# Seconded European Standardisation Expert in India – Phase V - 101123236

## Conference Report

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# CONFERENCE REPORT

## COVER PAGE

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4th
Indo-European Conference
on Standards & Emerging Technologies
7th December 2023 | The LaLiT, New Delhi, India

Connectivity in
Smart Cities
Circular Economy

Data Privacy
&
Cybersecurity

# CONFERENCE REPORT

## *4th Indo-European Conference on standards & Emerging Technologies*

# Glossary

| S. No. | Acronym | Expansion |
|---|---|---|
| 1 | 3GPP | 3rd Generation Partnership Project |
| 2 | 5G | Fifth Generation |
| 3 | AI | Artificial intelligence |
| 4 | ANSI | American National Standards Institute |
| 5 | ASSOCHAM | Associated Chambers of Commerce and Industry of India |
| 6 | BIF | Broadband India Forum |
| 7 | BIS | Bureau of Indian Standards |
| 8 | CAGR | Compound annual growth rate |
| 9 | C-DoT | Centre for Development of Telematics |
| 10 | CEA | Central Electricity Authority (India) |
| 11 | CEN | European Committee for Standardization |
| 12 | CENELEC | European Committee for Electro-technical Standardization |
| 13 | CII | Confederation of Indian Industry |
| 14 | COAI | Cellular Operators Associations of India |
| 15 | CPRI | Central Power Research Institute |
| 16 | DG | Directorate-General |
| 17 | DoT | Department of Telecommunications |
| 18 | EBG | European Business Group |
| 19 | EBTC | European Business Technology and Research Centre |
| 20 | EC | European Commission |
| 21 | EFTA | European Free Trade Association |
| 22 | ETSI | European Telecommunications Standards Institute |
| 23 | EU | European Union |
| 24 | EVs | Electric Vehicles |
| 25 | FAME | Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles |
| 26 | FDI | Foreign direct investment |
| 27 | FICCI | Federation of Indian Chambers of Commerce and Industry |
| 28 | FTAs | Free-trade agreements |
| 29 | GDP | Gross domestic product |
| 30 | GoI | Government of India |
| 31 | GST | Goods and Services Tax |
| 32 | ICT | Information and Communications Technologies |
| 33 | IEC | International Electrotechnical Commission |
| 34 | IEEE | Institute of Electrical and Electronics Engineers |

| | | |
|---|---|---|
| 35 | IoT | Internet of things |
| 36 | IPR | Intellectual Property Rights |
| 37 | ISGF | India Smart Grid Forum |
| 38 | ISO | International Organization for Standardization |
| 39 | ITS | intelligent transportation system |
| 40 | ITU | International Telecommunication Union |
| 41 | LITD | Electronics and Information Technology Division Council |
| 42 | M2M | Machine to Machine |
| 43 | MEITY | Ministry of Electronics and Information Technology |
| 44 | MNRE | Ministry of New and Renewable Energy |
| 45 | MoHUA | Ministry of Housing & Urban Affairs |
| 46 | MoP | Ministry of Power |
| 47 | MoU | Memorandum of understanding |
| 48 | MOUD | Ministry of Urban Development |
| 49 | NCIIPC | National Critical Information Infrastructure Protection Centre |
| 50 | NFV | Network functions virtualization |
| 51 | NSGM | National Smart Grid Mission |
| 52 | OEMs | Original equipment manufacturer |
| 53 | R&D | Research and Development |
| 54 | SDN | Software-defined networking |
| 55 | SDOs | Standards Developing Organizations |
| 56 | SESEI | Seconded European Standardization Expert in India |
| 57 | SGAM | Smart Grid Architecture Modeling |
| 58 | SMEs | Small and medium enterprises |
| 59 | TBT | Technical Barriers to Trade |
| 60 | TEC | Telecom Engineering Centre |
| 61 | TSDSI | Telecommunications Standards Development Society, India |
| 62 | UNECE | United Nations Economic Commission for Europe |
| 63 | WTO | World Trade Organization |

# 1. Conference Summary

The SESEI (Seconded European Standardization Expert in India) is a project co-funded by five European partners (EC, EFTA, CEN, CENELEC & ETSI), and is operating from New Delhi, India since 2013, with an objective to increase the visibility of European Standardization System in India and promote EU/EFTA -India cooperation around standards and related policies around emerging technologies with priority areas as:

- **Digitization:** Smart Cities/Urban Development, ITS, Services, High Performance Computing (HPC), Quantum Technologies, Smart Grid/Meter, Consumer Electronics, digital connectivity, Artificial Intelligence, 5G/6G, Open RAN, M2M/IoT (Cyber-Physical Systems), DECT, Data Privacy, Satellite Communication, Digital India, e-Health, Blockchain, Digital Services, Digital Signature, Smart Manufacturing, e-Accessibility, semiconductors, cloud systems, cybersecurity, digital skills, digital platforms including Research and Innovation etc.

- **Green & Clean technologies:** Clean Energy, Energy Efficiency (Green ICT), Environment, Circular Economy including Resource Efficiency, Waste Management, Material Efficiency, Weather Extremes & Climate Modelling, Sustainability (SDGs), Energy storage technologies, Next generation solar cell, Electric mobility; Emission, Green Hydrogen, Advanced biofuels including Research and Innovation etc.

The SESEI project has been engaging with the stakeholders around these priority sectors by attending and organizing various workshops and conferences to understand the market dynamics, challenges and opportunities and bring experts from both Europe and India to share their respective perspectives and identify areas of collaboration and co-operation for harmonization of standards. In view of the resounding success and positive feedback from its first three major conferences held in India, SESEI expert during its Phase-V organized its **4th edition of the "Indo-European conference on Standards & Emerging Technologies", on 7th December 2023 at Hotel, The Lalit, New Delhi. The main aim of the conference** was to delve further into topics of mutual interest and come out with "**Actionable Insights"** through immersive deliberations amongst the stakeholders and forge stronger partnership & develop strategies to proliferate identified Standards, Policies and Regulations.

The Conference "**4th edition of the "Indo-European conference on Standards & Emerging Technologies "was** brought together by the European Standards Organizations (CEN, CENELEC, ETSI) along with European Commission (EC) and European Free Trade Association (EFTA) in the framework of its Project SESEI (Seconded European Standardization Expert in India) and in association with the Bharat Exhibitions (BE). The objective of the conference was to bring together high-level representatives, technical experts from the EU community as well as Indian stakeholders with a view to share and learn from each other, further strengthening the ongoing dialogue in the realm of Policy, standardization around topics of emerging technologies covering Digitization, Green & Clean Energy etc.

The **4th Indo – European Conference on Standards & Emerging Technologies** was a conscious effort to further strengthen the existing dialogue in key standardization areas by sharing European updates and hearing Indian perspective, their specific requirements and specifications which will help bridging the two regions even more and create a true long-lasting Indo-European dialogue and relationship. This conference presented another opportunity to provide stakeholders with an update of present and future standardization activities and triggered dialogue between European and Indian stakeholders for assessing potential standardization gaps which can be bridged and where new avenues for collaboration can be established.
The topics identified for this conference were in line with key ongoing technology trends and policy

needs for both India and Europe. The 4th Indo-European Conference focused on the following three topics:

- **Circular Economy (e-Waste, Plastics)**
- **Connectivity in Smart Cities (Digital, Energy & Transport)**
- **Data Privacy & Cyber Security**

Prior to the conference, a study report focused on these three topics was presented and released to provide an overview of latest developments, current state of play covering Standards development & Policy Initiatives in EU/EFTA and INDIA, the gaps and technological challenges in India limiting the market potential, adoption of technologies and the areas of further collaboration between EU and India. The entire proceedings of the conference were built around the study report and its findings.

With this study report and through further deliberation at the "4th Indo-European Conference on Standards & Emerging Technologies", the SESEI project aimed to determine a list of actions as a way forward which should further enable the stakeholders in India and Europe in achieving desired objectives. This will further strengthen the cooperation and collaboration between EU/EFTA and India in contributing to reduce Technical Barriers to Trade (TBT) and facilitate trade.

The conference concluded with detailed findings as determined through session deliberations and study reports covering gaps and challenges and way forward including recommendations. The conference was a resounding success and received an overwhelming response with the participation of around 300 delegates and more than 55 international and national speakers.

## 2. Detailed Agenda

The detailed agenda as below, was structured to provide equal emphasis towards all three topics as identified for the conference with an objective to reach a list of actionable items, which shall become the basis of the activity roadmap for both European and Indian stakeholders to work together, collaborate and cooperate.

The conference began with the plenary session consisting of keynote addresses by the leaders and experts from the key stakeholder organizations both from India & Europe. Plenary session was followed with a release and presentation of study report on conference topics as below:

- **Circular economy (e-waste, plastics)**
- **Connectivity in smart cities (digital, energy & transport)**
- **Data privacy & cyber security**

The study report covers latest developments, current state of play covering Standards development & Policy Initiatives in EU/EFTA and INDIA, the gaps and technological challenges in India limiting the market potential, adoption of technologies and the areas of further collaboration between EU and India.

Post release of study report, three parallel sessions were held on each of the conference topics i.e Circular economy (e-waste, plastics), Connectivity in smart cities (digital, energy & transport) and Data privacy & cyber security. Each parallel session was further divided into two sessions as below:

- First session was dedicated with presentations from both European & Indian experts sharing state of play and different aspects of each topics covering policy, legislation and standardisation and providing a comprehensive insight into the Indian & European perspective on each of these conference topics

- Second session was dedicated for a panel discussion with Indian Expert as a moderator and panellist comprise of Indian and European experts to discuss and validate the Gaps & challenges as identified through the study report and together determine the actionable insights & inputs for the recommendations and way forward for collaboration and co-operation between Europe & India.

**For copy of presentations please click here and for Picture Gallery please click here**

| **Agenda: Speakers** | |
|---|---|
| **Plenary Session: Vision and Mission for the EU – India Strategic Partnership** | |
| IST=> 0900 – 1000 Hrs / CET=> 0430 – 0530 Hrs | **Registration & Tea/Coffee** |
| IST=> 10:00 – 11:00 Hrs / CET=> 05:30 – 06:30 Hrs | **Session Moderator**: Mr. Dinesh Chand Sharma, Director Standards & Public Policy Project SESEI |
| | **Official Opening of the Conference: Lamp Lighting Ceremony** |
| | **Welcome Address**: Ms. Maive Rute, Deputy Director-General & Chief Standardization Officer, European Commission - DG GROW |
| | **Welcome Address**: Mr. Laurent Le Danois, Team Leader Cooperation Section, Delegation of the European Union to India |
| | - **Release & Presentation on Key Findings and Recommendations from the Study Report by TERI and Combine Ways**. |
| | **Special Address**: Shri. Chandan Bahl, Deputy Director General (IR&TISD, MSC and SCM), Bureau of Indian Standards |
| | **Special Address**: Shri. Vineet Mathur, Jt. Secretary, Ministry of Consumer Affairs |
| | **Keynote Address**: Ms. Gunjan Dave, Member (Technology), DoT |
| | **Vote of Thanks**: Ms. Margot Dor, Director Government Affairs, ETSI |
| | **Presentation of Green Certificates & Photo Ops** |
| IST=> 11:00 – 11:30 Hrs / CET=> 06:30 – 07:00 Hrs | Tea / Coffee Break |
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|---|---|
| IST=> 11:30 - 13:00 Hrs / CET=> 07:00 – 08:30 Hrs | **Director General & Industry Dialogue** |
| | **Session Moderator**: Mr. Dinesh Chand Sharma, Director Standards & Public Policy Project SESEI |
| | **Welcome Address**: Mr. Olivier Peyrat , DG AFNOR, CEN Vice-President Policy |
| | **Welcome Address**: Mr. Luis Jorge Romero Saro, Director General ETSI |
| | **Welcome Address**: Mr Henri Gétaz, Secretary General of EFTA |
| | **Industry Address**: Mr. Vipin Sahni, Executive Director, CII- Institute of Quality |
| | **Industry Address**: Mr. N Mohanram, Director General, TSDSI |
| | **Special Address**: Mr. Girish Sethi, Director TERI |
| | **Industry Address**: Mr. T. V. Ramachandran, President Broadband India Forum |
| | **Special Address**: Mr. R.K. Upadhyay, Chief Executive Officer, CDoT |
| | **Special Address**: Mr. G. Narendra Nath, Joint Secretary NSCS, National Security Council Secretariat |
| | **Vote of Thanks:** Mr. Shashi Dharan, Managing Director Bharat Exhibitions |
| | Presentation of Green Certificates & Photo Ops |
| IST=> 13:00 – 14:00 Hrs / CET=> 08:30 – 09:30 Hrs | Lunch Break |

| | **Parallel Sessions Session 1: Presentations by both EU and Indian sides sharing updates around Policy & Standards** | | |
|---|---|---|---|
| **IST=> 14.00 – 15.30 hrs / CET=> 09:30 – 11:00 Hrs** | **Circular Economy (e-Waste, Plastics)** | **Connectivity in Smart Cities (Digitization, Energy & Transport)** | **Data Privacy & Cyber Security** |
| | **Special Address**: Dr. Sandip Chatterjee, Scientist G & Group Coordinator, Meity<br><br>**Moderator:** Mr. Michael Bucki, Counsellor & Head of Section – Sustainable Modernization, Delegation of the European Union to India<br><br>**Speaker - Physical:**<br>1. Mr. Arun Agarwal, Dy. Director General, DoT, Jammu, J&K, Ministry of Communications<br>2. Dr. Rachna Arora, Team Leader, EU-REI<br>3. Sh. Ajay K. Lal, Head (CHD), BIS<br><br>**Speaker - Virtual:**<br>4. Dr. Aparna Dhawan, Senior Counsellor, CII Institute of Quality<br>5. Mr. Christian Dworak, Chairperson of the European CEN-CENELEC SABE Circular Economy Topic Group<br>6. Mr. Justin Wilkes Executive Director, ECOS | **Special Address**: Mr. Laurent le Danois, Team Leader Cooperation Section, Delegation of the European Union to India<br><br>**Moderator**: Mr. Laurent le Danois, Team Leader Cooperation Section, Delegation of the European Union to India<br><br>**Speaker - Physical:**<br>1. Mr. Sushil Kumar, Additional Director General Telecom, DoT<br>2. Mr. Jagan Shah, Resident Senior Fellow, Artha International<br>3. Mr. Kishore Narang, Narnix Technologies<br><br>**Speaker - Virtual:**<br>4. Prof. Ramesh Loganathan, Co-Innovation & Head Research Outreach, IIIT-Hyderabad<br>5. Mr. Roland Hechwartner, oneM2M<br>6. Mr Christophe Colinet, Chairman, ETSI ATTM SDMC (Sustainable Digital Multiservice for Cities) working group. | **Special Address**: Shri Golok Kumar Simli Principal Advisor and Chief Technology Officer, Ministry of External Affairs<br><br>**Moderator**: Mr. Wim De Kesel, Group Vice-President, Standardization and Regulation, Legrand “CEN-CENELEC”<br><br>**Speaker - Physical:**<br>1. Mr. Ajay Kr Garg, Director & Head (Digital Tech & Law) Anand and Anand Associates<br>2. Dr Debabrata Nayak, Head of Cyber Security Ericsson<br>3. Dr. Sriram Birudavolu, Data Security Council of India<br>4. Mr. Kshitij Bathla, Scientist-C/Deputy Director (LITD), BIS<br>5. Mr. P. K. Singh, DDG Security, DoT<br><br>**Speaker - Virtual:**<br>6. Mr. Lal Chandran, CTO iGrant.io<br>7. Dr. Walter Fumy, Chair CEN-CENELEC JTC 13 Cybersecurity and Data Protection<br>8. Mr. Slawomir Gorniak, Senior Cyber Security Expert, ENISA<br>9. Mr Martin Michelot, Executive Director of TIC Council, Europe |
| IST=> 15:30 – 16:00 Hrs / CET=> | **Tea/Coffee Break** | | |

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|---|---|---|---|
| 11:00 – 11:30 Hrs | | | |
| | **Parallel Session 2 - Panel Discussion for 60 Minutes, discussing the Gaps & Challenges as highlighted in the study report** | | |
| **IST=> 16.00 - 17.00 hrs / CET=> 11:30 – 12:30 Hrs** | **Circular Economy (e-Waste, Plastics)** | **Connectivity in Smart Cities (Digitization, Energy & Transport)** | **Data Privacy & Cyber Security** |
| | **Moderator:** Mr. Souvik Bhattacharjya<br>Associate Director and Sr. Fellow, TERI<br><br>**Panelist - Physical:**<br>1. Dr. Rachna Arora, Team Leader, EU-REI<br>2. Dr. Anjali Taneja, Senior Policy Specialist and Group Head, CSTEP<br>3. Col Suhail Zaidi (Retd), Director General, MAIT<br>4. Ms. Seema Shukla, Executive Director, TIC Council, India<br><br>**Panelist – Virtual:**<br>5. Mr. Mathias Falkenberg, Program Manager, ECOS *<br>6. Mr. Anders Andrae, Chair of WG EE M-ICT * | **Moderator:** Mr. Jagan Shah, Resident Senior Fellow, Artha International<br><br>**Panelist - Physical:**<br>1. Mr. Aurindam Bhattacharya, Group Leader, CDOT<br>2. Mr. Kishore Narang, Narnix Technologies<br>3. Mr. Lohith MV, Technology and Innovations Head @ Siemens Advanta India.<br>4. Ms Margot Dor, Director Government Affairs, ETSI<br>5. Mr. Wim De Kesel, Group Vice-President, Standardization and Regulation, Legrand<br><br>**Panelist - Virtual:**<br>6. Mr. Andreas Neubacher, oneM2M & Deutsche Telekom (Confirmed - Virtual | **Moderator:** Dr. N Subramanian<br>Executive Director, SETS Under O/o PSA to Govt. of India.<br><br>**Panelist - Physical:**<br>1. Mr. Vijay Madan, Advisor & Mentor TSDSI<br>2. Mr. Debabrata Nayak, Head of Cyber Security Ericsson<br>3. Mr. Narendra Nath, ITS, Joint Secretary NSCS<br>4. Dr. Sriram Birudavolu, Data Security Council of India<br>5. Mr. Sachin Gaur, Industry Expert on Data Privacy & Cyber Security<br><br>**Panelist - Virtual:**<br>6. Mr. Manojkumar Parmar, Founder, CEO & CTO, AIShield powered by Bosch.<br>7. Mr Martin Michelot, Executive Director of TIC Council, Europe |
| IST=> 17:00 – 18:00 Hrs. / CET=> | **Valedictory Session:** | | |
| | **Moderator:** Mr. Dinesh Chand Sharma, Director Standards & Public Policy Project SESEI | | |

| | |
|---|---|
| 12:30 – 13:30 Hrs | Due to previous sessions time overrun, and non-availability of the venue after 18:00 IST, the conference had to be closed down without going through the valedictory session.<br><br>However, the session summary cum conclusions were a) summarized during the previous session by the Session Moderators, b) collected by the organizer and c) is now summarized as part of this conference report annexure 1.<br><br>Speakers and delegates also agreed to host a virtual session around these topics at a later stage when convenient. |

**For detailed session proceeding, please refer annexure 1.**

## 3. Release of study report

4th Indo European Conference was agreed to be focused on the following three topics:

- Circular economy (e-waste, plastics)
- Connectivity in smart cities (digital, energy & transport)
- Data privacy & cyber security

Prior to this 4th Indo European conference, a call for proposal was launched to carry out an independent study report on above topics, to cover latest developments, current state of play covering Standards development & Policy Initiatives in EU/EFTA and INDIA, the gaps and technological challenges in India limiting the market potential, adoption of technologies and the areas of further collaboration between EU and India.

In total four proposals were received from various agencies and after following a due process of scrutiny with the help of Project Steering Committee Members on following parameters, the agencies M/s Combine Way and M/s TERI were awarded to carry out this study report.

- Agency credentials
- Prior experience to carry out study report
- Resumes/Profile of Expert consultants

During the conference, this study report was released.

This study report comprehensively, yet succinctly covered the desired following aspects:

I. **Sector Profile and Ecosystem in EU/EFTA and India covering:**
   a. Market Dynamics
   b. Future Potential

II. **Latest Developments and current state of play:**
   a. Policy Initiatives
   b. Standardization
   c. Research & Development activities
   d. Capacity Building & Skill Development

III. **State of Cooperation between EU/EFTA and India through various political instruments or Joint Working Groups.**

IV. **Gaps and Challenges in Policy, Standards, and other related initiatives**

V. **Recommendations, Key Takeaways & Way Forward**

Keeping the expectations in context, the study report was structured uniformly into following four sections:

I. Eco-System, Market Dynamics
II. Policy Initiatives & Standardization
III. Future potential, Gaps & Challenges
IV. Recommendations

This study report especially the identified Gaps & Challenges and recommendation became an important basis of the dialogue and helped extensively to have a structured discussion and determine the actionable activities as a way forward.

**Copy of this study report is available as Annexure – 2 of this report.**

## 4. Recommendation & Way forward

The Plenary & Parallel sessions in the Conference brought out various perspectives around three topics of conference covering Circular economy (e-waste, plastics), Connectivity in smart cities (digital, energy & transport) and Data privacy & cyber security to provide the audience a 360-degree view of the paradigms. During the interactive panel discussions on each subject, experts discussed & deliberated on the gaps and challenges identified in the respective section of the study report. With few additional perspectives, it was observed that the study report had been spot on in identifying the gaps and challenges around these three domains of technologies for both policy & standards. Even the recommendations by experts' participants were found to be in-sync with the recommendations in the study report. A summary of recommendation topic wise is summarized below:

### Circular economy (e-waste, plastics):

- **Policy Alignment**: Harmonize regulations across EU/EFTA and India to better integrate sectors, facilitate smoot trade of circular products and monitor data. The India-EU/EFTA Resource Efficiency and Circular Economy partnership is crucial & useful for such initiatives.

- **Harmonizing Standards**: Ensure seamless interoperability of systems by harmonizing standards between India and the EU/EFTA.

- **Knowledge Exchange**: Sharing best practices b/w India & EU/EFTA and implement pilotable solutions in their respective regions.

- **Joint R&D:** Encourage collaborative research and development initiatives to address common challenges and explore innovative solutions. E.g.: Technology transfer, Financing etc.

- **Capacity Building**: Offering training programs as well as through student/professional exchange programmes.

## Connectivity in smart cities (digital, energy & transport):

- **Facilitate knowledge exchange & best practices** between Indian and EU/EFTA stakeholders on smart city solutions, such as CITIIS, Varanasi Smart City Project, and EU/EFTA Eco-Cities PPPs.

- **Support innovation and capacity building** in digital skills and competencies, such as through EU/EFTA-India Innovation Partnership, Horizon Europe, and EU/EFTA-India Digital Investment Forum.

- **Collaboration on Emerging Topics for Research & Standardization**: Joint research and Standardization on 6G, AI/ML, Quantum etc.

- **Data Governance**: Developing robust data governance frameworks for smart cities, ensuring data privacy, security, and ethical use.

- **Digital Twin Tech**: Exploring collaboration opportunities in the application of digital twin technology in smart cities.

- **Encouraging PPPs**: Foster public-private partnerships to leverage and strengthen the sector in implementing smart city solutions.

## Cybersecurity and Data Privacy:

- **Harmonizing Standards**: India and the EU/EFTA can promote the adoption of international cybersecurity & data-privacy standards among businesses. Both shall work together to have Global Cyber Security Standards developed at Global Platform such as JTC1, 3GPP, ITU and oneM2M for their adoption and implementation.

- **Policy Harmonization**: India and EU/EFTA can work together towards harmonizing cybersecurity policies for a unified approach against cyber threats.

- **Joint R&D:** Encourage collaborative research and development initiatives to address common challenges and explore innovative solutions.

- **Consent Management Framework:** India to harmonize DPDP Bill with GDPR for cross-border data transfers; EU/EFTA to promote open science initiatives, data anonymization & pseudonymization.

- **Information Sharing:** India, the EU/EFTA, can establish a platform for sharing threat intelligence, enabling early detection and mitigation of cyber threats.

- **ENISA Partnership:** NCL's MoU with ENISA facilitates collaborative efforts in cybersecurity standardization, threat exchange, joint training, and international standard adoption.

## 5. Conference Participants

The 4th Indo – European Conference received an overwhelming response with over 450 delegate registrations. All the key Government Ministries, BIS, TSDSI, TEC, DoT, Meity, MoCA and MEA provided full support by endorsing the event and participating at senior levels.

Industry bodies and associations were also actively engaged and ensured participation of their technical officials. The Conference witnessed participation of more than 60 international and national Subject matter experts in the focused sessions. Deputy Director General of Bureau of Indian Standards International Relations Department along with Joint Secretary, Ministry of Consumer Affairs and Member (Technology), DoT presided over the plenary session along with Mr. Laurent Le Danois Team Leader Cooperation Section, Delegation of the European Union to India.

Overview of the profile of the participants is as under:

**Institutional**

- Ministries of Central / State Governments
- Standard Development Organization
- Academia / Technical Institutions engaged on the topics of Circular Economy, Smart Cities, Cybersecurity & Data Privacy
- Companies, Manufacturers
- Certification / Inspection bodies
- EU Projects / Embassies

**Professionals**

- Policy Makers / Government officials
- Chief Technical Officers
- Product / Technology developers
- Networking specialists /System Integrators
- Quality and Standard Heads
- Product Strategy Specialists

## 6. Conference Partners

**SESEI - SECONDED EUROPEAN STANDARDIZATION EXPERT IN INDIA PROJECT**

The **Seconded European Standardization Expert for India (SESEI) project** was launched in March 2013. Its general objective is to raise awareness on the European Standardization System, values, and assets in India. The project is supported and operated by the European Committee for Standardization (CEN), the European Committee for Electrotechnical Standardization (CENELEC) and the European Telecommunications Standards Institute (ETSI), as well as by the European Commission's Directorate General for Enterprise and Industry (EC DG ENTR) and by the European Free Trade Association (EFTA).The SESEI's mission is to **enhance the visibility of European standardization activities**, **increase the cooperation between Indian and European standardization bodies** and **support European companies facing standardization related issues hampering market access to India**. The project also supports India in standardization related aspects of its integration in the WTO trading system, by identifying all potential opportunities for enhanced international cooperation and global harmonization of standards. Ultimately, **the SESEI project aims at reducing the Technical Barriers to Trade (TBT) both between EU and India and**

**globally**, thus supporting European and Indian industries by facilitating international trade. For more information about SESEI visit: www.sesei.eu

## EUROPEAN COMMITTEE FOR STANDARDIZATION (CEN) & EUROPEAN COMMITTEE FOR ELECTROTECHNICAL STANDARDIZATION (CENLEC)

CEN (European Committee for Standardization) and CENELEC (European Committee for Electrotechnical Standardization) are recognized by the European Union (EU) and the European Free Trade Association (EFTA) as European Standardization Organizations responsible for developing standards at European level. These standards set out specifications and procedures in relation to a wide range of materials, processes, products, and services. The members of CEN and CENELEC are the National Standardization Bodies and National Electrotechnical Committees of 34 European countries. European Standards (ENs) and other standardization deliverables adopted by CEN and CENELEC, are accepted and recognized in all these countries. European Standards (ENs) contribute to enhancing safety, improving quality, facilitating cross-border trade, and strengthening the European Single Market. They are developed through a process of collaboration among experts nominated by business and industry, research institutes, consumer and environmental organizations, trade unions and other stakeholders. CEN and CENELEC work to promote the international alignment of standards in the framework of technical cooperation agreements with ISO (International Organization for Standardization) and the IEC (International Electrotechnical Commission). For more information about CEN / CENELEC visit: www.cencenelec.eu (www.cen.eu / www.cenelec.eu )

## EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI)

The European Telecommunications Standards Institute (ETSI) produces globally applicable standards for Information and Communications Technologies (ICT), including fixed, mobile, radio, converged, broadcast and internet technologies. ETSI is a not-for-profit organization with more than 800 ETSI member organizations drawn from 66 countries across 5 continents world-wide. This cooperation has resulted in a steady stream of highly successful ICT standards in mobile, fixed, and radio communications and a range of other standards that cross these boundaries. For more information about ETSI visit: www.etsi.org

## EUROPEAN COMMISSION

The European Commission is an institution of the European Union, responsible for proposing legislation, implementing decisions, upholding the EU treaties, and managing the day-to-day business of the EU. The European Commission's Directorate General for Internal Market, Industry and Entrepreneurship (DG GROW) has the mission to promote a growth-friendly framework for European enterprises. It has a key role in the Europe 2020 agenda of smart, sustainable, and inclusive growth. DG Grow is playing an active role to promote smart, sustainable, and inclusive growth throughout all industrial sectors, including service industries like tourism. The policy of Grow contributes to making Europe a more competitive, innovative, and resource-efficient economy, ready to tackle today's and tomorrow's challenges. For more information about European Commission visit: https://ec.europa.eu/info/departments/internal-market-industry-entrepreneurship-and-smes en

## EUROPEAN FREE TRADE ASSOCIATION (EFTA)

The European Free Trade Association (EFTA), founded in 1960, is an intergovernmental organization set up for the promotion of free trade and economic integration to the benefit of its Member States – Iceland, Liechtenstein, Norway, and Switzerland. Relations with the European Union have been at the core of EFTA activities from the beginning. The Agreement on the European Economic Area brings together the EU Member States and three of the EFTA States – Iceland, Liechtenstein, and Norway – and extends the EUs internal market to these three EFTA States. Switzerland’s economic and trade relations with the EU are governed through bilateral agreements. The EFTA countries also have several Free Trade Agreements covering countries outside the EU. For more information about EFTA visit: www.efta.int

**Bharat Exhibitions**

Bharat Exhibitions founded in 2003 has more than 30 years of experience in organising national and international events and conferences. It is one of the leading organisations for exhibitions in the country. Headed by Mr. Shashi Dharan, it has 23 employees, exclusively for conference management. Bharat Exhibitions is currently organsing more than 14 Annual summits / conferences in the IT and ICT space. It also organises many events and conferences for Government, Industry Bodies, etc.

Bharat Exhibitions has the distinction of organising 2nd EU - India Conferences for Project SESEI. Bharat Exhibitions is a trusted name in the field of Conference & Exhibitions Management in India. They have an extensive Contact Database and also good connections with the senior govt. officials and Ministries. https://www.bharatexhibitions.com/en/index.html

# 7. Conference supporting organizations

**Bureau of Indian Standards (BIS)**

BIS is the National Standard Body of India established under the BIS Act 1986 for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto. BIS has been providing traceability and tangibility benefits to the national economy in a number of ways - providing safe reliable quality goods; minimizing health hazards to consumers; promoting exports and imports substitute; control over proliferation of varieties etc. through standardization, certification and testing. BIS is involved in various activities which are primarily, Standards Formulation, Product Certification, Compulsory Registration Scheme, Foreign Manufacturers Certification Scheme, Hall Marking Scheme, Laboratory Recognition Scheme, Sale of Indian Standards, Consumer Affairs Activities, Training Services, etc. (https://www.bis.gov.in/)

**Department of Telecommunication (DoT)**

**Department of Telecommunications** under Ministry of Communications is responsible for formulating developmental policies aimed at accelerating growth of the telecommunication services in the country. The Department is also responsible for the grant of licenses for various telecom services like Unified Access Service Internet and VSAT service. The Department is also responsible for frequency management in the field of radio communication in close coordination with the international bodies. It also enforces wireless regulatory measures by monitoring wireless transmission of all users in the country. Dot is responsible for Policy, Licensing and Coordination matters relating to telegraphs, telephones, wireless, data, facsimile and telematic services and other like forms of communications. International cooperation in matters connected with telecommunications including matters relating to all international bodies dealing with telecommunications such as International Telecommunication Union (ITU), its Radio Regulation Board (RRB), Radio Communication Sector (ITU-R), Telecommunication Standardization Sector (ITU-T), Development Sector (ITU-D), International Telecommunication Satellite Organization (INTELSAT), International Mobile Satellite Organization (INMARSAT), Asia Pacific Telecommunication (APT). Promotion of standardization, research and development in telecommunications is also one of the prime objectives of DoT. (https://dot.gov.in/)

**Telecommunications Standards Development Society, India (TSDSI)**

TSDSI is an SDO that aims at developing and promoting India-specific requirements, standardizing solutions for meeting these requirements and contributing these to international standards, contributing to global standardization in the field of telecommunications, maintaining the technical standards and other deliverables of the organization, safe-guarding the related IPR, helping create manufacturing expertise in the country, providing leadership to the developing countries (such as in

South Asia, South East Asia, Africa, Middle East, etc.) in terms of their telecommunications-related standardization needs. A consensus-based approach is followed towards standards development by involving all stake holders - Government, Academia and Industry. TSDSI follows the principles of Openness, Transparency, Fairness, Consensus and Due Process in conducting its activities. It maintains technological neutrality and provides a uniform playing field for all of its members. The TSDSI is not for profit legal entity in Public-Private Partnership (PPP) mode with participation from all stake holders including Government, service providers, equipment vendors, equipment manufacturers, academic institutes, and research labs. (http://www.tsdsi.org/).

**Delegation of the European Union to India**

The Delegation of the European Union to India was established in 1983 as a full-fledged diplomatic mission. The European Union is represented in India by the New Delhi Delegation, which works in close coordination with the Embassies and Consulates of the 27 EU Member States to enhance close relations with the Indian government in areas that are part of the EU's remit. The Delegation is responsible for the conduct of official relations between India and the European Union. The EU Delegation and India have built cooperation in sectors such as Clean Energy and Climate Partnership, Information, Research and Innovation, Circular Economy and Resource Efficiency, Trade and Investment, Urban Partnership: Cities for Tomorrow, Development Cooperation, and Water Partnership, among others. (https://www.eeas.europa.eu/delegations/india_en?s=167).

**European Union's Resource Efficiency Initiative (EU-REI)**

European Union's Resource Efficiency Initiative (EU-REI) aims to support India in the implementation of the United Nations global Sustainable Consumption and Production (SCP) agenda by way of adapting international standards and best practices in business on resource efficiency and circular economy and fostering the efficient and sustainable use of natural resources.
The EU-REI works towards creating a dialogue on the need for resource efficient and circular economy approaches in India among key government and non-governmental organisations, businesses, students, media and the general public. It also underscores the link between recovering raw materials from different material streams and creating an enabling ecosystem for the management of secondary raw materials. Adoption of resource efficiency and circular economy standards and benchmarks and business best practices on resource efficiency will remain key in this transition. (https://www.eu-rei.com/who-we-are/)

**CONFEDERATION OF INDIAN INDUSTRY (CII)**

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government, and civil society, through advisory and consultative processes. CII is a non-government, not-for-profit, industry-led, and industry-managed organization, with around 9000 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 286 national and regional sectoral industry bodies.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness, and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues. For more information about CII visit: http://www.cii-iq.in/

**The Energy and Resources Institute (TERI)**

The Energy and Resources Institute (TERI), established in 1974, is a research institute in New Delhi that functions across domains of policy, technology development, consultancy, and implementation. Working tirelessly to find solutions for the ailing planet, TERI's myriad areas of expertise range from

engagement in clean energy transitions, advanced biofuels, climate change, sustainable use of land and water, sustainable agriculture, transport, and buildings. (https://www.teriin.org/)

## 8. News and Social Media Coverage

| S. No | X | Facebook | LinkedIn | Instagram |
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| 1 | https://twitter.com/be_exhibitions/status/1732624073513947355 | https://www.facebook.com/permalink.php?story_fbid=pfbid02zH1FL4PzZ3ojN4yWLLxGQaHzgoR4RWaguqg3KQ5xPJE81b5XcpeMYVwKbdyye3qUl&id=100064632673755 | https://www.linkedin.com/feed/update/urn:li:activity:7138393720424488961 | https://www.instagram.com/reel/C0imNDTLZgr/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 2 | https://twitter.com/be_exhibitions/status/1732626555690725829 | https://www.facebook.com/permalink.php?story_fbid=pfbid0PhMybHb8UoLyaTM4pfSkb7hQwsiutZFzm5njb1Ghz1yUf15EgCzqZsyfBccfvEVgl&id=100064632673755 | https://www.linkedin.com/feed/update/urn:li:activity:7138395176896569344 | https://www.instagram.com/reel/C0oQ_9bpB6M/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 3 | https://twitter.com/be_exhibitions/status/1732628547444019220 | https://www.facebook.com/reel/393028303073970 | https://www.linkedin.com/feed/update/urn:li:activity:7138397170642079745 | https://www.instagram.com/reel/C0oRjP6piEY/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 4 | https://twitter.com/be_exhibitions/status/1732628547444019220 | https://www.facebook.com/watch/?v=1114389809726040 | https://www.linkedin.com/feed/update/urn:li:activity:7138401993022128128 | https://www.instagram.com/reel/C0oRvfvpMDS/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 5 | https://twitter.com/be_exhibitions/status/1732626555690725829 | https://www.facebook.com/watch/?v=735131625153316 | https://www.linkedin.com/feed/update/urn:li:activity:7138403021650128898 | https://www.instagram.com/reel/C0oSF6XppgJ/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 6 | https://twitter.com/euprojectsesei/status/1719670769372827996 | https://www.facebook.com/watch/?v=692880116268401 | https://www.linkedin.com/feed/update/urn:li:activity:7138407767786016770 | https://www.instagram.com/reel/C0oSNyFpUAW/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
| 7 | https://twitter.com/be_exhibitions/status/1732630734857539811 | https://www.facebook.com/watch/?v=322475273938103 | https://www.linkedin.com/feed/update/urn:li:activity:7138413233282895873 | https://www.instagram.com/reel/C0oSeYIpu-y/?utm_source=ig_web_copy_link&igshid=ODhhZWM5NmIwOQ== |
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| 10 | https://twitter.com/be_exhibitions/status/1732644046911442969 | https://www.facebook.com/watch/?v=859014289100821 | https://www.linkedin.com/feed/update/urn:li:activity:7138435132402634754 | |
| 11 | https://twitter.com/be_exhibitions/status/1732646446082695458 | https://www.facebook.com/watch/?v=2466673450177412 | https://www.linkedin.com/feed/update/urn:li:activity:7138439324106162178 | |
| 12 | https://twitter.com/be_exhibitions/status/1732647106203336967 | https://www.facebook.com/watch/?v=899334075159948 | https://www.linkedin.com/feed/update/urn:li:activity:7138459143627030528 | |
| 13 | https://twitter.com/euprojectsesei/status/1732646470317391958 | https://www.facebook.com/watch/?v=888719939585748 | https://www.linkedin.com/feed/update/urn:li:activity:7138464372196085761 | |
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| 15 | https://twitter.com/be_exhibitions/status/1732666778415955980 | https://www.facebook.com/watch/?v=1846278705832991 | https://www.linkedin.com/feed/update/urn:li:activity:7138473415765626880 | |
| 16 | https://twitter.com/be_exhibitions/status/1732668402786005338 | https://www.facebook.com/watch/?v=756279829852545 | https://www.linkedin.com/feed/update/urn:li:activity:7138488489699901441 | |
| 17 | https://twitter.com/be_exhibitions/status/1732686186509127724 | https://www.facebook.com/watch/?v=203503416147421 | https://www.linkedin.com/feed/update/urn:li:activity:7138497491502583810 | |
| 18 | https://twitter.com/be_exhibitions/status/1732692898293195049 | | https://www.linkedin.com/feed/update/urn:li:activity:7138910988594040832 | |
| 19 | https://twitter.com/DharanShashi/status/1732696689411010656 | | https://www.linkedin.com/feed/update/urn:li:activity:7139135314446503936 | |
| 20 | https://twitter.com/be_exhibitions/status/1732699920015237186 | | https://www.linkedin.com/feed/update/urn:li:activity:7139150110445281280 | |

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| 21 | https://twitter.com/be_exhibitions/status/1732702836335796462 | | https://www.linkedin.com/feed/update/urn:li:activity:7139156281596047360 | |
| 22 | https://twitter.com/be_exhibitions/status/1732705429455806635 | | https://www.linkedin.com/feed/update/urn:li:activity:7139167600965570560 | |
| 23 | https://twitter.com/be_exhibitions/status/1732706473984356462 | | https://www.linkedin.com/feed/update/urn:li:activity:7139196452228034560 | |
| 24 | https://twitter.com/euprojectsesei/status/1732721679405813959 | | https://www.linkedin.com/feed/update/urn:li:activity:7139944941807468545 | |
| 25 | https://twitter.com/be_exhibitions/status/1732731023136600360 | | https://www.linkedin.com/feed/update/urn:li:activity:7139946576420007936 | |
| 26 | https://twitter.com/CDOT_India/status/1732736927713931617 | | https://www.linkedin.com/feed/update/urn:li:activity:7139952474605486081 | |
| 27 | https://twitter.com/be_exhibitions/status/1733145697363333335 | | https://www.linkedin.com/feed/update/urn:li:activity:7140271997611155456 | |
| 28 | https://twitter.com/be_exhibitions/status/1733389208872436193 | | https://www.linkedin.com/feed/update/urn:li:activity:7140281859254521856 | |
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| 36 | https://twitter.com/be_exhibitions/status/1734515936940507411 | | | |
| 37 | https://twitter.com/be_exhibitions/status/1734898951675847043 | | | |

**Media interactions:**

1. **Ms. Margot Dor**, Director Govt. Affairs, ETSI
   https://youtu.be/jOKDHp4LpGM

2. **Mr. Dinesh Chand Sharma,** Director – Standards & Public Policy, EU Project SESEI
   https://youtu.be/-lqaqb3r1i8

3. **Mr. Wim De Kesel**, Group Vice-President, Standardization and Regulation, Legrand "CEN-CENELEC"
   https://youtu.be/nsKQk88-r6M

4. **Shri Golok Kumar Simli,** Principal Advisor and Chief Technology Officer, Ministry of External Affairs
   https://youtu.be/j9qxBdoxY0M

5. **Mr. Chandan Bahl,** Deputy Director General, BIS
   https://youtu.be/6ParoXWtNIM

6. **Mr. Souvik Bhattacharjya,** Associate Director & Sr. Fellow Resource Efficiency & Governance, TERI
   https://youtu.be/2v5BV6IECxE

7. **Mr. Vipin Sahni,** Executive Director, CII - Institute of Quality
   https://youtu.be/v2y7ctWlcts

8. **Mr. Lohith MV,** Technology and Innovations Head, Siemens Advanta India
   https://youtu.be/Rwr6oNE-4Us

9. **Mr. Swami Suryanil,** Chairperson, TotalStart Entrepreneurship, Ecosystem Developers
   https://youtu.be/14sHL_0wsoo

**For more information including copy of presentations, study report, Picture Gallery etc. around 4th "EU-INDIA conference on Standards and Emerging Technologies" please visit here**

- https://iecset2023.bharatexhibitions.com/index.html

## 9. Annexure 1 - Detailed Session Proceedings
## 10. Annexure 2 - Study Report Print Copy
## 11. Annexure 3 - Study Report Presentation