



Press Release

Miratlas, a French Newspace Pioneer, Selected for the French Tech 2030 Program

Pertuis, France — November 6, 2025 — Miratlas, a deep tech company based in Southern France (Vaucluse), has been named one of the three regional winners of the French Tech 2030 program — an initiative led by Mission French Tech and Bpifrance that recognizes 80 of France’s most innovative and strategically significant companies driving national technological sovereignty.

This national recognition places Miratlas at the forefront of France’s Newspace sector, alongside leading organizations building the scientific and technological infrastructure of tomorrow.

“Being selected as one of the three regional laureates of the French Tech 2030 program is an immense honor and a testament to our team’s dedication,” said Jean-Edouard Communal, President of Miratlas. “This recognition validates our vision and our contribution to the future of optical communications.”

Miratlas develops free-space optical communication technologies that enable high-performance, secure data links between satellites and Earth — serving telecom operators, hyperscalers, and cloud infrastructure providers.

A Breakthrough Technology to Characterize the Atmosphere

Recognized as Deep Tech by Bpifrance, Miratlas has created a groundbreaking optical solution: the Sky Monitor — a high-precision measurement instrument that analyzes how atmospheric conditions, such as cloud cover and turbulence, affect light transmission.

Equipped with advanced optical sensors, the system continuously measures sky transparency and turbulence, both day and night. The resulting data is processed using AI-powered machine learning algorithms to model light propagation — ensuring continuous service and optimized performance for optical communication links between Earth and space.

Primary application areas include space (Earth observation and connectivity), defense, and quantum communications.

Why Optical Communications Matter

Today, the saturation of radio-frequency channels used for satellite-to-ground communication limits the flow and value of data. This bottleneck hinders the rapid growth of global connectivity and data transfer demand.

To overcome this major limitation, the space industry is turning toward free-space optical communications — also known as laser links — which rely on light propagation through the vacuum and atmosphere.

These technologies deliver data rates up to 1,000 times faster than radio frequencies, enabling massive, near-instantaneous data transfers.

Another major advantage: optical links are far more secure, making them significantly harder to intercept or hack.

Miratlas: The “Air Traffic Controller” of Space

Since its founding, Miratlas has worked to build a comprehensive atmospheric mapping system through its Sky Monitor technology.

The goal: to anticipate atmospheric disturbances so every optical signal can travel along the most stable and efficient path.

Like a real-time traffic navigation system, Miratlas acts as the “traffic controller” for optical communications — helping light signals find alternate “routes” through the sky when clouds or turbulence obstruct transmission.

A Global Vision in Motion

Miratlas has already deployed more than 50 Sky Monitor units worldwide, forming the foundation of a global atmospheric measurement network.

The company’s selection for the French Tech 2030 program crowns a remarkable journey of innovation and international collaboration:

- Strategic partnerships with Observable Space (U.S.), Durham University (U.K.), Haute-Provence Observatory, DLR, CAI Durham, Fraunhofer IOSB, Swedish Space Corporation (SSC), NICT, Honeywell, and ONERA.
- Sovereign data hosting in France with PHOCEA DC.
- Publication of the LAMARCK dataset under CC BY-NC-SA 4.0 open license.
- EN9100 and ISO9001 quality certifications.

Through the French Tech 2030 program, Miratlas gains enhanced national support, greater institutional visibility, and privileged access to strategic public and industrial networks.

This recognition strengthens Miratlas’s role as a key Deep Tech player in France’s Newspace ecosystem — contributing to European scientific and technological sovereignty.

About Miratlas

Founded in 2018 by Jean-Edouard Communal, a laser physics expert, and Frédéric Jabet, a telecommunications specialist, Miratlas is based in Pertuis, France.

The company — which generates 90% of its revenue from exports — is experiencing strong growth, with €1.7 million in annual revenue and €4 million in total revenue since inception.

Today, 17 engineers specializing in instrumentation, optics, and computer science are working on technologies poised to revolutionize communication between Earth and space.

Seven years after its founding, Miratlas continues scaling its operations, backed by a €2 million fundraising round (2022) with Karista, Expansion, and Région Sud Investissement.

More than 50 Sky Monitors are already deployed worldwide, each collecting up to 11 million data points per year — feeding “Lamark,” a unique global atmospheric database hosted in Marseille, France. Using machine learning, this database models global atmospheric conditions — including turbulence, clouds, and absorption — helping ground-station designers select optimal sites and improve optical receiver performance.

Learn more: www.miratlas.com



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French Tech 2030 is a joint initiative by Mission French Tech, Bpifrance, and the General Secretariat for Investment, designed to support 80 strategic French companies across key sectors such as the ecological transition, health, industrial sovereignty, and advanced digital technology.

Selected for their innovation potential and strategic impact, these companies receive personalized state support, privileged access to public policy tools, and enhanced global visibility.

Objective: To help France’s most promising technology champions emerge and compete on the global stage.