

## 'SMART CITY SOLUTIONS WORKSHOP - GLOBAL APPROACH LOCAL SOLUTIONS'

May 9<sup>th</sup>, 2017

Hotel Shangri la, New Delhi  
Post Event Report

**Smart City Solutions Workshop – Global Approach Local Solutions** was organized by Fraunhofer, funded by Federal Ministry of Education and Research (BMBF), in association with Ministry of Urban Development (MoUD), Government of India, the National Institute of Urban Affairs (NIUA), Government of India and with the support of the Embassy of the Federal Republic of Germany.

This workshop corroborated the objective of sharing the best practices of the “Morgenstadt Initiative (Future Cities Initiative)” which is funded by the Federal Ministry of Education and Research and implemented by a Consortium of more than 40 partners from Industry, NGO, Government, and research institutions. This consortium is coordinated by Fraunhofer and has already several Smart City Labs and initiatives across Europe.

This workshop set the platform for understanding the issues and challenges related to Smart Cities and showcased Fraunhofer’s expertise in designing Smart City Solutions and models for India. Seven Fraunhofer experts from various Fraunhofer institutes participated and presented technology solutions which can aid the Indian cities to manage their assets effectively by improving the efficiency of services through a better and an interoperable infrastructure. This workshop also accentuated the fundamental and conjunctive role of the Government of India along with the respective State Governments, industry and research institutions to lay down an urban development vision for a creation of a robust system through the use of urban informatics.

The preparation of this workshop was initiated in August 2016 by Fraunhofer IAO and Fraunhofer Office India by applying to a Call for Proposals by BMBF under the title “Internationalization of Morgenstadt Initiative”. Under this project by Fraunhofer, India and Vietnam are the target countries. Fraunhofer IAO coordinated the participation of 10 consortium members from Europe to share Best Practices in India. In February 2017, the preparations for the workshop in India began in full earnest. To target the decision makers and policy implementers of Smart City models, a deliberated database of Principal Secretaries of the Urban Development Department of various states, Municipal Commissioners, Special Purpose Vehicle (SPV) CEOs, Technical Directors and Chief Engineers of nearly 60 cities (selected under Smart Cities Mission) was created and invitation mailers along with the agenda were sent to the above mentioned state / city representatives in support with MoUD and NIUA. Along with the Government representatives, Bosch and Siemens also participated in the workshop representing the Smart City Solution providers from Indian industry.

## Participating States / Cities and Participants Profiles

Decision makers representing 30 cities from 13 states marked their presence in this workshop. (refer Table 1.0)

Sr No.	States	Cities
1	Andhra Pradesh	Kakinada, Vishakapatnam
2	Chattisgarh	Raipur
3	Delhi	Delhi
4	Haryana	Gurugram, Faridabad, Panchkula
5	Karnataka	Mangaluru, Davangere, Tumakuru, Belagavi, Shivamogga, Hubballi-Dharwad
6	Kerala	Kochi
7	Madhya Pradesh	Indore
8	Maharashtra	Pune, Thane, Kalyan-Dombivali, Solapur
9	Punjab	Amritsar, Jalandhar, Ludhiana
10	Rajasthan	Jaipur, Updaipur, Ajmer, Kota
11	Sikkim	Namchi
12	Tamil Nadu	Chennai, Coimbatore
13	Uttar Pradesh	Kanpur

Table 1.0

The following chart (refer Chart 1.0) shows the profiles of the participants from each of the above states / cities.

### Participants' Profiles (including Indian speakers)

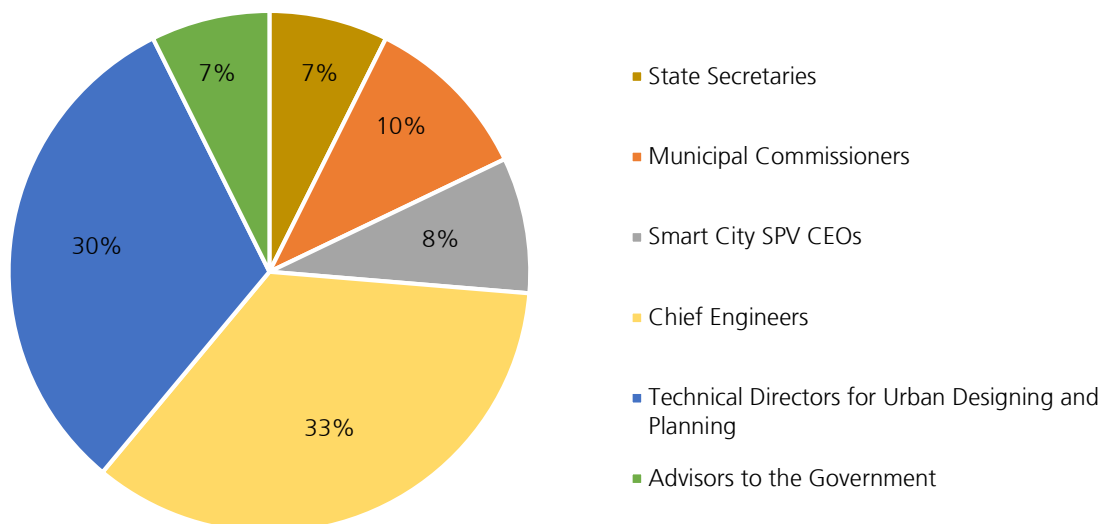


Chart 1.0

## Inaugural Plenary Session

This session witnessed the participation of esteemed dignitaries and Industry experts from India and Europe.

**Ms. Anandi Iyer**, Director, Fraunhofer Office India evoked the session by welcoming the participants followed by a welcome address by **Shri. Jagan Shah**, Director, NIUA. **H.E. Dr. Jasper Wieck**, Deputy Chief of Missions, Embassy of the Federal Republic of Germany in India delivered the inaugural address. **Shri. Anupam Mishra**, Economic Advisor to MoUD delivered the keynote address. **Mr. Damian Wagner**, Senior Project Manager, Fraunhofer IAO posited the context of this workshop by presenting the Best Practices-European Smart Cities.



**Image 1:** L to R: H.E. Dr. Jasper Wieck, Deputy Chief of Mission (DCM), German Embassy, Ms. Anandi Iyer, Director, Fraunhofer Office India, Mr. Jagan Shah, Director, National Institute of Urban Affairs, Shri. Anupam Mishra, Economic Advisor, Ministry of Urban Development, Mr. Damian Wagner, Senior Project Manager-Smart Cities at Fraunhofer Institute for Industrial Engineering IAO, Germany

**Image 2:** Lamp Lighting session



## Three Technical Sessions

An intensive research and consultation with MoUD was conducted prior to this workshop. Based on the entailments of these exercises, the following five fundamental areas were identified in alignment with the Indian Smart Cities' requirements.

1. Energy
2. Water
3. Mobility
4. ICT
5. Smart Governance and Management System

The above five areas were categorized into three technical sessions

Session 1: Smart Energy & Water

Session 2: Smart Mobility & ICT

Session 3: Smart Governance & Management System

and each technical session was followed by an interactive 45 mins Q&A session.

### Session 1: Smart Energy & Water

This session was chaired by **Mr. Petr Suska**, Senior Project Manager, Fraunhofer IAO. This session had five presentations. The names of speakers and their titles are listed in Table 1.1

Name of the Speaker	Title of the Presentation
Mr. Petr Suska	Financing Models for Indian Smart Cities
Mr. Gerhard Stryi-Hipp, Head of Energy policy and Group Leader – Smart Cities, Fraunhofer ISE	Sustainable Energy Systems for Smart Cities
Mr. Ralf Opierszynski, Head of International Competence Centre, Fraunhofer IFF	Virtual Reality platform to support integrated design of energy and spatial concepts
Mr. Deepak Goray, General Manager, Head-City Account Management, South Asia	Energy and Buildings
Dr. Marius Mohr, Head of Group Water Technologies, Fraunhofer IGB	Innovative Technology in Water Management

Table 1.1



**Image 3: Session 1: Smart Energy & Water**  
 L to R: Mr. Ralf Opierszynski, Fraunhofer IFF, Germany, Mr. Petr Suska, Fraunhofer IAO, Mr. Gerhard Stryi-Hipp, Fraunhofer ISE, Germany, Mr. Deepak Goray, Siemens India Session Coordinator: Mr. Damian Wagner, Fraunhofer IAO.

The feedback of each presentation of this session is shown in Chart 1.1 on a scale of 1 to 5; 5 being the highest and 1 being the lowest

### Presentation Titles and the Scale of Appreciation (from 1 to 5)

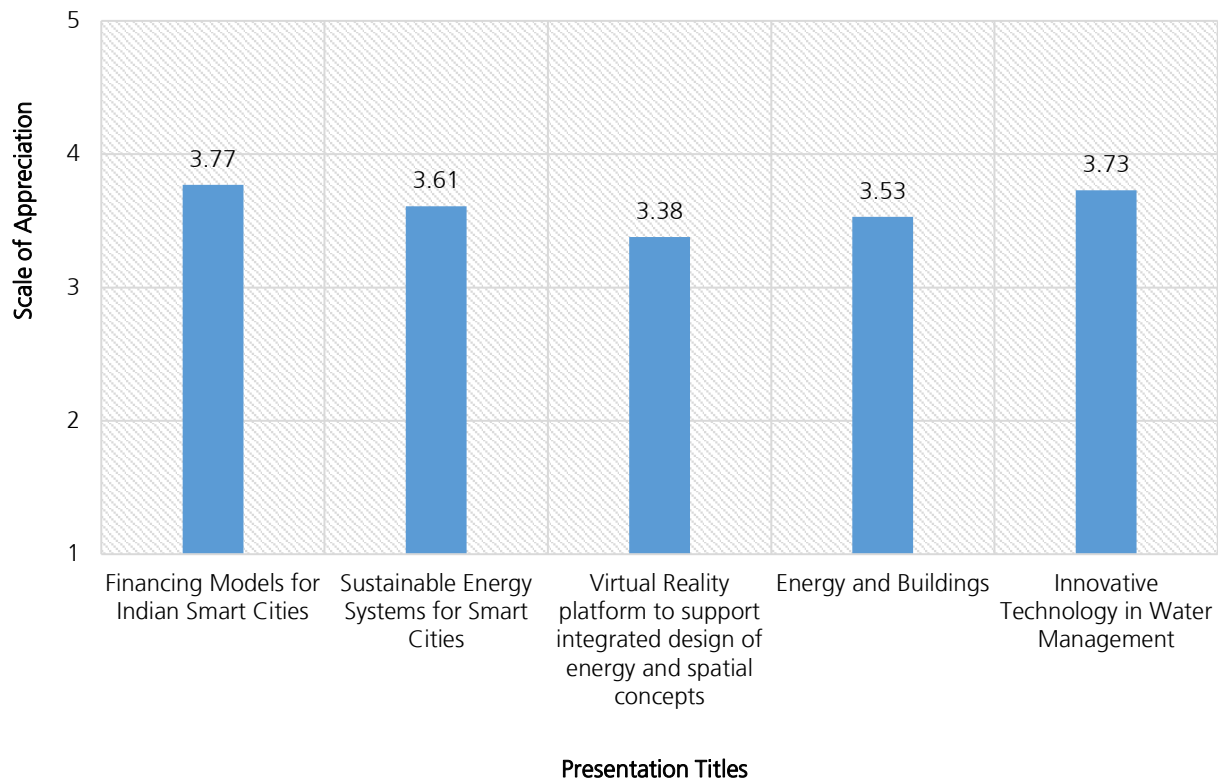


Chart 1.1

The following queries which were raised by the participants were pinned and discussed at length during the Q&A session.

- Financing Models: Data Monetization and how to negotiate the issue of confidentiality ?
- How to connect the technologies to Indian context ?
- Waste Water Recycling
- Misuse of Water, Automatic Water Management Solutions and Smart Water Metres
- How to make Fraunhofer Technologies in water more feasible and selection of appropriate technologies
- Solar Roof top systems and implementation
- Energy Storage at city level



## Session 2: Smart Mobility & ICT

This session was chaired by **Ms. Anandi Iyer**, Director, Fraunhofer Office India. This session had three presentations. The names of speakers and their titles are listed in Table 1.2

Name of the Speaker	Title of the Presentation
Mr. Wolfgang Inninger, Head of Project Center Prien, Fraunhofer IML	Smart Urban Mobility - Public Transport & Intelligent Parking
Mr. Dhiraj Wali, Vice President, Bosch	Urban Mobility
Dr. Florian Schreiner, Deputy Director, Business Unit - Software Based Networks (NGNI), Fraunhofer FOKUS	Industrial IoT& Open data platform for Smart Cities

Table 1.2



**Image 4: Session 2: Smart Mobility & ICT**  
L to R: Session Coordinator : Ms. Anandi Iyer, Director Fraunhofer Office India, Mr. Wolfgang Inninger, Fraunhofer IML, Germany, Mr. Dhiraj Wali, Bosch India, Mr. Petr Suska, IAT, University of Stuttgart, Mr. Damian Wagner, Fraunhofer IAO.

The feedback of each presentation of this session is shown in Chart 1.2 on a scale of 1 to 5; 5 being the highest and 1 being the lowest.

### Presentation Titles and the Scale of Appreciation (from 1 to 5)

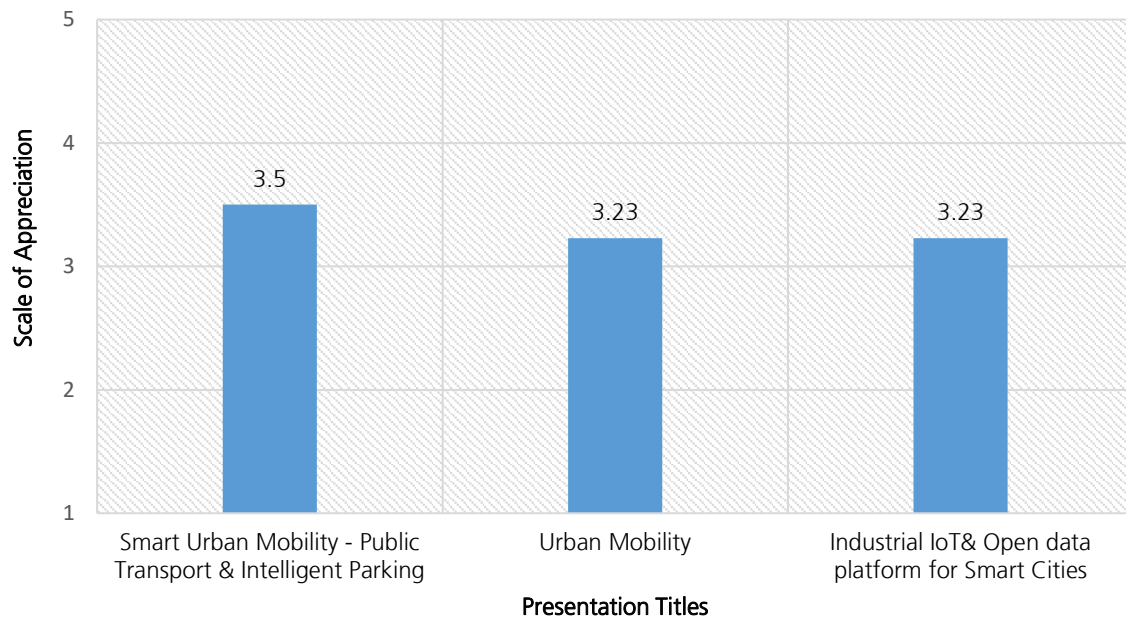


Chart 1.2

The following queries which were raised by the participants were pinned and discussed at length during the Q&A session.

- Setting up of protocols and their standardization for Industrial IoT and Smart Cities
- Mobility : Can shortlisting of vendors be done as per the tender evaluation?
- Mobility : Modalities for standardizing tenders
- Mobility : Cost value evaluation of tenders
- How to develop RFQ for Fraunhofer technologies ?
- Smart Roads – How to overcome the obstacles like temples, poles etc ?
- SWISS Challenge – open approach
- India as a prospect for setting up of test beds for open data platform and communication

### Session 3: Smart Governance & Management System

This session was chaired by **Mr. Damian Wagner**. This session had three presentations. The names of speakers and their titles are listed in Table 1.3

Name of the Speaker	Title of the Presentation
Mr. Petr Suska, Senior project Manager, Fraunhofer IAO	Smart City Lab and Urban transition
Mr. Martin Strobel, Vice Director, Malik Management Centre, Switzerland	Stakeholder Participation in Smart Cities

Ms. Cathrin Krumrey, Architect, SBA Architects Germany	Concepts for Open & Innovative Spaces, Place making
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Table 1.3



**Image 5: Session 3: Smart Governance & Management System**  
 L to R: Ms. Cathrin Krumrey, SBA Architects, Mr. Martin Strobel, Malik Management Centre, Switzerland, Session Coordinator: Mr. Damian Wagner, Fraunhofer IA0

The feedback of each presentation of this session is shown in Chart 1.3 on a scale of 1 to 5; 5 being the highest and 1 being the lowest.

**Presentation Titles and the Scale of Appreciation (from 1 to 5)**

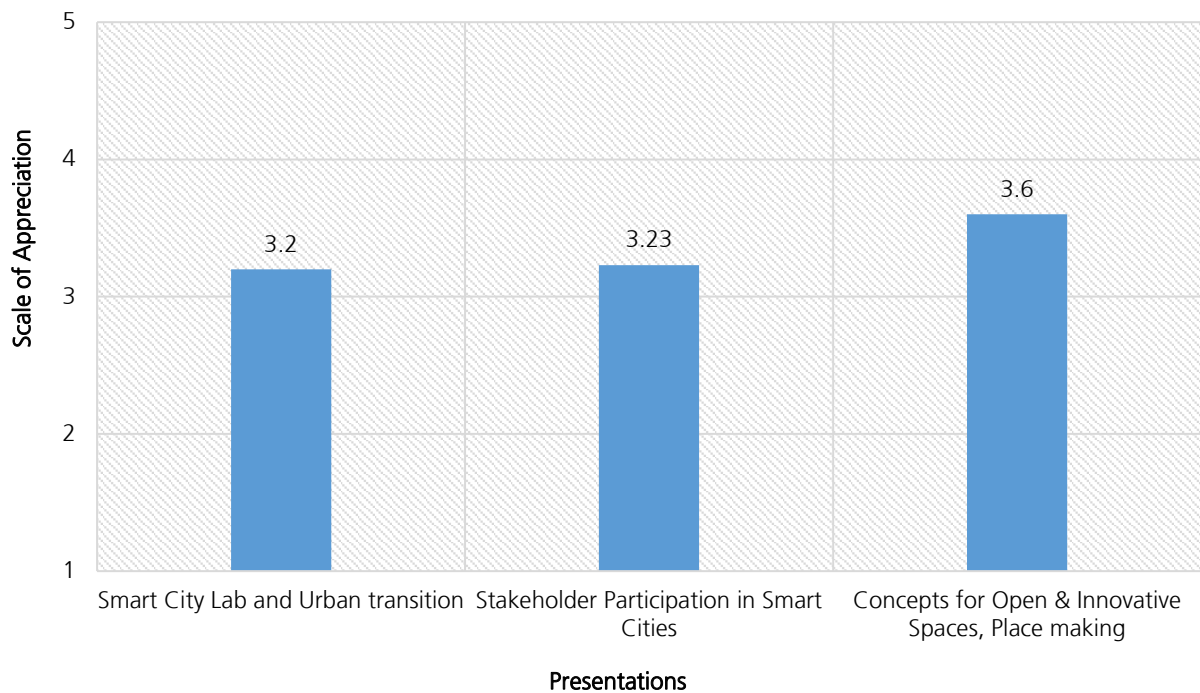


Chart 1.3



The following queries which were raised by the participants were pinned and discussed at length during the Q&A session.

- Method of participation in Smart City Lab. Will the social issues be solved after participation ? And methodologies for Urban Planning
- Need for change in the Municipal norms
- How to manage the conflicts among participating stakeholders
- How to get investors
- Utilization of open spaces and solution for congested areas



**Image 6:** The Interactive Q&A session after each technical session

## Concluding Session

**Shri. Amitabh Kant**, CEO, NITI Aayog (National Institution for Transforming India), Government of India was the Guest of Honour for the concluding session. He extrapolated on the queries which were raised by the participants during the Q&A session. He also laid down his inferences for subsequent developments in India through formation of SPVs for all the Smart City solutions pertaining to India and prognosticated the role of India-Fraunhofer cooperation for a paradigm shift in transforming India into an economically and technologically progressive nation which will consequentially lead to a better quality of life for the Indian citizens. He applauded the organizers and urged for more such interactions to be held across India and extended his support for the same.



**Image 7:** Closing session with Shri. Amitabh Kant, CEO, NITI Aayog.

**Image 8:** The German Delegation with Shri. Amitabh Kant.



**Image 9 and 10:** Networking



## Exclusive Networking Dinner

An Exclusive Networking Dinner was organized which provided ample opportunity for the participants to discuss and deliberate with the Fraunhofer experts in addition to their presentations during the technical sessions in the workshop.

## Participants' Feedback

Overall, the workshop received a very positive feedback from the participants. They were requested to provide their comments as shown in the Chart 1.4. Nearly 46% of the participants found the event very useful, 23% of them said it was useful and 31% said it was somewhat useful.

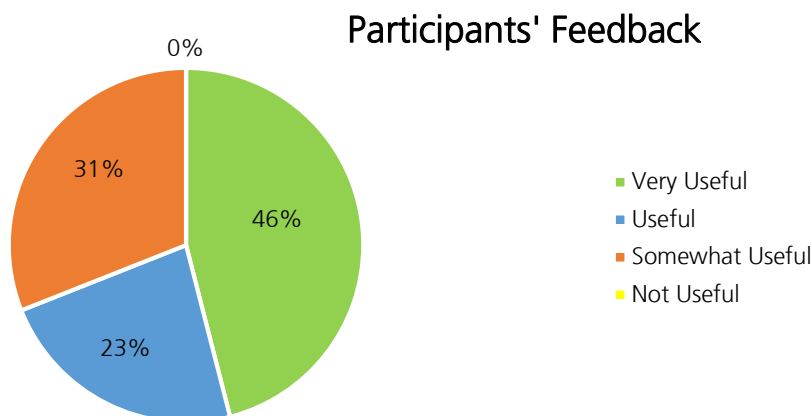


Chart 1.4

Several Fraunhofer technologies were also at display in the form of roll ups. Literature tables displayed participating Institutes' flyers and Conference docket consisted of the agenda, speakers' profiles, presentation abstracts, relevant Fraunhofer brochures and feedback forms. The presentations of the speakers were digitized and shared with the participants. The participants were also asked to mention any specific Fraunhofer institute or technology in which they are interested.



Image 11 and 12: Fraunhofer Technologies at display

Following are some of the areas of interest mentioned by the participants in the feedback forms which highlights the possibilities of collaboration with Fraunhofer institutes in future

- Inland Water Transport, Smart Parking  
- Thane Municipal Corporation
- Technologies to lay underground utilities such as optical fibre communication system and CNG pipelines.  
- Jalandhar Municipal Corporation
- Automated Multi-level car parking with real time occupancy mode on mobile applications.  
- Amritsar Smart City Lab
- Collaboration with Fraunhofer IAO  
- Urban Development Department, Govt. of Sikkim
- Settin up of Network Operation Centre (NOC), Direct Connect Network( DC) and Command and Communication Centre (CCC)  
- Kakinada Smart City Corporation Ltd.
- Smart Water Mangement, Automatic Water Reading solutions, wireless remote reading digital water metre for residential and commercial buildings.  
Technology for processing and safe disposal of municipal solid waste.  
- Coimbatore Municipal Corporation
- Energy efficiency, Water Mangement, Intelligent and Smart Transportation & Parking Solutions, Solid Waste management solutions and Sewerage management.  
- Ludhiana Smart City Ltd.

#### **Some Voices from the workshop:**

- This was an excellent exposure for us, and for the first time we had the oportunity to come out of our cocoon and interact with other practitioners from around the world. Similar Workshops should be conducted at Smart Cities level with solution to Smart City real time problem. Frequent trainings should be arranged for the Smart City officials for better end solutions.  
- Amritsar Smart City Lab
- It would be useful to see Indian executions of some of the solutions. Customization of the technology to Indian context and ground realities (legal systems and administrative setups).  
- Ludhiana Smart City Ltd.
- It is suggested to conduct more capacity building training programme for the municipal officials of various levels.  
To organize overseas study tour to understand best practices for Smart Cities.  
- Coimbatore Municipal Corporation

- Case studies and lessons learned could be shared with different cities for global exposure.
  - Kakinada Smart City Corporation Ltd.
- It is mandatory to include the Indian context. It is suggested to cover electro mobility and other modes of transport which are both energy and space efficient. The workshop should be more citizen centric as the citizens are the receivers of civic services and pricing of such services should be covered.
  - Government of Tamil Nadu
- To conduct a similar workshop in north-eastern states of India to enrich Smart City Governance and urban professionalism.
  - Urban Development Department, Government of Sikkim
- This type of workshop should be held at the State level or the Urban Local Body level. It will enhance the sharing of ideas and innovations with the citizens, NGOs, politicians and stakeholders of the city.
  - Jalandhar Municipal Corporation
- Workshop duration must be increased to 3 days
  - Tumakuru Smart City Ltd.
- This workshop provided a great platform for the industry to interact with the states' / cities' representatives. The content was well conceptualized as it encapsulated the Smart City technologies which are the need of an hour for Indian market and also promoted the vital role of Govt. of India, research institutions and Indian Industry to jointly work together to devise Smart Solutions for the cities in India.
  - Bosch and Siemens

### **Next Steps: Post Event**

This workshop resulted in discussions for possible collaborations

- On May 9<sup>th</sup>, Fraunhofer IAO initiated talks with Kochi Smart City Ltd. for setting up a Smart City Innovation Lab in Kochi, Kerala. Action were discussed on May 18<sup>th</sup> via a video conference with Mr. Elias George, MD, Kochi Smart Cities Ltd.
- On May 9<sup>th</sup>, Fraunhofer and City of Coimbatore held discussions on the proposed MoU with Coimbatore and identified the next steps, with a view to catalyze the signing of MoU between city of Coimbatore and Fraunhofer IAO. Coimbatore City Corporation has ratified the proposal submitted by Fraunhofer IAO to set up a Fraunhofer Smart City Lab in Coimbatore. MoU will be signed shortly.
- Debriefing meetings were held on May 10<sup>th</sup> with National Institute of Urban Affairs to discuss next steps and possible cooperation.
- Debriefing discussions were held with Dr. Stephan Lanzinger, Counsellor and Head of Science and Technology section, German Embassy to apprise him of the results of the workshop and discuss the next steps including support from BMBF.

- Meeting was held with KfW and GiZ officials to explore collaboration and exchange of information.
- A meeting was held between Ms. Anandi Iyer, Director, Fraunhofer Office India and Mr. Dhiraj Wali, VP, Bosch on May 18<sup>th</sup> to discuss the support to German Industry in India to acquire Smart City projects.
- Meeting of Ms. Anandi Iyer with H.E. Dr. Martin Ney, Ambassador of Germany to India is scheduled for May 19<sup>th</sup> to debrief him and discuss the next steps.

The workshop also received a few media attention



## The Indo-German Smart City Solutions Workshop – GLOBAL APPROACH LOCAL SOLUTIONS INDIA



Delhi: Fraunhofer in association with the Federal Ministry of Education and Research Germany, Ministry of Urban Development, Government of India, and National Institute of Urban Affairs and organised a Indo-German Smart City Solutions Workshop on 9th May in New Delhi. The workshop was organised as a part of the Indo German cooperation on Smart Cities and Urban Infrastructure which has committed support to Kochi, Coimbatore, and Bhubaneswar.

Participation at the Smart city solutions workshop included Government representatives from more than 31 Indian States, senior policy makers and bureaucrats who are major

stakeholders and decision makers in the implementation of various Government initiated Smart City projects in India.

The workshop also witnessed the participation of experts and dignitaries such as Dr. Jasper Wieck, Deputy Chief of Mission (DCM) German Embassy New Delhi. Shri. Anupam Mishra, Economic Advisor, Ministry of Urban Development, Government of India., and Mr Jagan Shah, Director, National Institute of Urban Affairs. Mr. Ambitabh Kant, CEO Niti Aayog delivered the keynote speech at the closing session of the workshop and responded to the suggestions and outcomes of the deliberations.



**NEWS**

Published on May 13, 2017 — [Leave a comment](#)

## Dr Jasper Wieck speaks at Fraunhofer Workshop on Smart Cities



*Dr Jasper Wieck speaks at Fraunhofer Workshop on Smart Cities*

Fraunhofer Society, with the support of the German Ministry of Education and Research, Indian Ministry of Urban Development and National Institute of Urban Affairs organised a Smart City Solution workshop on the theme “Building the city of tomorrow” at New Delhi. Dr Jasper Wieck, Chargé d’ Affaires gave the welcome address.

“India and Germany are strategic partners. Germany has a lot to offer when it comes to creating smart and thriving cities. Building the cities of tomorrow is an enormous global challenge that India and Germany will tackle jointly. An Indo-German Working Group on Urbanization has been formed. Within India’s Smart Cities Mission, Germany is lending support to 3 Indian cities: Bhubaneshwar, Kochi and Coimbatore”.

Among the participants of the workshop were experts from Germany and representatives of German companies as well as decision makers from India, including heads of the smart city units from the States. The workshop also included sessions on topics like Smart Water Management, Financing Models for Indian Smart Cities, Sustainable Energy Systems for Smart Cities, Mobility and Stakeholder Participation amongst others. The lectures were followed by interactive Q&A sessions. Mr. Amitabh Kant, CEO Niti Aayog, gave a speech at the closing session of the workshop.


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### The Indo-German Smart City Solutions Workshop – GLOBAL APPROACH LOCAL SOLUTIONS INDIA

**More than 50 decisionmakers from nearly 30 smart cities participate in the Smart city solutions workshop and draw out concrete ideas for improving infrastructure and services.**

Fraunhofer in association with the Federal Ministry of Education and Research Germany, Ministry of Urban Development, Government of India, and National Institute of Urban Affairs and organised a Indo-German Smart City Solutions Workshop on 9th May in New Delhi. The workshop was organised as a part of the Indo German cooperation on Smart Cities and Urban Infrastructure which has committed support to Kochi, Coimbatore, and Bhubaneshwar.