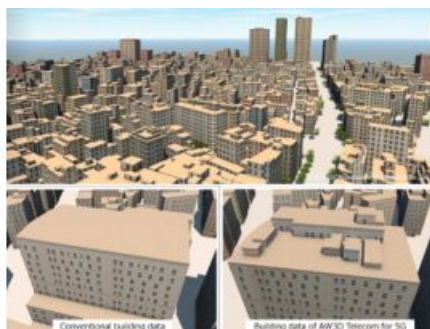


NTT DATA Launches 3D Digital Map Package for 5G Network Planning



[NTT DATA](#), an IT services provider, has announced the launch of AW3D Telecom for 5G, an advanced 3D digital map package that leverages high-quality satellite imagery for the planning of the fifth-generation (5G) wireless networks, effective immediately. AW3D for 5G is expected to be used by telecom carriers, network vendors and IoT companies engaged in businesses involving 5G networks.

Commercial 5G services via fixed wireless access networks launched in the USA in 2018 and will begin operating in Japan, South Korea, the UK and Australia in 2019. Accurate 3D models are crucial for designing 5G networks, which use millimetre-spectrum waves that are highly sensitive to interference from natural and manmade objects. Buildings, trees, bridges, flyover roads,

etc. need to be expressed precisely in 3D models and incorporated in network-planning software. Highly accurate and detailed 3D digital maps also support on-sight investigations and the optimal placement and tuning of network infrastructure.

NTT DATA has designed AW3D Telecom for 5G to work seamlessly with standard wireless network design software used widely for radio frequency (RF) simulation purposes. It expresses buildings, trees, bridges and other objects in vector format and digital elevation models are offered with 1m or 2m resolution in raster format.

The new solution incorporates NTT DATA's multi-view technology, which uses more than ten images to calculate each elevation and an advanced machine-learning algorithm supported by artificial intelligence (AI) for image processing. It enables the capture of detailed objects, such as structures on building roofs and individual trees on streets, to build advanced datasets for highly precise 5G planning.

"3D models are vital for designing and implementing 5G infrastructure by mobile carriers and other wireless network operators," said Katsuichi Sonoda, vice president and head of NTT DATA's Social Infrastructure Solution Sector. "Our advanced dataset is specialized for designing 5G networks, which will help these companies optimize their infrastructure investments and accelerate 5G deployments worldwide."

In the future, NTT DATA will expand the market for AW3D Telecom for 5G to companies offering IoT, autonomous driving, drones and virtual reality products and services that depend on 5G networks. NTT DATA will provide such companies with complete solutions to help them develop more sustainable and future-proof businesses and expand their use of geospatial information in new markets.