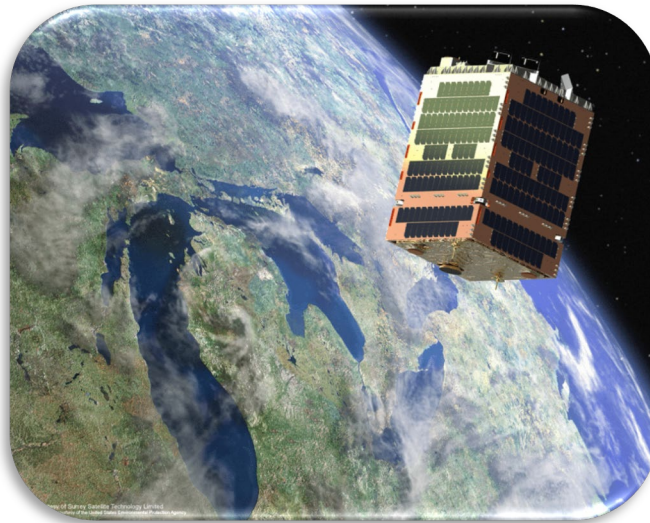


## NEWTEC EQUIPMENT ENABLES WORLD'S FIRST 5G BACKHAUL LEO SATELLITE DEMONSTRATION

Newtec's high-performance satellite equipment powered tests conducted by tier 1 European mobile operator at University of Surrey's 5G Innovation Centre using Telesat's Phase 1 LEO satellite



Telesat's Phase 1 LEO satellite

**SINT NIKLAAS, BELGIUM, May 07 2019** – [Newtec](#), a leader in the design, development and manufacture of equipment for satellite communications, has played a key role in the world's first demonstration of 5G backhaul over a Low Earth Orbit (LEO) satellite with global satellite operator Telesat, a tier 1 European mobile operator and the University of Surrey. The successful tests confirmed that LEO satellites will provide effective backhaul transport, including for future 5G networks.

The live test connected the University of Surrey's 5G Test bed network within its 5G Innovation Centre to Telesat's Phase 1 LEO satellite.

Video chat sessions, simultaneous 8K streaming and Internet browsing were tested within stringent Quality of Service (QoS) and slicing parameters. A 4K video was also transferred to the edge of the 5G network representing a future 5G use case. Out of the technologies tested, Newtec modems demonstrated higher modulation, efficiency and throughput performances, and the ability to deliver 8K videos with superior Quality of Experience (QoE). This paves the way for increasingly bandwidth-hungry applications over 5G for the maritime, aero, connected car and broadband markets which have not previously been possible.

*"We are amazed at the opportunities this test opens up," said Jo De Loor, VP Market Development at Newtec. "The seamless and very high-performance connectivity provided by Newtec technology validates the use cases for many new 5G applications in the strategic market verticals where Newtec is positioned. The work carried out is a guideline for future multi-orbit deployments and highlights the benefits of the unique combination of LEO constellations and 5G."*

**Michel Forest, Director of Engineering at Telesat, said:** *“Telesat is pleased to be collaborating with innovative companies such as Newtec that recognize the potential of Telesat’s LEO system to enable demanding low-latency 5G applications such as 4K video streaming. This demonstration confirms that Telesat’s state-of-the-art LEO architecture delivers on the promise of latency-sensitive and high bit rate applications such as in 5G connectivity.”*

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### About Newtec

Newtec, [www.newtec.eu](http://www.newtec.eu), is specialized in designing, developing and manufacturing equipment and technologies for satellite communications. As a pioneer in the industry, Newtec is dedicated to creating new possibilities for the broadcast, consumer and enterprise VSAT, government, cellular backhaul and trunking and mobility, offshore and maritime markets. Our products and technologies can be applied in a wide range of single and multiservice applications from DTH broadcasting, video contribution and distribution and disaster recovery and backbones for cellular backhauling, to small and medium enterprises, SCADA and oil and gas networks, aircrafts and vessels.

Since 1985, our dedicated team of specialists has set industry standards with the most efficient, scalable and economical technology solutions. New challenges and customer needs offer opportunities to explore new boundaries. This empowers us to work even harder, helping customers to perform their best so that, together, we can make the world a safer, more informed and connected place. As a result, more than 3 billion people watch TV every day thanks to Newtec technology.

Newtec is a European company headquartered in Sint-Niklaas, Belgium. Through additional commercial offices in Dubai (UAE), Singapore, Beijing (China), Sao Paulo (Brazil) and Stamford, CT (USA) as well as an extensive network of over 100 certified partners, Newtec can meet customer’s needs worldwide.