

LAZIO INTO SPACE

LAZIO AEROSPACE
ECOSYSTEM:
THE DRIVING FORCE
OF SPACE INNOVATION



REGIONE LAZIO



Cofinanziato
dall'Unione europea



REGIONE
LAZIO



Camera di Commercio
Roma



Camera di Commercio
Roma
SILVANO L. 12/08/2010
Agenzia Speciale

Once again Lazio Region renews its support to the participation of local enterprises to NSE - New Space Economy European Expoforum 2023. Lazio is home to the heart of the Italian space industry: it is the only region with industrial and research skills capable of operating along all stages of the supply chain. In its capacity as a planning and steering body, the Region has thus chosen to give tangible support to the growth of this extremely important pillar of our economy. Thanks to the funds of the new 2021-27 programming period, which have almost doubled compared to the previous seven-year period, we will support the research and innovation activities of enterprises, technology transfer from research to enterprise, and the development of innovative startups and research spinoffs in the areas of our Smart Specialisation Strategy (RIS3), among which Aerospace is a priority sector. To these must be added the equally important national plans, which have found even greater impetus thanks to the PNRR funds earmarked for space and the resources of the European Commission's new space programme envisaged in the multiannual financial framework 2021-27. This is the playing field of a fundamental game for the competitiveness and technological autonomy of Italian and European industry. In the following pages you will find the descriptions of the 36 small and medium businesses showing here, at NSE - New Space Economy European Expoforum 2023 peaks of excellence of Lazio's Space Industry and its capability to combine great innovation and presence in the global arena.

LAZIO COMPANIES



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Advanced Electronic Biosystem is an Italian Startup born in 2018, founded by Engineer Paolo Marini, who brought an important technical and scientific contribution to the company, and has many years of experience in defense and aerospace-oriented electronics. Our company combines biomedical micro-electronics and data-analytics to make systems for the continuous and remote monitoring of vital parameters available to public and private healthcare, aimed at predictive medicine.



**WITH HEALTH,
WE PLAY AHEAD!**



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Alia Space Systems is a small Italian company specialized in the development and management of tools dedicated to spacecraft operations and space systems engineering.

Alia's key employees have high-level technical degrees and almost 20 years of experience in space, having been involved in European-wide space activities, actively engages in ESA projects: Mission Analysis, Copernicus satellite Mission Planning, Sentinel-1 support, and 4D Visualization for Destination Earth.





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ALMA Sistemi is an Italian SME providing high-level engineering and consultancy services in the space, defence and telecommunication market, certified ISO 9001. It has experience in R&D projects and industrial contracts in the space sector (Mechanical and Electrical Ground Support Equipment- MGSE). Our major MGSE customers are Airbus Defence and Space Germany, Spain, France, Thales Alenia Space Italy and France and OHB System Germany and Italy.



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We are an experienced startup in the space economy, specialising in leveraging space and terrestrial IT solutions to tackle evolving challenges amid rapid industry growth. Our focus is on unlocking market opportunities in the space economy, providing support to both public and private sectors. Currently engaged with ESA, ASI, and private companies, our projects span earth observation, precision agriculture, constellation business models, construction site safety, and satellite data utilisation.





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Brochesia develops intuitive and innovative solutions in Augmented Reality available on Smart Glasses, smartphones, tablets and PCs. Our digital applications are designed to create interactive and multimedia experiences, facilitate remote collaboration in the Aerospace sector and for planning different tasks, with the aim of creating connections between people and their skills in order to find the best solution to a problem and work together.



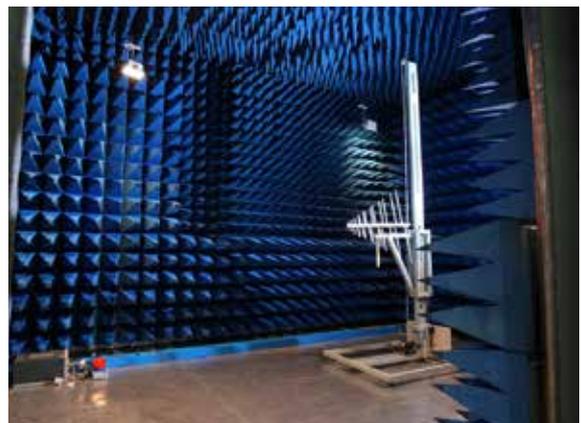
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Celab has been active in the Testing and Certification sector since 1997. In particular, we deliver the following services: EMC, LVD and RED laboratory testing and Environmental Qualification. Celab is a Notify Body for CE Marking.





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Hypatia is a research consortium that promotes technology transfer by stimulating the meeting between research laboratories and industries in the fields of energy, innovative materials, life sciences, EO and telecommunications with expertise in R&D and production of high-efficiency solar cells for space, stratospheric and terrestrial applications; business analysis, commercial guidance and access to EU funds and partner network and dissemination, communication and exploitation support.



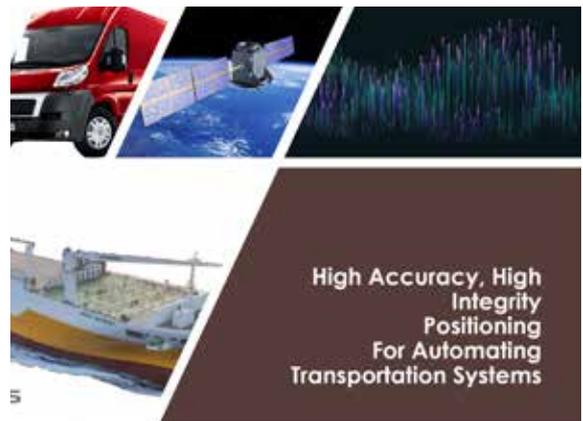
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Radiolabs is a no-profit Public-Private Partnership for innovation and knowledge transfer among the Universities of Roma-TRE, Tor Vergata, L'Aquila and Hitachi Rail STS, INTECS Solutions, and WestPole. Main applications are cybersecure Navigation and Communication platforms for automating transportation systems, including trains, autonomous road vehicles and ships. Radiolabs is part of an international research network for exploiting satellite, 5G and AI for an eco-friendly sustainable mobility.





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Data Vision has been a provider of design, management and support services in the high-tech and cybersecurity sectors for over 20 years, with a focus on ICT environments and digital transformation applied to critical infrastructures. We provide centralized and optimal management of IT and OT systems serving your Projects, guaranteeing the level of security required by the application. We cover the needs of the entire Project lifecycle: from Design to Production support.



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GMATICS provides geospatial services to support planning and management of urban areas and critical infrastructures. We use highly automated production chains and AI models, to process satellite imagery, aircraft/drone surveys, in situ sensors, geographical databases and socio-economic data. Information provided includes heat islands, air pollution, urban greenery, suitable sites for new infrastructures, construction site progress and identification of risk situations for energy and transport networks.





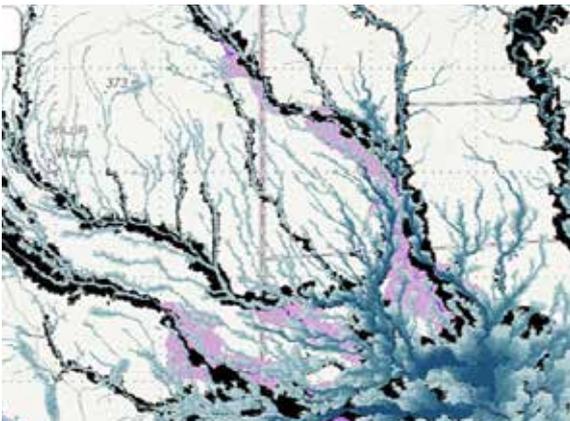
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GRIDDIT Srl is a start-up with the aim of developing and marketing of high technological products and services in the field of resource management and natural risks, in particular, software solutions to flood risk mapping and its related impacts on citizens. GRIDDIT leverages remotely sensed data to develop web services able to support insurance companies, infrastructure and asset managers, urban planners and freelancers on flood risk and flood damage assessment.



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HTT focuses on design, manufacture and value-added services for HiRel and VHiRel Custom MAGNETIC DEVICES and POWER ELECTRONIC EQUIPMENTS for Aerospace and Defense. With over 30 years of extensive hardware/software design and manufacturing experience, we offer t-key solutions and problem solving in collaboration with main research institutes and universities for industry players across Europe. HTT supports customers and partners from the first design stages with a cooperative approach and long term heritage in design, manufacture projects, innovative products and solutions.





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Future Space electronics require advanced thermal management due to increased power and miniaturization challenges. Conventional cooling systems struggle with rising heat densities in next-gen satellites. In Quattro proposes an innovative two-phase pumped loop technology, to be tested on a CubeSat for space validation. This technology is the initial phase in developing an advanced solution for high-power electronics, aiming for commercialization in the satellite and spacecraft market.



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INTECS Solutions, founded in 1974, is an Italian private Company at the forefront in design and implementation of high-tech electronic systems for the AeroSpace, Defence, Transportation and Telecommunication markets, where safety, reliability, innovation and quality are the key ingredients for success. INTECS designs and develops applications, tools and software components for complex electronic systems in cooperation with major Industries, Organizations, Universities and Research Centers.





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Latitudo 40 is an Earth observation start-up that, through the use of artificial intelligence and machine learning, extracts a wealth of information from satellite images and transforms it into KPIs useful for building sustainable and resilient cities of the future. By integrating the catalogues of the best satellite operators, it provides its customers with all the tools they need to achieve their goals. Learn from the PAST, look at the PRESENT and make the best decisions for the FUTURE.



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Projects carried out with Integrated Environmental Architecture (AAI), with innovative solutions and ESG requirements, for the remediation of air, land and water, slopes consolidation, hydrogeological instability, aquifer recovery, CO2 capture and storage, landfill remediation, energy production from Vetiver biomass, cleansing the seas and relaunching the global civil industry. Collaborates with Universities and Research Centres.





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Med Technology operates in the Aeronautical, Railway, Space, Military and Naval sectors as distributor and Service Provider especially of Chemicals and Raw Materials of High Technology products. The Management has over 30 years of experience and with passion, from day one, implements the working standards thanks to a professional, dynamic and efficient technical and administrative staff, ensuring solid and reliable partnerships.



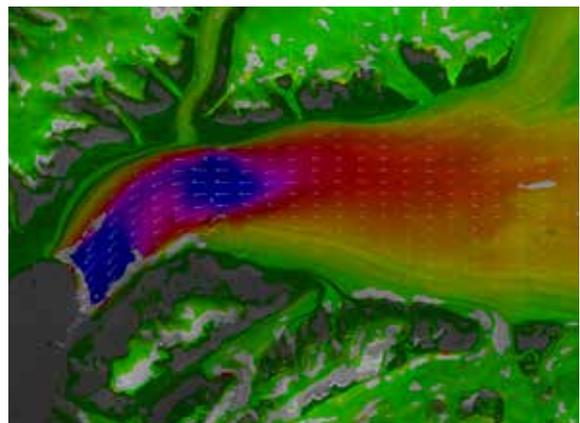
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NHAZCA is an international leader in geohazard assessment and monitoring solutions for the management and control of the natural and built environment, through the integrated use of Earth Observation data. The main technologies employed are satellite and terrestrial interferometric analysis, Digital Image Correlation and change detection. Our services are a combination of research, high technology, and professional experience.





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Philmark is a IT group with vertical skills in software development & digital transformation, data management & AI, edtech & serious games developing. We are active in the aerospace sector with significant R&D activities. The flagship project is FATE - From heAven To Earth, co-financed by ESA and ASI, a cloud-based virtual platform for “digital twins” of sites of historical, cultural, archaeological, naturalistic and museum that uses VR and XR Technologies, SAR (SatEO), VHR satellite images (High Definition) and UAV equipped with Lidar, multispectral cameras, laser scanners.



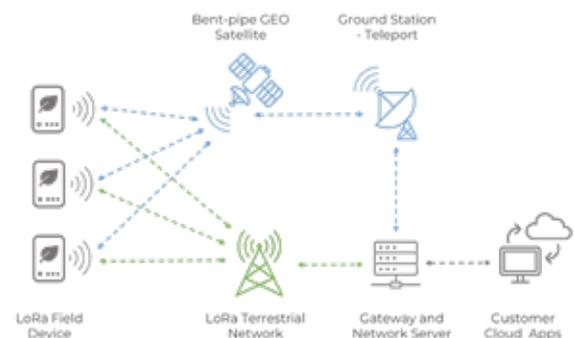
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ProEsys is a world leader in IoT solutions via GEO/LEO satellite for monitoring critical infrastructures. Through strategic partnerships, ProEsys offers turnkey solutions based on satellite and terrestrial connectivity, which include field sensors, network infrastructure, and network server software. We guarantee the entire production and functional chain from satellite connectivity to the co-design and development of innovative solutions, to in-house testing and industrial production.





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Progetti Speciali Italiani Srl (PSI) is a SME, 100% owned by Italian shareholders, specialized in the development of High Performances Cubesat, Microsatellites and UAV with their relevant payloads for Dual Use Application for EO, SAR, ELINT and METEO. PSI, with its Group partners, expresses a total turnover of about 20 M Euro, with about 200 employees.



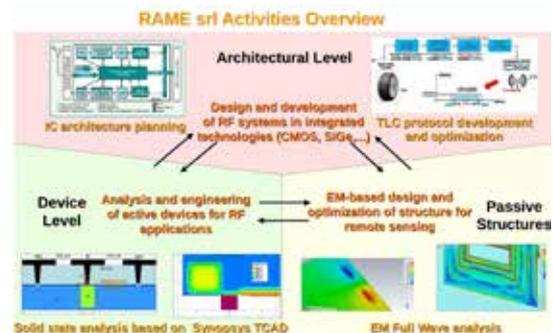
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Radio Analog Micro Electronics srl, RAME srl in short, was established in September 2014 as High-Technology Content Innovative start-up limited liability company in the framework of Italian law 221/2012 based in Rome, Italy. Currently RAME is a SME, registered also as PMI Innovativa. RAME srl is active in providing RF semiconductor solutions, system development and integration for terrestrial and satellite communications and RADAR systems in AeroSpace, Industrial and Automotive market segments.



ReMedia^{IT}

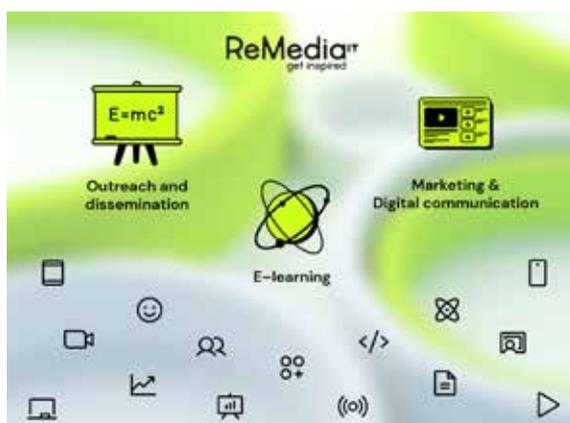
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ReMedia is an international company operating in the space economy, specialized in the field of scientific communication and comprehensive training solutions. With over 20 years of experience, the company is now a dedicated partner to support European space companies in communicating their values, disseminating their mission, and exploiting the results of research and scientific production activities. With a branch in ESA ESRIN and providing excellent digital and printed graphic content, ReMedia is the ESA partner for the Earth Observation communication activities.



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S2G created in 2019, being ASI-ESA selected for BIC Lazio, comes from a strong space design inheritance having flown complex instrumentation such as our patented ELENA atomic Camera on ESA BepiColombo Mission. S2G is active in industrial research with reference to the pharmaceutical and medical sectors with relevant WIPO extended patents. S2G is here to promote its new low Earth orbits Radar based technology patented and internationally WIPO extended for controlling air and naval traffic.



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SAND & BIRCH has been active in design since 2003, when the two partners Samanta Snidaro and Andrea Fino started designing their products and collaborating with other companies shortly after. The firm's activity today also extends to technological solutions such as drones for precision agriculture, the project which won a regional tender (Fondo Lazio Creativo) for studying and producing its prototype. At NSE 2023, we present a popularized model of a lunar base targeting school-age young people.



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SeTeL, since 1973, operates in the Integrated Logistics Support Engineering (ILS) world. Its main mission is to provide services and technologies that guarantee the Life Cycle Management of complex systems. In this scenario, SeTeL has carried out its activities on more than 200 Complex Systems, ranging from the Aeronautics to Space, Naval, Railway and ICT sectors. SeTeL invests more than 10% in Research & Development. The most important R&D sectors are Logistics and Amphibious Unmanned Vehicles.





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Space 11, a deep tech startup, excels in digital twin technology for Industry 4.0. Originating from academic research and industry expertise, it creates digital replicas of physical entities. Partnered with the University of Rome and backed by ESA's Business Incubation Center, Space 11 combines drones and computer vision with industry processes, enhancing decision-making and efficiency in industry, smart cities, and agritech sectors.



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Spaceexe is dedicated since 2013 to the design and development of IoT solutions based on GNSS devices and telecommunication technologies. Our innovation key is the positioning accuracy, telecommunications reliability, and low energy consumption. We offer solutions for the maritime sector, for land and infrastructure monitoring and for personal tracking, designed on customer needs, at competitive prices and capable of operating in critical environmental situations.





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Space4Life is the evolution of Safe Structures Company, it is a start-up born in 2019 and focused on innovation. Its founders (Leonardo Gagliardi and Fabio Gerace), coming from the sector of space activities, came together to share their experiences and combine their expertise in electronics, structures and information technologies to solve industrial problems. Its first innovation project was developed with the aim of monitoring the health status of motorway bridges using GNSS, IoT and Big Data systems.



STUDIOMAPP

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Studiomapp, a Geo-intelligence multi-awarded company, excels in analysis of satellite and aerial imagery, employing advanced artificial intelligence (AI) techniques. Committed to delivering comprehensive and cutting-edge analytical solutions, its mission is centred on providing an enhanced informational edge, facilitating more informed decision making for a safer and more sustainable future.





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Since 1998 Superelectric focused its activities in the development of multispectral georeferenced EO Sensors. Superelectric designs and develops multispectral and Hyperspectral imaging systems for aircrafts, drones and turret-based observation devices.

Superelectric is exhibiting at SIAE 2023 with:

- **systemONE M4T** - AI based Imaging Spectrometer
- **T360** Thermal Antidrone Radar with AI Tracking
- **DCS** Thermal-Visible High resolution dual camera system



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Taitus Software Italia Srl is a software development company specializing in the advanced mission analysis, planning and simulation tools for space applications, with particular focus on Earth Observation. Taitus is a key software supplier to Space companies. Taitus applications are used operationally in many running missions like Cosmo-Skymed, Deimos-1, Radarsat, TerraSAR-X, Cryosat, SMOS, GOCE as well as entities like Copernicus and the International Charter of Space and Major Disasters.



TEK**RE**VOLUTION▶

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TekRevolution is an engineering company with a core business in the Aerospace and Defense market. Our main activities are related to design, production and qualification of complex mechanical systems for critical environments applications. We are focused on thermal, structural and fluid-dynamic design of subsystems for space launchers and satellites as well as in the research and development of new analysis methodologies, production processes application and materials introductions, increasing products performances, reducing costs, resources wastes and carbon footprint.



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TERRAVIONICS is a deep tech 1-year-old start-up dedicated to the data-driven integration of satellite, sensor and drone data with A.I. and isomorphic modeling, designed to manage criticalities, namely climate change-related: productivity, profitability, complexity. The present focus is on Agritech (viticulture), however our solution (TERRAGRID) is scalable by-design. We improve vineyard value via performance, by enhancing plant health and enabling proactive actions, while dropping costs and environmental footprint via resource optimization, with a multisource approach.





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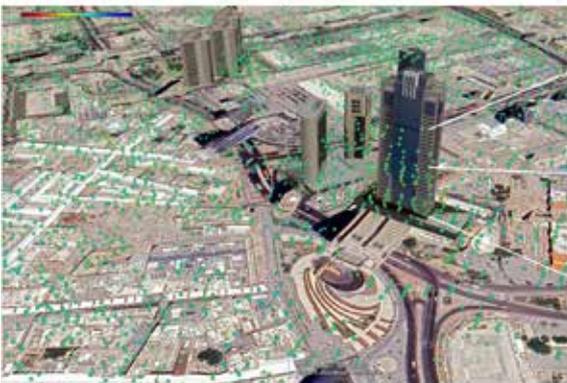
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Titan4 is a highly innovative company operating in the aerospace industry, downstream Earth observation sector. After an incubation period in the European Space Agency's (ESA) BIC program, the company specializes in the processing and analysis of optical and radar satellite images using the InSAR technique. The Titan4 platform allows to easily assess and monitor the health of public and private infrastructure, large-scale land stability, structural deformations of the ground, and seismic zones.

Deformations monitoring using InSAR



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Torand Consulting is a company specialized in design and production of electronic systems. We assist our customers from initial design to final setup of their customized systems.

We provide solutions for digital and power electronics, controlled by FPGAs and microprocessors. The high-level design and simulation of complex systems is achieved thanks to powerful simulation tools.



FOR MORE INFORMATION ABOUT THE DTA - AEROSPACE TECHNOLOGY DISTRICT OF LAZIO

Download the White Paper “Lazio
Aerospace Innovation Ecosystem”:



Explore the geo-referenced map
of DTA’s about 300 companies:



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