



Shawn Paulsen
IEC Vice-President and
CAB Chair

IECEx MC Meeting
September 8th, 2022
Virtual



**International
Electrotechnical
Commission**



Vision:
IEC everywhere
for a safer, more
efficient world.

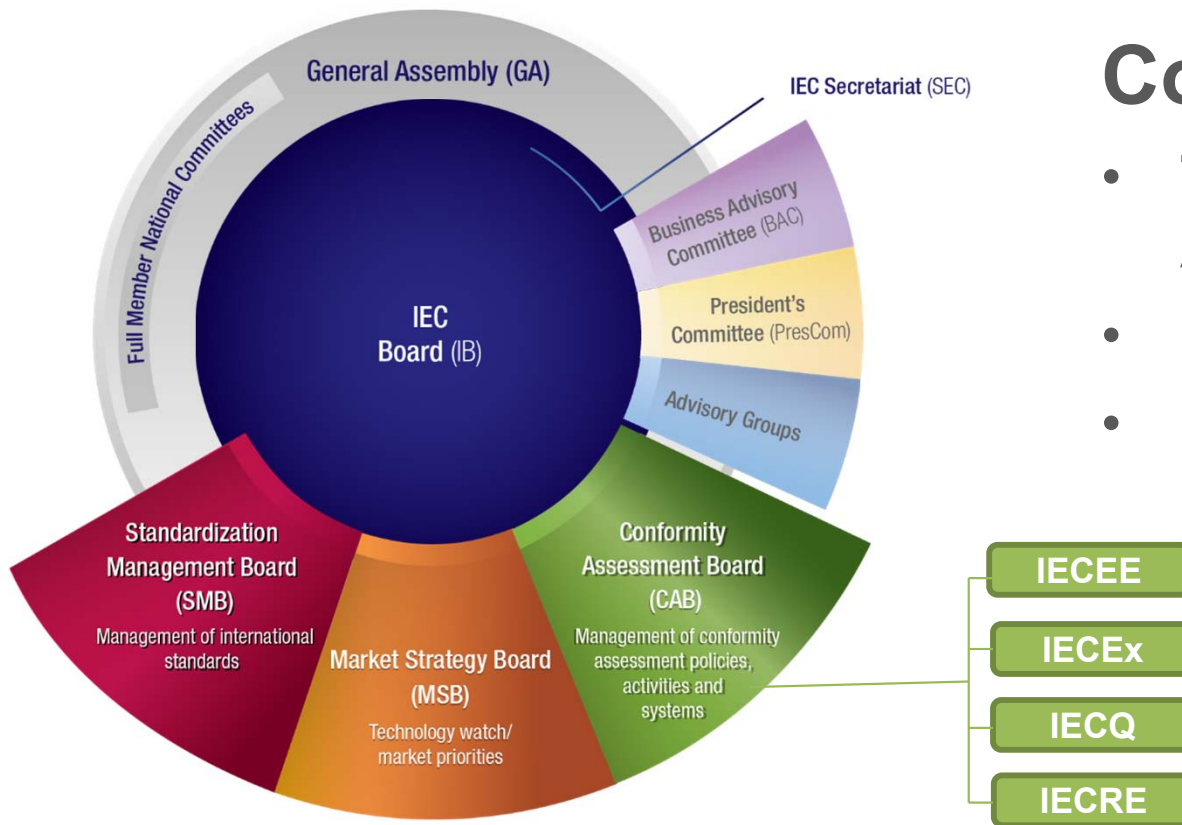


Strategic objectives

- **Market and societal relevance**
- **Sustainable business model**
- **Flexible organization**
- **Agile operations**



Organization chart



Core principles:

- Transparency & Accountability
- Performance management
- Diversity

IEC Initiatives

- **New Statutes and RoP**
- **IEC Strategic Plan**
- **IB TF 3 - SDGs**
- **IB TF 5 – SMART Standards and CA**
- **Global Impact Fund**

Foster a sustainable world



- As part of our vision to build **a safer and more efficient world**, the IEC has launched the IEC Global Impact Fund.
- Environmental, social and corporate governance (ESG) initiative
- Use IEC work to bring technologies to developing counties to help address
 - e-waste,
 - electricity access
 - climate change
- Donor funded
- Provides grants to small & medium enterprises (SMEs) to develop projects

IEC Strategic Plan

Three Strategic Themes

- Enabling a digital and all electric society
- Fostering a sustainable world
- Leading on trust, inclusion and collaboration

Operational Plans from the CAB, MSB, SMB

IEC Strategic Plan

Nine Strategic Goals

- Producing standards and conformity assessment solutions for a safe and secure digital society.
- Developing and deploying SMART Standards and Conformity Assessment that meet evolving market and member needs.
- Strengthening the role of IEC standards and conformity assessment to deliver an all-electric and connected society.
- Building an efficient, safe, and sustainable world through IEC standards and conformity assessment.
- Providing solutions and services for net zero, circular economy, and sustainable development to meet UN SDGs.

IEC Strategic Plan

- **Championing energy efficiency, the renewable energy transition and next generation power systems.**
- **Collaborating with partners and stakeholders to enhance sustainable global trade in electrotechnology and increase the use and influence of IEC standards and conformity assessment services.**
- **Embedding good governance and best practices to strengthen organizational excellence and meet stakeholder needs.**
- **Building an inclusive, diverse, innovative, and agile organisation.**

Role of CAB

- Policy and strategy
- Oversight of operational aspects and budgets
- Approve basic rules and rules of procedure
- Oversight of the IEC CA Systems: IECEE, IECEX, IECQ, IECRE
- High Value Cooperation with International Bodies



Major CAB Activities

Seven Strategic Actions

- Increase existing IEC CA services.
- Investigate opportunities for new IEC CA services and introduce quickly where appropriate.
- Increase use of digital services and methods.
- Electrification programmes and Reduction of e-waste (and testing energy).
- Develop programmes to educate and attract.
- Develop strategies for fostering closer relations with relevant organisations.
- Implement actions and work practices to ensure agile and flexible development, management and implementation of IEC CA activities.



Major CAB Activities

- **Harmonized Basic Rules (HBR) for CA Systems - HBR ed. 2.5**
- **CA Directives, Standards Guidelines**
- **IEC CA Strategic Operation Plan**
- **New CA Services Radar**
- **Guideline – Market Impact Analysis /Business Case – IEC CAB-G01**

Major CAB Activities

- CAB ahG CA Requirements
- CAB Taskforce SDG's
- New WG – Digital Transformation
- ACOS – Collaborative Safety

Major CAB Activities

- **Peer Assessment/National Accreditation**
- **Ethically Questionable Products**
- **Strategic Mindset**
- **IEC CA Decisions by Correspondence**
- **Electronic Labels**

IEC Board Collaboration

- **Standards & Conformity Assessment Cooperation**
- **Guidance to TCs/SCs for CA when writing standards**
- **IEC CA Systems feedback loop from CA to SD**
- **Liaisons**
 - **SMB SG 11 Hot Topics & CAB New CA Services Radar**
 - **SMB SG 12 Digital Transformation**
 - **ACOS, ACEE, ACSEC, and others**
 - **CAB, SMB, MSB collaboration on Market Evaluation**
 - **CAB, SMB, MSB collaboration on White Papers**
 - **CAB, MSB – TF CO2 Emissions Certificate Program**

IEC CA Systems Principals



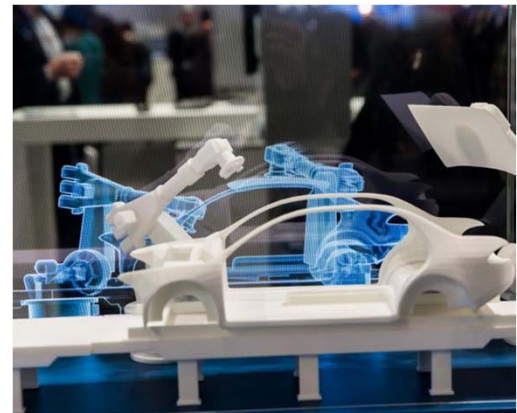
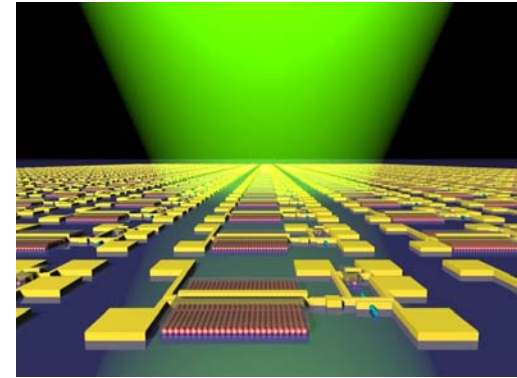
- IEC CA Systems are non-profit
- IEC CA Systems are neutral and transparent
- IEC CA Systems are market driven
- IEC CA Systems does not do any conformity assessment (CA) itself (not testing, not certification, etc)
- IEC CA Systems creates an international framework in which commercial CA organizations operate



Unprecedented integration

- Digital twins
- IoT/IIoT
- Sensor networks
- Control and algorithms
- Big data and the cloud
- Bridge between the physical and digital world
- Robotics
- Wearables
- Bio-digital Convergence
- Interoperability, and more
- Efficient data exchange across multiple technical systems, domains, departments, factories

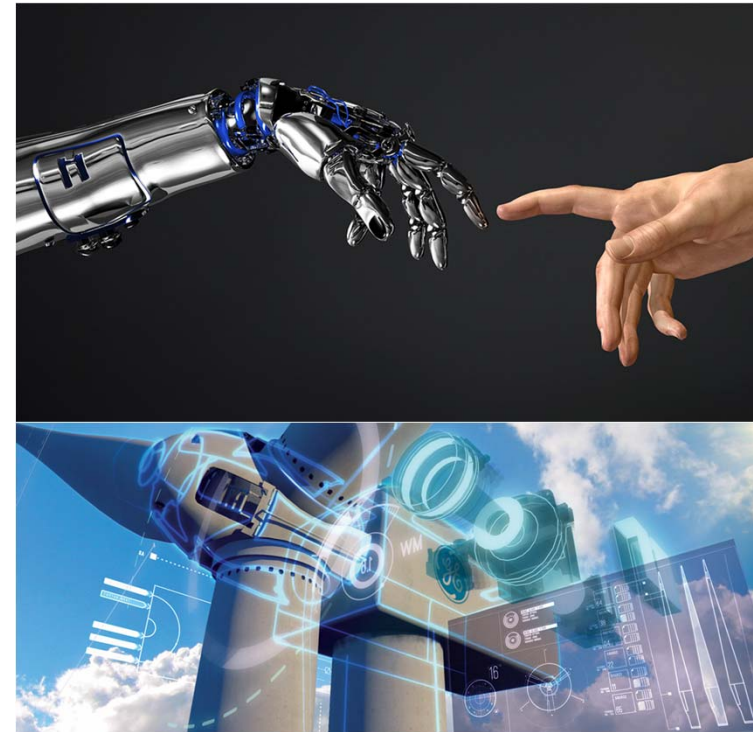
Greater efficiencies, new opportunities

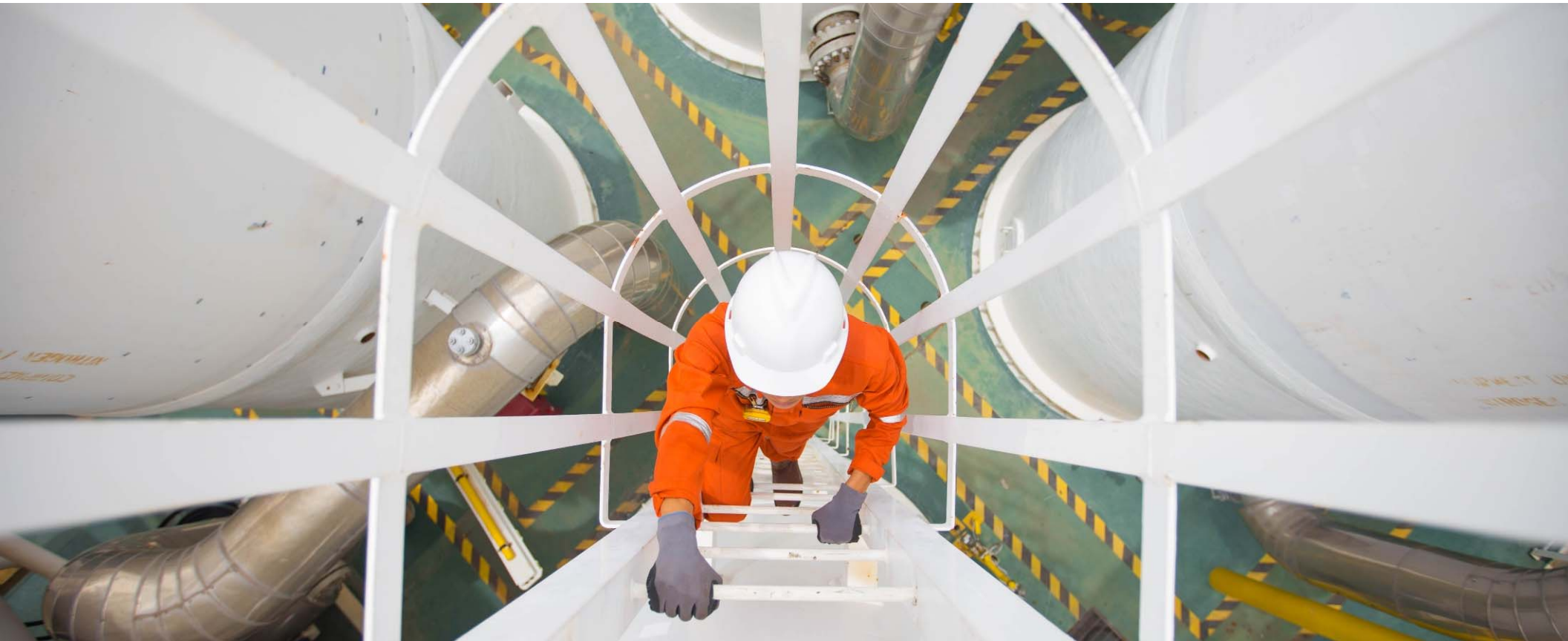


Future CA Challenges

- Remote technologies for monitoring and inspection;
- Test methods through machine learning and artificial intelligence;
- Digital testing;
- 3D printing;
- Big Data;
- Virtual measuring;
- Digital twins;

These are all possibilities which may define the future of conformity assessment.





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