

The background of the slide features a blue-toned image of four people's silhouettes. They are looking towards a large, glowing digital interface. This interface is composed of a network of red and blue lines connecting various nodes, with several semi-transparent rectangular boxes overlaid on it. These boxes contain different types of data visualizations, including a world map, a waveform graph, and various icons and charts. The overall aesthetic is futuristic and data-driven.

Gender Considerations Digitalization and Artificial Intelligence

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IEC Strategic Plan





Enabling a digital and all-electric society

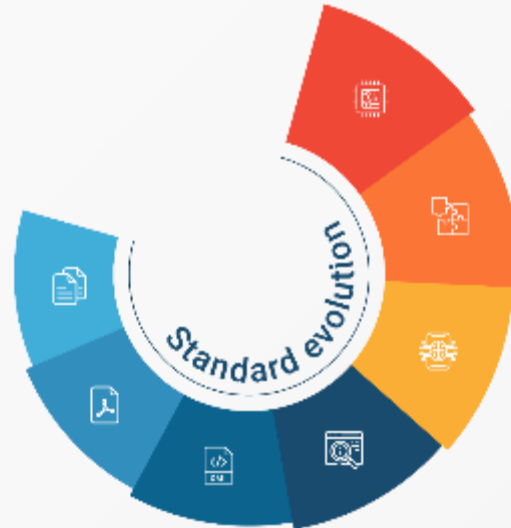
1

Producing standards and conformity assessment solutions for a safe and secure digital society



2

Developing and deploying SMART Standards and Conformity Assessment that meet evolving market and member needs

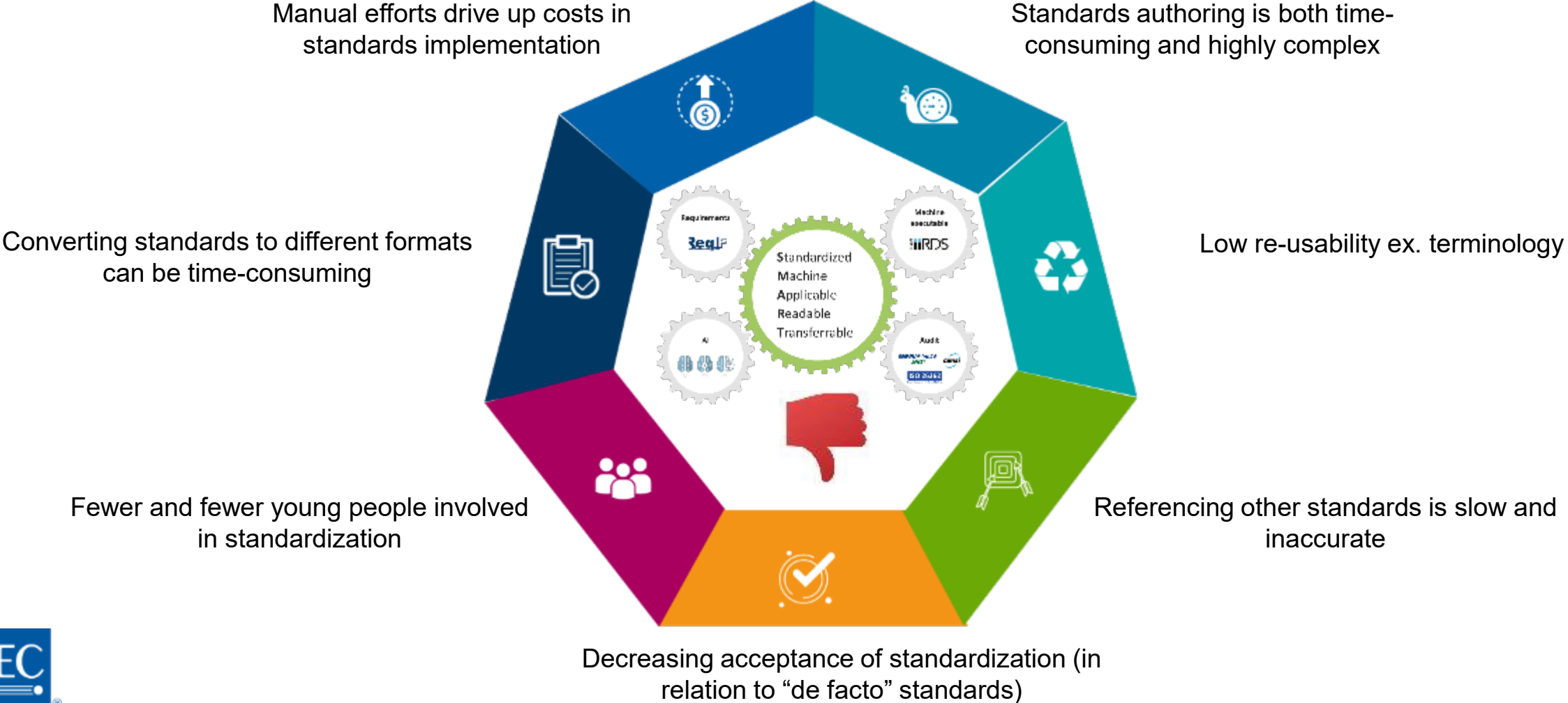


3

Strengthening the role of IEC Standards and Conformity Assessment to deliver an all-electric and connected society



What happens without Digital Transformation and Smart Standards?



A hand pointing towards the right, overlaid on a dark blue background with a complex network of white lines and glowing nodes, symbolizing digital technology and connectivity.

Digital transformation

- Enhanced decision-making
- Boosted productivity
- Improved customization and personalization
- Improved user experience
- Reduced costs

Technical work in relation to digitalization

- IEC TC 3: Documentation, graphical symbols and representations of technical information
- TC 8: System aspects of electrical energy supply
- TC 13: Electrical energy measurement and control
- TC 23: Electrical accessories
- TC 34: Lighting
- TC 47: Semiconductor devices
- TC 49: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection
- TC 57: Power systems management and associated information exchange
- TC 62: Electrical equipment in medical practice
- TC 65: Industrial-process measurement, control and automation
- TC 72: Automatic electrical controls
- TC 86: Fibre optics
- TC 100: Audio, video and multimedia systems and equipment
- TC 110: Electronic displays
- TC 119: Printed electronics
- TC 129: Robotics for electricity generation, transmission and distribution systems
- SyC SM: Smart Manufacturing
- SyC Smart Cities
- SyC Smart Energy
- SyC Comm: Communication Technologies and Architectures
- SyC AAL: Active Assisted Living



Fostering a sustainable world

4

Building an efficient, safe and sustainable world through IEC Standards and Conformity Assessment



5

Providing solutions and services for net zero, circular economy and sustainable development to meet UN SDGs



6

Championing energy efficiency, the renewable energy transition and next generation power systems





Renewable and clean
energies



HYDROGEN H₂

Paving the way for
clean hydrogen

Standards

TC < ISO/IEC JTC 1

Standards by ISO/IEC JTC 1/SC 42 [®]

Artificial intelligence

Filter: Published Under development Withdrawn Deleted

Standard and/or project under the direct responsibility of ISO/IEC JTC 1/SC 42 Secretariat(s)	Stage ↑	ISO
 ISO/IEC TS 4219:2022 Information technology — Artificial intelligence — Assessment of machine learning classification performance	03.00	25.020
 ISO/IEC 5398:2023 Information technology — Artificial intelligence — AI system lifecycle processes	03.00	35.020
 ISO/IEC 5399:2024 Information technology — Artificial intelligence — Guidance for AI applications	03.00	35.020
 ISO/IEC 5392:2024 Information technology — Artificial intelligence — Reference architecture of knowledge engineering	03.00	35.020
 ISO/IEC TR 5498:2024 Artificial intelligence — Functions, roles and AI systems	03.00	45.021
 ISO/IEC 5903:2023 Information technology — Artificial intelligence — Data life cycle networks	03.00	35.020
 ISO/IEC TR 20547-1:2023 Information technology — Big data reference architecture — Part 1: Framework and application process	03.00	35.020
 ISO/IEC TR 20547-2:2018 Information technology — Big data reference architecture — Part 2: Use cases and derived requirements	03.00	35.020
 ISO/IEC 20547-3:2023 Information technology — Big data reference architecture — Part 3: Reference architecture	03.00	35.020
 ISO/IEC TR 20547-9:2018 Information technology — Big data reference architecture — Part 9: Standards roadmap	03.00	35.020

Workshops



ISO JTC 1 IEC
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ISO/IEC AI workshops

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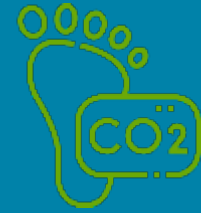
IECQ for circular economy



Environmentally conscious
design (ecodesign) to
IEC 62430



Restricted/hazardous
substances process
management (HSPM) to
IECQ QC 080000



Carbon footprint claim
verification to
ISO 14067

IEC Global Impact Fund

Making a difference

Four topics have been identified where IEC International Standards and IEC Conformity Assessment Systems can have a significant impact. They are:



Turning e-waste into **e-resources**



Electrical energy access in rural areas to advance education, health and economic development



Promoting **renewable energy, energy storage** and innovative **energy services**



Climate change, energy efficiency and **net-zero emissions**



Leading on trust, inclusion and collaboration

7

Collaborating with partners and stakeholders to enhance sustainable global trade in electrotechnology and increase the use and influence of IEC Standards and CA services



8

Embedding good governance and best practices to strengthen organizational excellence and meet stakeholder needs



9

Building an inclusive, diverse, innovative and agile organization



Gender considerations



Training

To support existing experts



ISO/IEC Collab

To work within different standards developments



Expert(ise)

Experts will bring with them their own consideration of gender



Thank you

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