

In today's rapidly evolving digital landscape, choosing the right connectivity solution is critical to the success of any IoT project. With a myriad of connectivity options available, the decision-making process can often feel daunting.

To help business and technical leaders make informed technology choices, we partnered with industry analyst Leif-Olof Wallin to create the Connectivity Selection Matrix. This framework evaluates nine of the most promising cellular and non-cellular connectivity technologies against five key selection criteria, providing a clear comparison to align each option with specific project needs.

		USE CASE REQUIREMENTS	NB-loT	LTE-M	LTE Cat-1 bis	LTE Cat-1	LTE Cat 4+	5G RedCap	5G NR	NB-IoT/NTN	LoRaWAN®
DEPLOYMENT LOCATION	Geographic location?	Single country, populated areas									
		Global coverage, populated areas				•					
		Covering non-populated areas								•	
	Moving?	Moving up to car/train speeds				•		•	•		•
	Indoor?	Indoor	•					•	•		
		Deep indoor or underground	•								•
APPLICATION REQUIREMENTS POWER	Data rate?	10s of Kbits/s	•	•	•	•	•	•	•	•	•
		100s of Kbits/s		•			•	•			
		up to 1Mbit/s					•	•			
		4Mbit/s or higher					•	•			
	Typical latency?	< 2 seconds	•	•			•	•		•	
		< 400 ms	•	•			•	•		•	
		< 40 ms		•			•	•			
	Other connectivity services?	SMS required		•			•	•			
		Voice communication required					•	•			
	Operate on battery?	Operate on battery up to 1 year	•	•				•			•
		Operate on battery up to 10 year	•	•							
MING	Deployment start date?	Before 2026	•	•	•	•	•	0	•	•	•
	Deployment lifetime?	Until 2035	•	•			•	•		•	•
		Until 2045	•	•				•		•	
COSTS	Communication device cost?	\$	•	•							•
		\$\$					•	_		•	
		\$\$\$									



Meets criteria

With limitations