I. Supplementary Appendix for How Graph Neural Network Learns Cellular Coverage from Real Network Configurations

A. Dataset

We are using two dataset, crawled from real network in 2 different regions. **CPH** is a dense urban deployment, while **A+A** includes more rural areas. Their statistical feature are given as in Table. I.

Table I: Selection of Datasets Statistical features

Dataset	**CPH**	**A+A**
# of Nodes	1643	4359
# of Relations	7894	27294
Average Degree	8.456	7.612
Mean clustering coefficient	0.2947	0.3658
Average Antenna Height(m)	24.4756	32.1485
Average Inter-site distance	0.8205	2.0711
Optional Sectors #	[1,4]	[1,3]
Optional Electrical Tilt	$[1, 7]$	$[3, 8]$
Optional Tx Scheme	2×2, 4×4	2×2, 4×4
Tx Power (Watt)	460,490,505,520	460,490,505,520

B. Simulation Environment

Our ground truth are obtained using `Info-Vista Planet 7.6`, a list of simulation parameter we use are given in Table II. Note we simulate the scenario without any fading (i.e, in Open space).

Table II: Selection of Simulation Parameter

Parameter	Value
Propagation Model	`Info-Vista Planet Generic`
eNB type	Outdoors
UE Height	1.6 m
Environment	Open space
Horizontal Beam Width	[59,88]
Frequency band	1,3,7,20
Penetration loss	$0dB$