4th SMART CITIES SUMMIT 2017

VENUE: Pragati Maidan, New Delhi | **DATE:** March 15-17, 2017
ORGANISER: ASAPP Info Global Group and the India China Economic and Cultural Council
in partnership with the Smart Cities Council India

Winners take it all: 4th Smart Cities Summit 2017 Awardees.

With projects off the ground, the recently held summit focused on transportation, PPP, planning future cities, water and wastewater, IoT and energy.

A series of steps have been initiated by the government to set the ball rolling in its ambitious plan to create smart cities across India. This is evident from the fact that by June 2017, a total of 510 projects with a total investment of Rs 20,669 crore will take off. While Rs 1.05 lakh crore will be spent on area-based development (ABD) plans,

Rs 26,141 crore will be spent on pan-city solutions in next five years.

The fourth edition of the summit brought together over 1,500 global and national policymakers, financiers and technologists, coupled with over 25 city and state representatives for a common agenda: Mission Execution.

The summit was inaugurated by Chief Guest **PP Chaudhary, Minister of State, Ministry of Electronics and Information Technology, Government of India**. He emphasised upon

the government's Digital India initiatives. Initiatives and schemes, he said, "such as biometric-based digital identity of citizens – Aadhaar, digital lockers, computerisation of land records, etc – are gaining momentum in India." His address was followed by the launch of the *India Readiness*

◄ Hansraj Ahir,
Minister of State,
Home Affairs, GoI.

PP Chaudhary,
Minister of State, Ministry of
Electronics and Information
Technology, GoI.

Deepak Bagla
Managing Director & CEO,
Invest India

HE Liu Jinsong
Minister & DCM, Embassy
of People's Republic
of China

Pratap Padode
Founder Director,
Smart Cities Council India

Mohammad Saqib
Secretary General,
India-China Economic and
Cultural Council

Guide Version 2, which is a conceptual roadmap to address growth strategies by focusing on universal principles that unite key areas of a city.

During his inaugural address, **Pratap Padode, Founder Director, Smart Cities Council India**, said that the country needs to build 700-900 million sq m per annum (equal to one Chicago every year) and requires 350-400 km of metro lines annually. Further, he lauded the efforts by the government on various fronts such as AMRUT, which plans to give $7.5 billion to 500 Indian cities over five years for investments in basic amenities and energy-saving measures.

"India and China share a similar context in terms of urban population and infrastructure challenges. In order to meet these challenges, China was among the first few countries to have successfully implemented the concept of smart cities and developed the requisite infrastructure to meet the urban challenges," said **Mohammad Saqib, Secretary General, India-China Economic and Cultural Council.**

In his keynote address, **Deepak Bagla, Managing Director & CEO, Invest India,** gave the facts on Chinese investment in India. "From 2000 to 2015, the total investment was $1.6 billion; however, since then, it has zoomed up to $30 billion," he said. He further laid stress upon developing

a new financial model to support urban local bodies for their projects as, currently, the burden has been shared between the Centre, states, and municipal corporations.

In his remarks, **HE Liu Jinsong, Minister & DCM, Embassy of the People's Republic of China**, spoke about replicating the model of

Launch of India Readiness Guide Version 2: *(L-R)* Mohammad Saqib Secretary General, India-China Economic and Cultural Council; Darshana Mali, Principal Consultant, Smart Cities Council India; Pratap Padode, Founder Director, Smart Cities Council India; PP Chaudhary, Minister of State, Ministry of Electronics and Information Technology, Government of India; HE Liu Jinsong, Minister & DCM, Embassy of People's Republic of China.

Panel session-Energy: *(L-R)* Harshavardhan Chitale, Philips Lighting; Prakash Chandraker, Schneider Electric; Rahul Tongia, The Brookings Institution; Amit Vaidya, Xylem; Isaac Emmanuel, Covestro; and Sumit Ghosh, Hero Future Energies.

Panel session-City Lifelines-Transport: *(L-R)* Sameer Jain, KPMG; Ashish P Dhakan, Hikvision India; Bharat Salhotra, Alstom; Arvind Singhatiya, Ola cabs; Roselin Dey, WRI India; and Ranbir Saran Das, Fairwood Group.

Panel session-Planning Cities of the Future: *(L-R)* Prof Santosh Kumar, NIDM; Dr Marek Wosinski, Arizona State University; Jagdish Salgaonkar, AECOM; Aamer Azeemi, Bhubaneswar Smart City; Dr Manamohan Kalgal, UltraTech; Raveendra Bhat, Xylem; Gautam Balakrishnan, Tata Projects; and Pratap Padode, Smart Cities Council India.

century-old cities that existed in India such as Harappa and Mohenjo-Daro. According to him, planners or authorities must think about building medium and small cities rather than large ones, as city management would be more effective then.

Meanwhile, the 4th Smart Cities Summit Chief Guest **Hansraj Ahir, Minister of State for Home Affairs, Government of India**, informed about the Centre's flagship Safe City and Smart Police projects. He said, "We have proposed $333 million to make seven big cities – Delhi, Mumbai, Kolkata, Chennai, Ahmedabad, Bengaluru and Hyderabad – focus on technological advancements."

The highlight of the three-day summit was the Role of Honour Awards for city officials, consultants and the Smart Leader of the Year. **Jabalpur Smart City's CEO Gajendra Singh Nagesh** was adjudged Smart Leader of the Year, based on a public vote.

Session: City Lifelines-Transport

During the session, panellists discussed the designing of BRTS, smart parking for growing parking congestion, parking apps, car pooling and transport planning. They deliberated upon the use of technology such as intelligent and integrated transport management systems, use of sensors, multi-layered parking, advanced public announcements and display systems, etc.

Session: Planning Cities of the Future

The discussion focused on preparing master plans, sustainable financial models for greenfield cities and developing more satellite cities. It centred on bringing together the natural environment, utility services

and usable infrastructure. The panelist emphasised upon the need for urban planning solutions to be area-specific and threw light on issues such as space for hawkers and parking, which need to be addressed in city planning.

Session: PPP

At this session, the panellists deliberated on the importance of public-private partnerships (PPPs) for smart city implementation, as 25 to 30 per cent of the plans submitted by municipal corporations are supposed to be funded on a PPP basis. Another important aspect discussed during the session was financially viable projects and the monetary constraints of the municipal corporations in executing their capacity augmentation.

Session: Planning Liveable Cities

The session focused on how to make brownfield and greenfield cities liveable. During the discussion, the panellists considered various factors including use of advanced technologies such as RFID and geo-tagging, BRTS, water management, waste-to-heat energy plants, citizen engagement, revenue enhancement of urban local bodies, use of digitisation, etc.

Session: IoT

The panel session deliberated upon the reliability of present technology, despite the Internet of Things (IoT) market being poised to touch the $15 million mark by 2020 in India. During the session, panellists discussed the importance of the link between lighting and human behaviour. In addition, the benefits of controlled lighting with the help of IoT came across as a saviour for municipal corporations.

Panel session-PPP: *(L-R)* Dr R Mandal, Srei Infrastructure Finance; Arindam Guha, Deloitte Touche Tohmatsu; and Sudhir Agarwal, Thomson Reuters.

Panel session-Planning Liveable Cities: *(L-R)* Pratap Padode, Smart Cities Council India; Siddharth Bafna, Mahindra Lifespace Developers; Gajendra Singh Nagesh, Jabalpur Smart City; NSN Murty, PWC; Young-hoon, SON, Korea Land & Housing Corporation; and Lokesh Lohiya, CISCO.

Panel session-IoT: *(L-R)* Rahul Savdekar, Microsoft India; Ojasi Kikani, Yogin Technologies; Nishant Goyal, NVIDIA; Siva Kumar, CIMCON Lighting, Inc; Amit Bansal, HPE; and Rakesh Pandey, Oracle.

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Full House: The summit this year witnessed the gathering of national and international delegates.

According to the panellists, IoT and sensor devices are the buzzwords; however, these devices need to be managed and operated in a secure manner.

Session: Energy

This discussion focused on maximum use of solar energy, energy storage, intelligent street lighting, management of energy and integrated BMS. The panel pointed to energy as a key factor in the 'smart' mix. They emphasised upon the need to analyse the pattern of electricity consumption to make storage more efficient, and for buildings under construction to ensure zero wastage of energy by using proper insulation and natural lighting.

International Talk

The three-day summit concluded with **Carlo Ratti, Director, MIT Senseable City Lab, Boston,**

Carlo Ratti

making a presentation on challenges in building smart cities. This was followed by the session 'Learning from China' where six leading China-based companies – **Beijing Greatwall Enterprise Institute, Prama Hikvision, Shaanxi Xintong Intelligent Technology Co, Broad Homes Industrial International Construction Co, Broad Group and Hunan KingLv Environmental Protection** – presented key takeaways from China's experience of building smart cities. These included the Chinese experience on smart cities and proposals for India; making an intelligent and efficient city; new material application on civil engineering projects; low-carbon and healthy city; and the intergrated equipment and its technology application to the industry and domestic wastewater treatment.

International Participation

Through this expo-cum-conference, India has been made

For those who missed out, here is a snapshot of the proceedings:

- 72 hours of networking, business and innovation.
- Over 25 city and state representatives.
- Over 50 high-level industry speakers.
- Over 1,500 international, state and local government officials, utility heads, policymakers, financiers and technologists.
- Over 20 dedicated lessons learned and case studies discussed.

Rahul Savdekar, Director (Industry Solutions), Microsoft India shares his insight on IoT.

aware of China's low-cost, yet, cost effective technology. Testimony to this was, the exhibition witnessed 60+ tech companies from China to be part of Smart India for the first time. Meanwhile, delegations from leading associations that includes CCCME, Xian CCPIT, Sichuan CCPIT, Shaanxi CCPIT Hanwei and Electronics GEI also attended this conference.

The expo attracted government agencies, municipal administrators, industry leaders, investors, academia and media etc. The expo was attended by mayors, municipal commissioners and witnessed a footfall of around 1,500 national and international dignitaries.

Technology on display

China's enormous progress and success in innovation are often overlooked by the international

media. It is a pity that China attracts a lot of negative press about trade, currencies or politics but its achievements are deliberately ignored. However, the perception was proven wrong when international Chinese companies including HIKVISION, Broad Air-conditioning, Broad Homes, AJB, ADD and XINTONG exhibited their state of the art products at recently held 4th Smart Cities Summit 2017.

During this expo, Broad Homes displayed advanced precast concrete construction technology and expertise; whereas BROAD Group displayed products such as central air conditioning powered by natural gas and waste heat with cooling, hot water functions and packaged water distribution system etc. Adot Lighting was instrumental in featuring their state-of-the-art indoor lighting system.

China's technology advances in recent time are unique as a developing country and have surpassed all imaginations. These achievements are not sudden, but the result of well-crafted policies of the government of China and three decades of hard work of its people.

This can be privy from latest solutions displayed by Guangdong Anjubaodigital Technology. The company is an integrated solution

Exhibitors list

S. No.	Company Name
1	Changsha Country Environmental Technology Co., Ltd
2	Broad Homes (4 companies)
3	BROAD Group (Broad Air Conditioner)
4	Hunan KingLv Environmental Protection Co.,Ltd.
5	Lameizi Food Limited Company
6	Hunan Probio Environmental Co., Ltd.
7	Hunan Greenstar Intelligenge Control System Co., Ltd
8	Changsha Greenstar Environment Protection Technology Co.,Ltd
9	Shaanxi Gokang Photoelectric Technology Co., Ltd
10	Shaanxi Kaistar Electronic & Sci-Technology Co.Ltd
11	Shaanxi Xintong Intelligent Technology Co., Ltd
12	Shaanxi Zhongke Trenchless Technology Co., Ltd
13	Xi'an Hangang Chemical Co., Ltd.
14	Xi 'an Holiday Software co., LTD
15	Xi'an Weikeduo Electrical & Mechanical Equipment Co., Ltd.
16	Shaanxi eversafe era real estate Co. Ltd
17	SUNNY SCIENCE&TECHNOLOGY CO.,LTD
18	China National Heavy Machinery Research Institute Co., Ltd.
19	Adot Lighting Co., Ltd
20	Liang Tai Insulation Decortion Material Co.ltd
21	Chengdu Maesinfo Co Ltd
22	Sichuan Senpu Pipe Co., Ltd.
23	Sichuan Sino-Jungle Information Technology Ltd Co
24	Sichuan XinRong Industry and Trade Co., Ltd.
25	Chengdu Maipu International Infotech Co., Ltd.
26	Sichuan Kaihong Water Conservancy Machinery Co., Ltd.
27	Chengdu Spaceon Eletronics Co., Ltd.
28	Chengdu Maisi Chuangzhi Technology Co., Ltd.
29	Poly Solar Technologies (Beijing) Co., Ltd.
30	GUANGDONG ANJUBAODIGITAL TECHNOLOGY CO.,LTD
31	ARCH-AGE DESIGN CO., LTD
32	ET INTERNTIONAL LOGISTICS CO.LTD
33	HikVision
34	Aostar Information Technologies Co., LTD

PP Chaudhary, Minister of State, Ministry of Electronics and Information Technology, GoI at Xylem's stall.

EVENT REPORT

Exhibitor's feedback

Thanks ICEC for providing this platform to showcase our products. This is the first time for us to participate such exposition. We have learned so much through this and we find there is huge potential market in India. We hope there will be more such kind of exposition, which must bring big business opportunities for us.
- *Xi'an Weikeduo Electrical & Mechanical Equipment Co., Ltd.*

Thanks ICEC and all workers for careful arrangement. It is a good chance for us to introduce our products and explore India market. Hope there will be such exposition next year. Smart city construction will be more popular in the future. Infrastructure is very important for it. Building design is important for housing infrastructure as well. Also, I would like to give some advice. Prepare table with lock in order that exhibitors can put precious products which are very difficult to take away during exposition; prepare sockets - Chinese standard for Chinese exhibitors; Leave enough time to prepare venue and leave more time for exhibitors to set up.
- *ARCH-AGE DESIGN CO., LTD*

There were not many exhibitors, and most of them are micro & small enterprises. ICEC should find more big and famous companies. Sessions were good, participants can meet many government officials and learn about real time business opportunities.
- *Hikvision*

Officials from HikVision explain their advanced security technology to PP Chaudhary, Minister of State, Ministry of Electronics and Information Technology, GoI.

Philips Lighting representatives explaining Smart Lighting to dignitaries.

provider for smart community, township, industrial park solution, smart home solution and smart city car park solution. What's more, Arch-Age Design Co., Ltd an exhibitor participated in the expo specialises in real-estate development and delivers professional and innovative architecture and consultancy service inclusive of planning, structure, ME and engineering practice.

Now, with the government of India puts emphasis on the use of advance technologies in its development agenda be it infrastructure, modernising industry or urbanization, China can play a vital role in providing these technologies. This can be evident from with latest surveillance exhibited by HikVision. The company

specializes in video surveillance technology, as well as designing and manufacturing a full-line of innovative CCTV and video surveillance products. The product line ranges from cameras and DVRs to video management software.

Since the local governments, infra institutions and Indian industry always look towards west for acquiring modern technology and equipment, the recent visit of Chinese delegation to Jabalpur says it all. In addition, states like Andhra Pradesh, Gujarat and Jharkhand presented investment opportunities for Chinese investment.

It was undoubtedly an enriching summit filled with power-packed sessions, discussions and a platform for universal networking.

The event was sponsored by HIKVISION (Title Sponsor); Philips (Smart Lamp-Post Partner); XYLEM and UltraTech Cement (Gold Sponsor); Hewlett Packard Enterprise (Digital Transformation Partner); Tata Projects (Bronze Sponsor); and CISCO (Technology Partner).