

FOR IMMEDIATE RELEASE

kiutra secures €13M to eliminate bottlenecks from quantum supply chains with helium-3-free cooling

- The €13 million financing round is co-led by NovaCapital (Italy) and 55 North (Denmark), with participation from High-Tech Gründerfonds (Germany) and existing investors
- Kiutra's proprietary magnetic cooling technology eliminates dependence on scarce helium-3 resources, addressing critical quantum supply chain vulnerabilities identified by NATO and EU initiatives
- With systems already deployed worldwide, supporting leading research institutions, quantum startups, and corporates, kiutra will utilize the financing to accelerate its global scale-up and deliver helium-3-free cooling systems that strengthen the resilience of quantum supply chains.

Munich, Germany – 2 October 2025 – **kiutra**, the globally leading provider of magnetic cooling for quantum technologies, today announced the successful closing of a €13 million equity round to accelerate global scale-up and deliver helium-3-free cooling systems that strengthen quantum supply chain resilience. The round was co-led by new international investors **NovaCapital** and **55 North**, alongside strong participation from **High-Tech Gründerfonds** and other existing backers. With this financing, kiutra has now raised more than €30 million in private and public funding to date, underlining the strong commitment of investors and institutions to its mission of building sustainable cryogenic infrastructure for quantum technologies.

As Europe and its partners rapidly expand their quantum technology ecosystems, **the availability of reliable, sustainable cryogenic infrastructure is emerging as a critical bottleneck** [1,2,3]. Quantum computers and other cold quantum technologies are fundamentally dependent on ultra-low-temperature operation, creating a vulnerability through reliance on scarce and geopolitically sensitive helium-3 resources. This dependency has been identified as a critical supply chain risk by initiatives including the **NATO Transatlantic Quantum Community** [3] and **Quantum Delta NL** [4].

kiutra's proprietary magnetic cooling technology addresses this challenge by enabling scalable refrigeration solutions. Their method does not rely on helium-3 at all: instead,

solid-state materials are magnetized and demagnetized in a controlled way to reach ultra-low temperatures. The company's systems are already deployed worldwide and validated in the market, supporting leading research institutions, quantum startups, and corporates in the development and quality assurance of quantum hardware. With its unique approach, kiutra currently offers the fastest cooling systems available, giving customers a decisive speed and usability advantage.

Dr. Alexander Regnat, CEO & Co-Founder of kiutra, says: *"This new investment will support kiutra in expanding our global presence and further advancing our portfolio of easy-to-use and scalable cooling solutions that are vital for the rapidly growing quantum ecosystem."*

Building on this success, the company is now expanding its portfolio with highly modular and powerful platforms tailored for complex quantum chips and full-stack quantum computers.

Dr. Michael Jobst, Investor at 55 North, the newly launched, world's largest pure-play quantum fund, says: *"kiutra is perfectly positioned to create value for one of the most critically required enablers in quantum computing: reliable, scalable and affordable access to cooling power. Their product suite is strongly differentiated from the mainstream market, and we are proud to support the team on their scaling journey. "*

Carlo Germano Ravina, MD at Nova Capital, adds: *"At NovaCapital, we back bold engineering that shapes the future. kiutra's scalable magnetic cooling technology is not only foundational for quantum tech but also exemplifies the kind of deep tech leadership Europe needs. We're proud to support their global scale-up."*

Christian Ziach, Principal at HTGF, concludes: *"kiutra's financing round highlights the strategic relevance of cryogen-free cooling for scaling quantum technologies. The company addresses a rapidly expanding global market with solutions that are not only technologically advanced but also essential for enabling real-world quantum applications. As a critical enabler, kiutra lays the foundation for progress in research and industry—strengthening Europe's technological sovereignty."*

In 2024, kiutra secured a €4 million EIC grant to advance this development [5] and will now accelerate its research further with fresh private capital. **By making cryogenics simpler, safer, and more scalable, kiutra is democratizing access to ultra-low-temperature technology – enabling widespread adoption at industrial scale.**

This financing round marks a key milestone for kiutra as it accelerates from an R&D-driven startup to a global industrial scale-up addressing the critical need for reliable and sustainable cryogenic infrastructure in quantum technology and beyond.

The company's **breakthrough technology strengthens the resilience and sovereignty of European and allied quantum supply chains** and ensures that quantum technologies can be deployed without critical material constraints, supporting the broader quantum ecosystem's transition from laboratory promise to enterprise deployment.

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About kiutra

kiutra is a Munich-based deep tech company developing next-generation cooling solutions for quantum technologies as well as cutting-edge research and industrial applications. With its proprietary, helium-3-free refrigeration systems based on magnetic cooling, kiutra enables simple, safe, and sustainable access to ultra-low temperatures.

About NovaCapital

NovaCapital is an Italian holding company controlled by Merloni Holding. It invests in innovative B2B companies in Italy, Europe, and the USA, placing a strong emphasis on relationships with entrepreneurs, innovation, and business growth. In venture capital, NovaCapital specifically targets verticals like deep tech, energy transition, new materials, circular economy, industrial automation, and B2B SaaS.

About 55 North

55 North is a Copenhagen-based venture capital fund exclusively focused on the quantum technology stack and invests with a long-term investment horizon. It invests in startups at all stages, developing quantum computing, quantum communications, sensing and other enabling technologies. The team combines deep technical expertise with a proven investment track record, partnering with world-class investors, scientists and entrepreneurs to advance breakthrough quantum solutions. Supporting companies worldwide and targeting real-world applications that deliver significant economic and societal value - 55 North is committed to establishing Europe as a global hub for quantum innovation.

About HTGF - High-Tech Gründerfonds

HTGF is one of the leading and most active early-stage investors in Germany and Europe, financing startups in the fields of Deep Tech, Industrial Tech, Climate Tech, Digital Tech, Life Sciences and Chemistry. With its experienced investment team, HTGF supports startups in all phases of their development into international market leaders. HTGF invests in the pre-seed and seed phase and can participate significantly in further financing rounds, since 2024 with the HTGF Opportunity growth fund. HTGF has a fund volume of over 2 billion euros. Since its inception in 2005, HTGF has financed more than 790 startups and successfully sold shares in 200 companies.

The Federal Ministry for Economic Affairs and Energy, KfW Capital and numerous companies are invested in the HTGF [seed funds](#). Investors in the HTGF Opportunity growth fund include the ERP Special Fund and KfW with the resources of the Zukunftsfonds ("Future Fund"). Further information can be found at [HTGF.de](https://www.htgf.de) or on [LinkedIn](#) and on the [Zukunftsfonds](#) page.