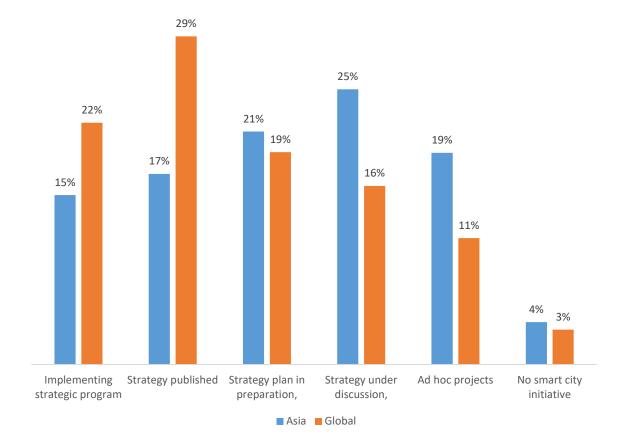
## 2018 SMART CITY INDICATOR SURVEY | ASIA

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 China, India, Japan, and South Korea. 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



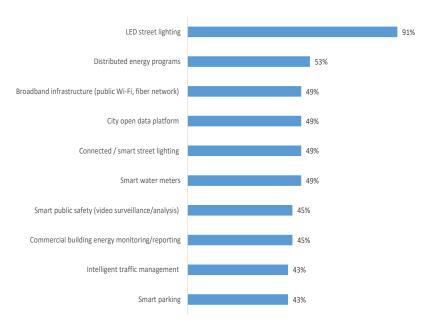


## 2018 SMART CITY INDICATOR SURVEY | ASIA

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
<ul> <li>19% lack of private sector engagement</li> <li>15% lack of standards</li> <li>13% availability of funding</li> <li>The biggest barrier globally is lack of proven business cases.</li> </ul>	42% of respondents identify unavailability of appropriate financing options as the top financial barrier.	<ul> <li>45% State and federal government funding of cities</li> <li>36% Public-private partnerships</li> <li>34% City funding</li> <li>17% Utility funded</li> <li>6% Private sector funded</li> <li>6% User funded</li> </ul>	<ol> <li>The Internet of Things (IoT)</li> <li>Data analytics</li> <li>AI / Machine learning</li> <li>Cybersecurity</li> <li>Systems Interoperability Standards</li> </ol>

## **Smart City Application Implementation**



Percentage of cities in the implementation phase by smart city application



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.

