INTERNATIONAL SMART CITIES NEWS COMPENDIUM '24
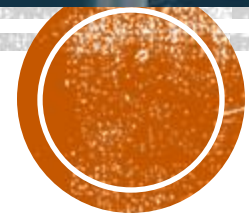
BY: Rajeev Chadha

PPPII Guru
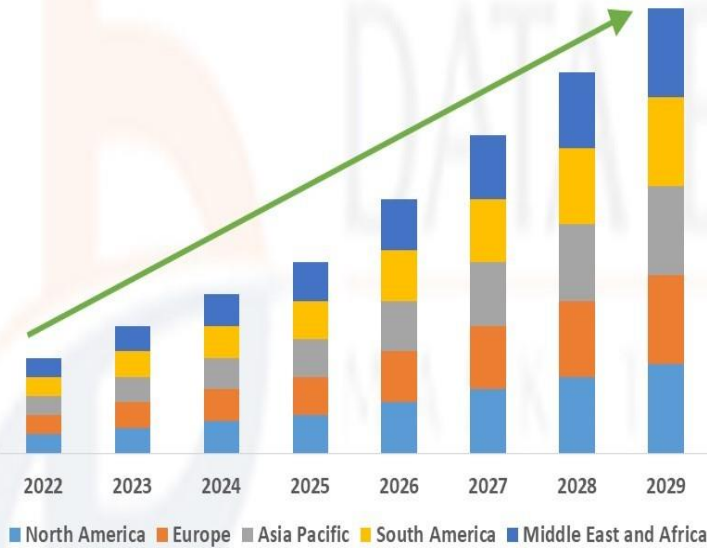
(Infrastructure Finance & PPP Expert)

4th Edition

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Global Smart Cities Market is Expected to Account for USD 1874.83 Billion by 2029

Global Smart Cities Market, By Regions, 2022 to 2029

2022

2029

DATA BRIDGE MARKET RESEARCH

2022 2023 2024 2025 2026 2027 2028 2029

■ North America ■ Europe ■ Asia Pacific ■ South America ■ Middle East and Africa

Source: Data Bridge Market Research Market Analysis Study 2022

GLOBAL SMART CITY MARKET 2023-2027

Market growth will **ACCELERATE** at a **CAGR** of

24.53%

Growth Contributed by **EUROPE**

37%

Incremental growth ($B)

288.7

2022 2027

Growth for **2023**

17.79%

The market is **FRAGMENTED** with several players occupying the market

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SMART CITIES MARKET IS EXPECTED TO REACH THE VALUE OF USD 1874.83 BILLION, GROWING AT A CAGR OF 21.68% BY 2029

The primary goal of intelligent cities is to generate economic growth and improve people's quality of life by empowering local area development and leveraging technology to achieve smart results.

Data Bridge Market Research analyses that the smart cities market was valued at USD 390.13 billion in 2021 and is expected to reach the value of USD 1874.83 billion by 2029, at a CAGR of 21.68% during the forecast period of 2022 to 2029

Smart Cities: A Global Perspective on Innovation and Sustainability

CES 2024: PreAct launches Moab Lidar for smart cities

itsinternational.com January 12, 2024

PreAct Technologies, a developer near-field flash Lidar technology, has announced a line of sensors – Moab, Sahara, Borrego – for any field requiring detailed 3D mapping and modelling.

The high-performance, low-cost solutions are a better alternative to existing, decades-old technologies, said Paul Drysch, PreAct co-founder and chief executive.

"The flexibility and software-definability of our technology enables the creation of different form factors that not only out-perform existing technology being used today, but also meets the regulatory hurdles around data privacy as well as consumer demands for better safety and more convenience," said Drysch.

Moab is particularly suited for smart city and ITS applications. It combines a higher-power version of PreAct's general purpose Lidar sensor Mojave, which it launched last April, and the AI capabilities of Nvidia's Jetson Nano.

Moab supports wireless communication (4G LTE, WIFI) and multiple I/O (Ethernet, USB-C) and can stand up to industrial indoor applications. The integrated "all in one box" packaging means that developers just need to plug Moab into their system and start developing.

Beijing to tap emerging tech, including AI, to build smart city

asianews.network January 23, 2024

BEIJING – Beijing will develop into a global exemplar city for digital economy with an overall transformation in production, governance and lifestyle driven by digitization, Yin Yong, mayor of the city, said on Sunday during the second session of the 16th Beijing Municipal People's Congress.

In recent years, the city has pioneered in key technology, infrastructure and application related to the digital sector. "For example, Beijing built 30,000 5G bases last year. It has about half of the country's generative artificial intelligence large model products available for the public. It has a 160-square-kilometer high-level demonstration zone for automatic driving," Yin said while delivering a government work report during the opening ceremony of the session.

In 2023, the city's GDP reached 4.4 trillion yuan ($61.16 billion), up 5.2 percent year-on-year, while the digital economy contributed 42.9 percent to its GDP, compared with 41.6 percent in 2022. Beijing has set a GDP growth target of 5 percent for this year, according to the government work report.

In 2024, the city will further improve underlying technology of AI and make its AI models as advanced as international ones, promoting its application in government administration, the medical field, industries and life services, according to the work report.

Automatic driving will be applied in more scenarios such as airports, railway stations and urban road cleaning. The city is developing more emerging digital infrastructure such as 10-gigawatt optical network and internet of vehicles to serve the construction of a smart city, the report added.

DOST introduces 'Smart City' concept to LGUs in Cagayan Valley

Published on: January 18, 2024

By Mary Joy F. Javier

Last year, DOST successfully conducted the iSCENE or International Smart City Exposition and Networking Engagement project at the Isabela Convention Center in Cauayan City, Isabela, showcasing the healthcare innovations utilizing artificial intelligence and new fields of information and communication technologies in digital health, in conjunction with an exhibit of its latest technologies under the program featuring five of its supported projects.

Some of the "smarter" innovations of DOST include the integration of e-governance where they created systems like e-payments and e-commerce to make transactions more accessible and faster for the public especially in getting permits, paying bills, and taxes via websites that save time and more convenient transactions.

Smart Cities: A Global Perspective on Innovation and Sustainability

Global Smart Cities to hit valuation of USD 944.68Bn

Global Smart Cities Market to Hit Valuation of USD 944.68 Billion By 2032 | Astute Analytica

February 16, 2024

By 2032, it is predicted that the global smart cities market will be worth US$ 944.68 billion. Thanks to how data utilization and technological advancement has blended so well with active citizen participation. We see this most prominently in China and India, where their unique strategies have pushed them to be at the forefront of smart cities in the Asia Pacific region. China's government-led initiatives and technological innovation has led them to target building 100 smart cities with a market value of $583 billion. While on the other hand we can look to India's 23.7% CAGR as a sign of their rise - separating themselves by putting cost-effective solutions before anything else.

Think smart city innovations? Think InnoEx in Hong Kong

23 February 2024   tech.eu/

Smart cities are finally taking form. From integrated public transport networks to smart grids for optimizing energy consumption, we increasingly see how cities are becoming technologically advanced.

Global examples show that the smart city idea has a growing buy-in from local governments. For instance, Turkey's Ministry of Environment and Urbanization has established a Smart Cities and Geospatial Technologies Department to facilitate the development of smart cities. The country also allocates substantial budgets to this industry, which is estimated to reach nearly a billion US dollars in revenue in 2024.

While Turkey's smart city initiatives are getting up to speed, other cities, such as Hong Kong, are leading the charge. This metropolis is actively shaping the

Smart City Development: Comparing Implementation Models Across Continents

Trilliant to Highlight Essential Solutions for Utilities and Smart Cities at DISTRIBUTECH 2024

February 26, 2024

Showcasing mission-critical solutions for energy and data management

With more than 30 years of experience in the industry, Trilliant continues to work with global customers to support energy innovation and meet sustainability goals. Attendees will have the opportunity to experience how Trilliant's holistic Smart Grid and Smart City solution portfolios lead to improved energy and data management. Some examples of the powerful technology that will be showcased at Trilliant's booth on the exhibition floor (Booth #2613) include:

- **Sub-metering (or suite metering) delivers immediate benefits and future opportunities:** Businesses and property managers are continuously looking for ways to simplify management of their assets while improving customer service and their bottom line. The Trilliant Sub-metering Solution provides each unit within a building with its own dedicated "sub-meter," offering residents the ability to know exactly how much energy they use in their suite and only pay for the energy they use. Developers or building owners achieve predictable electricity costs for common areas, lower overall operating expenses and reduced common area maintenance fees. The solution also enables a more efficient use of space due to the compact form factor of specially designed metering equipment versus traditional socket meters. Learn more in this blog.

- **AMI for Smart Water solutions provides maximum flexibility to optimize current assets in the field, and easily migrate to the next generation:** A major challenge for water utilities is how to migrate away from walk-by, drive-by, and AMI 1.0 solutions to AMI 2.0 without a complete replacement of all meters. Trilliant has the most universal AMI head-end system in the industry, integrated with 300+ meter types in the electric AMI market. Trilliant brings the same "power of choice" methodology to the water and gas AMI markets.

- **Analytics & Data Services serve as the brain of Smart Grids and Smart Cities:** As utilities begin to automate their metering, they're gathering more data than ever before. With that, there is a need to store, report and analyze information — not only from meters, but also from any sensor or electronic device connected to the grid — to improve operations and provide further value to customers. With the collected data and analytics, Trilliant enables utilities to successfully optimize and forecast customer billing, notify customers and partners of outages, and make data-informed decisions as they plan their grids for the future.

Unilumin and Huawei Jointly Unveiled the Smart Pole Site Joint Solution at MWC 2024
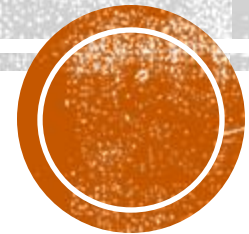
Dr. Larry Li, Vice President of Unilumin, delivered the opening speech, titled "Multiple Integration, Group Intelligence Collaboration, to Create Smart City Neuron". Larry Li, Eric He – CEO of Digital Site BU, Huawei, and Cui Dongfeng – Solution Director of Digital Site, Huawei, together released the Smart Pole Site Joint Solution.

As a leading enterprise in LED industry, Unilumin has been deeply committed to pioneering advancements in technologies such as 5G big data, ultra-high-resolution visualization, and multi-functional smart poles. Industry experts believe that this collaborative innovation is set to redefine urban intelligence and governance.

Based on Huawei's smart pole site portfolio solution, this solution is designed to promote the construction of smart cities that emphasize secure, sustainable, intelligent, and efficient city operations, improved city governance, and comprehensive city sensing

Urban Intelligence: How IoT is Reshaping Metropolitan Areas Globally

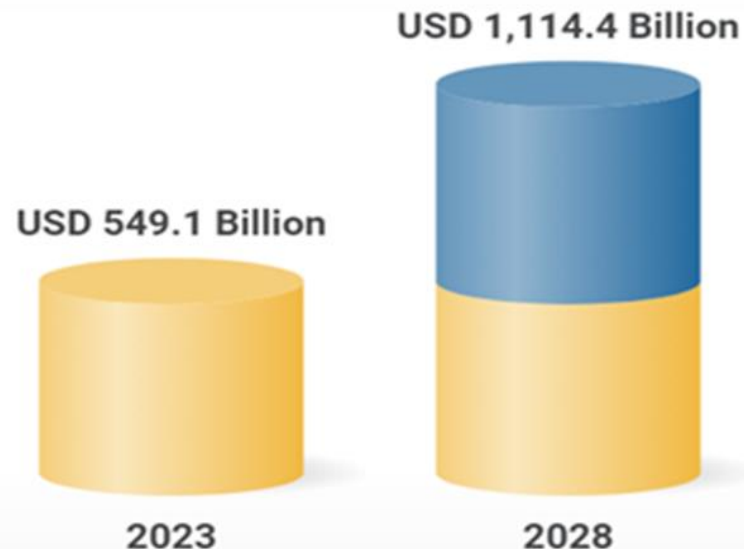# Urban Intelligence: How IoT is Reshaping Metropolitan Areas Globally

Global Smart Cities Market Trends and Forecast 2024-2028: Opportunities & Challenges, Technologies, Case Studies, Key & Emerging Players

March 14, 2024 06:03 ET| Source: Research and Markets **Follow**

Global Smart Cities Market

Market forecast to grow at a CAGR of 15.2%

USD 1,114.4 Billion

USD 549.1 Billion

2023   2028

Partnership for Inclusive Innovation Smart Cities Projects Receive International Recognitions

Warner Robins, Woodstock, and Columbus, Georgia, recognized with smart community awards

Mar 28, 2024

Warner Robins' Citizen Safety Digital Twin for Community Resilience and Woodstock's Smart Master Plan and Smart Corridor Study were recognized at the 2024 Taipei Smart City Summit and Expo with the Intelligent Community Forum's Smart21 Community Award.

At the same time, Columbus was named a Smart 20 award winner by Smart Cities Connect for the Digital Twin River Safety Project. That award will be presented in May.

"These accolades are a testament to the Partnership's pivotal role in developing, nurturing, steering, and funding these projects from conception to triumphant completion," said Debra Lam, the Partnership's director. The Partnership is comprised of several private and public sector entities and is supported by Georgia Tech's Enterprise Innovation Institute.

The Warner Robins project to develop and test a Citizen Safety Digital Twin for Community Resilience integrated a dynamic license plate reader solution with police department investigation practices to help lower crime rates in the community. Working with researchers from Georgia Tech and Middle Georgia State University, the Warner Robins Police Department used historical crime data to determine the optimal location and direction to place license plate reader cameras. During the six-month pilot phase of the project, the data helped recover 27 stolen vehicles and solve three major crimes — a shooting and two homicides.

New Firms to be develop

Over 500 firms to take part in Smart City Asia expo, forum

March 25, 2024 - :

HCM CITY — The 2024 Smart City Asia International Expo and Forum will be held at the Saigon Exhibition and Convention Centre in HCM City from April 17 to 19.

It is expected to have 800 booths set up by more than 500 businesses from various countries and territories to showcase advanced technologies and solutions for smart cities, smart homes, smart buildings, smart lighting, closed-circuit television, semiconductor technologies, smart payment methods, green technologies in smart manufacturing, and robots.

There will be national pavilions from South Korea, India, Finland, China, and Russia.

Major Vietnamese telecommunications and technology corporations such as Viettel, VNPT, Mobifone, and FPT will take part.

ASU's Smart Region Summit explores pros, cons of AI for urban development

March 28, 2024

Event draws nearly 300 attendees to discuss AI and the future of the city

Bernstein illustrated the limited talents of the technology, or its "low level of profundity."

For example, when tasked with something as simple as designing an image of a room without an elephant in it, AI could only create images of elephants in rooms.

Bernstein also said the technology possesses hallucinogenic tendencies when asked to create renderings of specific cities. The results were compelling, but not necessarily accurate.

Those examples aside, Bernstein offered specific strategies to optimize its use in developing smart cities — the first step being to identify a defined set of tasks for the tool. Cleaning data and creating data standards are also necessary.

"Leave actual problem-solving to the experts," he said.

The summit was hosted by Lev Gonick, chief information officer for ASU Enterprise Technology, who co-founded it in 2019 and helped bring together the 300 attendees — including local, national and international smart-city experts, educators, technologists, faculty and leaders.

Wellington "Duke" Reiter, founder and executive director of the Ten Across initiative, served as a moderator for the event, which featured speakers, panels and breakout sessions.

Digital Governance: How Smart Cities Are Transforming Public Administration

Tech industry leaders back int'l partnerships to expand smart cities

TAIPEI, Taiwan – Industry leaders in information and communications technology (ICT) are pushing for international partnerships to further expand the establishment of smart cities worldwide.

The stakeholders said partnerships with ICT companies and governments across the world will promote investments that will improve internet connectivity and address the demands of attaining a smart city.

"Public-private partnerships are important in attaining the demands for a smart city," Dr. Non Arkaraprasetkul, Senior Expert in Smart City Promotion of Thailand's Digital Economy Promotion Agency, said in a press briefing on the sidelines of the 2024 Smart City Summit and Expo (SCSE) held on March 21 at the Taipei Nangang Exhibition Center.

A smart city is an urban area which utilizes a network of sensors and devices to gather data on various concerns such as traffic flow, waste management, energy use, among others, to improve its operations and ensure a good standard of living for its residents.

Among the benefits of a smart city are improved services like public transportation, waste collection, or public safety through smart solutions and the promotion of environment-friendly practices such as renewable energy sources or reduced reliance on cars.

Partnership for Inclusive Innovation Smart Cities Projects Receive International Recognitions

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Mar 28, 2024

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Smart Energy Grids: Powering the Cities of Tomorrow

2024 Kaohsiung Smart City Summit & Expo Showcases Latest Digital and Net-Zero Transformation Technologies

KAOHSIUNG, April 1, 2024 /PRNewswire/ — The 2024 Kaohsiung Smart City Summit & Expo(KSCSE), held at the Kaohsiung Exhibition Center, concluded perfectly. Over the course of the 3-day exhibition, it attracted more than 40,000 visitors. There were a total of 150 exhibitors, 550 booths, and 6 main themes, with participation from over 200 potential foreign vendors, showcasing applications including 5G, AI, IoT, and big data. Kaohsiung, which has repeatedly achieved outstanding results in smart city evaluations, is focusing on new business opportunities in smart and Net-zero transformation. Not only did the sustainable net-zero exhibition area and smart healthcare exhibition area continue to grow, but also the inaugural City COP, an international city-level climate summit, and the Smart Hospital Conferenc

City Government to develop s

Tech Industry Leaders Back International Partnerships To Expand Smart Cities

April 1, 2024

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Smart Energy Grids: Powering the Cities of Tomorrow

2024 World Telecom Smart City Conference: MOEA Strives for International Collaboration to Build 5G Ecosystem, Fostering Technological Transformation

The "2024 World Telecom Smart City Conference," organized by the Industrial Development Administration of the Ministry of Economic Affairs (MOEA), kicked off at the Nangang Exhibition Center on March 21st as part of the Smart City Summit and Expo. Representatives from leading global telecommunications companies such as Orange from France, Swisscom from Switzerland, Exatel from Poland, NTT from Japan, VNPT and FPT Software from Vietnam, as well as Taiwan's Chunghwa Telecom Laboratories, gathered together to share insights and experiences on "Empowering Business Digital Transformation with Innovative Applications of Telecommunications" at the conference. Two sessions of seminars attracted a total of 215 participants from 171 telecommunications companies, system integrators, and network equipment vendors, including those from Europe, the United States, Asia and Taiwan.

Smart City Asia International Expo and Forum opens in HCM City

April 17, 2024 -

HCM CITY — The 2024 Smart City Asia International Expo and Forum opened at the Saigon Exhibition and Convention Centre in HCM City on April 17, showcasing cutting-edge technologies that are transforming the global urban landscape.

There are nearly 800 booths set up by more than 500 businesses from various countries and territories, and national pavilions from South Korea, India, Finland, China, and Russia.

Major Vietnamese telecom and technology corporations such as Viettel, VNPT, Mobifone, and FPT are taking part.

There will be forums and seminars on topics such as smart city development strategies with a green and sustainable development orientation, smart city solutions towards a safer society and smarter life and AIoT applications in smart cities for green development.

2024 New Taipei Smart City International Forum Bringing Together Cross-Border Exchange in New Taipei: AI and Sustainability as Dual Engines for Future Development

NEW TAIPEI CITY, TAIWAN - **Media OutReach Newswire** - 25 June 2024 - On June 19, 2024, at the Hilton Taipei Sinban Hotel, the New Taipei City Government, in collaboration with the international organization ICF (Intelligent Community Forum), co-hosted the "2024 NTPC Smart City International Forum and ICF Top7 Global Cities Announcement." The forum's theme was "AI: The Innovation Accelerator," which explored how artificial intelligence has contributed to economic growth, sustainability, and human welfare. The event attracted overseas dignitaries, representatives from consulates, and industry leaders from nearly 30 countries, fostering lively participation.

New Taipei Smart city:
International Forum

What's it like to live in the world's 'smartest cities' for 2024

BBC

17 July 2024

The BBC speaks to residents in five of the top-ranked cities in the Smart Cities Index 2024 to understand which features are making the most impact to their lives.

With global temperatures rising and environmental changes putting pressure on every country, cities are facing new challenges in their plans for a sustainable future. Some destinations, however, have moved aggressively to implement smart solutions that aim to build a higher long-term quality of life, providing guidance for the rest of the world to follow.

To help chart the progress of these initiatives, the International Institute for Management Development (IMD) puts together an annual ranking of the world's smartest cities, based on the economic and technological strength of each city and how these factors enhance quality of life and provide solutions to societal challenges. Now in its fifth year, the **Smart Cities Index** 2024 collected data from residents of 142 cities to understand their views on their city's health and safety, mobility, activities, opportunities and governance.

Interestingly, not a single city from North America or Africa cracked the top 20 this year, and all but three cities in the top 20 are located in Europe or Asia. To better understand what exactly made these cities feel "smart", we spoke to residents in five of the top-ranked places to understand which features are making the most impact to their lives.

GLOBAL pov:
Smart City Index

Naver kickstarts digital twin project for Saudi smart cities

August 9, 2024

Naver has embarked on a groundbreaking five-year initiative with the Saudi Arabian government to develop digital twin platforms for Riyadh and four other major cities. This ambitious project, a cornerstone of Saudi Arabia's smart city strategy, aims to transform urban planning, infrastructure management and disaster preparedness. Naver is a leading South Korean internet and technology company.

The initiative follows a USD100 million deal secured by Naver in October 2023. Leveraging its advanced cloud technology and AI-driven solutions, Naver will create highly accurate 3D models of Riyadh, Medina, Jeddah, Dammam and Mecca, with precision down to 10cm. These digital twins will serve as virtual replicas of the cities, enabling real-time data analysis and sophisticated simulations for enhanced urban management.

Smart Cities Summit set to cover waste management technology

August 15, 2024
by Libby Stonell

The Smart Cities Summit, taking place on 24 September 2024 at the IET London, is set to explore strategies and technologies in waste management, sustainable building practices, renewable energy and smart infrastructure.

In partnership with the Smart Cities Council, the conference is set to focus on integrating environmental services within the framework of smart cities to foster sustainability, efficiency and inclusivity while simultaneously meeting the demands of an expanding environment.

Industry experts and key decision makers will gather at Smart Cities to dissect pivotal trends and legislative changes that define the sector's trajectory.

Speakers include Corey Gray, president of the Smart Cities Council; Anna Rose, director and architectural and urban planner at Space Syntax; Nick Bray CBE, VP global defence and security, VANTIQ; Chris Dymond, director of the international smart city management programme at Zigurat Institute of Technology; Dr Christina Yan Zhang, CEO at the Metaverse Institute; Kevin McCaffrey, founder and managing director, Tr3dent; Vitor Pereira, founder of Zoom Global Smart Cities.

Experts convene in Macao to discuss the development of sustainable cities

- The 4th Macao International Conference on Smart City Technologies was held at UM last week and explored topics from AI to intelligent transport

- In his opening remarks, UM rector Yonghua Song said the event aimed to be a platform for the exchange of ideas between scholars and professionals

UPDATED: 26 Aug 2024, 8:35 am

The 4th Macao International Conference on Smart City Technologies was held last week at the University of Macau (UM).

According to the conference programme, the event delved into topics ranging from AI and big data to smart energy and intelligent transport. The first keynote address was given by Hong Hao of Guangzhou University and Australia's Curtin University, who spoke on urban-scale multi-hazard monitoring.

Digital Governance:
How Smart Cities
Are Transforming
Public Administration

Saudi Arabia's residential landscape changing as smart cities rise

RIYADH: The evolution of smart cities in Saudi Arabia could change the residential landscape of the Kingdom, as high-net-worth individuals discover these communities are perfect destinations for setting up homes, according to experts.

Smart cities integrate artificial intelligence alongside information and communications technology to derive actionable insight from infrastructure, systems and processes to enhance the quality of life and safety for citizens.

Saudi Arabia was represented five times in the 2024 edition of the International Institute for Management Development Smart City Index — with Riyadh, Madinah, and Makkah making the list along with Jeddah and Al-Khobar.

With the $500 billion giga-project of NEOM set to lead the way with smart technology, it is no surprise the number of high-net-worth individuals flocking to Saudi Arabia is set to rise, with a report released by Henley & Partners in June projecting over 300 millionaires would be moving to the Kingdom in 2024.

Middle east update:
Smart Cities
Are Transforming Public Administration

Global Implementation Strategies

Itron to Showcase Smart City Solutions at the 2024 Indonesia International Smart City Expo & Forum

September 16, 2024

Itron will demonstrate smart street lighting solutions, smart street light controllers and control monitoring systems during IISMEX. Attendees can learn about applications designed for Itron's smart street lighting systems which include Air Quality Sensors, Traffic Monitoring, Tilt Sensors, integrations with IP CCTV and more. Itron's full-scale, comprehensive approach helps cities to future-proof their smart city.

As cities and utilities digitize essential infrastructure, they can leverage Itron's Smart Water solutions, which help water utilities improve operational efficiencies. These solutions feature tools that help cities more efficiently and effectively improve water distribution, reduce non-revenue water and implement IoT-based smart billing.

"Our smart city solutions help cities maximize energy savings, achieve

How Californian and African City Connections Can Build Up Smart City Diplomacy

As the testing ground for subnational diplomacy, Los Angeles and African cities can partner to leverage innovation to meet global challenges like climate change and emerging technology governance.

September 19, 2024

Over the course of 2024, the Carnegie Endowment for International Peace and the City of Los Angeles convened more than a dozen listening sessions in support of the city's development of its first ever Africa Trade and Investment Strategy. The listening sessions brought new voices, perspectives, and geographies directly into the policymaking process. In support of these sessions, select scholars developed exploratory essays on California–Africa connections. These essays are meant to inform policymaking considerations and to identify potential questions for future consideration in developing and examining California–Africa connections. They are at once expert and experimental and attempt not only to shape policy but also to provoke additional scholarship.

Cities the world over are domains of innovation and engines of economic production, often as a result of their open and cosmopolitan nature. They influence and are influenced by globalization, as well as local and regional dynamics of politics, culture, commercial, and socioeconomic activity. They are

Global Implementation Strategies

IMPROVATE brings the world's most advanced smart city technology from Israel to all over the world

09 Oct, 2024,

The conference, held this week at the Ritz-Carlton in Hungary's capital, was attended by representatives and mayors of prominent cities across Europe, including Budapest, Sofia, Larnaca, Skopje, Tirana, and others.

While Israel is fighting on multiple fronts, the local high-tech industry continues to achieve outstanding results and maintain the resilience of the Israeli economy. This week, the IMPROVATE Smart Cities Conference took place in Budapest, Hungary. It brought together leading mayors from across Europe.

The aim of the conference was to introduce the world to new and advanced technologies in the field of "smart cities" developed by the Israeli high-tech industry. The mayors met with the leading and most innovative Israeli companies in the field, with the goal of getting to know

South Korea Inspires Telangana Govt to Develop Smart Cities

24 October 2024

Seoul (South Korea): The Telangana government is planning to develop smart cities modelled after South Korea's international smart cities — Songdo, Yeongjong, and Cheongna. This initiative is part of Chief Minister A. Revanth Reddy's ambitious "Fourth City" project aimed at transforming the outskirts of Hyderabad into a hub of modern urban development.

A delegation led by Telangana ministers Ponguleti Srinivas Reddy and Ponnam Prabhakar, alongside senior officials, who are currently touring South Korea, visited three international smart cities to assess the infrastructure of these cutting-edge cities.

The visit, which took place on Wednesday, included stops in Songdo, Yeongjong, and Cheongna, all located within the Incheon Free Economic Zone. This economic zone, established in 2003, has been a cornerstone of South Korea's economic advancement, with a focus on IT, biotechnology, finance, logistics, and tourism.

South Korean officials briefed the Telangana delegation about three international smart cities. Cheongna International City, which has a population of 98,060 (36,184 households), spread over 17.8 sq. km at an estimated cost of 6.58 trillion won or Rs 40,000 crore. The city was built between 2003 and 2024

Economic Development Through Smart City Initiatives

Smart city experts to gather in Pattaya

International conference being staged under the theme 'Revolution for Mankind'

8 OCT 2024

Engineers and developers of **smart cities** worldwide will gather in **Pattaya** later this month to exchange views and discuss ideas on revolutionising urban development for sustainable living, says the International Institute of Electrical and Electronics Engineers (IEEE).

Their participation in the 10th IEEE International Smart Cities Conference, from Oct 29 to Nov 1, is in line with Thailand's plan to develop smart cities in many provinces, including the Samyan Smart City project in Bangkok.

"The theme of the conference this year is 'Revolution for Mankind'," said Wilas Chaloeysat, chairman of the IEEE Power & Energy Society of Thailand and governor of the Metropolitan Electricity Authority.

Thailand hosts international smart city forum

Apart from academic discussions covering different aspects of smart cities, the event will also feature expos showcasing cutting-edge technologies and innovations.

This conference has been held every year in various countries across Europe and the Americas, and this year's edition is being held from October 29 to November 1 at the Royal Cliff Grand Hotel in Pattaya, Chonburi.

OCTOBER 14, 2024

Vilas Chalaysat, president of Thailand's chapter of IEEE Power & Energy Society (IEEE PES) and governor of the Metropolitan Electricity Authority, said that smart city technology has become a trend in global development. Thailand has taken significant strides in this area, developing both large and small cities in line with local contexts, which has made the country stand out in smart city initiatives, he added.

Assoc Prof Nopporn Leeprechanon, IEEE PES vice chair for Meetings and Conferences, said this annual conference serves as a platform for experts and researchers from leading organisations worldwide to exchange knowledge and experiences in smart city development.

Chiruit Isarangkun na Ayuthaya, director of the Thailand Convention and Exhibition Bureau (TCEB), believes this conference will generate positive economic and social impacts, as well as long-term benefits for Pattaya City, the Eastern Economic Corridor (EEC) and the country as well as the global smart city development ecosystem.

The IEEE-ISC2-2024 aligns with the "Ignite Thailand" policy, which focuses on driving the country's vision for smart city development. It also matches TCEB's target industries, promoting international conferences on Urban Quality of Life and Mobility as a key driver of Thailand's innovation-led economy.

Indian initiative for child-friendly public spaces wins Innovation Award at global Smart Cities Expo

The Ahmedbad-based community initiative focuses on transforming public spaces in cities into child-friendly zones.

Updated – November 11, 2024 03:21 pm IST

aProCh, an Ahmedabad-based community initiative that works in the field of building safe environments for children, won the Innovation Award at the 2024 Smart Cities Expo World Congress (SCEWC) held in Barcelona, Spain between November 5 and 7. The award was shared by Saudi Arabia's Aramco.

"This award recognises urban solutions which are human centric for livable, sustainable and inclusive cities. After this recognition, we will proactively recommend the central government to implement such programmes as part of its agenda for the next Smart Cities mission and also make such urban intervention as part of policy for cities," Kirti Zala, co founder and CEO of aProCh told *The Hindu*.

Economic Development Through Smart City Initiatives

Smart City Leadership: Governance Models That Drive Innovation

Global Smart Cities Engineering & Construction Services Market to Worth Over 553.87 Billion By 2032 | Investment, Projects, Segment Analysis, and Market Dynamics

December 02, 2024

The smart cities engineering & construction services market is revolutionizing urban living, integrating cutting-edge technologies and sustainable solutions to enhance infrastructure, mobility, and quality of life, while fostering collaboration between governments and private sectors for a smarter, more efficient future.

Brief of Rajeev Chadha (Public Private Partnership Infrastructure and Investment, Guru)

Rajeev *(aka PPPII Guru)*, MBA (Finance), Faculty of Management Studies, Delhi University, M.Sc (Electronics), MRICS (London), CAIB, M.S(Consultancy Management-BITS Pilani), IRDA, AMFI certified. Rajeev is a professionally trained ex-banker (Management Trainee -1986 batch) from the second largest bank in India (Punjab National Bank). Rajeev has 38++ years of rich, varied, and *unique industry experience* spread across top MNCs (**Ascendas Pte**), Public Sector (**Punjab National Bank**) / Private Sector (**Gold Souk, Wegman**), Central Government (**Ministry of Finance, Ministry of Urban Development**) / state governments (**Government of Uttaranchal + 20 other States of India**) and **Government of Singapore**, statutory bodies (**National Capital Region Planning Board, Ministry of Urban Development**) and regulators (**Inland Waterways Authority of India)** in the infrastructure domain. Rajeev has been in leadership roles as CEO of four Real Estate Companies in India in the pre-demonetization era including two Real Estate and Infrastructure Private Equity and Venture Funds. Rajeev has provided **consulting inputs to top international strategy consulting companies** such as McKinsey, Bain, BCG, GLG, Deloitte, PwC and KPMG as a subject expert in the areas of infrastructure (all sub-sectors) as well as public, corporate, project and personal financing & infrastructure planning. Rajeev has worked extensively with the Government of India including the Ministry of Finance and the Ministry of Housing and Urban Affairs at the senior management level. This work besides Urban Infrastructure development also includes Smart Cities and land monetization.

Rajeev has been involved in infrastructure planning, financing & advisory of over **1800++ infrastructure projects/schemes aggregating to Rs.65 lac** crores spread across **ALL sectors**. This includes **350++ PPP projects** in various stages of development and **250++ transaction advisory assignments.** Rajeev has undertaken Capacity Building and Training of over 6000++ professionals in India, Nepal, Bangladesh, Sri Lanka, and Singapore in innovative infrastructure financing, PPP (all sectors), land monetization, smart cities, and climate/disaster financing. Rajeev has also taught in two Management Colleges as external faculty as well as the Training College of Punjab National Bank in his areas of expertise i.e. Infrastructure, PPP, Urban / Smart Cities / Real Estate / Climate Financing etc.

Currently, Rajeev is also involved in 11 top infrastructure consulting assignments as a Team leader or Finance / PPP expert in South Asia along with the Infrastructure/PPP expert for Swadesh Darshan 2.0, Ministry of Tourism, PPP/finance/real estate expert in Musi River Front Development & Transit Oriented Development based Zonal Development Plan Ghaziabad (NCRTC) Projects Namo Bharat. He has been invited as a subject expert in SPA Delhi, Basic PPP training in Bangladesh (ADB project) & PPP Expert for the training program on transport infrastructure projects for BIMSTEC.

Rajeev is the only Asian to provide training not just in India but government-sponsored training workshops to government servants/bankers in Nepal, Bangladesh, and Sri Lanka. He has provided consultation and insights to the officials of the Holy City of Mecca and a Master Trainer for 9-day workshop for the PPP practitioners of Malawi.

RAJEEV CHADHA

Infrastructure Finance & Policy, Procurement , PPP (all sectors) , Banking & Multilateral Projects, Government Finances , Sustainable Development, Climate Finance , Institutional Development & Governance.

INDIA

Years of Experience

- 38+ Years

Qualifications

- MBA, FMS Delhi University
- M.Sc. (Electronics), Delhi University
  (Equivalent to B.E Electronics)
- Prince2R Project Management

Key Expertise

- Infrastructure Finance & PPP (Project initiation to execution –entire lifecycle including appraisals)
- Banking, Private Equity & Venture Fund
- Urban Development & Large Infrastructure Projects
- Financing, Fundraising and Strategies for Government Organisations, Cities, Urban Development Bodies, State & Central Governments and Projects
- Public Financing (Central, State & ULBs)

Background

Rajeev has 38 + years of <u>**unique**</u> industry experience spread across top MNCs, Public / Private Sector organisations, Central / State Governments, Statutory bodies and regulators. **Rajeev also provided consulting inputs to top international strategy consulting companies such as McKinsey, Bain, BCG, GLG, PwC and KPMG as subject experts.** His consulting experience of 15+ years is across areas such as strategic advice, organization development, new policy formulation and framework, pre-feasibility and feasibility studies, project conceptualization and planning, the entire life cycle of project management & and program management, monitoring and review, mid-course correction, team management and providing overall leadership to assignments/projects and organizations.

Rajeev is currently involved in multiple advisory / Transaction Advisory projects in the Infrastructure sector.

1. Team Leader for TA services to National High-Speed Rail Development Corporation (NHRCL) for generating revenue from commercial utilisation of the High-Speed Rail Terminal at Sabarmati, Ahmedabad.

3. Investment, Finance & PPP Expert for Swadesh Darshan 2.0 for Himachal Pradesh & Jharkhand, Assam, Arunachal and Ladakh

5. Subject Expert, Capacity Building ERD /NPD, Government of Sri Lanka & PPPA, PMO, Government of Bangladesh

6. PPP/Real Estate/ Infrastructure Finance / TOD expert of Musi River Front Development

7. PPP/ Real Estate / Infrastructure Finance / TOD expert - Zonal Development Plan Ghaziabad, NCRTC, Namo Bharat

8. Master Trainer for PPP Practitioners from PPP Commission of the Republic of Malawi - P3World Council

9.Global Smart City, Finance, Climate & Disaster,PPP, TOD,Real Estate & Land monetization Expert - City of Mecca

Key Experience

- **Team Leader & Finance / PPP Expert , PPP Cell. Department of Economic Affairs (DEA),** Ministry of Finance handling National Infrastructure Pipeline (NIP), National Monetization Pipeline (NMP), Gati Shakti & Centre of Excellence – PPP (FCDO Funded

  - Appraisal of large infrastructure projects on behalf of DEA (SFC. PIB . DIB , EFC , VGF , PPPAC & IIPDF Proposals)
  - Policy making & capacity building for Public Private Partnership Projects (PPP) in India (FCDO Funded Project).

- Team Leader, GeM (Government E-Market Place , Ministry of Commerce) , PMU –KPMG handling services design on GeM
- Team Leader (Medipark Industrial Estate , Chennai , Tamil Nadu) – PMC –KPMG handling end to end advisory of Medical Devices Industrial Park.
- Team Leader Program Management for PMIDC, Govt. of Punjab for Smart City, HRIDAY, Swachh Bharat, Ease of doing Business, AMRUT . Supported Government of Punjab as overall leader & Finance / PPP Expert.
- Urban Finance & PPP Expert for PwC & KPMG**.** Inputs to 35 Smart cities namely Karnal , Indore, Gwalior, Bilaspur, Pasighat , Allahabad, Greater Warangal, Shivamogga, Hubbli Dharwad, Agartala & Karimnagar since 2015 . 17 Smart Cities of U.P in 2020-21 in a KPMG PMU Both Area based development (ABD) as well as Pan City ICT components of Smart Cities.
- Finance Expert at JBIC Funded Program Management for Yamuna Action Plan (YAP 2)- MoEF, Govt. of India. Urban reforms component. Entire life cycle of project management for a Japanese MNC Company – Tokyo Engineering Consultants.
- Consultant for Govt. of A.P, Resident Commissioner Office, New Delhi handling ten (10) key Infrastructure Ministries & follow-up of Govt of AP Infrastructure projects
- Consultant (Finance & Audit), IWAI, Ministry of Shipping**. World Bank assisted Waterways JVM -1 .** Handling CAG issues & advice on Finance matters**.** Fundraising by way of Bonds. Consultant, Ministry of Minority Affairs. Project appraisals for Grant disbursements. Approved Inspecting Authority of MAEF.Joint Director Finance NCR Planning Board. Infrastructure Projects in the NCR Region.
- CEO of two real estate companies in NCR Region doing end to end Real Estate Projects including SEZs & Integrated Townships.

Key Achievements

- Infrastructure planning, financing and advisory of **over 1800++ infrastructure projects/schemes aggregating to Rs. 58 Lac Crore spread across ALL sectors**.
- Advisory of **350+ PPP Projects. Out of these 150 PPP Projects are at various stages of the project life cycle** spread across ALL sectors.
- **Transaction Advisory of over 250+ Infrastructure Projects** (Brownfield & Greenfield)
- **Capacity Building on PPP / Infrastructure Planning and financing to National Bank of Infrastructure, Bankers and Government Officers of Nepal** through NIBM
- Capacity Building on Infrastructure Financing for External Resources Department, Government of Sri Lanka.
- **Teaching assignments at two Management Colleges in the Delhi / NCR Region on subjects related to Infrastructure, Finance, Banking and real estate**.
- Strategic advice to the Department of Economic Affairs, Ministry of Finance, Government of India in large Infrastructure Project appraisals (SFC, EFC, PIB, DIB, VGF, IIPDF & PPPA. Over 100+ largest Infrastructure Projects in India were appraised during the period (2020-22). The total Project Cost involved Rs 5 lac crore.
- Strategic advice to the Department of Economic Affairs, Ministry of Finance, Government of India on Policy matters related to Public Private Partnership (PPP) – ALL Sectors
- Strategic inputs to 35 Smart Cities in India in various Capacities as part of Project Management Consultants (PMC) and Project Management Unit (PMU) in 15 States in India.
- Enhanced Investment Portfolio of Punjab National Bank by 40% and increased Investment yield by 150 basis points across all types of financial instruments and maturities (1992-98).
- Played a key role in the Implementation of Finacle software at Punjab National Bank (1994-98)
- Supported the Banking Division, Government of India in enacting the DRT Act (SARFARESI Act) and set up Debt Recovery Tribunals all over India.
- Transformation of Punjab National Bank Mutual Fund (2001) – a subsidiary of Punjab National Bank
- Joint Director (Finance) at National Capital Region Planning Board, Ministry of Urban Development and supported Infrastructure Development in NCR Region.
  - Raised Rs 3000 Cr by way of Private Placement of Bonds. Appraised over 300+Infrastructure Projects in the NCR Region
  - Involved in large Infrastructure Projects such as KMP, FNG Expressway, IRBT, Delhi Metro, RRTS etc. Integrated Townships Projects in NOIDA, Gurgaon, Faridabad etc
  - Managed the entire accounts & finance of NCRPB
  - Capacity Building Workshops for ULBs in NCR Region
  - Prepared the Regional Plan 2021 of NCR
- Joined SIDCUL, Government of Uttaranchal as General Manager (Infrastructure) and was involved in landmark Rurdrapur Industrial Estate & IT Park Dehradun development.
- Worked on Urban Sector Reforms under Yamuna Action Plan -2
- Raised Rs 1000 Cr for Solitaire Capital Advisors Singapore based Private Equity Firm
- Joined Ascendas Pte Limited (Fully owned by Government of India) in 2008 as Vice President (North India Operations)
  - Prepared Business Plans for two SEZs in Gurgaon – one a JV with Dabur Group and the other with IREO
  - Worked on Singapore India Economic Zone. Involved in over 20 Business development deals which included the acquisition of DLF Cyber City properties
  - Listed the properties of Ascendas as REITS on the Singapore Stock Exchange (SGX)
  - Interacted with Central Government & State Government. Represented tCompany at various domestic and international forums such as FICCI, CII, ASSOCHAM, KOTRA, JETRO etc
- Worked as Professional CEO of two Real Estate Companies in 2012-17. Developed 25 Acre SEZ and 100 Acre Township. 25 Acre SEZ at NOIDA Ext leased out one tower of 3 lac sft to IBM.
- Professional CEO & successfully developed Worked on Multiple assignments with Mckinsey, Bain and BCG providing support in the areas of my expertise
- Advised BHEL on Procurement-related matters pertaining to Make in India.
- Inspected, and appraised over 10 projects for Maulana Azad Education Trust, MOEF, and GoI for grant funding.
- Raised Rs 300 Cr by way of Private Placement of Bonds for IWAI, Govt of India

Key Professional Milestones

- Joined Punjab National Bank as a Management Trainee in Aug 1986.
- Joint Director - NCRPB, Ministry of Urban Development, Govt. of India - (2001 - 04)
- O.S.D - Banking Division, Ministry of Finance, Govt. of India - (1999 - 2000)
- Vice President - Punjab National Bank - (1986 - 2001)
- G.M – SIDCUL , Govt. of Uttaranchal - (2004 - 05)
- Finance Consultant - Yamuna Action Plan 2 - (2005 - 06)
- Vice President - Solitaire Capital (SEBI Regd Infra Fund) - (2006 - 08)
- Vice President - Ascends Pte Ltd (Fully Owned by Govt. of Singapore - (2008 - 11)
- President - Arenes Gold Souk, Gurgaon - (2011 - 13)
- CEO - Wegmans Trustone Group, NOIDA - (2013 - 16)
- CEO - AMRAC Advisors Pvt. Ltd (SEBI Registered AIF - II - (2016)
- Consultant - Andhra Bhawan, Government of Andhra Pradesh - (2016)
- Consultant - IWAI, Ministry of Shipping, Government of India - (2016 - 17)
- Consultant - MAEF, Ministry of Minority Affairs, Govt. of India - (2016 till date)
- Director - PWC - Government & Public Sector Advisory - (2017 - 19)
- Sr. Advisor KPMG – Govt. & Public Sector Advisory / Major Project Advisory (2019-TILL DATE)

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Infrastructure Finance, PPP, Procurement, Institutional, Governance and Global Smart Cities Expert

BIMSTEC, 2025

Dhaka, Bangladesh Oct 2024

Dhaka, Bangladesh Nov 2024

Dhaka, Bangladesh Dec 2024

Colombo , Sri Lanka Jan 2024

Kathmandu, Nepal April 2022

Colombo , Sri Lanka Sep 2023