

Planckian

PRESS RELEASE
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PLANCKIAN CLOSES PRE-SEED ROUND AS THE WORLD'S FIRST COMPANY TO DEVELOP QUANTUM BATTERIES

Pisa (IT), June 27, 2023 - Planckian, the world's first company committed to develop quantum batteries, is announcing today it raised over € 2.7M in pre-seed funding in a round led by Eureka! Venture, with the participation of CDP Venture, Exor Ventures and strategic angel investors.

Planckian is the first joint spin-off of the University of Pisa and *Scuola Normale Superiore* (Italy). Company scientific efforts are led by Marco Polini and Vittorio Giovannetti, experts in condensed matter and quantum information theory.

In the last decade, progress in quantum physics has led to new initiatives exploring whether quantum effects can be exploited in new technology domains besides computing, sensing and communication.

Quantum batteries are a new class of devices that harness quantum mechanics to manage energy in a revolutionary and more efficient way. Planckian's scientific leadership has pioneered breakthroughs in this field, starting from the first fundamental design of a solid-state energy technology ruled by quantum mechanics.

Stemming from these results and combining unique expertise in materials science and quantum information, the company is on a mission to push the boundaries of quantum technology into new realms by developing innovative technologies for energy management purely relying on *qubit-based* architectures.

Qubits are at the foundation of current quantum technologies. They identify particles and physical systems, such as atoms, with two distinct states that display peculiar characteristics arising from their quantum-mechanical nature. Qubit states are usually associated with different energy levels, a low-energy level and a high-energy level.

In Planckian's architecture quantum effects can be harnessed so that qubits can reach their high-energy levels "collectively" and in a timespan that decreases as their number and, consequently, the energy to manage increases. Its development paves the way for future creation and adoption of breakthrough and sustainable energy technologies with unbeatable performance, being ruled by quantum mechanics rather than classical principles, such as electrochemistry.

"Interest in the new frontiers of quantum physics, particularly in the field of so-called quantum thermodynamics, and the study of unconventional properties of quantum materials, has never been so strong. We believe the time has come to develop new technologies for energy management that can exploit the unique properties of quantum mechanics," said Marco Polini (CSO and Co-founder) and Vittorio Giovannetti (Executive Scientific Advisor and Co-founder). *"We consider this to be a challenging and ambitious endeavor, for which we are pleased to benefit from the support of a global community of scientists and innovators".*

"Planckian's pioneering effort can lead to a new chapter in the quantum revolution" – commented Michele Dallari (CEO and Co-founder) – "Thanks to the partnership and support of outstanding investors who share the same vision and ambition, we can accelerate our ongoing efforts centered around breaking new ground in energy management and advancing quantum technologies. We are excited about the scientific and revolutionary journey ahead!"

Investor's quote:

Anna Amati and Massimo Gentili, Partners at Eureka! Fund: *"Planckian is working towards a new approach in artificial atoms manipulation that combine in a fascinating way quantum mechanics with latest progress in the fields of thermodynamics. With its recognized scientific excellence and expertise in deep technologies, Planckian's leadership is uniquely positioned to bring significant advancements in quantum technologies".*

Claudia Pingue, Head of the Technology Transfer fund at CDP Venture Capital SGR: *"With Tech4Planet, the Italian Technology Transfer Hub entirely dedicated to fund the best idea in the field of environmental sustainability, we aim to stimulate researchers to transform their insights into successful startups. Planckian is a unique initiative: a team of*

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scientists with an international background who are developing a new technological paradigm that combines efficient energy management with new methods for handling physical systems underlying current quantum technologies”.

About Planckian:

Planckian is the world's first company dedicated to the development of the technological concept of the quantum battery. Born as a result of a decade of research in the field of materials science and quantum technologies, the company was officially established in 2022 as a joint spin-off of the University of Pisa and the Scuola Normale Superiore.

For further information: www.planckian.co

About EUREKA! Venture SGR

Independent venture capital firm licensed by the Bank of Italy and focused on deeptech investments, i.e. deep science investment and digital tech investment. The company manages more than €100M: the first Alternative Investment Fund, "Eureka! Fund I – Technology Transfer," was launched in 2020 and invests in proof-of-concept, spin-offs, startups and companies aimed at exploiting the results of Italian scientific research activity in the field of Advanced Materials and more generally Materials Science and Engineering. The second Fund, "BlackSheep Fund" launched in 2021, invests in digital technologies such as AI and big data applied to the MadTech (Marketing & Advertising) sector.

For further information: www.eurekaventure.it.

About CDP Venture Capital SGR

CDP Venture Capital is an asset management company (70% CDP Equity and 30% Invitalia) with more than €3 billion in resources under management. It aims to make Venture Capital a cornerstone of the country's economic development and innovation, creating the conditions for an overall and sustainable growth of the Venture Capital ecosystem. It operates with a series of funds that aspire to support startups in all their life stages, making both direct and indirect investments.

For further information: www.cdpventurecapital.it/en

About Tech4Planet

Tech4Planet is the National Technology Transfer Pole for Sustainability, which was created on the initiative of CDP Venture Capital through its Technology Transfer fund, in collaboration with the Politecnico di Milano, along with the Bari and Turin Polytechnics, to support the birth of new startups conceived within laboratories and research centers. CDP Venture Capital Sgr is anchor investor and promoter of Tech4Planet – Sustainable Hub, together with co-investors A2A and Iren.

For further information: www.tech4planet.it

Exor Ventures

Exor Ventures invests in startups from pre-seed to pre-IPO, focusing on discovering exceptional founders with the ambition to build great companies.

For further information: www.exor.com/pages/companies-investments/ventures.