

## LIGADO'S LOWER MID-BAND SPECTRUM CAN BE DEPLOYED IMMEDIATELY

Mid-band spectrum, generally considered as 1 GHz to 6 GHz, provides both favorable propagation characteristics and considerable bandwidth, making it a critical component of America's strategy to win the race to 5G. Unlike other mid-band spectrum in the pipeline, Ligado's lower mid-band spectrum at 1-2 GHz is "greenfield," meaning it is unencumbered by legacy services and is ready to be deployed immediately. At a time when mid-band spectrum in the U.S. is scarce, ensuring the efficient use of all available mid-band spectrum is paramount. Ligado's lower mid-band spectrum is primed for swift deployment to meet our country's 5G needs.



## LIGADO'S LOWER MID-BAND SPECTRUM HAS CHARACTERISTICS UNIQUELY SUITED FOR 5G SERVICES

Not all mid-band spectrum is created equal. Because a significant amount of mobile data traffic happens indoors, in-building penetration is critical for 5G networks. Lower mid-band spectrum like Ligado's would enable 5G services to benefit from superior propagation that supports reliable, wide-area coverage, both outdoors and indoors. This combination of outdoor and indoor coverage is a key element of today's wireless networks. Ligado's spectrum also provides significant flexibility for the deployment of 5G networks.



## LIGADO'S LOWER MID-BAND SPECTRUM COMPLEMENTS OTHER SPECTRUM UNDER FCC CONSIDERATION

Lower and higher mid-band spectrum can enhance each other's core capabilities. New 5G technology solutions can extend lower mid-band coverage benefits to higher mid-band deployments for delivery of high-speed throughput over a broader coverage area. Ligado's spectrum is therefore highly complementary to other spectrum bands currently before the FCC, including C-Band and mmWave. Working together, these spectrum categories will enable a cost-efficient, broad-based, and capacity-rich solution that supports the full suite of 5G services. In addition, combining Ligado's lower mid-band spectrum with the 1675-1680 MHz band that is under FCC consideration for auction will maximize the utility of the band for 5G.



## LIGADO'S LOWER MID-BAND SPECTRUM WILL PROVIDE NEW SERVICES TO AMERICA'S CRITICAL INFRASTRUCTURE INDUSTRIES

Industrial users have unique network needs—requiring super-fast, secure, and reliable networks—and Ligado's spectrum can address those demands. Delivering ultra-reliable and highly-secure connectivity to the industrial sector requires more than a "one-size-fits-all" solution. Ligado is taking an innovative approach to support connectivity for both satellite and terrestrial devices and to deliver Custom Private Networks to power 5G services for the industrial sector.

