Invisible innovation for a connected world Blending 5G small cells into the streetscape

The 5G era has arrived. By 2024, 60% of mobile network operators (MNOs) will have commercialized 5G offerings - up from 10% in 2020.¹ The question is: can they expand and densify their networks without cluttering cities with antennae? Working with transit authorities and municipalities, BAI Communications is embedding 5G small cells in street furniture such as light posts at subway entrances, keeping the streetscape clear so the only thing users experience is seamless connectivity.

Source: Gartner, August 2021



approach to 5G deployment with a pilot project in New York City. Compared to existing wireless coverage, the pilot delivered:

> 523% higher peak downlink throughput2 — more speed for users, more capacity for MNOs

> 23% more 4x4 MIMO connections in surrounding area — for the highest-performing connections ▶ 4.5% higher average throughput in surrounding area — to meet user demand

Virtually any urban street furniture can be used to quickly and economically deploy small cells with minimal environmental impact, enabling the rapid coverage expansion and densification needed to deliver the full promise of 5G.

Re-using existing transit network infrastructure

Fibre originates from underground communications network

A better wireless experience for all

5G

Same coverage as a

conventional antenna

Identical to omni-directional

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Visit BAICommunications.com to learn how we can drive 5G innovation in your city.