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Report predicts tower, small cell outlook through 2025

BY JOEY JACKSON ON JULY 15, 2015

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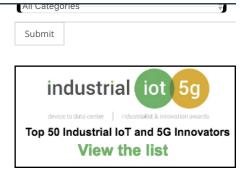
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According to a recent report by media and communications analyst firm, SNL Kagan, active tower sites declined for the first time ever in 2014. The report points to carrier consolidation as a key factor for the contraction.

The decommissioning of now-defunct Nextel towers and the sidelining of redundant sites after the Leap Wireless and MetroPCS acquisitions by AT&T Wireless and T-Mobile US, respectively, are two of the biggest examples.

SNL Kagan predicts this trend will not continue in 2015 due to a few key factors, including:

- The explosion of consumer demand for mobile data. Cisco estimates mobile traffic in the U.S. will grow by seven times by 2019.
- The AWS-3 auction divvied up lots of new spectrum, which will "generate an uptick in lease amendments and corresponding new equipment roll outs." The upcoming 600 MHz incentive auction will also add to the demand for tower sites as carriers look for new places to put their newly acquired spectrum into action.
- Public safety network, FirstNet, also has money to spend. It plans a 700 MHz buildout "that could create a new tenant for approximately 20,000-40,000 towers nationwide," according to the report.
- T-Mobile US has some decisions to make. It has been rumored to be in merger talks with DISH Network, which has lots of unused spectrum assets. But there is also speculation that the carrier



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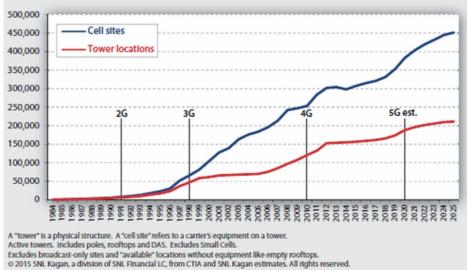


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might go it alone and build out its own network from the ground up. What the "uncarrier" decides to do will have a big impact on the growth of tower acquisitions.

- According to the report, Google could also play a role in the future expansion of tower sites. The company's entrance into the field as a wholesaler and Wi-Fi-first carrier could "lead to an industrywide rush to improve wireless data throughput that would further enhance demand for cell splitting and new equipment, much like Google has done with wireline HSD."
- The wireless industry has followed a steady pattern of growth since 1G was introduced in 1984.
 About every 10 years, a new generation of wireless technology emerges. That is expected to continue into 2020 with the debut of 5G.

U.S. wireless towers and sites, 1984-2025



The report estimates at the end of 2014, 154,941 towers and nearly 300,000 sites were active in the U.S. This is in contrast to the 96,852 towers and 242,130 sites that were active in 2008 at the beginning of the 4G buildout.

Driven by the spike in mobile data use, by 2025 tower sites will grow at a CAGR of 3.9%, according to the report's projections. It also predicts there could be more than 200,000 towers and over 400,000 sites in use in the next 10 years.

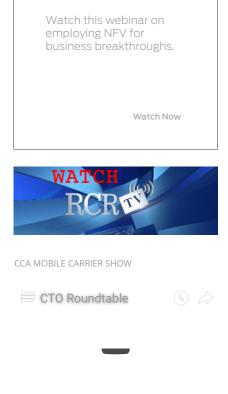
The definition of a cell site excludes small cells but does include co-locatable distributed antenna systems.

The industry has also seen a steady increase in capital expenditures to go along with the tower site expansion. SNL Kagan estimates the total U.S. carrier capex was about \$20.59 billion in 2008 and grew to over \$30 billion five years later at the peak of the 4G LTE buildout.

"With growth in connected devices, including M2M and tablets, the cost per wireless subscription has had a more modest trajectory, growing from about \$6.41 per subscription in 2008 to \$7.84 in 2013," the report said. It predicts the trend will continue with the 5G expansion.

But with all this growth, many people are still adamantly opposed to seeing towers in their backyards. This will lead to an increased demand for alternatives. "We think privately held business rooftops are going to be a primary growth area for new tower construction going forward, alongside both indoor and outdoor DAS," the report predicts.

It also estimates "the market share of rooftop system could grow from 21% of the total to 29% while DAS grows its share modestly from 1.4% of the total to 3%."

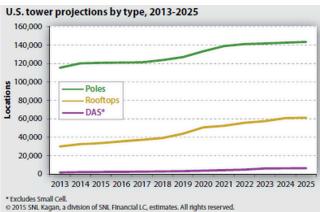




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The projection is not as bearish for small cells due to "their low range and general inability to collocate a second tenant." However, the big three tower companies, American Tower, SBA Communications and Crown Castle International have differing opinions on the cell tower alternative.

Crown Castle has been a big proponent, recently reporting that small cells and DAS made up 7% of its site rental revenue in the first quarter.

But even with Crown Castle on board, the report said it is not tower owners that are fueling the growth of small cells. The majority of deployments are coming from carriers.

The report does make sure to say that small cells are here to stay. "One thing is certain: The role of small cells will increase in urban U.S. areas over the forecast period where dense populations amplify issues related to cell site congestion."

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ABOUT AUTHOR

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Joey Jackson is an editor and production manager at RCRWireless.com and RCRtv based in Austin, Texas. Before coming to RCR, Joey was a multimedia journalist for multiple TV news affiliates around the country. He is in charge of custom video production as well as the production of the "Digs," "Gigs," "How it works" and "Tower Stories" segments for RCRtv. He also writes daily about the latest developments in telecom and ICT news. An Oregon native, Joey graduated from the University of Oregon with a degree in journalism and communications. He enjoys telling the stories of the people and companies that are shaping the landscape of the mobile world. Follow him on Twitter at @duck_jackson.

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