CONASENSE (Communication, Navigation, Sensing and Services) brainstorming workshop 2026

Brief overview of Project SESEI

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European Project SESEI

SESEI | Seconded European Standardisation Expert in India

Enabling Europe-India Cooperation on Standards

Agenda

- EU Project SESEI: Connecting Europe and India
  - ✓Local representative, its ToR, How, Best Practices, Research Integration, Achievements
- EU/EFTA - India Relations
- Conclusion

SESEI: Local Representative

SESEI (**S**econded **E**uropean **S**tandardization **E**xpert in **I**ndia) ***is a local face for the European standardization community in India: Dinesh Chand Sharma***

Launched in Jan'13, currently in its sixth phase (Aug'24 to July'27)

Priority Sectors/topics: Aligned with EU-INDIA TTC & Connectivity Partnership

Digitization: Strategic technologies, digital governance, and digital connectivity

- Smart Cities, ITS, Quantum Technologies, Smart Grid/Meter, AI, 5G/6G, Open RAN, M2M/IoT, DECT, Data Privacy, Satellite Communication, Blockchain, Digital Signature, Smart Manufacturing, e-Accessibility, cybersecurity, digital skills and R&I etc.

Green & Clean Technologies:

- Clean Energy, Energy Efficiency (Green ICT), Environment, Circular Economy including Resource Efficiency, Waste Management, Energy storage technologies, Electric mobility, Green Hydrogen, Advanced biofuels including R&I etc.

Market access & Other topics of mutual interests:

- Rail, Ropeways, Machinery Safety etc.

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SESEI: ToR

Terms & Reference/ Objectives

- ✓ SESEI project aligns closely with priorities of "EU/EFTA and India" through collaborative efforts of its Project Partners (CEN, CENELEC, ETSI, the European Commission, and EFTA) and serves as a vital link bridging the European and Indian standardization ecosystems.

Its core objectives are:

- ✓ Enhance the visibility of European standardization activities.
- ✓ Develop cooperation in the field of digitalization and sustainability covering the priority topics of TTC.
- ✓ Foster standardization approaches and priorities at national and international level that support TTC topics that leads to harmonization of standards on Global/European levels.
- ✓ Protect, promote and support the interests of European industry and citizens, enhance cooperation and collaborative relationship between EU/EFTA and India.
- ✓ Increase cooperation between Indian and European standardization bodies and help European industry on their queries around standards and market access.
- ✓ ***Support and ensure technical synergy with other EU – India projects such as project InDiCo-Global, Digital Policy Dialogue, INPACE, Connectivity Partnership etc.***

SESEI: How

1. UNDERSTAND
Policy, regulatory and technology intelligence

2. CONNECT
Government, SDOs, industry, academia and experts

3. ALIGN
Standards, interoperability and technical cooperation

4. DELIVER
Workshops, reports, dialogue and long-term partnerships

SESEI helps it project partners move from policy and technology discussions towards practical, standards-based cooperation

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SESEI: Best Practices

The "best practices" of the SESEI project refer to its core strategies and operational methods for achieving its objectives. These practices are focused through dialogue, information-sharing, and technical collaboration.

- **Standards Cooperation Platform:** SESEI has established a strong bridge between European Standardization Organizations (CEN, CENELEC, ETSI) and Indian counterparts (BIS, TSDSI, TEC etc.), promoting alignment and mutual understanding on standards and regulatory approaches.
- **Focusing on High-Impact Priority Sectors:** 5G/6G, AI, Cybersecurity, Smart Cities, Smart Energy, e-Mobility, and Circular Economy etc. aligned with EU-INDIA TTC & Connectivity Partnership — all which support shared Digital and Sustainability Goals.
- **Policy Dialogue and Knowledge Exchange:** Facilitated continuous dialogue between EU and Indian policymakers, industry, and SDOs through workshops, consultations, and participation in SDOs technical committees.
- **Information Dissemination:** Regular publications of newsletters/reports and stakeholder interactions have improved awareness about European standards, best practices, and new legislative developments (e.g., Digital Product Passport (DPP), Ecodesign Regulation etc.)
- **Acting as a "Helpdesk" and Focal Point:** SESEI expert responds to specific queries from European companies facing standardization-related issues when trying to access the Indian market and vice-versa.

SESEI: Research Integration

RESEARCH
New knowledge and scientific results

INNOVATION
Technologies, prototypes and solutions

STANDARDISATION
Interoperability, safety, security and scalability

DEPLOYMENT
Market uptake and wider societal impact

- ✓ Promote Standard based Research
- ✓ Standards help research outcomes to move beyond isolated pilots as they support interoperability, replicability, scalability and wider adoption.

SESEI: Achievements 1(2)

- Permanent presence of Project SESEI expert in India since 2013 has provided considerable insight, access, alignment of Indian standardisation programmes and related strategies i.e. roadmaps and priorities.

Local presence:

- ✓ Database of 3000+ contacts: all partners can leverage to engage with stakeholders in India, either directly or with support of the SESEI expert.
- ✓ Contact with Ministries & admins and other CC and/or embassies
- ✓ Picks up queries from EU/Indian Industry/Legislators around Legislation, Standards and extended local support in pursuing Market Access Issues (Quality Control Orders)

Structural cooperation:

- ✓ MoU between BIS -CEN-CENELEC: Framework Copyright Agreement ongoing, Cooperation agreement between BIS – ETSI (Copyright Provisions Included)
- ✓ MoU between ISGF-CENELEC , BIF-ETSI , COAI-ETSI etc.
- ✓ BIS officials visited EU/EFTA as part of the study cum training visit organized by SESEI.

Information flow (both ways):

- ✓ Monthly Newsletter for both EU/EFTA and Indian stakeholders
- ✓ Industry Sector Profile Report on Digitalization and Green & Clean Technologies: India
- ✓ Reports on European Standardisation Initiatives: on the request of IN govt bodies
- ✓ Thematic Webinars & Workshops (Consumer IoT Security and Circular Economy and Eco Design, Eco Labelling, etc)
- ✓ Published articles on key emerging topics covering AI, Consumer IoT, EU-India collaboration etc.

SESEI: Achievements 2(2)

- Presence and involvement of SESEI expert in relevant associations, WGs in India is an invaluable asset to raise awareness of Europe's vision and approach to key challenges, Europe's standards, and best practices.
  - Member of many TC's /WG's of BIS, TEC, TSDSI , Niti Aayog, Trade/Tech Associations, and active participations in various forums has led to Considerable Impact on Indian regulatory and Standardisation system.

- **Resulted in Adoption of EN's by Indian SDO's** :
  - Adoption of EN-115 standards as Indian Standard: BIS
  - Adoption of EN 301 549 (Accessibility requirements suitable for public procurement of ICT products and services): BIS
  - Adoption of E/Digital – Signatures: plans to adopt entire ETSI library
    - Total = 76 , Published = 5, Under Publication = 4, Preliminary Draft Stage = 3, Next Transposition: 3
  - TSDSI transposition of 3GPP for IMT-Advanced/4G/5G specifications adopted as National Standards by TEC: Indian 5Gi is aligned with 3GPP Specifications.
  - Adoption of OneM2M Release 2 and Release 3 Specifications as national Standards in India
    - BIS Standard on Smart Infrastructure has IoT reference Architecture standards and is based on oneM2M Reference Architecture, Other Indian standard also includes ETSI NDSI-LD as well.
  - Adoption of EN 303 645 - cyber security standard for consumer IoT devices: TEC Code of Practice
  - Standard for "Energy Consumption Rating and Energy Passport" for Telecommunications at TEC are based on ETSI Standards
    - EN 303 215, EN 202 706-1, EN 102 706-2, EN 303 470, ES 201 554 etc.
  - TSDSI adoption of ETSI Standards on NFV and IoT (Security).

- **Indo European Conference on Standards & Emerging Technologies**: a strong platform established by SESEI for effective and continuous dialogue between India and EU/EFTA to identify the key areas of collaboration: 4th Edition of the Conference was held on 7th December 2023 => The next (5th) edition of the Conference is to be held on 15-16 February 2027 in New Delhi=> AI, DPP, Digital Wallet, Digital trust and signature

EU/EFTA - India Relations

- EU & India "EU-India Strategic Partnership: A Roadmap to 2025" (2020)
- Trade Technology Council (TTC) set up in February 2023.
  - ✓ **Strategic Technologies** : Quantum and High-performance Computing, Trustworthy Artificial Intelligence, Semiconductor sector, Digital skills, 5G , IoT and enhance interoperability of respective digital public infrastructure.
  - ✓ **Green & Clean Energy Technologies**: Waste-water management, Recycling of Batteries for Electrical Vehicles, Standards in the Research Domain (Waste to Green Hydrogen, Marine Plastic Litter and Wastewater, E-Mobility – Circularity aspects of batteries & interoperability of Charging Infrastructure)
  - ✓ **Trade Investment and Resilient Value Chains**: Resilient Value Chains, resolve bilateral market access issues, exchange information on mechanism for FDI screening, address global and multilateral trade issues
- India-EFTA trade talks > Trade and Economic Partnership Agreement (TEPA) signed in March 2024 and entered into force on 1 October 2025, representing a significant milestone in the trade and economic relations between the parties.
- At G20 held in India, creation of the India-Middle East-Europe- Economic Corridor was launched: Sep'23
  - EU-India Connectivity Partnership aligned with EU's Global Gateway
- Visit of European Commission President Ursula von der Leyen, accompanied by the European Union College of Commissioners, played a crucial role in stimulating further discussions and exploring future opportunities to realign EU-India ties, IMEC including possible closure of FTA by the end of 2025.
- **In October 2025, European Council has approved 'New Strategic EU-India Agenda'**: which aims to deepen EU-India ties, including prosperity and sustainability, technology and innovation, security and defence, and connectivity and global issues.

Conclusions

- SESEI Project has proved to be an asset and acknowledged for the benefit that it brings to EU and EFTA and the ESO's
  - ✓ Wealth of knowledge, achievements and expertise
- Now in its sixth phase, from August 2024 to July 2027, SESEI will continue its activities, further deepening EU-India cooperation in standardization.



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