

**Intacture**  
The Natural Home of Data

**Trentino  
DataMine**

## PRESS RELEASE

### **A European First from Italy's National Recovery Plan: The First Data Center in an Active Mine Goes Live**

#### ***In Trentino, AI and Supercomputing Beneath the Mountain***

**In Val di Non, one hundred meters underground inside an active dolomite mine, Intacture is now operational—the first European data center built within a working extraction site. The infrastructure hosts a high-performance computing platform for artificial intelligence and is also the first project under Italy's National Recovery and Resilience Plan (PNRR) dedicated to digital infrastructure to complete 100% of its allocated funding reporting. A technical and methodological milestone achieved together, thanks in part to an institutionalized Public-Private Partnership (PPP) model.**

#### **THE MOUNTAIN THAT OUTRAN TIME**

Trentino DataMine officially inaugurates the Intacture data center in Val di Non, in the municipality of Predaia, Trentino. Located inside an active dolomite mine, approximately one hundred meters underground, the facility is a purpose-built hypogeal space designed, excavated, wired, and certified according to the highest international standards, now ready for full operation.

The construction figures illustrate the scale of the project: 63,000 cubic meters of rock extracted and reused, 54.4 kilometers of cables laid in the first phase alone, and 3.1 kilometers of piping. "Il Fornello," the vertical shaft connecting the surface office hub to the server rooms, reaches a depth of forty meters. Two operational tunnels extend for 170 meters, with a height of 7 meters and a width of 12 meters.

Since the establishment of Trentino DataMine in September 2023, the project has been completed in just over two years: from design to tailored underground excavation, civil works, installation of technological systems, and testing. Following the completion of extraction activities in 2024, infrastructure and systems were deployed throughout 2025. By December 2025, after successful testing and installation of the supercomputing cluster, the data center had completed its development phase.

#### **A NATIONAL RECOVERY PLAN THAT DELIVERS (THANKS ALSO TO PUBLIC-PRIVATE PARTNERSHIP)**

On April 30, 2026, Intacture became the first project under Mission 4 "Education and Research," Component 2, Investment 3.1 of the PNRR to complete 100% of its financial reporting. A public investment of €18.4 million, within a total commitment exceeding €50 million, fully transformed into a certified, operational infrastructure open to the market.

This demonstrates that the adopted model—an institutionalized Public-Private Partnership, with scientific governance entrusted to the University of Trento and combined with the involvement and investment of four locally rooted companies—has successfully turned an ambitious vision into tangible results, meeting both deadlines and objectives.

*"Contributing to the creation of Intacture meant that the University of Trento took on a dual challenge: meeting the tight timelines of the PNRR and experimenting with a new corporate and entrepreneurial model for a university. Through a concrete synergy between public and private sectors, we have transformed allocated*

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*resources into an operational infrastructure that strengthens the competitiveness of businesses and the local economic fabric. This is proof that scientific knowledge can respond to real community needs. This platform projects Trentino's research onto an international stage, positioning the University as a key player in digital innovation. Strengthening this reputation beyond local borders confirms the strategic role of the University in the territory's future development."* **Flavio Deflorian, President of Trentino DataMine and Rector of the Università di Trento.**

*"Intacture was conceived to offer an alternative to traditional data center models, leveraging the natural protection of the mountain's core to address challenges related to security, environmental sustainability, and data sovereignty. We did not design a simple infrastructure, but a strategic platform aimed at generating direct impact on the territory—from business innovation to skills development. Thanks to the forward-looking vision of the Province and the synergy of the public-private partnership, Intacture aims to become a natural aggregation hub for research and the digital economy in Trentino, with a strong European outlook."* **Dennis Bonn, CEO of Trentino DataMine.**

## A STRATEGIC INFRASTRUCTURE FOR THE COUNTRY

Intacture addresses one of the most pressing challenges of today's digital economy: how to support the growth of artificial intelligence and digital services without increasing energy consumption, environmental impact, and dependence on external infrastructures. Its uniqueness lies in the integration of four key elements: technological sovereignty, infrastructural protection, environmental sustainability, and advanced computing power.

- **Technological sovereignty**

Data stored and processed within Intacture remains under Italian and European regulatory frameworks. The project is developed through a supply chain involving the University of Trento and local companies, with the goal of retaining skills, computing capacity, and economic value within the region.

- **Protection and security**

Intacture operates approximately 100 meters underground within an active dolomite mine. Over 90 million cubic meters of rock provide natural protection against physical, seismic, and electromagnetic risks. The infrastructure has already obtained ANSI/TIA-942 Rating IV and ISO 22237 Class 4 by Design certifications, the highest levels of reliability and operational continuity defined by international standards.

- **Environmental sustainability**

The natural rock temperature, stable at around 12°C, combined with the alpine valley location, enables natural free-cooling for approximately 75% of the year, significantly reducing cooling energy requirements. The system operates with zero water consumption thanks to a closed-loop circuit, while power is supplied entirely from renewable sources, primarily local hydroelectric energy. These features allow energy efficiency levels 30–40% higher than the European average for traditional data centers, in line with new EU sustainability directives.

- **Computing power and precision AI**

At the core of the infrastructure lies a supercomputing platform designed for precision AI, supporting advanced applications in scientific research, digital healthcare, industry, cybersecurity, and logistics. The cluster can reach approximately 200 petaflops for AI inference—equivalent to 200 million billion operations per second—while storage capacity can reach up to 10 petabytes, placing Intacture among the most significant computing infrastructures at the national level.

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*"I am truly pleased to take part in today's inauguration of Intacture, because innovation is essential for Italy and Europe, both called upon to provide concrete responses to a world that is moving at an ever-increasing pace. I would like to thank the University of Trento, a focused and determined partner, with whom the Government and the PNRR have implemented numerous initiatives—of which this is certainly one of the most significant. This strategic infrastructure, developed in Trentino as part of Mission 4 'Education and Research' of the PNRR, is the first project to have completed 100% reporting of the resources allocated by the Plan, fully transforming public funding into a fully operational research facility. It is concrete proof of how collaboration between the public and private sectors can deliver outstanding results when built on solid, shared projects. PNRR figures confirm this territory's ability to translate resources into results: in the Province of Trento, 11,810 projects are currently active, funded with approximately €1.5 billion in PNRR resources, out of a total allocation of €2.3 billion. To date, 9,934 projects have been completed, 1,227 are nearing completion, and 513 are underway, while payments disbursed amount to around €1 billion, with spending progress at approximately 70%. Today's inauguration is not a finishing line, but the beginning of a new journey. We are opening an important path for science and research—one capable of attracting new skills, talent, and investment, and strengthening Italy's role as a leading force in innovation."* **Tommaso Foti, Minister for European Affairs, the PNRR and Cohesion Policies.**

*"Intacture demonstrates how PNRR resources can be transformed into tangible assets for the country's future, thanks to a virtuous model of collaboration between institutions, universities, and businesses—one capable of supporting research and fostering innovation. You have my recognition also for being among the first to complete full reporting of all allocated resources, turning public funding into a competitiveness asset for Italian industry. Italy has all the credentials to establish itself as a Mediterranean hub for data and computing capacity, thanks to its strategic position, digital infrastructure, and a dynamic and competitive industrial ecosystem. Today, Intacture shows the way: a form of innovation that is sustainable and rooted in local territories, capable of generating development, skilled employment, and new opportunities for future generations."* - **Adolfo Urso, Minister for Enterprises and Made in Italy.**

*"Bringing a data center into a mine is a significant and forward-looking initiative. It is a low-impact technological jewel, outstanding in terms of energy and water efficiency, and a source of pride. This project demonstrates how Italy can successfully address the dual transition - energy and digital - combining technological progress with the beauty and protection of the environment."* - **Gilberto Pichetto Fratin, Minister for the Environment and Energy Security.**

*"Today we are not simply presenting a new data center—we are realizing a vision of the future we have worked on relentlessly. In this scenario, data and advanced computing are the foundations for innovation, growth, and the development of artificial intelligence, while ensuring security and technological sovereignty. With Intacture, Trentino does not merely host data, it becomes a cutting-edge platform for research and a custodian of a central part of our country's strategic innovation."* - **Alessio Butti, Undersecretary to the Prime Minister's Office with responsibility for Innovation.**

## THE VALUE FOR THE TERRITORY: THE STRATEGIC VISION OF THE AUTONOMOUS PROVINCE OF TRENTO

Intacture represents the tangible outcome of a precise development strategy by the Autonomous Province of Trento which, starting from Provincial Law No. 7 of 2006, created the ideal regulatory framework for the virtuous reuse of quarries, enabling the transformation of mining voids into high value-added technological hubs.

The Province's consistent and committed support has charted the course of this initiative, demonstrating a digital vision that stands out at the national level. Thanks to this strong institutional drive, Intacture was

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conceived as a system catalyst: an attractive hub designed to connect businesses, research centers, and local institutions, projecting the entire territory toward digital transformation and the challenges of supercomputing.

*"Digital sovereignty is a goal that can only be achieved where there is a clear data supply chain, advanced skills, and cutting-edge infrastructure. Here, all of this is possible. Through this initiative—originating from a mining void—we are shaping the future industrial development of Trentino by creating a unique attraction hub capable of stimulating an economic ecosystem that is resilient, sustainable, innovative, and competitive. Trentino positions itself as a producer and exporter of advanced and secure digital services—a territory capable of attracting further investment, enhancing skills, and retaining top talent. Anchoring critical applications, storage, and computing power here, alongside our businesses, the University, and research institutions, is the winning strategy to trigger a virtuous cycle leading to real economic and social growth."* **Achille Spinelli, Vice President and Councillor for Economic Development, Labour, Family, University and Research.**

## KNOWLEDGE PRODUCTION

Around the supercomputing platform, joint laboratories involving universities, companies, and research centers will take shape, with the aim of transforming advanced computing into applied innovation. Intacture is not only an infrastructure for data and computing, but a platform serving research, technology transfer, and business competitiveness. The goal is to federate computing capacity with other Italian and European entities, contributing to the development of a more resilient and sovereign digital ecosystem..

## THE KEY PLAYERS

Trentino DataMine S.r.l., established on September 29, 2023 as a Public-Private Partnership (PPP), is the company responsible for the Intacture project. Its shareholding structure brings together the worlds of research and enterprise in a collaborative model focused on building strategic infrastructures for innovation.

49% of the capital is held by the University of Trento, the implementing body responsible for the project's scientific direction. The remaining 51% is held by a group of Trentino-based companies selected through a public tender: Covi Costruzioni, Dedagroup, Gruppo GPI, and ISA – Istituto Atesino di Sviluppo.

Each partner contributes distinct and complementary expertise: from complex underground construction to digital infrastructure, from digital healthcare to development finance. A combination of industrial, technological, and financial know-how deeply rooted in the Trentino economic fabric and in long-standing collaborative experience.

## SUMMARY SHEET

**Name:** Intacture — The Natural Home of Data

**Company:** Trentino DataMine S.r.l.

**Location:** Tera – Rio Maggiore, Miniera di Tassullo - Val di Non, Predaia (TN)

**Governance:** Partenariato Pubblico-Privato Istituzionalizzato (PPPI)

**Shareholders:** Università di Trento (49%) · Covi Costruzioni, Dedagroup, Gruppo GPI, ISA – Istituto Atesino di Sviluppo (51%)

**General Contractor:** Covi Costruzioni

**Project Manager (RUP):** Ing. Giancarlo Anderle

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**Works Director:** Ing. Massimiliano Tatti

**PNRR Funding:** 18,4 milioni di euro — Missione 4, Componente 2, Investimento 3.1

**Total Investment:** oltre 50 milioni di euro

**Certifications:** ANSI/TIA-942 Rating IV · ISO 22237 Class 4 by Design

### **INFRASTRUCTURE FIGURES**

6 MW installed capacity

63,000 m<sup>3</sup> of dolomite rock excavated

54.4 km of cables laid

3.1 km of piping installed

40 m depth of “Fornello” vertical shaft

100 m depth of server rooms

170 m length of operational tunnels

80% underground surface

12°C constant rock temperature

0 water consumption

PUE <1.25 — 30–40% more efficient than the European average for traditional data centers

100% renewable energy, primarily local hydroelectric power

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### **ABOUT TRENTINO DATAMINE SRL**

Trentino DataMine Srl was established to implement the “Intacture” project through a public-private partnership. It is owned 51% by TDC Srl (Covi Costruzioni, Dedagroup Spa, GPI, ISA) and 49% by the University of Trento.

**University of Trento:** Young, comprehensive, and high-quality, UniTrento is recognized nationally and internationally for its strong reputation and its focus on environment, sustainability, and people. Founded in 1962, the University promotes relationships and partnerships. With nearly 17,000 students and over 1,600 academic and administrative staff, it offers an ideal environment for study and research across social sciences, humanities, economics, and scientific-technological fields, with a strong emphasis on innovation and interdisciplinary convergence. It is among Italy’s most dynamic and international universities and is part of the ECIU alliance, a European consortium of innovative universities shaping the future European university model.

**Covi Costruzioni: Based in Predaia (Trento),** the company has over sixty years of experience in civil and industrial construction. Originally a family business, now in its third generation, it combines traditional craftsmanship with modern design and construction technologies. Deeply rooted in the Trentino region, it stands out for quality, reliability, and sustainability, and operates as a partner for complex, high-engineering projects. It is part of the Covi Group, which, through Covi Holding, controls strategic industrial entities linked to construction and local resources.

**Dedagroup (Deda):** A technology and business accelerator, Deda supports companies, financial institutions, and public services in evolving their IT and digital strategies. Over time, it has built an ecosystem of companies sharing values and a common vision, leveraging

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dedication to help clients harness the benefits of digital transformation. The Group employs over 5,000 people and operates globally with more than 4,000 clients in over 50 countries, with offices in the United States, United Kingdom, Mexico, and the United Arab Emirates.

**GPI:** An international group listed on the stock exchange and headquartered in Trento, GPI leads digital transformation in healthcare by developing advanced software solutions and services that make care accessible and healthcare systems sustainable. With over 7,800 employees in more than 70 countries, it supports public and private organizations in innovating prevention, treatment, and care models, leveraging increasingly advanced technologies, including artificial intelligence, while ensuring control and protection of citizens' health data.

**ISA – Istituto Atesino di Sviluppo:** Based in Trento, ISA is a holding company with over 95 years of experience in Trentino-Alto Adige and surrounding regions. It invests primarily in minority stakes, acting as a long-term partner with a focus on value creation. Its investments support sustainable economic development, avoiding purely speculative operations and emphasizing transparency, corporate governance best practices, and ESG criteria. Through a strong network, ISA facilitates connections between private and institutional capital, generating opportunities for investment, growth, and development.