



Siradel Completes Design of LoRa-based IoT Network For Smart City Applications in Luxembourg

Press release: Luxembourg City, 15th November 2023

Siradel, a leading player for wireless network design, is pleased to announce the successful completion of the design phase for an innovative Internet of Things (IoT) network based on LoRa technology. This milestone achievement marks an important step towards building a smart and connected future for the city of Luxembourg.

As part of this project, Siradel's team of experts utilized their cutting-edge S_IoT LoRaWAN simulation software and leveraged the 3D digital twin of Luxembourg city, which was also developed by Siradel. The combination of these powerful tools allowed for the precise design and optimization of the LoRa-based IoT network to cater to the unique needs and characteristics of the city.

The initial focus of the network deployment is on water smart meters, enabling the efficient monitoring and management of water consumption throughout the entire city (counting more than 20,000 meters). By implementing this smart solution, Luxembourg aims to enhance sustainability, improve resource management, and promote responsible water usage. The network's capabilities extend beyond water metering, paving the way for a multitude of additional use cases and applications in the near future.

Siradel's design process involved evaluating various scenarios, including the integration of public buildings and WiFi access points for the installation of gateways. The overarching goal was to ensure not only optimal coverage, connectivity, and reliability across the city but also to consider the total cost of ownership (TCO) of the infrastructure. By carefully assessing these factors, Siradel has created a solution that not only maximizes the network's effectiveness and scalability but also guarantees a sustainable and cost-efficient IoT network for Luxembourg City, allowing for the seamless implementation of future use cases.

"We are thrilled to have completed the design of this LoRa network for Luxembourg City," said Vincent Weis, Head of Business Development at Siradel. "Our tailored solution empowers the city to leverage IoT's potential, driving sustainable development and contributing to a more connected, carbon-neutral world. We look forward to the positive impact it will have on Luxembourg's residents and businesses."

"We are extremely pleased with our collaboration with Siradel in designing our innovative IoT network for the city of Luxembourg," said, Frank Weiler, the responsible for the city's communication network department. "The professionalism and expertise of Siradel's teams have been exceptional throughout the process. Their simulation software has showcased limitless capabilities in exploring and evaluating multiple scenarios, greatly facilitating our decision-making. We have full confidence in the solution crafted by Siradel, and we believe it will make a significant contribution to advancing our city towards greater sustainability."

The deployment of the IoT network in Luxembourg City has begun, starting with a pilot zone. As the project moves forward, Siradel will continue to support the city in discussions with equipment

suppliers, ensuring the selection and successful deployment of the network across the city. This collaborative effort reflects Siradel's commitment to enabling innovation, connectivity, and sustainable urban development in Luxembourg City.

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Siradel in a nutshell

SIRADEL – a subsidiary of the ENGIE Group – delivers digital technologies that accelerate the transition towards a **more connected, carbon-neutral** and **resilient** world that positively impacts our **communities** and the **planet**.

Since 1994, SIRADEL has been leveraging expertise in **geodata** production, **3D modeling, digital twins, simulation** and **AI** to help clients in telecom, industry, and local and regional governments reach their sustainability and digital transformation goals.

More information at <https://www.siradel.com>

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