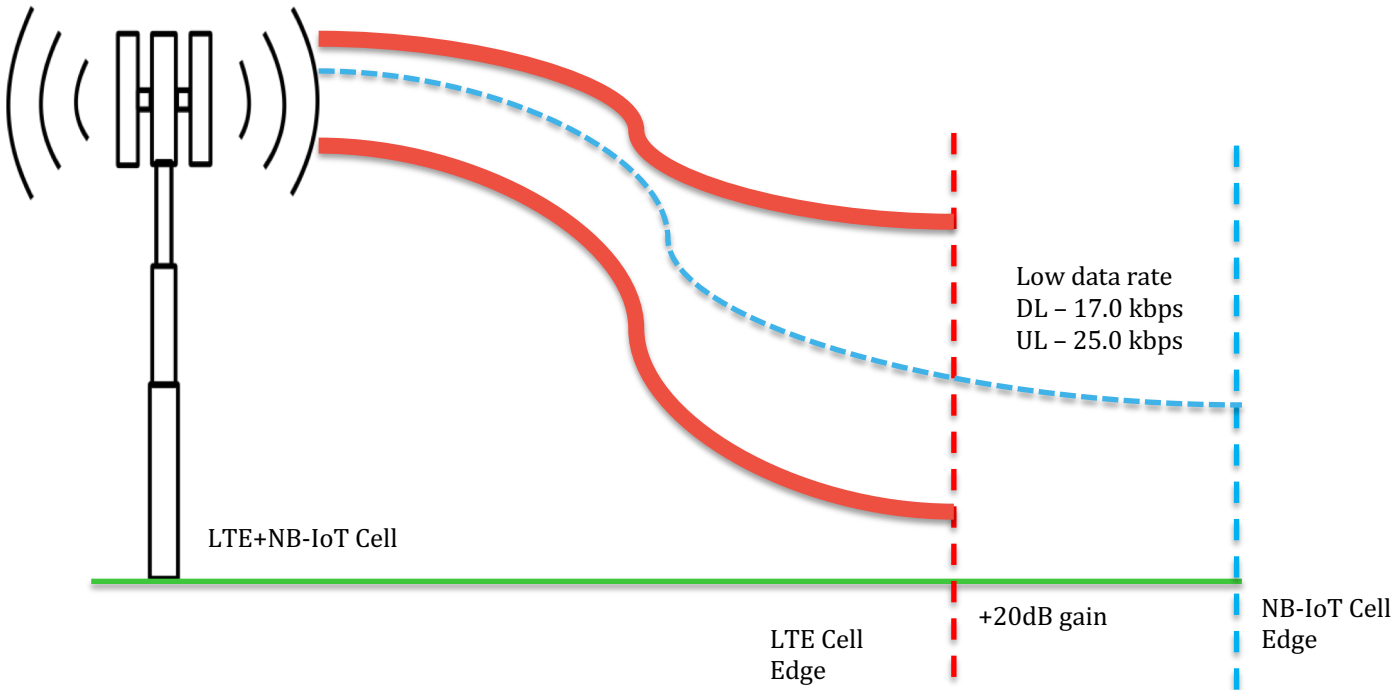


# Testing Narrowband –Internet of Things

**Narrow Band Internet of Things (NB-IoT)** was introduced by **3GPP** in **release-13** as a platform to serve as a base for **Internet of Things(IoT)** infrastructure.

NB-IoT can be considered as a part of low power wireless network (**LPWN**) technology, which serves the concept of connecting small wireless devices, by using existing LTE network or GSM network. To meet the MTC application requirements for data rate, latency, and battery life, 3GPP introduced several functionalities in NB-IoT.



## Key NB-IoT services validated in lab environment for Tier-1 Test & Measurement(TEM) equipment manufacturers

<b>Enhanced network coverage</b> Cover devices in poor coverage	Coverage enhancement Channel Repetitions Multi-Subframe
<b>Low data rate</b> Comply with IoT standards	Control Plane Clot Optimization User Plane Clot Optimization
<b>High Capacity</b> ~50K devices per cell	Cross Subframe Scheduling DL-Gaps UL-Gaps
<b>Re-use existing Cellular infrastructure</b> LTE and GSM	LTE-Inband Mode LTE-Guardband Mode Standalone Mode
<b>Power Saving</b> Battery life up to 10yrs	eDRX