IHS Markit | TECHNOLOGY

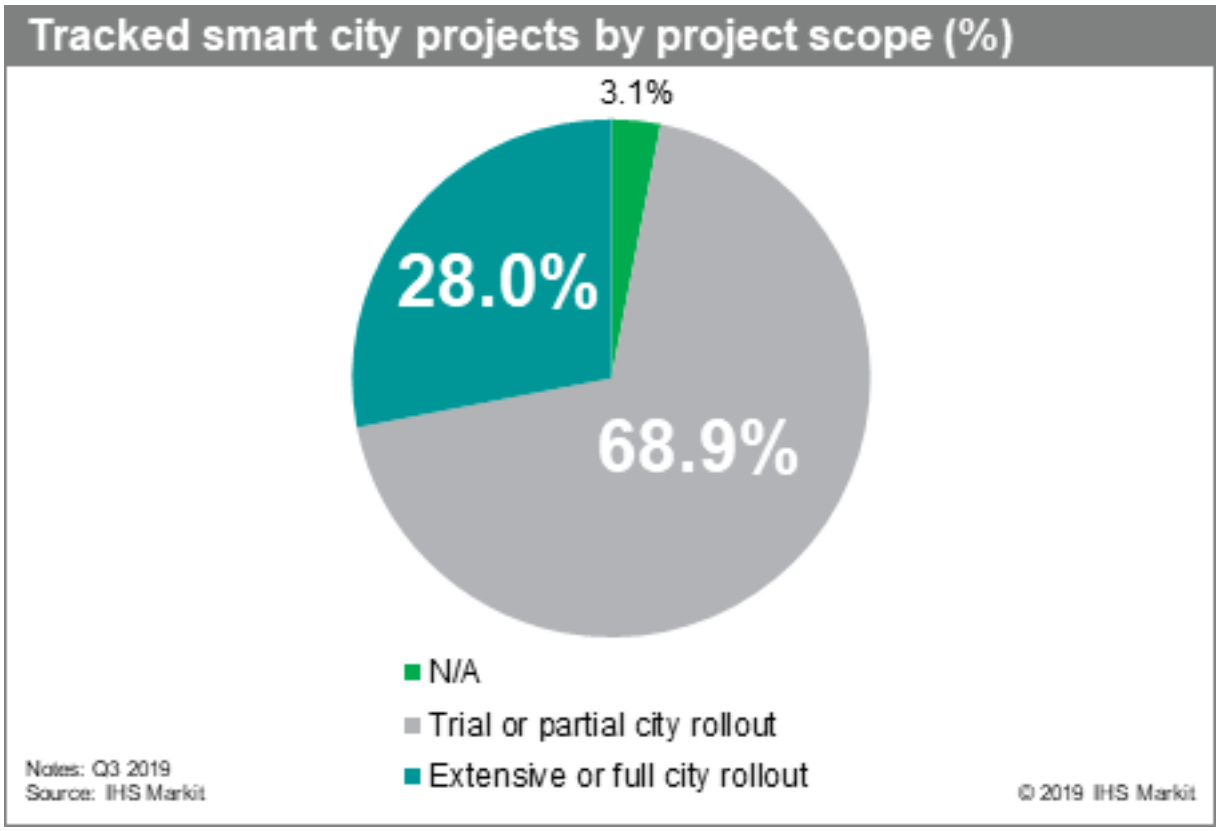
Market Insight

2019 IEEE Smart City Summit

September 19, 2019

Kelson Astley, Maggie Shillington

According to the United Nations, 68% of the world population will be living in urban areas by 2050. As the world's population continues to concentrate in urban areas, cities have more complex problems to solve. A rising number of city governments believe Smart City projects are a solution to these difficulties. IHS Markit defines a "smart city project" as one that uses an information and communication technology (ICT) system to improve efficiency, manage complexity, and enhance the quality of life of citizens; thus, leading to sustainable improvement in city operations. Smart city projects tackle problems like traffic, poor air quality, or even potholes. However, even with a growing focus on Smart City initiatives, cities are still struggling to transition projects past the pilot stage. Of the 1457 smart city projects IHS Markit is currently tracking around the world, less than a third are classified as projects that are deployed extensively or fully across the city. There are several unique constraints that make it difficult for cities to move past trial or partial city coverage for their smart city projects. These limitations include budgetary constraints, government's perceptions of new technologies as a risky endeavor, and the difficulty in measuring the direct effect of some Smart City projects.



Even with these concerns, it is currently a particularly interesting time for municipalities to look at Smart City projects because of the rising investment in 5G deployments. 5G not only increases the speed at which data can be transferred, but also increases the density of devices deployed. As a result, 5G testbeds provide an opportunity for cities to test new use cases and applications for their smart cities. With the specific decisions being made around these deployments and the technical challenges the implementation of Smart Cities pose, the Institute of Electrical and Electronics Engineers (IEEE) is hosting the **2019 IEEE Smart City Summit** November 1st, 2019 in Austin Texas to discuss some of these complexities. This year's conference focuses on the "Disruptive Technologies Enabling Innovative Smart City Use Cases (5G, IoT, and AI)". This will include sessions highlighting innovative ideas surrounding Smart Healthcare (Smart Hospitals/Tele-health/Telemedicine), Mobility and Autonomous Vehicles (AI/ML for mobility and last mile), and Smart Cities (advancement and disruptive technologies and their impact in building smart cities). Interspersed between these sessions will be a wide variety of Keynote presentations from the likes of Patricia

Florissi, the VP and Global CTO for Sales from Dell/EMC, John Cole the Chief Executive Officer of SkyTran, and David Atienza the Associate Professor of Electrical and Computer Engineering and head of the Embedded Systems Laboratory at EPFL, Switzerland.
This breadth of knowledge in a single event will provide the audience ample opportunities to gain insight surrounding IoT, 5G, analytics, security at the edge, as well as networking opportunities with peers and industry representatives. Register for the event **here** and if you'd like you can meet with **Maggie Shillington**, lead analyst on Smart Cities and **Kelson Astle**, lead analyst on Embedded Processors for Network Infrastructure at the event.

Kelson Astley
Research Analyst, Embedded Processors

Maggie Shillington
Senior Research Analyst, IoT & Smart Cities