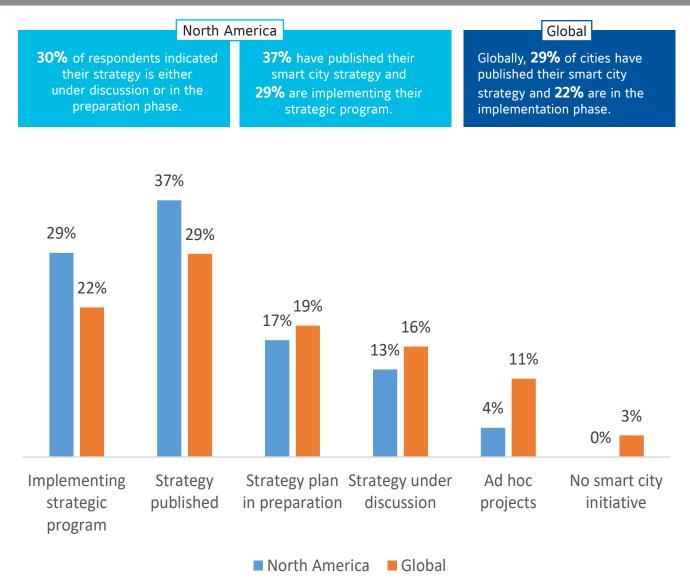
2018 SMART CITY INDICATOR SURVEY | NORTH AMERICA

Johnson Controls conducted its second annual smart city indicator survey to track key drivers, organizational barriers, technology trends, and the status of smart city solution implementations around the world. The survey queried over 330 city leaders in 20 countries, including almost 120 from Canada and the United States. Survey findings show that cities are increasingly looking to implement applications that will improve sustainability and the environment while creating jobs, improving public safety and reducing costs.



MOST CITIES ARE EARLY IN THE PROCESS OF IMPLEMENTING THEIR SMART CITY STRATEGY



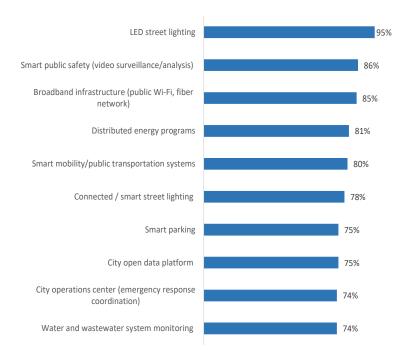
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2018 Smart City Indicator Survey North America

For more information on the study, please visit www.johnsoncontrols.com

TOP BARRIERS TO INVESTMENT	UNAVAILABILITY OF APPROPRIATE FINANCING OPTIONS	METHODS FOR FINANCING SMART CITY PROJECTS	TECHNOLOGY TRENDS EXPECTED TO HAVE IMPACT OVER THE NEXT FIVE YEARS
 18% lack of city leadership 18% lack of state / federal government support 14% security concerns The biggest barrier globally is lack of proven business cases.	36% of respondents identify unavailability of appropriate financing options as the top financial barrier.	 55% City funded 55% State / federal government funded 43% Public-private partnerships 17% Utility funded 6% Private sector funded 3% User funded 	 Systems integration Data analytics Artificial intelligence / machine learning Cybersecurity The Internet of Things (IoT)

Smart City Application Implementation



Percentage of cities in the implementation phase by smart city application



2018 Survey Demographics

To qualify, respondents must review or approve smart city initiatives in their municipality. The survey was administered anonymously by a third party research partner. For the 2018 survey, there was a representative mix of global respondents from medium to large cities.

