

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 over 50 from Argentina, Brazil, Chile, Colombia, and Mexico. 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

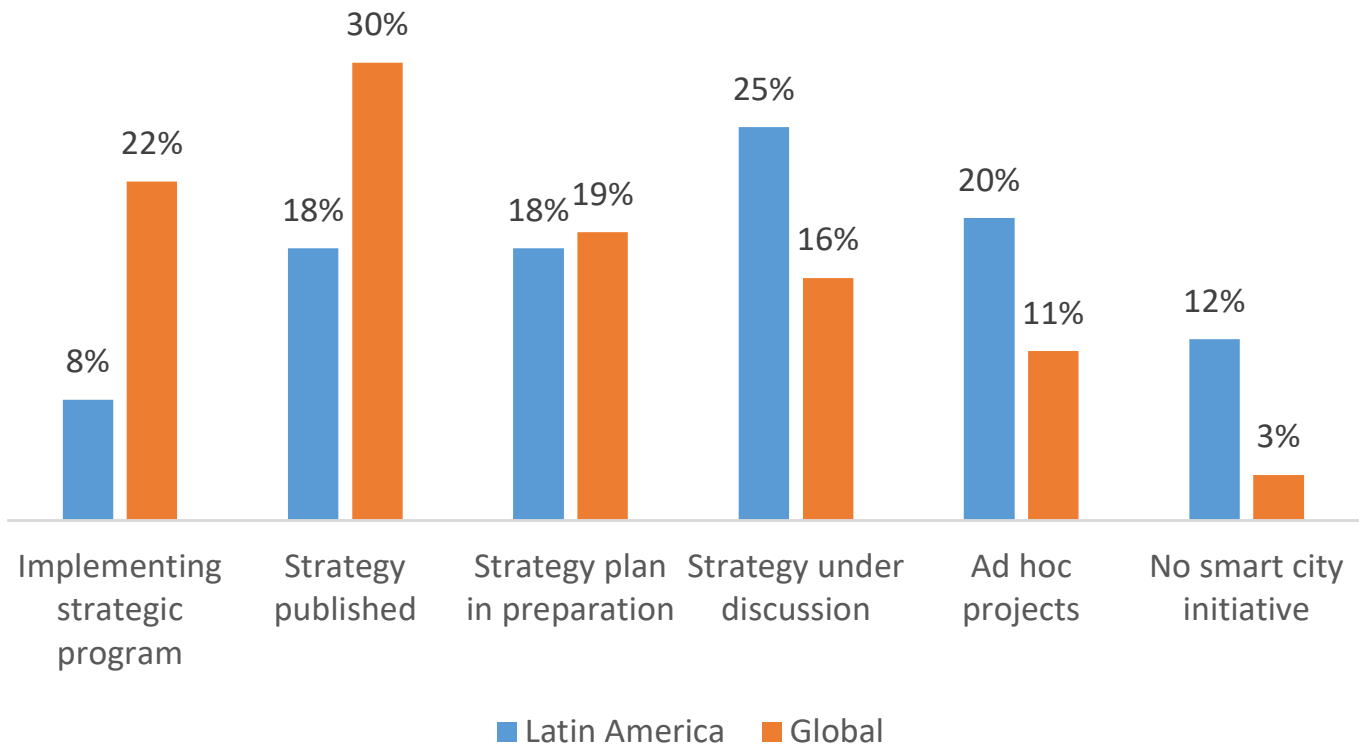
Latin America

43% of respondents indicated their strategy is either under discussion or in the preparation phase.

18% have published their smart city strategy and **8%** are implementing their strategic program.

Global

Globally, **29%** of cities have published their smart city strategy and **22%** are in the implementation phase.



2018 SMART CITY INDICATOR SURVEY LATIN AMERICA

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

TOP BARRIERS TO INVESTMENT

- 22%** availability of funding
- 18%** lack of proven business cases
- 14%** lack of standards

The biggest barrier globally is lack of proven business cases.

UNAVAILABILITY OF APPROPRIATE FINANCING OPTIONS

33% of respondents identify unavailability of appropriate financing options as the top financial barrier.

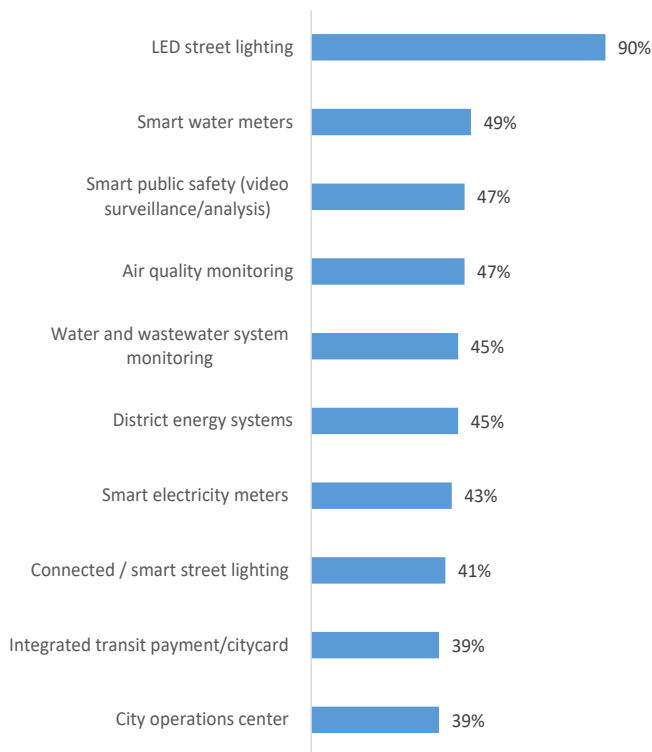
METHODS FOR FINANCING SMART CITY PROJECTS

- 45%** Public-private partnerships
- 43%** State / federal government funded
- 27%** City funded
- 12%** Utility funded
- 6%** User funded
- 6%** Private sector funded

TECHNOLOGY TRENDS EXPECTED TO HAVE IMPACT OVER THE NEXT FIVE YEARS

1. Data analytics
2. Artificial intelligence / machine learning
3. The Internet of Things (IoT)
4. Cybersecurity
5. Advanced sensing

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.

