialized laboratories and solid connections with research and industry. The ideal partner for optomechanical system in the industry, biomedical, research, astronomy, military and aerospace fields. Our products/services:

- Design & engineering of optic and mechanical systems (sw ZEMAX ; SolidWorks; MacLeod). Optical design with non sequential analysis. Technology development. Consultancies for system integration;
- Manufacturing of optical elements and systems, integration into custom systems and overall testing;
- Production capability: from prototype to mass production;
- Testing service and certification on optical parts and systems;
- Coating UV-VIS-NIR on glass and metals with ion gun and plasma assisted technology.



# PROMAC CNC MACHINE TOOLS

**Promac S.r.l.**  
Via Delle Industrie, 41  
30030 Salzano (VE)  
Italy

[www.promac.eu](http://www.promac.eu)

**Promac North America Corp.**  
1395 Wheaton Dr, Suite 200  
48083 Troy (MI)  
USA

**Contact:**

*Giulia Carraro*

*T. +1 2488172346*

*[giulia@promacmachinetools.com](mailto:giulia@promacmachinetools.com)*

The logo consists of the word "PROMAC" in a bold, white, sans-serif font, centered within a dark blue rectangular box. A thin red horizontal line is positioned directly below the box.

Promac is manufacturer of a wide range of 5-axis working centers for machining medium/large parts with complex shapes. The extreme rigidity of the structures and the high power provided by the spindles make these products particularly suitable for machining parts in steel or in special alloys. High technologies and ergonomic studies make using our work centers simple and intuitive at every stage of work. Promac knows how to perfectly adapt their technological innovation to any specific production requirement. NA Service department: Promac North America Corp, in Troy (MI).



# PROMEL

Via Guido Rossa, 24  
Cascine del Riccio  
50023 Impruneta (FI)  
Italy  
T. +39 0552094243

**Contact:**

*Tommaso Cecchi*  
T.+39 333 2232276  
[tommaso.cecchi@promel.it](mailto:tommaso.cecchi@promel.it)

**STEPHANIE**  
Interreg Europe



**Regione Toscana**

**PROMEL®**



PROMEL began its activity in 1986 as PROMEL, improving year by year its own planning/production capabilities, both in electronic and mechanical fields. PROMEL has a team of qualified technicians specialized for basic and detailed mechanical and electrical engineering, instrumentation and software development of integrated control systems and mechanical parts, manufactured based on customer requirements. Production, dimensional tests and functional tests with simulation of site equipment are entirely made at the production unit of PROMEL. We obtain during the years the most important Quality certification: ISO 9001:2018, ISO27001:2018 and NATO AQAP2110 (2016). PROMEL is able to provide Engineering activities, Mechanical Design, Service on site and complete production of mechanical and electrical devices.



## REGIONE TOSCANA

Via Luca Giordano, 13  
50132 Firenze (FI)  
Italy  
T. +39 0554382414  
[www.regione.toscana.it](http://www.regione.toscana.it)

**Contact:**

*Caterina Brizzi*  
[promozione.economica@regione.toscana.it](mailto:promozione.economica@regione.toscana.it)

**STEPHANIE**  
Interreg Europe



**Regione Toscana**

REGIONE TOSCANA – Regional Government of Tuscany (IT) – supports economic development and promotion of Small and Medium Enterprises by providing companies a direct and unique access to the latest knowledge, expertise and technologies required by technological and digital innovations.

One of the main carried out project is STEPHANIE – "Space Technology with Photonics for market and societal challenges" funded by the INTERREG EUROPE program for interregional cooperation: led by CNR-IFAC Institute of Applied Physics /OPTOSCANA (IT) - in partnership with Regione Toscana and 6 more European partners – STEPHANIE is designed to guarantee real benefits from space technology based on Photonics, particularly in space and earth observation. It specifically seeks to improve how policy tools support R&I delivery through quadruple helix cooperation and coordinated, simplified funding schemes aimed at promoting the development of marketable and society-oriented products and services.



# SAITEC



Regione Toscana

Via Fiorentina, 17/D  
50063 Figline Valdarno (FI)  
Italy

**Contact:**

*Marco Corti*  
T. +39 336471694  
[marco.corti@saitecsl.com](mailto:marco.corti@saitecsl.com)



SAITEC is a certified supplier registered in the International Aerospace Quality Group-Online Aerospace Supplier Information System (IAQG-OASIS) for development and manufacturing of Electronic Systems for Aerospace and Defense. SAITEC's success is largely due to continuous development of reliable and innovative solutions for this market.

Our business and investments are focused in Ground Support Equipment for Space Programs. A wide range of products are designed and manufactured according to the customer requirements, such as EGSE, OGSE, MGSE, ESG (Electrical, Optical, Mechanical Ground Support Equipment), UT (Unit Tester) and SCOE (Special Check Out Equipment). Our innovation capability and the ability to re-think standard solutions, together with our expertise and skills, guarantee customized high quality deliverables and professional support to our customers and partners.





# SESTA LAB



S.P.356 km 2,7  
53030 Radicondoli (SI)  
Italy

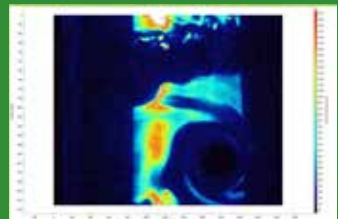
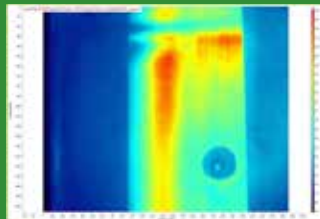
**Contact:**

*Giulio Grassi*  
T. +39 3311527872  
[g.grassi@sestalab.com](mailto:g.grassi@sestalab.com)

Sesta Lab is an industrial facility for HP combustion systems testing (size 0,1-100 MWt). Lab's users are industrials and academics. The job is to replicate the real boundary conditions around the combustion systems to finally delivery measurements (pressures, temperatures, emissions, pictures, etc.). The fuel flexibility is the strong point thanks to syngas, hydrogen, jet A1, etc. Sesta Lab services can reduce time to market, risks and costs. The combustion technology can be sellable without having the whole-final gas turbine, the exploration is not constrained by thermodynamic cycle or ambient conditions, the digital twin models can be validated (crux for unconventional fuels).

Since 2014 Sesta Lab has done business with ten big players worldwide! That success is allowing 22 million euros of investment. From 2021 Sesta Lab will offer optical and acoustic analysis in a brand new test cell.

You are welcome at our booth and in Sesta Lab.



## SOFTCARE STUDIOS

Via Franco Sacchetti, 52  
00137 Roma (RM)  
Italy

**Contact:**

*Valentino Megale*  
T. +39 3665031485  
[v.megale@tommi.com](mailto:v.megale@tommi.com)

Softcare  
STUDIOS



Softcare Studios leverages the benefits of immersive technologies and tracking in the fields of healthcare and wellbeing, in order to improve the quality of life of patients during therapy and boost healthcare efficiency.

Pain and anxiety in the stressful and limited clinical setting negatively impact the quality of life of patients during therapy, also reducing the efficiency of medical operations resulting in time delays and additional resources for patients management.

We provide a suite of drug free digital experiences in virtual reality to help patients cope with therapy and facilitate the work of doctors, optimised by unique stress related data collected during immersive sessions. Our first content is TOMMI, a VR experience dedicated to pediatrics, ready to market, undergoing successful hospital pilots in Italy and US. New contents dedicated to adults and elders are under development.







#### **HOUSTON**

1300 Post Oak Blvd  
Suite 775  
Houston, TX 77056  
T. +1 281 888 4288  
F. +1 281 974 3100  
houston@ice.it

#### **LOS ANGELES**

1900 Avenue of the Stars  
Suite 350  
Los Angeles, CA 90067  
T. +1 323 879 0950  
F. +1 310 203 8335  
losangeles@ice.it

#### **CHICAGO**

401 N. Michigan Avenue  
Suite 1720  
Chicago, IL 60611  
T. +1 312 670 4360  
F. +1 312 670 5147  
chicago@ice.it

#### **NEW YORK**

33 East 67th Street  
New York, NY 10065  
T. +1 212 980 1500  
F. +1 212 758 1050  
newyork@ice.it

#### **MIAMI**

1 SE 3rd Avenue  
Suite 1000  
Miami, FL 33131  
T. +1 305 461 3896  
F. +1 786 497 8900  
miami@ice.it

#### **ROME**

Via Liszt, 21  
00144 Rome, Italy  
T. +39 06 59921  
F. +39 06 89280353  
urp@ice.it

[www.ice.it](http://www.ice.it)

