

# Investment Opportunities

## MARKET FORECAST

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Wherever you go, wireless data connectivity has become a vital part of our world. Whether you're waiting for the subway or at work in a traditional office environment, the advantages to having reliable access to wireless data connections are obvious. As society increasingly adopts the use of smart devices like sensors and smart-home appliances, our wireless data traffic exponentially increases, putting a strain on existing 4G LTE networks.

The telecommunications industry is now turning to 5G network technology for its ability to support a 1,000-fold gain in capacity over 4G, connections for approximately 100 billion devices and a huge increase in speed – 10Gb/s for end-users. Experts predict that the establishment of 5G networks across the world will finally bring us into the full Internet of Things (IoT) age, in which billions of smart devices improve both our productivity at work and our quality of life.

### ***Here are a few statistical predictions about 5G from leading industry stakeholders:***

- By 2025, the global 5G market is predicted to reach a value of \$251 billion
- According to Cisco, by 2021, 5.5 billion mobile users operating nearly 12 billion mobile-connected devices will generate 5.8 GB of data per device monthly

As you can see, the financial attractiveness of the 5G market is pinned on solid consumer behavior – in short, the world loves its smartphones and on-demand streaming capabilities. That is why wireless industry leading telecommunications companies like Qualcomm and Samsung are already creating 5G-compatible components for future generations of smartphones. Even governments like the European Union are partnering with enterprises in the information and communications technology industry to bring 5G to fruition. Although partnerships are forming to establish next-generation 5G internet capabilities, a critical missing piece is the network infrastructure needed to support the 5G experience for end-users around the world. This is where Veluxsys comes in.

## GROWTH OPPORTUNITY

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To meet the challenges posed by our massive increase in wireless data traffic, millimeter wave (mmW) communication is fast-becoming a focal point for making 5G a reality. Briefly, mmW is a type of electromagnetic spectrum wedged between microwave and infrared waves. It holds tremendous potential for high-speed wireless communications under 5G; however, looking at the networks that cross the American landscape today, it quickly becomes clear that carriers and network operators are not yet set up to support cost-effective use of mmW for 5G deployments.

The shorter wavelengths of mmW pose a unique economic challenge for bringing 5G to consumers. With a range of less than a mile, companies worry they will have to deploy an exponentially greater number of radios, antennas and antenna arrays in any given area just to provide the ubiquitous coverage that users have come to expect with current 4G wireless. At Veluxsys, we are the first-movers in solving this problem.

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Our team of experts is already combining Radio-over-fiber (RFoF) technology with integrated photonics and photonicallly-distributed antennas to create a whole new type of radio-to-multiple-antenna system that will revolutionize the telecommunications landscape. When our product is finalized, carriers and network operators will finally be able to establish cost-effective, flexible 5G network architectures that will meet their bandwidth and geographic coverage demands. You can read the full version of how our technology will work on our solutions page.

**Here is the bottom line:** Everyone from consumers to the wider telecommunications industry wants 5G to happen but needs the equipment to make it cost-effective. At Veluxsys, we are providing the solution, relying on our team's years of experience in radio architectures and photonics. By surpassing conventional radio mechanism with optical technology, we are at the cutting-edge of advancing data connections while cutting costs.

## OUR STRENGTHS

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Our team of experts boast close to 100 years of collective experience in integrated photonics, photonic signal processing, software-defined radios (SDR), telecommunications and electrical engineering. In fact, our executive team comes to Veluxsys from Precision Optical Transceivers (Precision OT), a leading supplier of high quality, custom-engineered optical solutions for a variety of industry networks worldwide. You can read their full biographies here.

Firmly located at the heart of the photonics and radio industries, Veluxsys has the unique opportunity to be the first American company to leverage both integrated photonics and SDR to form the next generation of communication systems. The business opportunity presented by the movement towards open Radio Access Network (oRAN) architectures is like the optical transport equipment boom of the late 1990s – this presents the perfect opportunity for new market entrants with disruptive technology like Veluxsys.

## OUR FUTURE

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At Veluxsys, we believe *“The future of 5G is here. The possibilities are endless.”*

### Here's why we need 5G:

- Customer demand is projected to increase in the coming years
- Wireless carriers and network operators cannot shoulder the advancements of data speeds alone
- Extensions of coverage areas will generate revenue and access

As one of the first companies working to leverage RF-over-Fiber (RFoF) technology and photonic beam steering to reduce the cost of future 5G deployments, Veluxsys will play a key role in ensuring that data speeds increase while devices become more advanced. Focusing on the development of higher radio frequencies and wider bandwidths, Veluxsys aims to ensure that connectivity is never compromised.

There are a wealth of investment opportunities available to those that believe in our mission and would like to help propel us forward. To learn more, please [contact us](#).

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### About Veluxsys by Precision OT

Veluxsys is a fabless semiconductor company using next-generation integrated photonics technologies to improve 5G and mmWave radio architectures.

Veluxsys' multidisciplinary team has core competencies in radio system architecture, integrated photonics, embedded real-time software, signal processing, millimeter RF and antenna design. We are confident that our next generation radio and antenna solutions will serve as an innovative, cost effective and compatible solution to the challenging performance requirements of 5G analog and RF applications.

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