GSC|22

MONTREUX, SWITZERLAND

IEC ISO

Update from ISO

Montreux, 26th March 2019

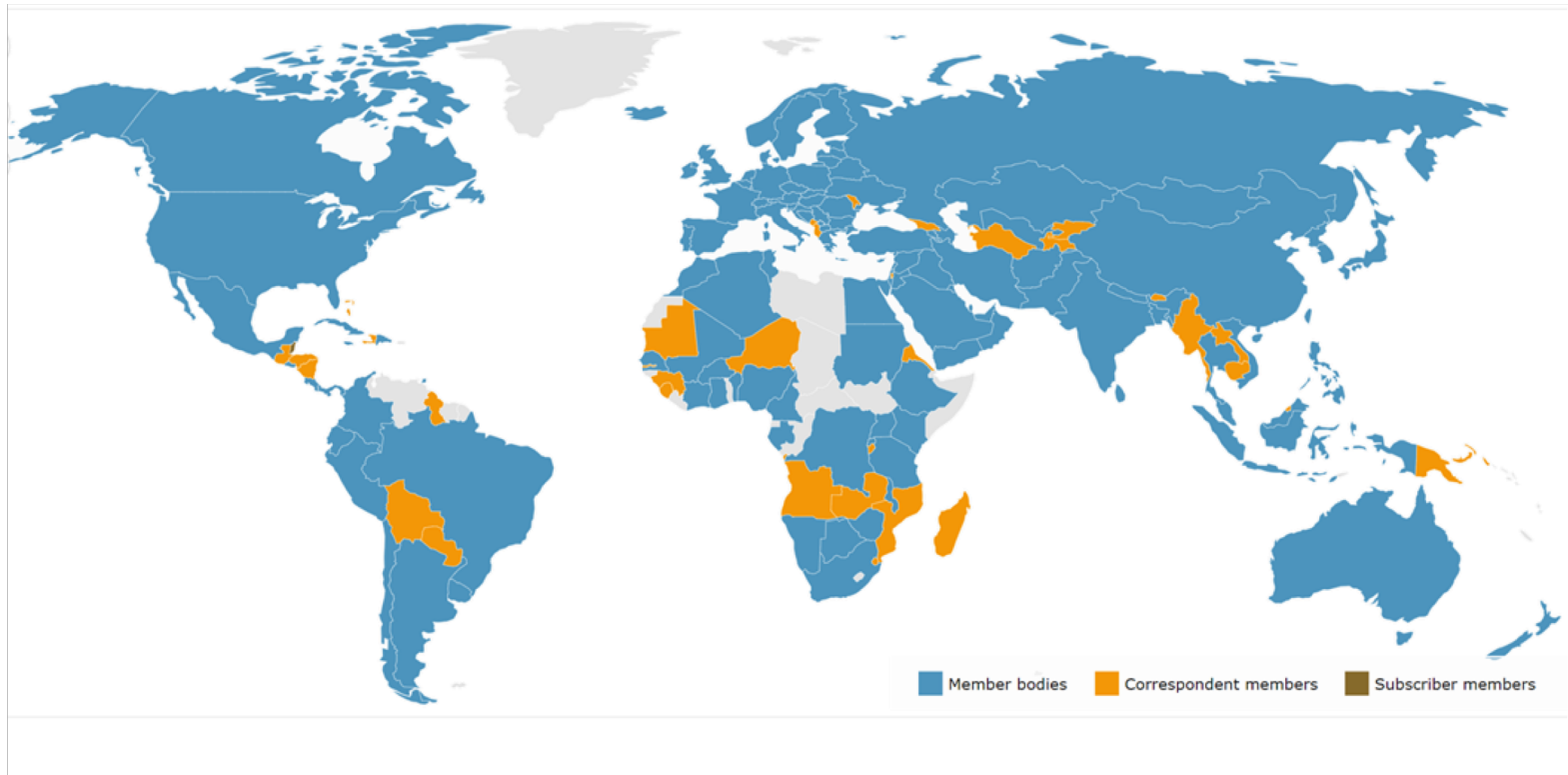**José Alcorta**
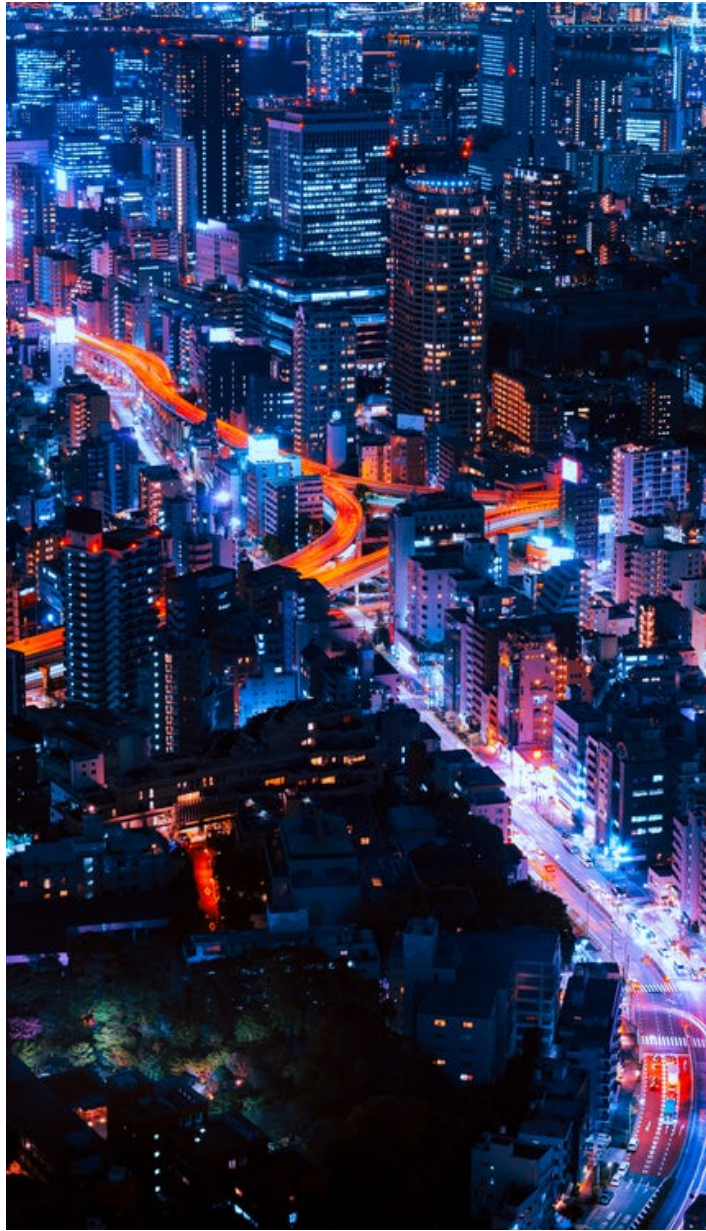Head of Standards Development

• ISO – a global system

ISO EXPERTS

249 active TCs

3 573 technical bodies

4 723 work items under development

Over 745 organizations in liaison

Collection of 22 467 ISO Standards

1 637 standards produced in 2018

ISO Strategy 2016-2020

ISO MEMBERS

162 national members
98% of world GNI
97% of world population

ISO/CS

Central Secretariat in Geneva

152 FTE staff from 26 Countries
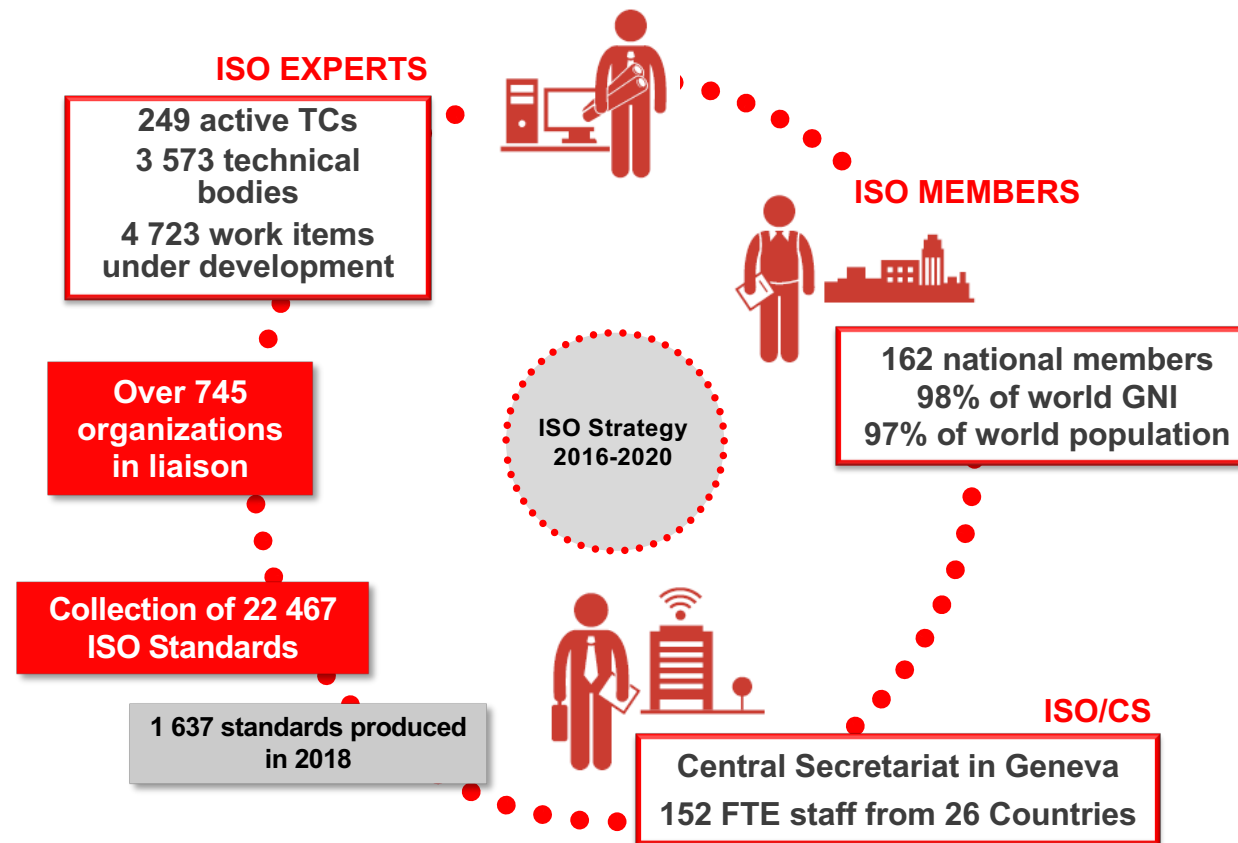
164 members (National Standards Bodies) worldwide

Legend: Member bodies | Correspondent members | Subscriber members

Areas of work

Smart Cities

Creation of the ISO, IEC and ITU Joint Smart Cities Task Force (JSCTF)

Mandate:

• build synergies and minimize overlap on existing ongoing work in ITU, IEC and ISO;

• maximize efforts in order to identify new areas of cooperation;

• develop a holistic view on smart cities and communities taking into consideration

the scope, areas of work and expertise of ITU, IEC and ISO to support smart cities

development;

• prioritize the action items presented above and any future action items that may

arise from any future World Smart Cities Forum;

• oversee the implementation of these action items;

• review the deliverables produced before approval by the governing bodies of each

organization.

Internet of Things

ISO/IEC JTC 1/SC 41 (2017)

Chairman: Francois Coallier

Secretariat: Jooran Lee – KATS (South Korea)

Scope:

Standardization in the area of Internet of Things and related technologies.

- Serve as the focus and proponent for JTC 1's standardization programme on the Internet of Things and related technologies, including Sensor Networks and Wearables technologies.
- Provide guidance to JTC 1, IEC, ISO and other entities developing Internet of Things related applications.

Programme of work

ISO/IEC NP 30165   Internet of Things (IoT) -- Real-time IoT framework

ISO/IEC NP TR 30164   Internet of things (IoT) -- Edge Computing

ISO/IEC NP 30163   Internet of Things (IoT) -- System requirements of IoT/SN technology-based integrated platform for chattel asset monitoring supporting financial services

ISO/IEC NP 30162   Internet of Things (IoT) -- Compatibility requirements and model for devices within industrial IoT systems

ISO/IEC NP 30161   Internet of Things (IoT) -- Requirements of IoT data exchange platform for various IoT services

ISO/IEC NP 30149   Internet of things (IoT) -- Trustworthiness framework

ISO/IEC NP 30147   Information technology -- Internet of things -- Methodology for trustworthiness of IoT system/service

ISO/IEC NP 30144   Information technology -- Sensor network system architecture for power substations

Artifical Intelligence

ISO/IEC JTC 1/SC 42 (2017)

Chairman: Wael Diab

Secretariat: Heather Benko – ANSI (USA)

Scope

Standardization in the area of Artificial Intelligence

- Serve as the focus and proponent for JTC 1's standardization program on Artificial Intelligence
- Provide guidance to JTC 1, IEC, and ISO committees developing Artificial Intelligence applications

ISO/IEC JTC 1/SC 42 is the international standards committee that carries out standardization activities for artificial intelligence.

It is set up as a joint committee between ISO and IEC, within the Joint Technical Committee (JTC) 1.

As the focal point of standardization on AI, SC 42's programme of work looks at the entire AI ecosystem.

Additionally, SC 42 is scoped to provide guidance to ISO and IEC committees developing Artificial Intelligence applications.

Its current program work includes standardization in the areas of foundational AI standards, Big Data, AI trustworthiness, use cases, applications, governance implications of AI, computational approaches of AI, ethical and societal concerns.

Website: https://www.iso.org/committee/6794475.html.

Programme of work

ISO/IEC 20546:2019	Big data -- Overview and vocabulary
ISO/IEC NP 23894	Artificial Intelligence -- Risk Management
ISO/IEC NP 38507	Governance implications of the use of artificial intelligence by organizations
ISO/IEC NP TR 24030	Artificial Intelligence (AI) -- Use cases
ISO/IEC NP TR 24029-1	Artificial Intelligence (AI) -- Assessment of the robustness of neural networks -- Part 1: Overview
ISO/IEC NP TR 24028	Artificial Intelligence (AI -- Overview of trustworthiness in Artificial Intelligence
ISO/IEC NP TR 24027	Artificial Intelligence (AI) -- Bias in AI systems and AI aided decision making
ISO/IEC WD 23053	Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML)
ISO/IEC WD 22989	Artificial intelligence -- Concepts and terminology
ISO/IEC AWI TR 20547-1	Big data reference architecture -- Part 1: Framework and application process
ISO/IEC DIS 20547-3	Big data reference architecture -- Part 3: Reference architecture

Cybersecurity

ISO/IEC JTC 1/SC 27 IT Security techniques (1989)

Chairman: Andreas Wolf

Secretariat: Krystyna Passia - DIN (Germany)

Scope:

The development of standards for the protection of information and ICT. This includes generic methods, techniques and guidelines to address both security and privacy aspects, such as:

- Security requirements capture methodology;
- Management of information and ICT security; in particular information security management systems, security processes, and security controls and services;
- Cryptographic and other security mechanisms, including but not limited to mechanisms for protecting the accountability, availability, integrity and confidentiality of information;
- Security management support documentation including terminology, guidelines as well as procedures for the registration of security components;
- Security aspects of identity management, biometrics and privacy;
- Conformance assessment, accreditation and auditing requirements in the area of information security management systems;
- Security evaluation criteria and methodology.

Programme of work

ISO/IEC NP 27071   Security recommendations for establishing trusted connection between device and service

ISO/IEC NP 24036   Secure management and preservation of documents through digital systems -- Certified mail

ISO/IEC DIS 30111   Security techniques -- Vulnerability handling processes

ISO/IEC CD 15408   (5 parts) Security techniques -- Evaluation criteria for IT security

ISO/IEC WD TS 27570 Security Techniques -- Privacy guidelines for Smart Cities

ISO/IEC DIS 27102   Security techniques -- Information security management guidelines for cyber insurance

ISO/IEC WD TS 27101 Cybersecurity -- Framework development guidelines

ISO/IEC WD TS 27100 Cybersecurity -- Overview and concepts

ISO/IEC WD 27032   Cybersecurity -- Guidelines for Internet Security

ISO/IEC WD 27002   Security techniques -- Code of practice for information security controls

THANK YOU!!