APAC CIO Outlook

SMART CITY SPECIAL

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Top 25 Smart City Solution Providers - 2017

The adage "Pollution is the price we have to pay for modernization" seems to define perfectly the challenges that persist in cities today due to Globalization. This in-turn has brought to light the necessity to have "smart cities", development keeping in mind the environment. But it is easier said than done, while aiming to become one of the smart cities, there is an enormous amount of complexity involved which requires its own mix of solutions. Cities need to substantially increase the efficiency in which they operate and use their resources. One way to overcome this challenge is by horizontally interconnecting individual systems such as electricity, water, sanitation and waste management, transportation, security, environmental monitoring and weather intelligence.

Moreover, the growth of cloud computing has substantially reduced the cost of storing information. New developments in machine learning and advanced analytical tools along with Internet of Things (IoT) and inexpensive sensors are helping track a vast array of information needed for the development of Smart City. There is a high-visibility campaign around Smart Cities Mission initiated globally which is said to transform urban life. To highlight an example, the Array of sensors has been installed on Chicago streets, which let people download the raw data on air quality, transport, pedestrian movement and standing water. Utilizing these opportunities, several organizations have developed Smart City solutions.

Keeping in mind the same, APAC CIO Outlook brings to you "Top 25 Smart City Solution Providers - 2017" to help reflect on some of the most promising Smart City solution providers in the APAC market. Our panel of editors, industry researchers, and executives has diligently curated this list of providers and believe that from this issue, businesses would be able to gather valuable insights in determining their best document management partner.

Company:

Bright Innovations

Key Person:

Rami Mirsky
Director & CEO

Description:

Provides a cutting-edge, open smart city platform technology ("Coral Reef™"), with the vision to achieve the "Connected City"– a city with a smart and shared environment for people, vehicles and devices that inhabit the urban environment, while offering them unlimited number of applications and services

Website:

brightinnovationsco.com

BRIGHT
INNOVATIONS

Bright Lights Way to Smart and Connected Cities of Future

The dual trend of rapid urbanization and advances in technology are giving rise to "smart cities" around the world. The intention of a smart city is two-fold. Firstly, it aims to address the challenges of efficiently maintaining essential services—water, power, healthcare, and emergency services, with new technological solutions. Secondly, it aims to encourage the proliferation of new high-tech services to the broader population. When designing a smart city, the prospect of a single-point control to integrate, connect, and manage multiple services is definitely an enticing option, and this is where Bright Innovations comes into play. The Israel-based smart city and IoT solutions developer and provider gives future smart cities the opportunity to engage in comprehensive and holistic planning across their security, safety, and operational needs. The magnitude and complexity of communication within a smart city, with human-to-human, human-to-device, and device-to-device interactions, is hard to fully understand, even by the most forward-thinking cities. Bright Innovations' platform enables these cities to take one big step forward in the challenge to understand, control, analyze, and interpret this explosion of data.

> With the vision of integrating apps and services with street infrastructure, Bright Innovations has effectively developed an "App store of the Outdoors"

The firm brings to the fore a visionary open smart city platform—Coral Reef—that provides application developers with access to Bright's cloud-based communication and computation platform. "Coral Reef's advanced processing and communications system provide connectivity between numerous applications and users, ensuring that products and services reach consumers efficiently and securely," says Rami Mirsky, CEO and Founder of Bright Innovations.

Similar to coral reefs the platform relies on a home, and the firm believes that street lighting infrastructure is the ideal location for the Coral Reef to inhabit and proliferate from. The platform serves as a base for IoT services and online street applications and allows municipalities to accomplish the goal of "Connected Streets". Bright embeds its smart Coral Reef 'engine' units into street lights, with advanced communications and processing capabilities. The platform features a unique 'App Store' with a cloud-based data center for third-party applications and a 'Gateway' for application developers and users with advanced control and monitoring features.


Rami Mirsky,
Director & CEO

With the vision of integrating apps and services with street infrastructure, Bright Innovations has effectively developed an "App store of the Outdoors". "The growing trend of replacing legacy streetlights with energy efficient LED streetlight provides an opportunity for Bright to deploy its open smart city platform," says Mirsky. The platform provides an opportunity for a huge number of smart city applications and assists in collection and analysis in cloud-based data repositories.

With the help of cloud-based data transfer, end-users can utilize the data transferred to the servers for varied applications such as navigation, parking, homeland security, smart cars connectivity, and more. "Networked street lights are more than mere appliances for artificial lighting, they are nodes in a multi-functional network," explains Mirsky. For instance, sensors and cameras deployed on streetlights can collect and transmit data from surrounding parking spots for the system to determine whether a spot is occupied or not. This data can significantly reduce the time and effort people averagely spend on finding a parking spot; and appropriate sensors can register a car to automate the billing process. Bright Innovation's Coral Reef platform employs advanced big data, and edge-computing technologies. The system's edge computing capabilities alleviate network congestion and enables cutting-edge Artificial Intelligence capabilities.

Bright Innovations has deployed and is handling the first energy-saving, connected street lighting projects in Israel. Moving ahead, the company plans to step into Asian markets to expand its footprint by partnering in China, Singapore, Australia, and other locations. Bright Innovations is planning to establish an Australian company and to list on the Australian Securities Exchange (ASX) in 2018. Bright has also established a subsidiary in China to better collaborate with leading system integrators and technology companies of the region. ACO