19.12.16
Tallinn, Estonia

NAS uses LoRa technology to develop the first intelligent harbour in Estonia

The Estonian-Norwegian sensor technology company Nordic Automation Systems, known as the product developer and manufacturer of sensors based on LoRa® technology, has sold its products already in more than 10 countries worldwide. Today, they use LoRa® technology to develop an intelligent harbour operation system for one of the largest pleasure craft marinas in Estonia.

Nordic Automation Systems brought LoRaWANTM network to Estonia about 6 months ago. Since then the company has been testing this new technology with many different pilot projects. The projects varying from remote water meter readers to smart lighting controllers have all gained worldwide interest.

Haven Kakumäe, welcoming its first vessels in spring 2017, selected Nordic Automation Systems to monitor and develop all the dock electrical and water distribution pedestals and access control systems. Some of these products are developed together with the Estonian product design company Keha3.

"The installed wireless sensors controlled through LoRaWANTM network play an important role in optimising the port's operations. This technology enables the development of more intelligent harbour operation systems to provide more efficiency, cost reduction and safety improvements," says Viljo Veesaar, the founder of Nordic Automation Systems. " In addition, the marina's more than 500 metres of continuous lighting will also be controlled through LoRaWANTM network."

LoRaWAN is optimised for low power consumption and designed to support large networks with millions of devices. This Low Power Wide Area Network technology offers unique benefits in terms of bi-directionality and security. The network is designed to connect low-cost, battery-operated sensors anywhere in the range up to 15km, even in the harshest environments that previously were too challenging.

Haven Kakumäe port will be one of the most modern marinas in Estonia and the Baltic Sea region, paying a lot of attention to the security together with most efficient technologies. The soon to be opened marina providing port services for vessels up to 35 meters in length and 4-meter draft is an extraordinary development, since most of the port will be built on the sea surface.

Nordic Automation Systems sees an exponential LoRaWANTM usage growth in the coming years.

"This is going to be an innovative technology deployment combined with LoRaWANTM network in Estonia" says Viljo Veesaar. "For Nordic Automation Systems, it is the start of major LoRaWANTM developments taking place already in near future."

About Nordic Automation Systems:

Nordic Automation Systems is an Estonian-Norwegian industrial automation development company specialising in sensor technologies, data analysis and monitoring solutions. In their development, Nordic Automation Systems is driven by three main aspects – energy consumption, productivity and effectiveness. They opened the first LoRaWANTM network in Estonia in July 2016. For further information, please visit the company's website at www.nasys.no

About Keha3:

Keha3 is a product design and a design management company carrying out both tailor-made product design and product portfolio development. The company deals with interior design elements as well as street furniture and outdoor design elements. Depending on the clients' needs, they can use pre-developed products for the project in hand and also create individual special solutions. For more information about Keha3 visit http://keha3.ee/en/home/

About LoRaWANTM:

LoRa AllianceTM is an open, non-profit association of members who believe that the Internet of Things era is now. LoRaWANTM is a Low Power Wide Area Network with features supporting low-cost, mobile, and secure bidirectional communication for Internet of Things (IoT), machine-to-machine (M2M), smart city, and industrial applications. LoRaWANTM is optimized for low power consumption and designed to support large networks with millions of devices. Innovative features of LoRaWANTM include support for redundant operation, geolocation, low-cost, and low-power – devices can even run on energy harvesting technologies enabling the mobility of Internet of Things. To learn more about LoRa technology visit www.lora-alliance.org

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