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PRESS RELEASE

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Shaping the future in Berlin

Opening communication – **for the future and for the city of Berlin** – this was the motto when State Secretary of the Senate Department for Economy, Energy and Enterprises Mr. Tino Schopf (SPD) visited eagleyard Photonics GmbH in Berlin-Adlershof. As part of the conversation, the two managing directors Jörg Muchametow and Claus Heitmann explained what role their high-tech company will play in realizing their application vision in the future and what significance this could have for the city of Berlin.

TOPTICA eagleyard has been successfully developing, producing and marketing laser diodes worldwide from its Berlin-Adlershof site for 20 years. These laser diodes are used in countless applications with a focus on spectroscopy, metrology, interferometry, atomic clocks, intra- and inter-satellite communications and in medical technology such as blood flow measurement, soft tissue treatment and, most recently, brain-computer interface solutions. Other applications include products suitable for space, such as those used on ESA's GAIA mission. There is a very special focus on the future technology of quantum systems.

The core task of TOPTICA eagleyard is to transform research results into innovative, market-ready products that can then be produced in high volumes. Reliable supply is particularly important, because without this, it would not be possible to launch the applications of the researching companies on the world market in sufficient volume: To start with, it is mainly prototypes being developed, and only a few demonstrators

are needed, which are usually obtained directly from research institutions. As soon as these first prototypes meet the highest quality standards in full and are ready to be mass-produced, companies like TOPTICA eagleyard are needed to convert this decisive transfer phase – and all that it entails – into series production. The company places a strong focus on highly integrated products in hermetically sealed butterfly packages, so that it can map the ideal conditions for subsequent industrial adaptation or integration into system environments that are also highly demanding and innovative.

The ability to do so is becoming much more relevant worldwide, so TOPTICA eagleyard will play an increasingly important role in the future. It is essential to have a reliable supply of chips for the construction of laser diodes. The chips must be provided in the required quality, in sufficient quantity and at the right time. This is becoming increasingly important, especially in the field of quantum technology. In “Quantum Sensing”, many developments by research-based companies are already close to market approval, so this is one particular field in which the need for large volumes will increase sharply.

At the meeting, there were detailed discussions about how the supply of chips can be optimized in a number of ways and the important role the city of Berlin could play in this regard in the future. Afterwards, Mr. Tino Schopf was able to get a precise impression of the manufacturing processes of the laser diodes during a tour of the production facilities.



The interlocutors will remain in dialogue, because there is one thing that TOPTICA eagleyard wants above all:

To shape the future - with cutting-edge Berlin technology.