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Innoviz Technologies Releases Expanded White Paper on the Rise of Physical AI and the Emergence of World Models

Innoviz's CEO and Founder, Omer Keilaf, positions automotive-grade LiDAR as foundational infrastructure for Physical AI and next-generation World Models.

The white paper will be published in two parts, with the first released today, and the second planned for next month.

TEL AVIV, Israel, Feb. 23, 2026 /PRNewswire/ --- [Innoviz Technologies Ltd.](#) (Nasdaq: INVZ) (the "Company" or "Innoviz"), a leading supplier of high-performance LiDAR solutions, today released Part I of its new white paper, titled "Innoviz and the Rise of Physical AI: Bringing World Models to Life." This comprehensive white paper details how real-time, high-fidelity 3D perception enables the emerging class of physics-grounded AI systems and World Models.



Written by Omer Keilaf, CEO and Founder of Innoviz, the white paper argues that artificial intelligence is entering a fundamentally new phase. After transforming digital systems through software and large language models, AI is now moving into the physical world,

powering vehicles, robots, infrastructure, and machines that must perceive, reason, and act with reliable precision. This shift is often referred to as Physical AI, and at its center is perception.

As computing power continues to accelerate, the white paper argues that the primary bottleneck in deploying Physical AI is no longer reasoning capability but access to high-fidelity, real-time 3D data. Cameras capture two-dimensional projections and infer depth probabilistically, while radar lacks spatial resolution. LiDAR, by contrast, measures distance directly, converting photons into precise geometry.

Recent industry initiatives, such as efforts to develop Industry World Models that embed physics, engineering principles, materials behavior, and validated industrial knowledge, illustrate how AI is evolving beyond text-trained models into science-grounded systems that must remain synchronized with real-world conditions. Keeping these models aligned with reality will likely require continuous streams of rich, real-time 3D data.

Innoviz's automotive-grade LiDAR solutions, including platforms such as InnovizSMART and InnovizSMARTer, are designed to deliver high-throughput 3D-sensing that can help keep next-generation World Models updated with live spatial information from vehicles, robots, industrial environments, and smart-city infrastructure.

"AI systems that interact with the physical world should not rely on estimation alone. The emergence of World Models marks the beginning of a new computing era—one rooted in physics, geometry, and validated real-world data. We believe Innoviz is well-positioned to help bring these models to life by serving as the high-fidelity, real-time perception layer required for safe and scalable Physical AI," said Omer Keilaf, CEO and Founder of Innoviz.

The white paper, "Innoviz and the Rise of Physical AI: Bringing World Models to Life", is available for download on Innoviz website. To download, please click [here](#).

About Innoviz

Innoviz is a leading provider of LiDAR technology, serving as a Tier 1 supplier to the world's leading automotive manufacturers and working towards a future with safe autonomous vehicles on the world's roads.

Innoviz's LiDAR sensors provide industry-leading range, resolution, and reliability, delivering accurate 3D sensing in harsh weather conditions. Operating across the U.S., Europe, and Asia, Innoviz serves automotive OEMs, system integrators, municipalities, and commercial enterprises worldwide. InnovizSMART is an off-the-shelf solution for security, intelligent traffic management, mobility, robotics, and aerial applications.

For more information, visit innoviz.tech.com.

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Forward Looking Statements

This announcement contains certain forward-looking statements within the meaning of the federal securities laws, including statements regarding the products and solutions offered by Innoviz, the anticipated technological capability of Innoviz's products and solutions, the markets in which Innoviz operates, and Innoviz's projected future operational and financial results. These forward-looking statements generally are identified by the words 'believe,' 'project,' 'expect,' 'anticipate,' 'estimate,' 'intend,' 'strategy,' 'future,' 'opportunity,' 'plan,' 'may,' 'should,' 'will,' 'would,' 'will be,' 'will continue,' 'will likely result,' and similar expressions. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties.

Many factors could cause actual future events to differ materially from the forward-looking statements in this announcement including but not limited to: the ability to implement business plans, forecasts, and other expectations; the ability to achieve broader market adoption of Innoviz's products and solutions; the ability to identify and realize additional opportunities; the emerging nature of the Physical AI and World Models markets, which may not develop as anticipated or on projected timelines; the possibility that alternative sensing technologies may reduce demand for LiDAR in these markets; potential changes and developments in the highly competitive LiDAR technology and related industries; the ability to maintain and scale initial deployments into long-term commercial relationships; and Innoviz's expectations regarding the impact of the evolving conflict in Israel on its ongoing operations. The foregoing list is not exhaustive. You should carefully consider such risk and the other risks and uncertainties described in Innoviz's annual report on Form 20-F for the year ended December 31, 2024, filed with the U.S. Securities and Exchange Commission (SEC) on March 12, 2025 and in other documents filed by Innoviz from time to time with the SEC. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Innoviz assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise. Innoviz gives no assurance that it will achieve its expectations.

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