

# Press Release

# SES Partners with Cailabs to Test Next-Generation Laser Communication Technology

Leading space solutions company will use optical ground stations to deliver faster, more secure data from space

Luxembourg, September 15, 2025 – SES, a leading space solutions company, announced today it will test new optical ground stations built by France-based Cailabs to send data from space using laser beams instead of radio waves. By using optical communication, SES expects to be able to boost data transmission speeds, provide more secure links, and help alleviate congestion in increasingly crowded radio frequency bands.

The partnership marks a major step forward for optical communications, which use light beams to transmit data at speeds of up to 10 gigabits per second—about 100 times faster than typical home internet. Unlike traditional radio signals, laser beams are nearly impossible to intercept or jam, making them ideal for secure government and business communications.

The biggest challenge with optical communication to space has always been Earth's atmosphere. Just as stars appear to twinkle due to atmospheric turbulence, laser beams wobble and break up as they pass through moving air. Cailabs solved this problem with technology called Multi-Plane Light Conversion (MPLC), which works like adaptive glasses that constantly adjust to keep the laser signal clear and strong.

"Our Optical Ground Station technology, already field-proven with a variety of satellites and terminals, offers top performance in mitigating atmospheric turbulence and maintaining resilient communications, while delivering features that are essential for secure communications in today's most demanding environments," said Jean-François Morizur, CEO of Cailabs.

The new ground stations, called TILBA-OGS L10, will enable SES to begin testing space-to-ground optical links ahead of integrating them into commercial services. Each station can handle two-way transmissions at 10 Gbps and can be operated remotely, making them practical for widespread deployment.

"Optical communication can provide much higher bandwidth, better data security, and less risk of spectrum congestion," said Carmel Ortiz, SVP of MEO Programs at SES. "The Cailabs Optical



Ground Stations can play a central role in our global network of gateways with access to highthroughput infrastructure."

Since the 1960s, radio waves have dominated space communications, but the transition to optical systems is gaining momentum. The radio spectrum is becoming increasingly crowded as more satellites launch, leading to interference and limited bandwidth availability. Laser communication, which uses light rather than radio waves, opens up an entirely new spectrum and brings critical advantages such as low probability of intercept (LPI), low probability of detection (LPD), and low probability of exploitation (LPE).

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## **Forward-looking Statements**



This press release contains, and our officers and representatives may from time to time make, certain "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as "anticipate," "estimate," "expect," "intend," "likely," "believe," "will," and similar expressions or their negative. Examples of forward-looking statements include, among others, statements we make regarding the partnership and the expected timing, impacts and benefits thereof.

Forward-looking statements are not assurances of future performance and are subject to inherent uncertainties and risks that are difficult to predict such as: disruption or failure of information systems, satellite control, and operations networks and other technology; risks associated with strategic investments; high competition in the telecommunications industry; and changes in technology or satellite communications market could make our satellite telecommunications system obsolete or subject to lower or reduced demand.

Other factors that might cause such a difference include those discussed in our filings with the US Securities and Exchange Commission. Should one or more of these uncertainties or risks materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those anticipated. Therefore, you should not rely on any of these forward-looking statements. The forward-looking statements included in this press release are made only as of the date hereof and, we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.