

iBuildNet Professional

Next generation planning

iBuildNet Professional – Indoor Outdoor



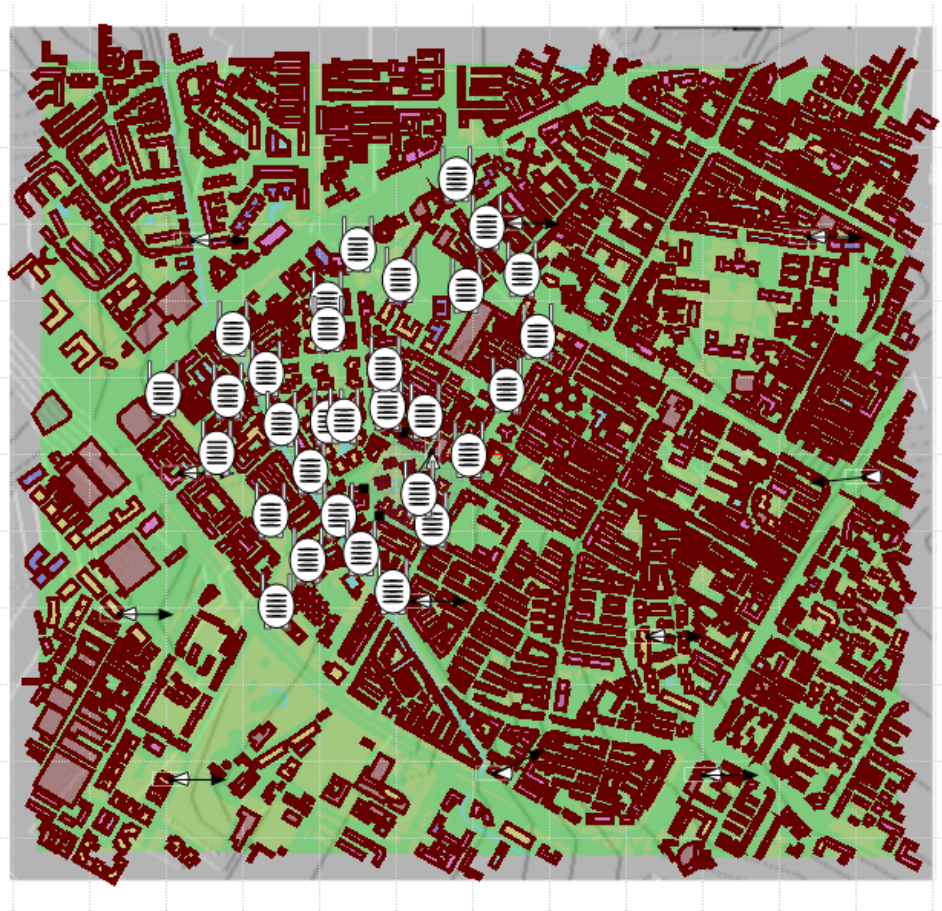
Inputs.

- ▶ Terrain data.
- ▶ Clutter data.
- ▶ 3D building vectors.
- ▶ CAD – DXF/DWG to create detailed building models.
- ▶ System design – macro imported from Atoll, Small Cells imported from cell site database and IBS manually created.

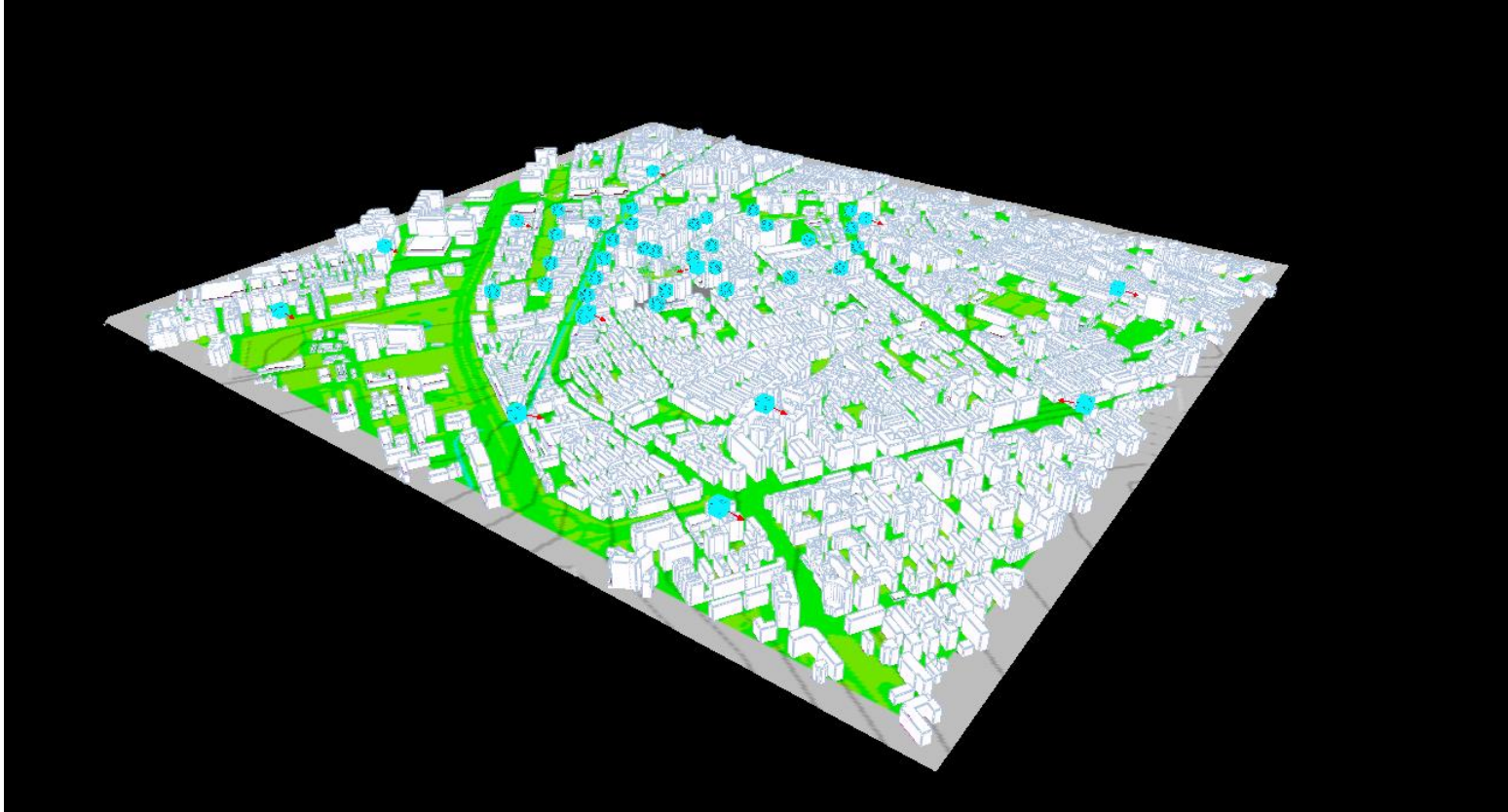
Systems & Bands

- ▶ Macro – 800MHz FDD LTE 10MHz Bandwidth.
- ▶ Outdoor Small Cell – 2600MHZ FDD LTE 20 MHz Bandwidth.
- ▶ In-Building System (IBS) - 2600MHZ FDD LTE 20 MHz Bandwidth.

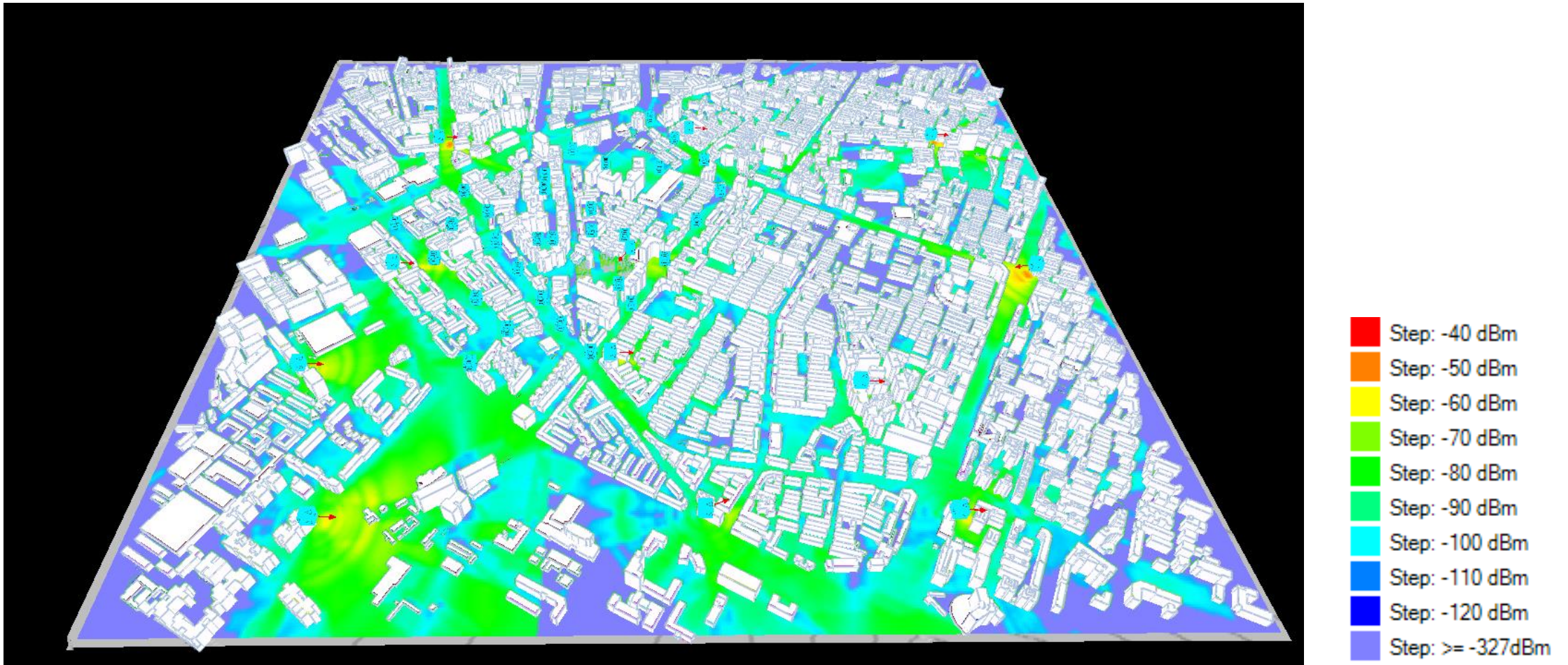
Combined 2D View of System Design, Clutter, Terrain and 3D Building Data.



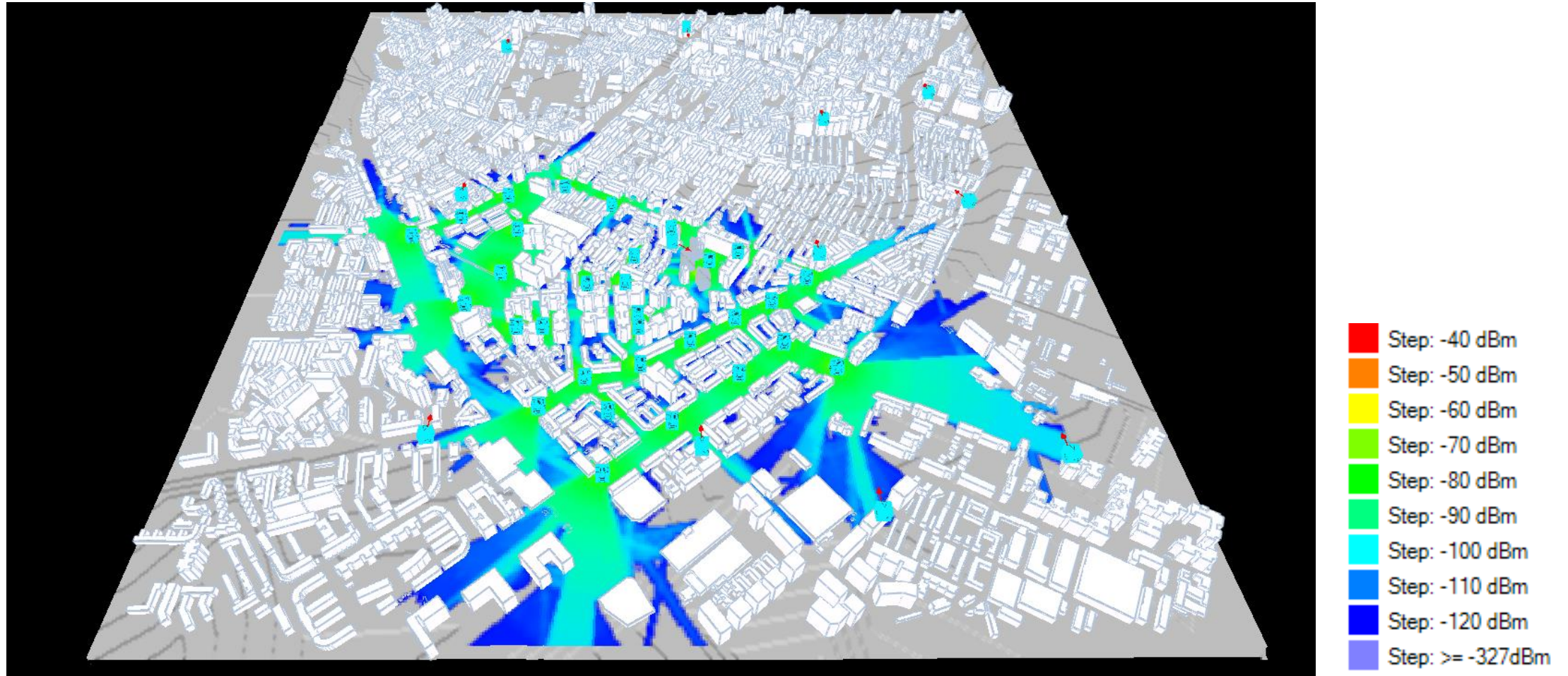
Combined 3D View of System Design, Clutter, Terrain and 3D Building Data.



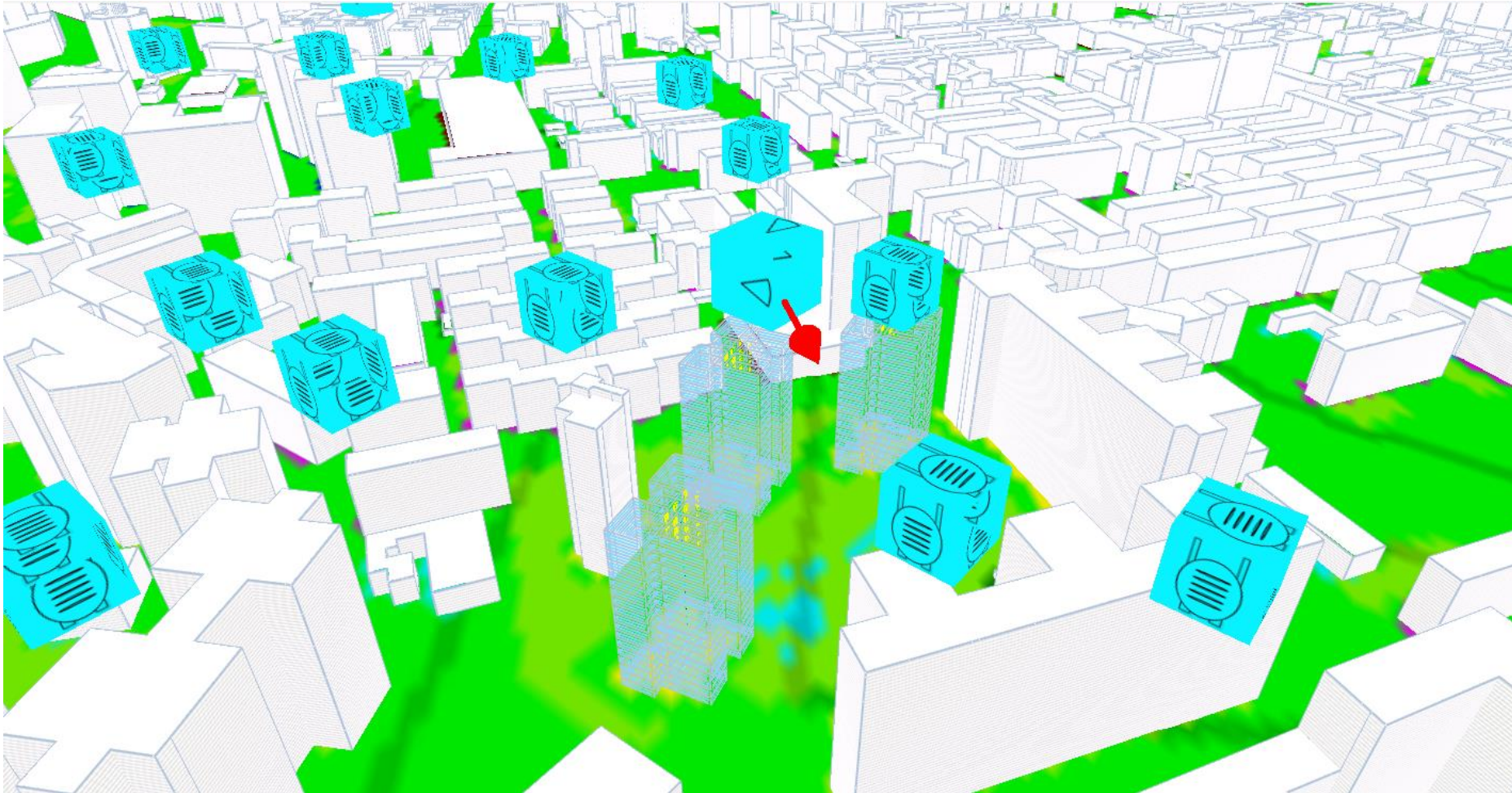
Macro RSRP – Ranplan 3D Raytracing Model



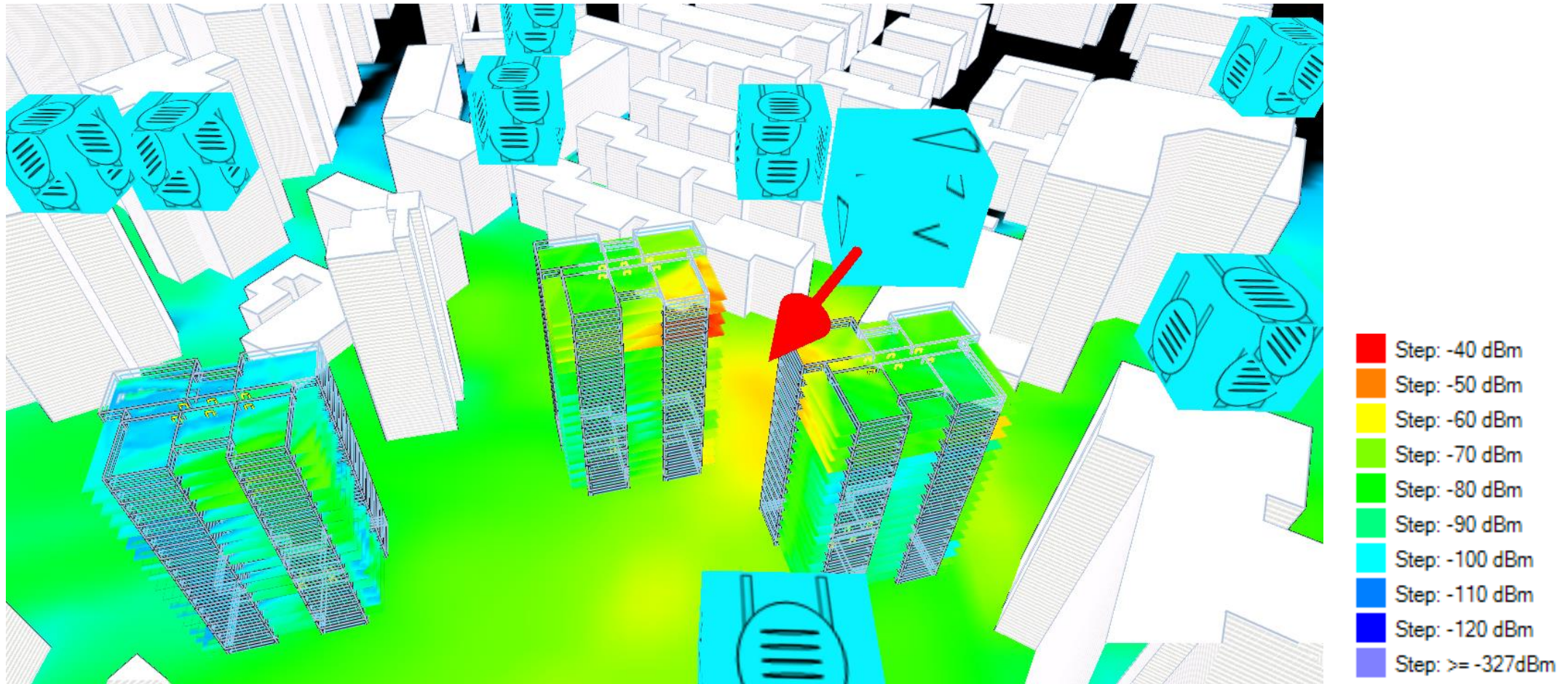
Outdoor Small Cell RSRP - Ranplan 3D Raytracing Model



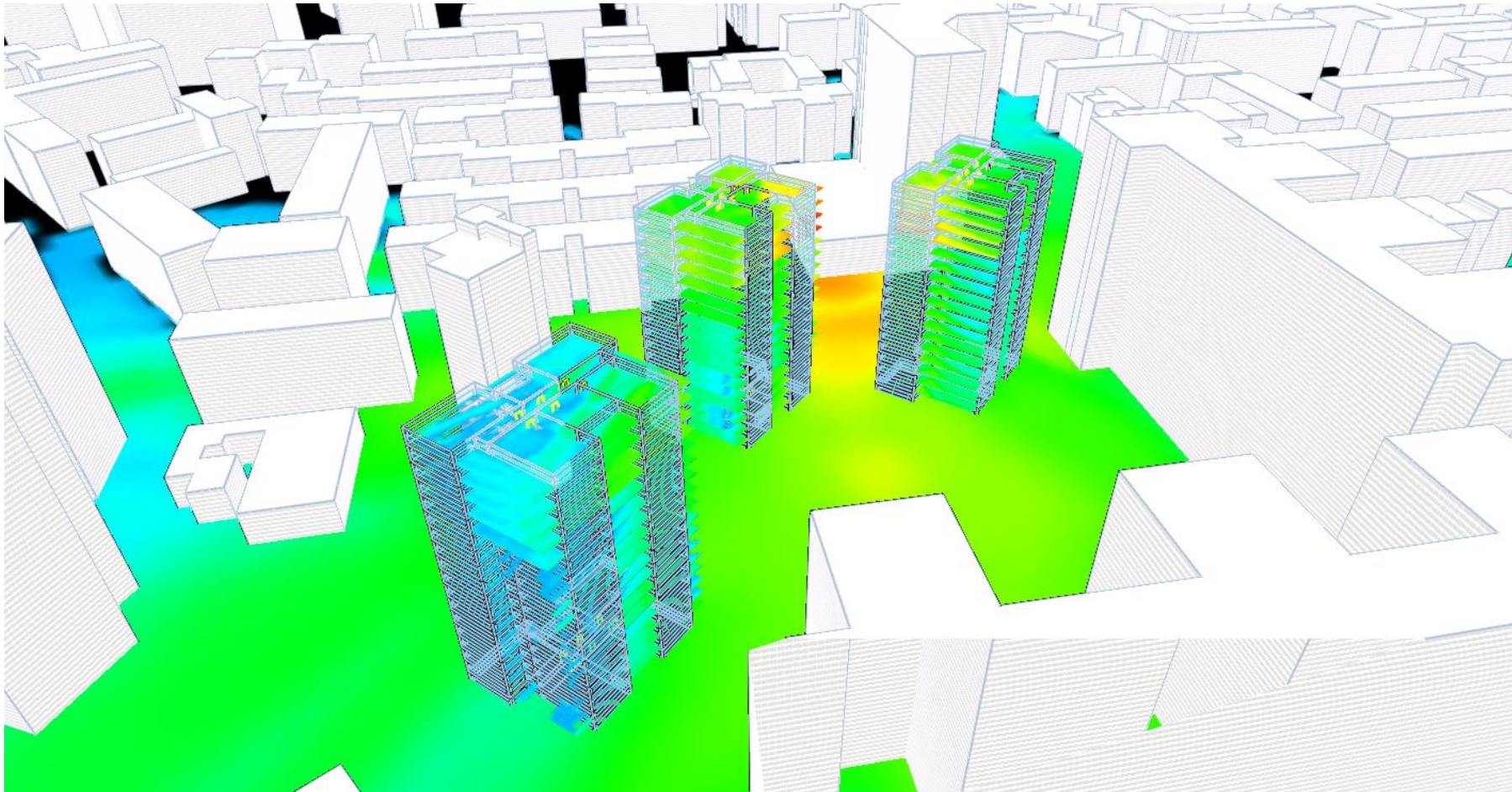
Area of Interest (AoI) With Detailed Building Models



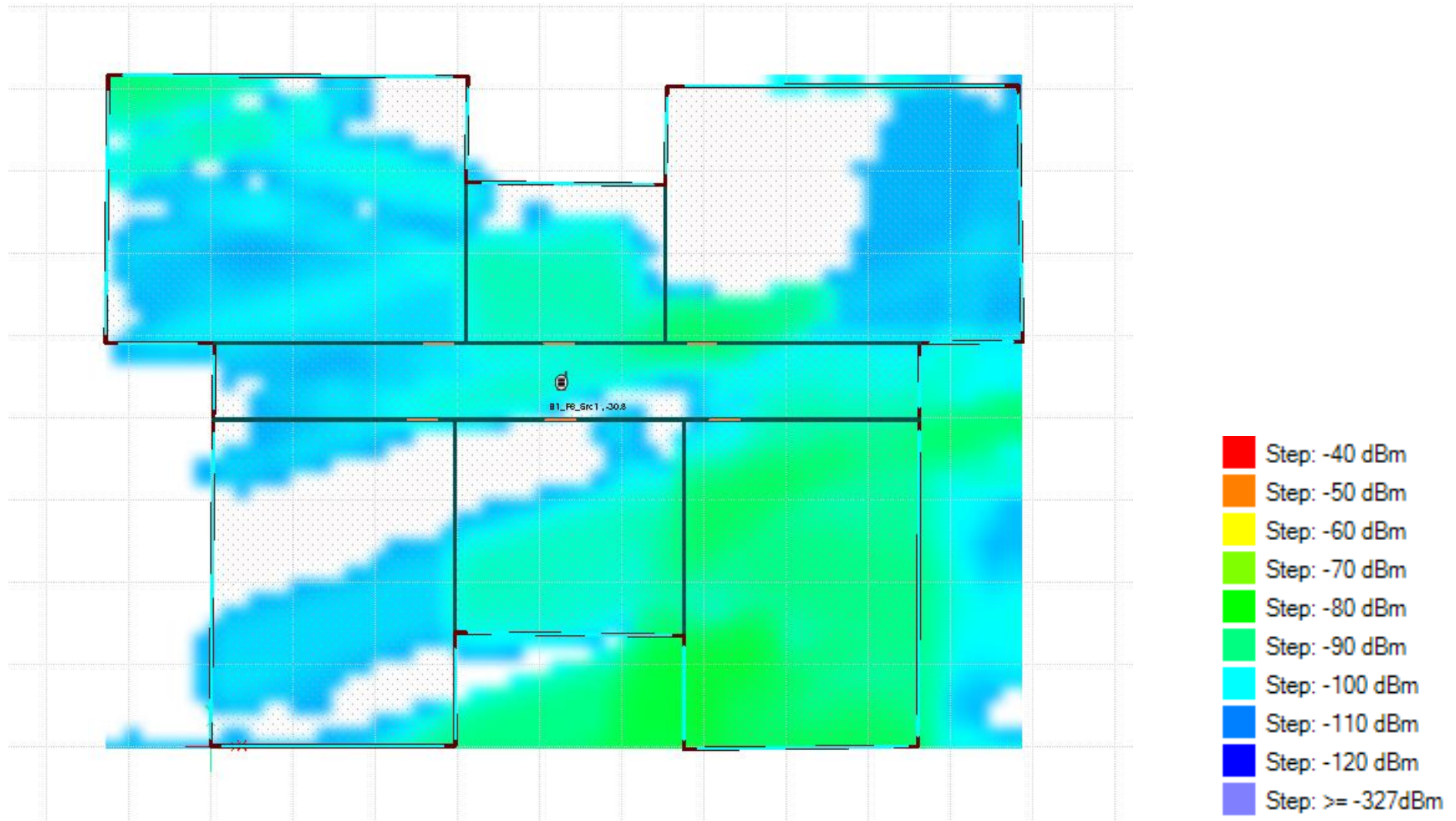
3D AoI Macro Penetration: RSRP – Ranplan Multi-Resolution Raytracing Model



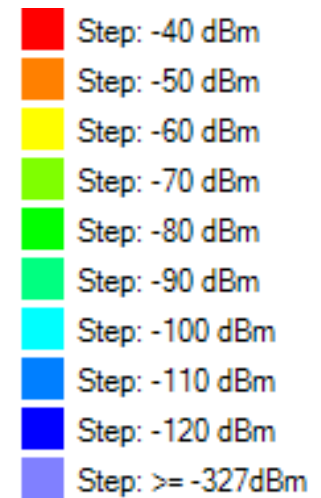
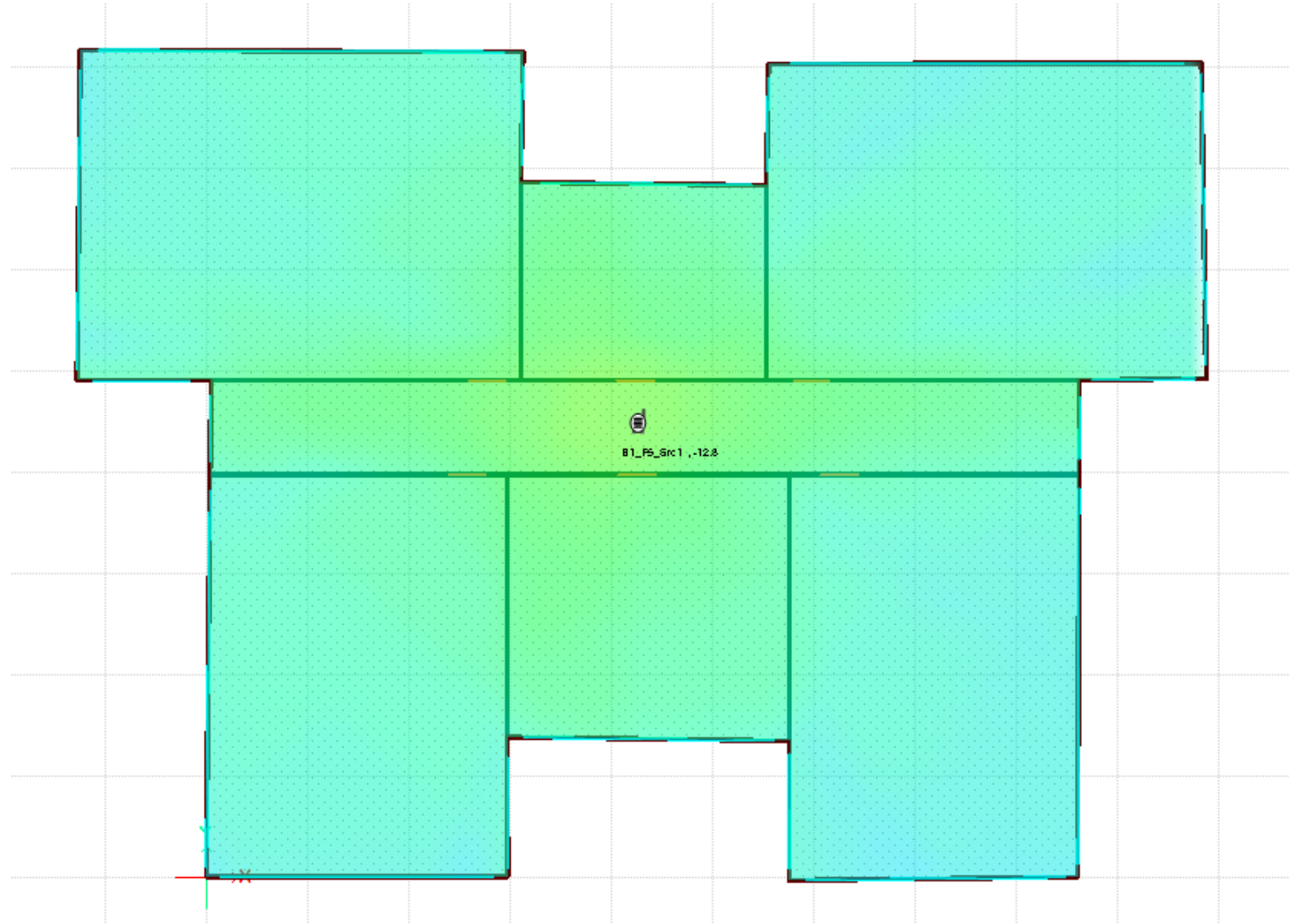
3D AoI Macro Penetration: RSRP – Ranplan Multi-Resolution Raytracing Model



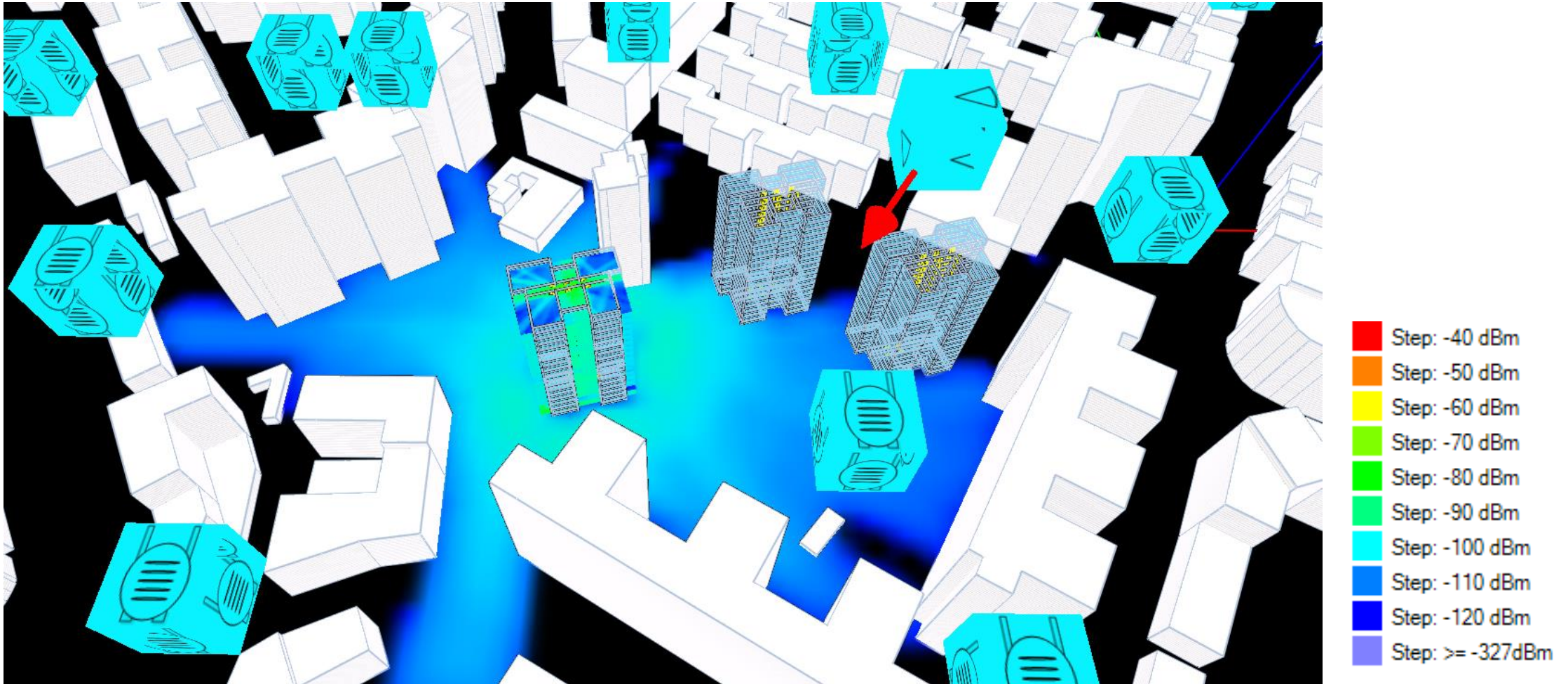
Predicted 2D AoI Macro Penetration: RSRP



Predicted 2D AoI In-Building Coverage: RSRP



3D AoI In-Building System RSRP Leakage - Ranplan Multi-Resolution Raytracing Model



Thank you!

