Enable a smarter, connected with Vodacom NB-IoT

What is NB-loT?

The rapid expansion of the Internet of Things (IoT) market has seen the emergence of innovative new lowpower wide-area networks (LPWANs). Narrowband (NB) IoT is a low-power wide-area (LPWA) wireless network technology, specifically developed for connecting IoT-enabled devices via low bandwidth connectivity.

With the potential to connect many millions of devices reliably and cost-effectively, NB-IoT is able to provide increased penetration, while at the same time ensuring extended device battery life through lowpower usage, unlocking exciting and limitless opportunities in both industry and business IoT deployments.

What are the benefits of NB-IoT?



What are the benefits of NB-IoT?

In an increasingly digital world, there is growing demand for smart metering and control, asset tracking, remote monitoring, and several other applications to build smart cities, farms, and industries (Industry 4.0) of the future.

Where it can be used?	The NB-IoT difference	Industries and businesses that stand to benefit
Smart utilities: • Water and gas meters • Electricity meters • Utility tracking (e.g., liquid or pressurised fuel bottle tracking)	 Extended battery life means batteries last for the lifetime of the device Network connection offers strong penetration and reach Devices can be deployed in rural areas, beneath manhole covers, or deep within building basements 	 Municipalities Water and gas meter equipment manufacturers and suppliers Liquids and pressurised fuel suppliers
Smart agriculture: • Environmental monitoring devices	 Long lifespans in the field Devices, such as soil condition monitors in precision agriculture, are often deployed without reliable access to power Batteries must last for the lifetime of the device - perhaps a decade or more 	• Agricultural businesses
Smart asset tracking: • Container/cargo tracking (e.g., valuable goods, parts, equipment, or tools)	 Low device and connectivity cost supports high density of devices while guaranteeing quality of service to track location and movement of asset Devices may be deployed in their thousands or millions 	 Utility suppliers Healthcare suppliers Logistics and courier businesses
Smart garbage bins	 Low device and connectivity cost supports high density of devices while guaranteeing quality of service to track and monitor bin location and waste levels Devices may be deployed in their thousands or millions 	 Municipalities Waste disposal or recycling businesses
Smart parking	 Low bandwidth supports devices that only send a few bytes of data each day Smart parking sensors that only ping the network when a bay becomes free and don't need to support voice or even duplex data transmissions 	 Parking and facility management businesses
Smart alarms and event detectors	 Mass deployment at low cost Smoke or fire alarm devices can be deployed in their thousands or millions 	 Building or facility management businesses Security businesses

To find out more about NB-IoT coverage in your area and how it can help take your business further visit: http://voda.com/narrowband-iot



