



WFEO / FMOI



**International Standards Organisation (ISO)  
Information Webinar for WFEO  
representation on ISO Technical  
Committees**



***Dr. Marlene Kanga AO FTSE FREng  
WFEO President 2017-19***

***22 November 2023***

[www.wfeo.org](http://www.wfeo.org)

About Dr Marlene Kanga AO FTSE (Aus) FEng (UK) Hon. FIE(Aust) FICHEME (UK)

A transformational leader of large organisations in science and engineering in Australia and internationally, **recognised with Australian national honour, Order of Australia (AO). Fellow of the Academies of Engineering: Australia, UK and ASEAN.**

#### Professional Organisations:

- President, World Federation of Engineering Organizations, 2017- 2019
- Vice President International Network for Women Engineers and Scientists, 2011-2017
- National President Engineers Australia, 2013
- Foundation Fellow, International Science Council
- Co-Chair Australian government ELEVATE project, Australian Academy for Technology and Engineering
- Chair, Institution of Chemical Engineers Safety Centre, advancing process safety engineering globally

#### Business:

- Non-Executive Director and board member of organisations in the public, private and not-for-profit sectors
- Non-executive director and board member: Airservices Australia, Endeavour Energy, Standards Australia, Business Events Sydney, and formerly Innovation Australia (2013-2019), Sydney Water Corporation (2017-Feb 2023)
- Non-executive director and board member: start-ups, collaborative research centres and innovation networks, translating research to commercial outcomes in information technology, health and energy sectors

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## Topics for Today's Presentation

1. What is a Standard? What is an International standard?
2. Who is ISO?
3. What is the relationship between WFEO and ISO?
4. What are the principles of developing a standard?
5. How does the governance and structure of ISO compare with WFEO?
6. Benefit of being a WFEO nominated representative to an ISO Committee



1. What is a Standard? What is an International standard?



# What is a Standard?

- Standards are an agreed way of doing things, usually by experts.
- ISO standards are internationally agreed by experts and describe the best way of doing something - product, process, service or materials.
- Standards are the distilled wisdom of people subject matter experts
- For instance,
- [Quality management standards](#) to help work more efficiently and reduce product failures.
- [Environmental management standards](#) to help reduce environmental impacts, reduce waste and be more sustainable.
- [Health and safety standards](#) to help reduce accidents in the workplace.
- [Energy management standards](#) to help cut energy consumption.
- [Food safety standards](#) to help prevent food from being contaminated.
- [IT security standards](#) to help keep sensitive information secure.



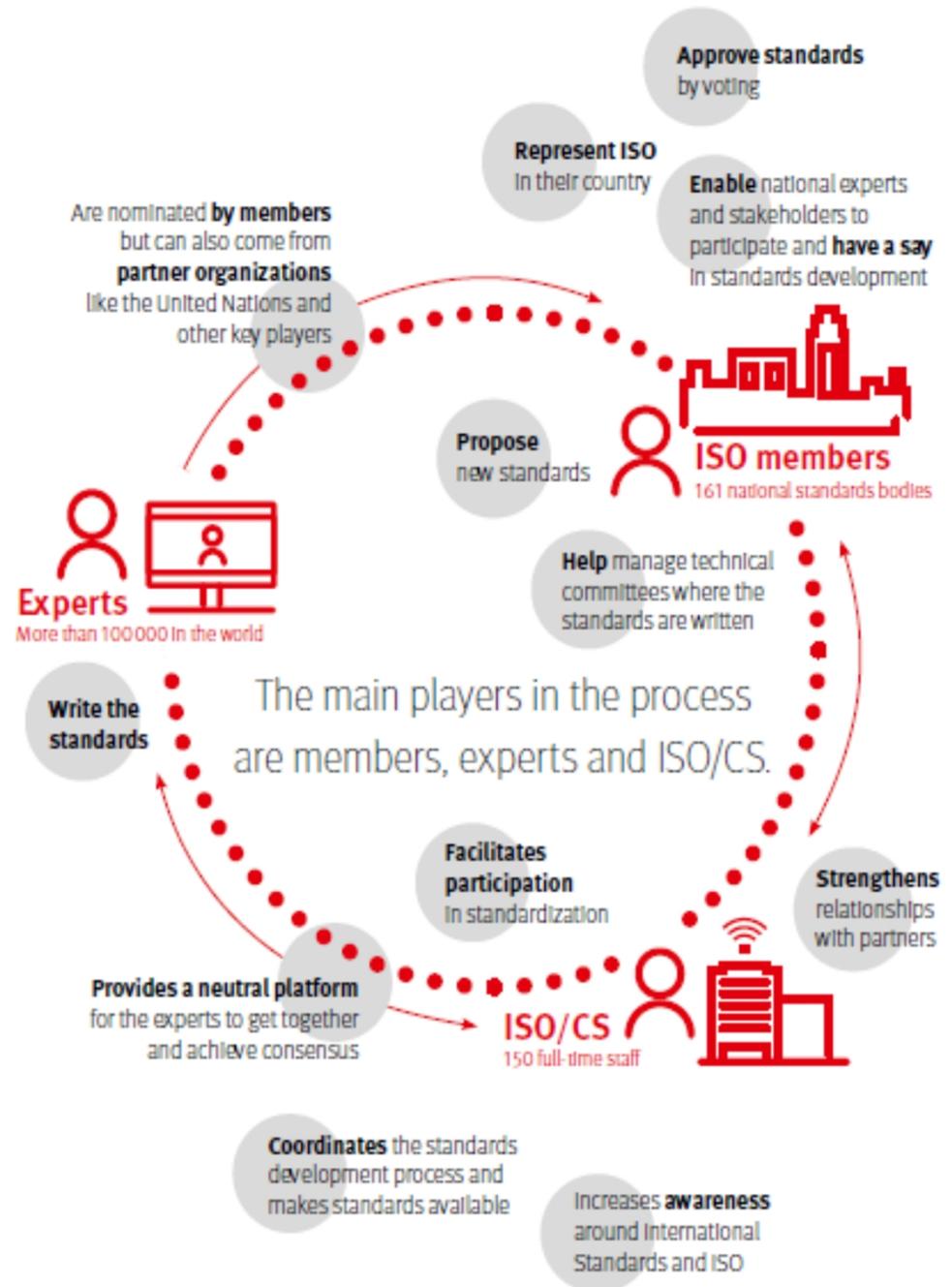
# What is an international standard ?

An International Standard is a document containing practical information and best practice.

It often describes an agreed way of doing something or a solution to a global problem.

It is developed by consensus

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## 2. Who is ISO?



# International Standards Organisation (ISO)

## - Membership

- ISO is a global network of national standards bodies. Members are the foremost standards organizations in each country
- There is only one member per country. Each member represents ISO in its country.
- Individuals or companies cannot become ISO members.
- There are three member categories.
  - **Full members (or member bodies)** influence ISO standards development and strategy by participating and voting in ISO technical and policy meetings. Full members sell and adopt ISO International Standards nationally.
  - **Correspondent members** observe the development of ISO standards and strategy by attending ISO technical and policy meetings as observers. Correspondent members that are national entities sell and adopt ISO International Standards nationally.
  - **Subscriber members** keep up to date on ISO's work but cannot participate in it. They do not sell or adopt ISO International Standards nationally.



# International Standards Organisation (ISO)

- Independent, non-governmental organization
- Global network of national standards bodies with one member per country
- Not for profit : selling standards allows standards development in a neutral environment
- ISO provides a platform for developing practical tools through common understanding and cooperation with all stakeholders.

164\* members

22500\*  
International Standards

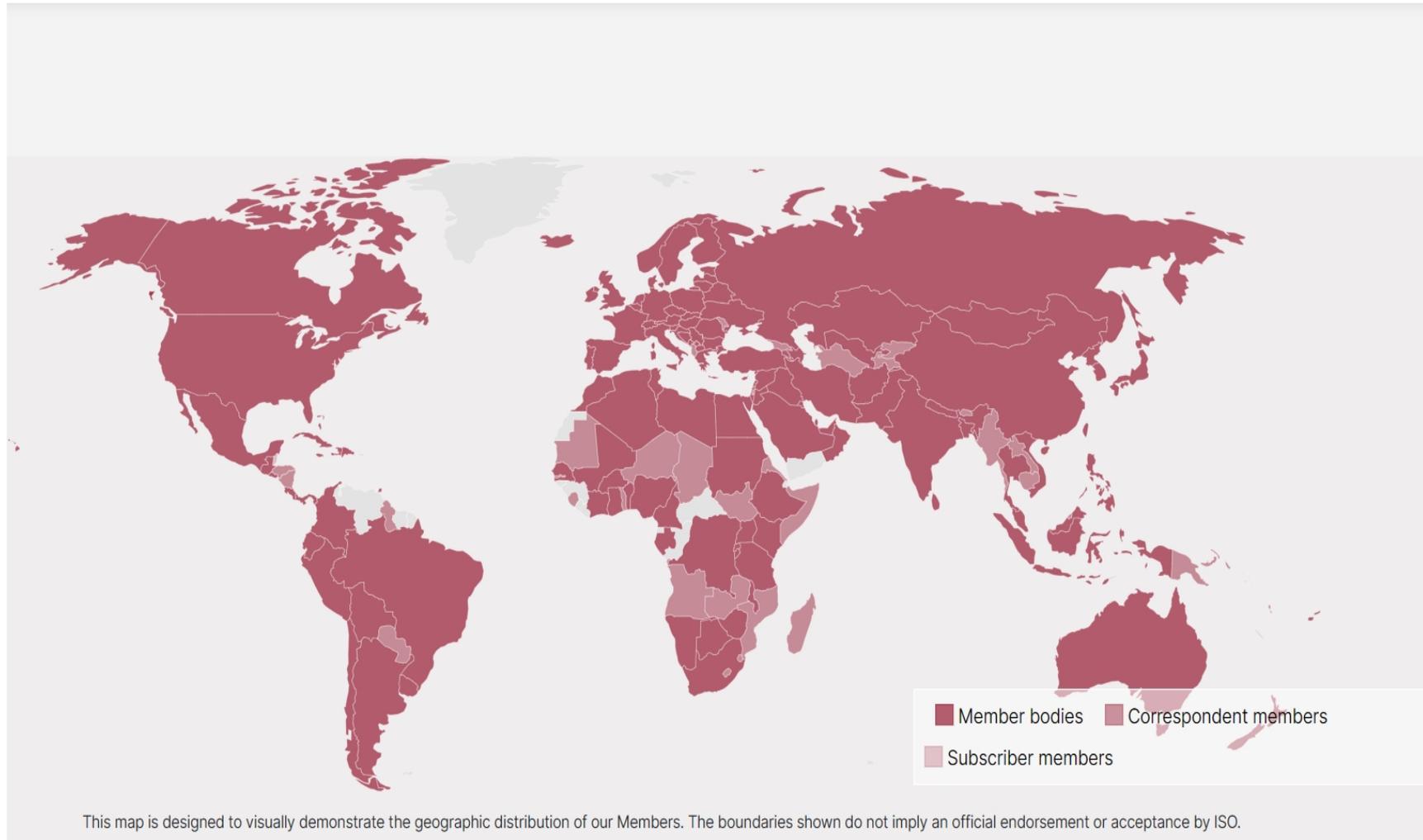
100  
new standards each month

249\*  
technical committees

\*AS AT JUNE 2020



# International Standards Organisation (ISO)



List of 169 ISO Members: [ISO - Members](#)

\*AS AT November 2023

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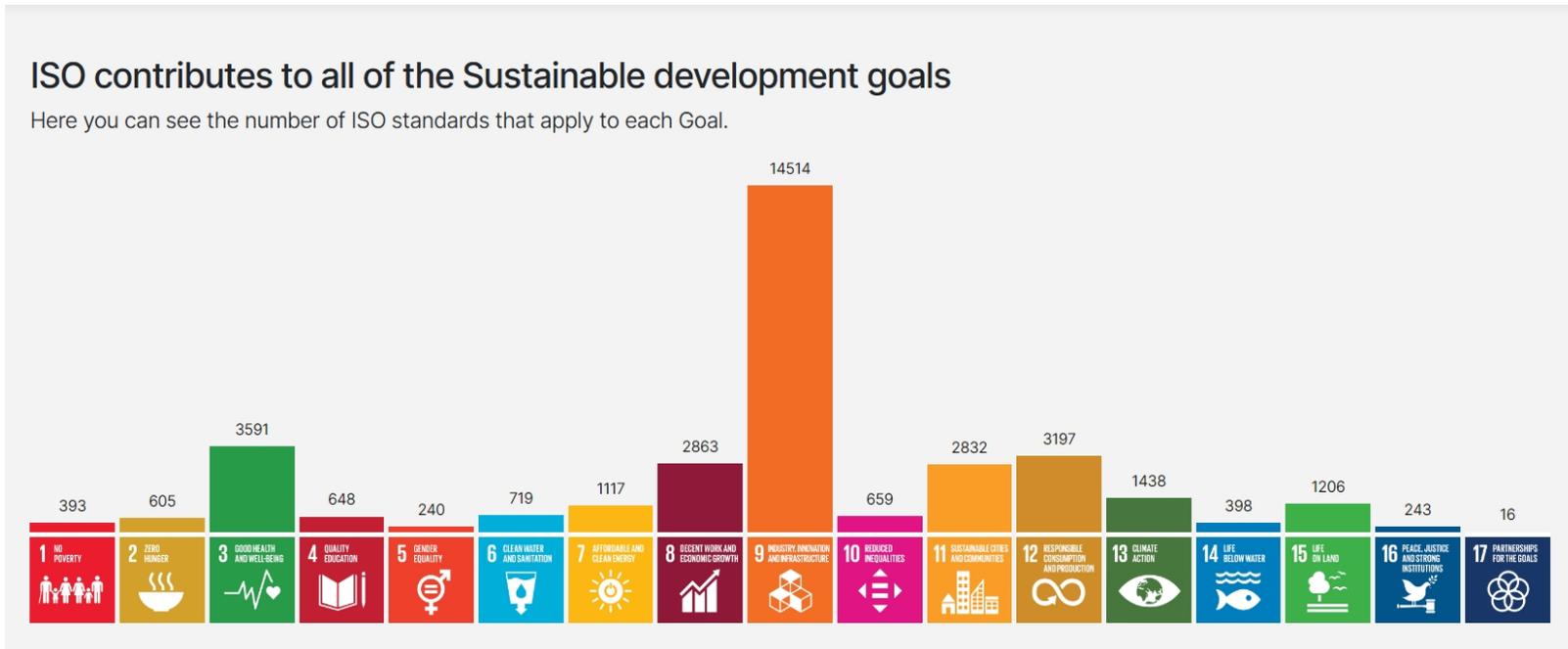


# How does ISO work?

WFEO Representatives on ISO Technical Committees have an important role in providing the expert view from their country, especially where there is no national member of ISO



# International Standards Organisation (ISO) and the UN Sustainable Development Goals



ISO Standards that apply to each of the UN Sustainable Development Goals, see: [Contributing to the Sustainable Development Goals with ISO standards](#)



# ISO Partners

- ISO works closely with two other international standards development organizations, the [International Electrotechnical Commission](#) (IEC) and [International Telecommunication Union](#) (ITU).
- In 2001, ISO, IEC and ITU formed the [World Standards Cooperation](#) (WSC) in order to strengthen the standards systems of the three organizations.
- ISO works closely with the World Trade Organization (WTO), to reducing technical barriers to trade.
- ISO also works with United Nations (UN) partners including the UN Economic and Social Council (ECOSOC).
- ISO collaborates with over 700 international, regional and national organizations, including WFEO



## Topics for Today's Presentation

3. What is the relationship between WFEO and ISO?

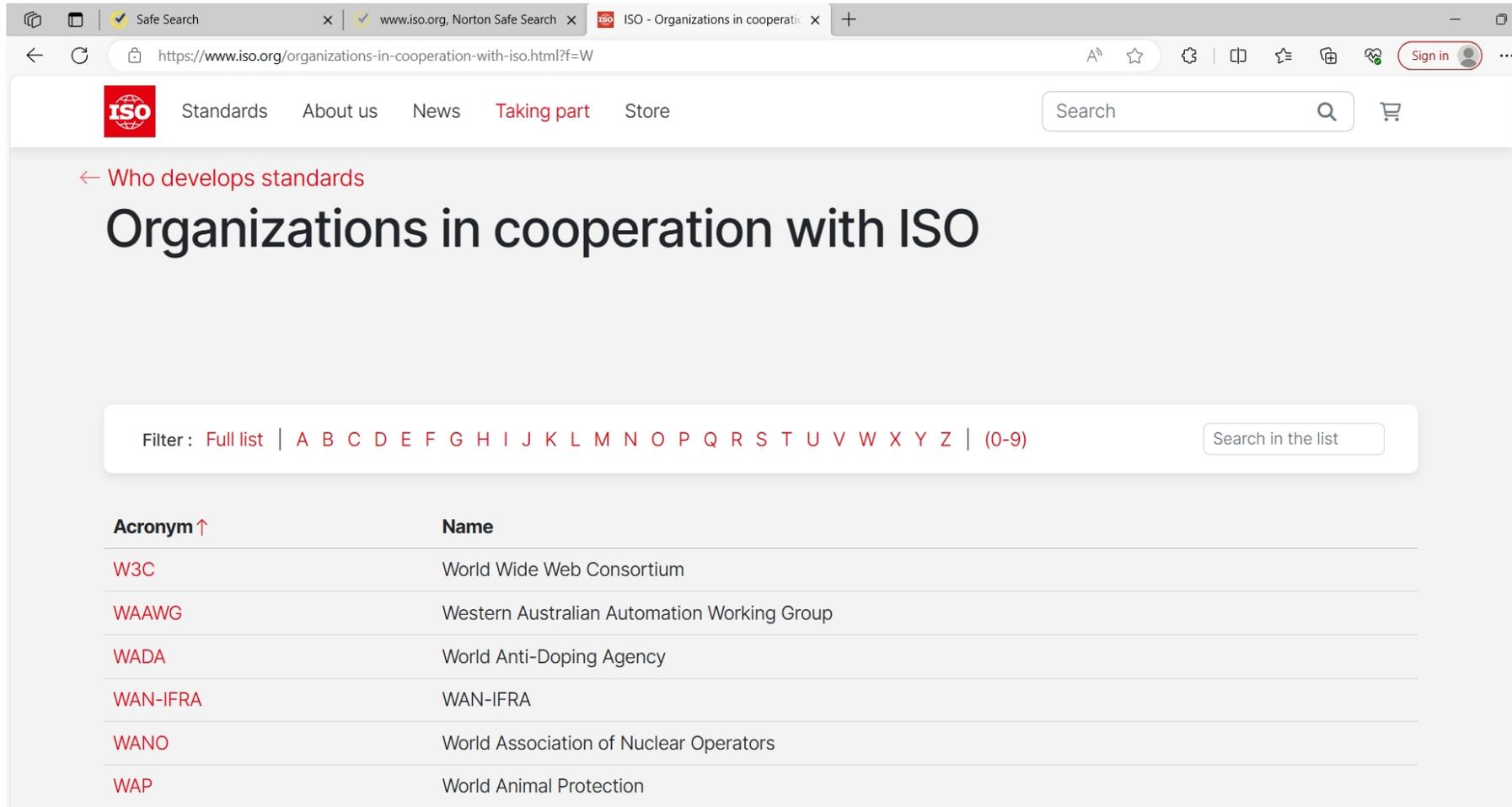


# Liaison Organisations that Cooperate with ISO

- **WFEO is a Category A Liaison Organisation**
- **Category A Liaison:** Organizations that make an effective contribution to the work of the technical committee or subcommittee for questions dealt with by this technical committee or subcommittee. **Representatives provide comment but have no vote.**
- **Category B Liaison:** Organizations that have indicated a wish to be kept informed of the work of the technical committee or subcommittee.
- **Category C Liaison:** Organizations that make a technical contribution to and participate actively in the work of a working group, i.e. not at a technical committee level.



# Organisations that Cooperate with ISO



The screenshot shows a web browser window displaying the ISO website. The URL is <https://www.iso.org/organizations-in-cooperation-with-iso.html?f=W>. The page features the ISO logo and navigation links: Standards, About us, News, Taking part, and Store. A search bar is located in the top right corner. Below the navigation, there is a breadcrumb link: ← Who develops standards. The main heading is "Organizations in cooperation with ISO". A filter bar shows "Filter : Full list | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | (0-9)" and a "Search in the list" button. The main content is a table with two columns: "Acronym ↑" and "Name".

Acronym ↑	Name
W3C	World Wide Web Consortium
WAAWG	Western Australian Automation Working Group
WADA	World Anti-Doping Agency
WAN-IFRA	WAN-IFRA
WANO	World Association of Nuclear Operators
WAP	World Animal Protection

[ISO - Organizations in cooperation with ISO](https://www.iso.org/organizations-in-cooperation-with-iso.html)

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# WFEO Collaboration with ISO

← Organizations in cooperation with ISO

## WFEO

### World Federation of Engineering Organizations

Maison de l'UNESCO  
1, rue Miolis  
F-75015 Paris  
France

Tel: + 33(0)1 45 68 48 46  
Fax: + 33(0)1 45 68 48 65  
E-mail: [kamelayyadi@gmail.com](mailto:kamelayyadi@gmail.com)  
Website: [www.wfeo.net](http://www.wfeo.net)

#### Liaisons

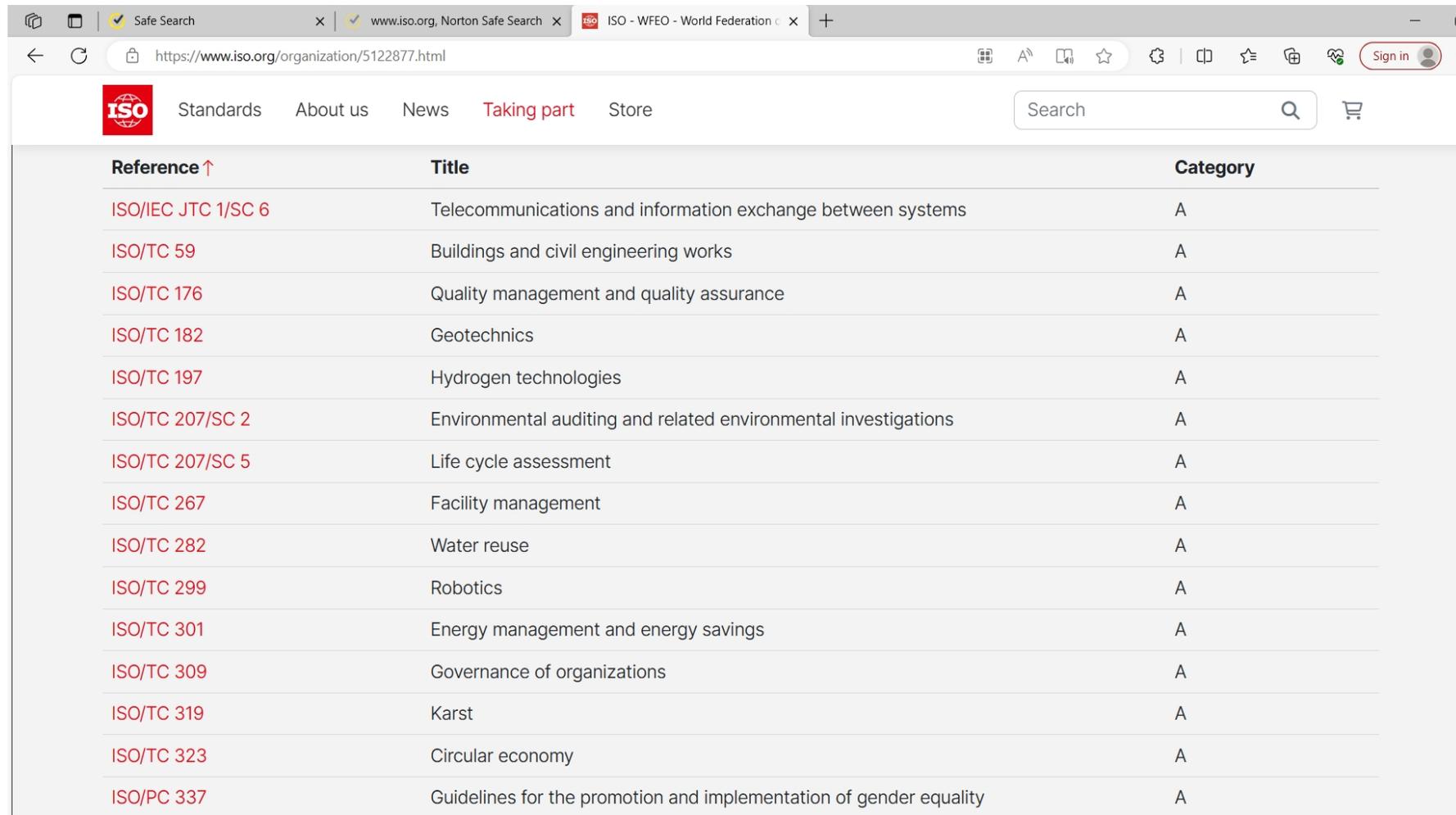
Total number of liaisons: 15   A liaisons: 15   B liaisons: 0   C liaisons: 0

[ISO - WFEO - World Federation of Engineering Organizations](https://www.iso.org/organization/5122877.html)

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# WFEO Representation on ISO Technical Committees



The screenshot shows a web browser displaying the ISO website page for WFEO representation on technical committees. The page features a navigation menu with 'Standards', 'About us', 'News', 'Taking part', and 'Store'. A search bar is located on the right. The main content is a table with three columns: Reference, Title, and Category. The table lists 15 technical committees, all with a category of 'A'.

Reference ↑	Title	Category
<a href="#">ISO/IEC JTC 1/SC 6</a>	Telecommunications and information exchange between systems	A
<a href="#">ISO/TC 59</a>	Buildings and civil engineering works	A
<a href="#">ISO/TC 176</a>	Quality management and quality assurance	A
<a href="#">ISO/TC 182</a>	Geotechnics	A
<a href="#">ISO/TC 197</a>	Hydrogen technologies	A
<a href="#">ISO/TC 207/SC 2</a>	Environmental auditing and related environmental investigations	A
<a href="#">ISO/TC 207/SC 5</a>	Life cycle assessment	A
<a href="#">ISO/TC 267</a>	Facility management	A
<a href="#">ISO/TC 282</a>	Water reuse	A
<a href="#">ISO/TC 299</a>	Robotics	A
<a href="#">ISO/TC 301</a>	Energy management and energy savings	A
<a href="#">ISO/TC 309</a>	Governance of organizations	A
<a href="#">ISO/TC 319</a>	Karst	A
<a href="#">ISO/TC 323</a>	Circular economy	A
<a href="#">ISO/PC 337</a>	Guidelines for the promotion and implementation of gender equality	A



## Topics for Today's Presentation

4. What are the principles of developing a standard?



# Principles for developing an ISO standard

WFEO  
Representatives have a key role in providing feedback

1. **Respond to a need in the market:** ISO responds to a request from industry or other stakeholders that communicates the need for a standard to its national member who then contacts ISO.
2. **Based on global expert opinion:** ISO standards are developed by groups of experts from all over the world, that are part of larger groups called technical committees. These experts negotiate all aspects of the standard, including its scope, key definitions and content.
3. **Developed through a multi-stakeholder process:** The technical committees are made up of experts from the relevant industry, consumer associations, academia, **NGOs** and government.
4. **Based on a consensus:** Developing ISO standards is a consensus-based approach and comments from all stakeholders are taken into account.
5. Technical Committee are established for each topics for a standard. Members are subject matter experts, nominated by ISO's national members.
6. NGOs like WFEO, nominate non-voting representatives to Technical Committees.



# WFEO Representatives on ISO Technical Committees

- **WFEO Representatives should participate in one Technical Committee where they have significant expertise**
- **Participation in multiple Technical Committees is not recommended due to significant work loads.**
- **Representatives have an important role representing the global engineering community at an ISO Technical Committee.**
- **Timely contributions are recommended and highly valued.**
- **Technical Committees can vote to remove a liaison representative that does not contribute.**



# WFEO Cooperation in TC 309

https://www.iso.org/committee/6266703.html

ISO Standards About us News Taking part Store

## ISO/TC 309

### Governance of organizations

Note each Technical Committee is hosted by a National Member of ISO. In this case the British Standards Institute (BSI), at their own cost.

#### About

Secretariat: **BSI**  
Committee Manager: **Mr Mike Henigan**

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Chairperson (until end 2025): Mr Kevin Brear  
Vice chairperson (until end 2023): Dr Axel Kravatzky

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ISO Technical Programme Manager [TPM]: **Ms Monja Korter**  
ISO Editorial Manager [EM]: **Ms Jessica Navarria**

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Creation date: 2016

**ISO/TC 309**  
Visit the technical committee's own Website for more information.



# ISO TC 309 – Committed to Sustainable Development



This committee contributes with 15 standards to the following Sustainable Development Goals:



**6**

Published ISO standards \*

**9**

ISO standards under development \*

**59**

Participating members

**26**

Observing members



# ISO TC 309 – Working Groups

Reference ↑	Title	Type
ISO/TC 309/AG 1 ⓘ	Communications and Engagement	Working group
ISO/TC 309/AHG 6 ⓘ	Ad Hoc Group ESG and Climate Change Coordination	Working group
ISO/TC 309/CAG 1 ⓘ	Chair's Advisory Group	Working group
ISO/TC 309/DCCG ⓘ	Developing Countries Co-ordination Group	Working group
ISO/TC 309/STTF ⓘ	Spanish translation task force	Working group
ISO/TC 309/TG 6 ⓘ	Terminology Co-ordination	Working group
ISO/TC 309/WG 1 ⓘ	Guidance for the governance of organizations	Working group
ISO/TC 309/WG 2 ⓘ	Anti-bribery management systems	Working group
ISO/TC 309/WG 4 ⓘ	Compliance management systems	Working group
ISO/TC 309/WG 6 ⓘ	Governance maturity model	Working group
ISO/TC 309/WG 7 ⓘ	Internal investigations	Working group
ISO/TC 309/WG 8	Fraud controls	Working group
ISO/TC 309/WG 9 ⓘ	Conflict of Interest	Working group
ISO/TC 309/WG 10 ⓘ	Human trafficking, forced labour, and modern slavery	Working group



# ISO TC 309 – Standards published

Related information	Standards
 <p><b>ISO 37001 — Anti-bribery management systems</b> Prevent, detect and address bribery.</p>	<b>ISO 37000:2021</b> Governance of organizations Guidance
 <p><b>ISO 37001:2016 Anti-bribery management systems</b> <b>A practical guide</b> Published jointly by ISO and UNIDO, this handbook helps users put in place an effective anti-bribery management system in accordance with ISO 37001:2016.</p>	<b>ISO 37001:2016</b> Anti-bribery management systems Requirements with guidance for use
 <p><b>ISO 37001 Anti-bribery management systems</b> This free brochure gives an overview of the standard and how it can impact your business.</p>	<b>ISO 37002:2021</b> Whistleblowing management systems Guidelines
	<b>Committees</b> <b>ISO/TC 309</b> Governance of organizations

- **Working Group 1 (WG1) - ISO 37000 Governance of Organisations and Guidance for the Governance of Organizations.**
- **Working Group 2 (WG2) ISO 37001 Anti-bribery Management Systems and Handbook.**
- **Working Group 3 (WG3) ISO 37002 Whistleblowing Management Systems**
- **Working Group 4 (WG4) ISO 37301 Compliance Management Systems**



# ISO TC 309 –Liaison Organisations

## Organizations in liaison (Category A and B)

Acronym ↑	Title	Category
ACCA	Association of Chartered Certified Accountants	A
ACI_	Association of Corporate Investigators	A
EBRD	European Bank for Reconstruction and Development	A
ECI	Ethics & Compliance Initiative	A
ecoDa	European Confederation of Directors Association	A
ETUC	European Trade Union Confederation	A
FIEC	European Construction Industry Federation	A
Govern for Impact	International Policy Governance Association	A
IBE	Institute of Business Ethics	A
ICDPASO	International Commercial Dispute Prevention and Settlement Organization	A
ICGN	International Corporate Governance Network	A
IFC	International Finance Corporation	A
IFCA	International Federation of Compliance Associations	A
IIA	The Institute of Internal Auditors	A
IIOA	Independent International Organisation for Assurance	A
IIRC	International Integrated Reporting Council	A
IRM	The Institute of Risk Management	A
OAS	Organization of American States	A
OECD	Organisation for Economic Co-operation and Development, OECD	A
RIMS	The Risk Management Society	A
SVI	Social Value International	A
The CQI	The Chartered Quality Institute	A
Transparency International	Transparency International	A
UNCTAD	United Nations Conference on Trade and Development	A
WBCSD	World Business Council for Sustainable Development	A
WFEO	World Federation of Engineering Organizations	A
WIN	Worldwide independent network	A



# Work of TC 309 aligns with WFEO Committee for Anti-Corruption

The main mission of the Committee on Anti-Corruption is to provide advice and guideline for WFEO member organizations on how to develop local strategies to encourage engineers to play a proactive role in the fight against corruption

WFEO-CAC

← Society

## Combatting corruption with ISO standards

Today, 9 December, is International Anti-Corruption Day, and an opportunity to raise awareness of the ISO standards that help shape a fairer and more just world.

🕒 4 minutes to read



The work of ISO Technical Committees aligns well with the objectives of WFEO Standing Technical Committees and Policy Implementation Committees.  
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# ISO DIS 37000 Commenting Form

<b>WFEO Member Comment Form</b> <b>Draft International Standard Governance of Organisations DIS 37000</b>				Date: 1 July 2020	Document: <b>ISO DIS 37000</b> Comments due no later than <b>15<sup>th</sup> August 2020</b>	Project: TC309 WG1
Name: Institution/Organisation: Country						
Page Number	Line number (e.g. 17)	Clause/ Sub clause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Comments	Suggested change	



# Procedure to nominate representatives to ISO Technical Committees (1)

- There are more than two hundred ISO Technical Committees. Explore the ISO website and find the area where you are an expert as a representative. See: [ISO - Technical Committees](#)
- Contact the National Member of WFEO to nominate you.
- National or Affiliate members can nominate representatives to any ISO Technical Committee.
- There is no limit to the number of committees that can have representatives from WFEO.
- It is highly recommended that an individual representatives is nominated to one technical committee only because within the technical committee there are many working groups and the work load can multiply.
- There is a significant work load to make an effective contribution.
- Members must ensure that the representative is a technical expert in the field of work of the committee.



# Procedure to nominate representatives to ISO Technical Committees (2)

- The representative can contribute independently as an expert.
- However multiple WFEO representatives to the same Technical Committee should collaborate at least when preparing the annual liaison report for the plenary meeting of the Technical Committee.
- Individual representatives have to fund their own travel and other costs in attending Technical Committee meetings.
- For nomination to an ISO Technical Committee, a CV with a nomination letter signed by the CEO, Executive Director or President of the Member should be provided to the WFEO Secretariat.
- The WFEO Secretariat will advise the ISO Central Secretariat who will advise the Technical Committee Secretariat of the nomination (usually a ISO National Member).
- The Technical Committee votes to approve the nomination. The Technical Committee can also vote to remove a representative due to lack of contribution.
- A liaison representative report is required by the technical committee annually, at its plenary meeting.
- This report should also be provided to the nominating member who should provide it to the WFEO Secretariat.

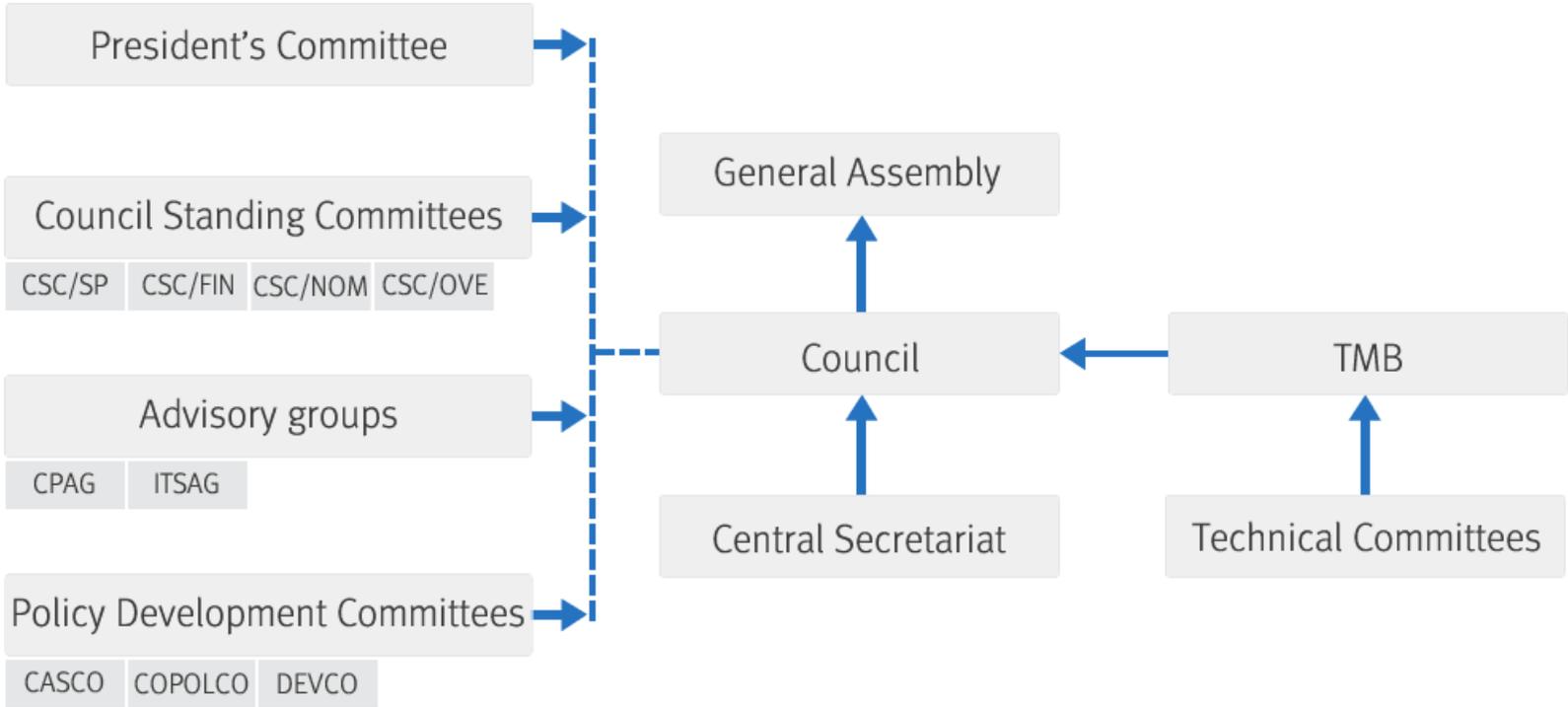


## Topics for Today's Presentation

5. How does the governance and structure of ISO compare with WFEO?



# ISO Governance Structure is similar to WFEO



# ISO Governance

- **The General Assembly:** is the overarching organ and ultimate authority of the organization. It is an annual meeting attended by our members and our Principal Officers. It elects the members of the ISO Council.
- **The ISO Council :** is elected by and reports to the General Assembly. It meets three times a year and is made up of 20 member bodies, the ISO Officers and the Chairs of the Policy Development Committees CASCO, COPOLCO and DEVCO. Council members are elected by region to ensure global representation.
- **The President's Committee** advises Council on matters decided by Council.
- **Council Standing Committees** address finance (CSC/FIN), strategy and policy (CSC/SP), nominations for governance positions (CSC/NOM), and have oversight over the organization's governance practices (CSC/OVE).



# ISO Governance



President's address, ISO General Assembly 21 Sept 2023, Brisbane



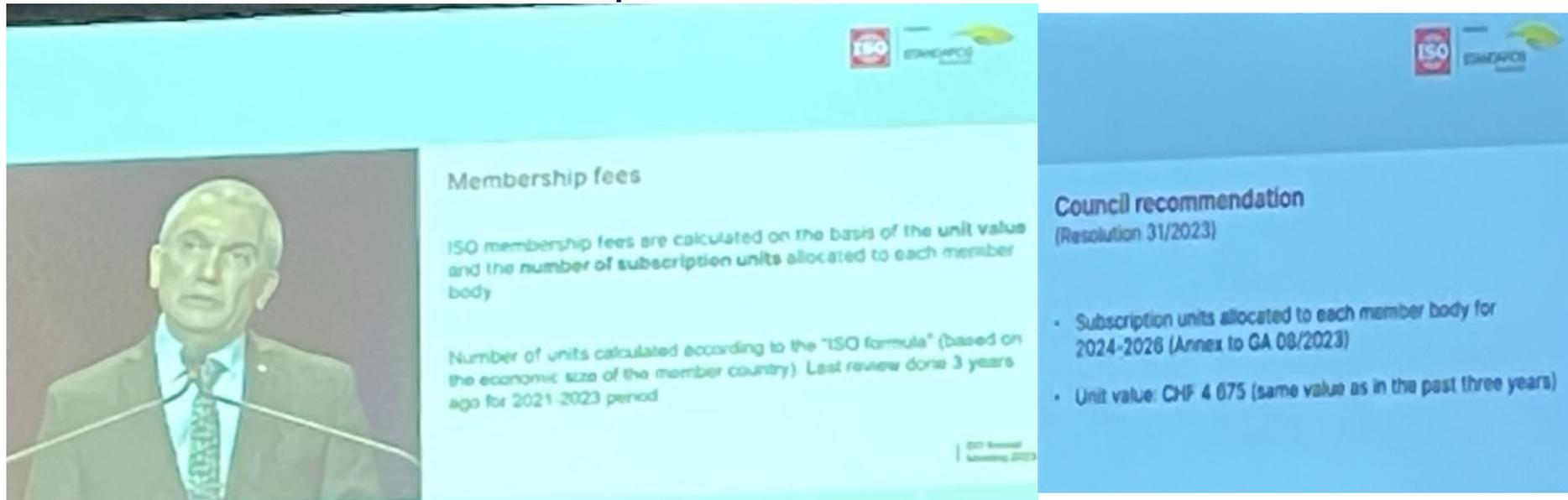
ISO General Assembly: National Member



ISO General Assembly:  
Partner Organizations



# ISO Membership Fees

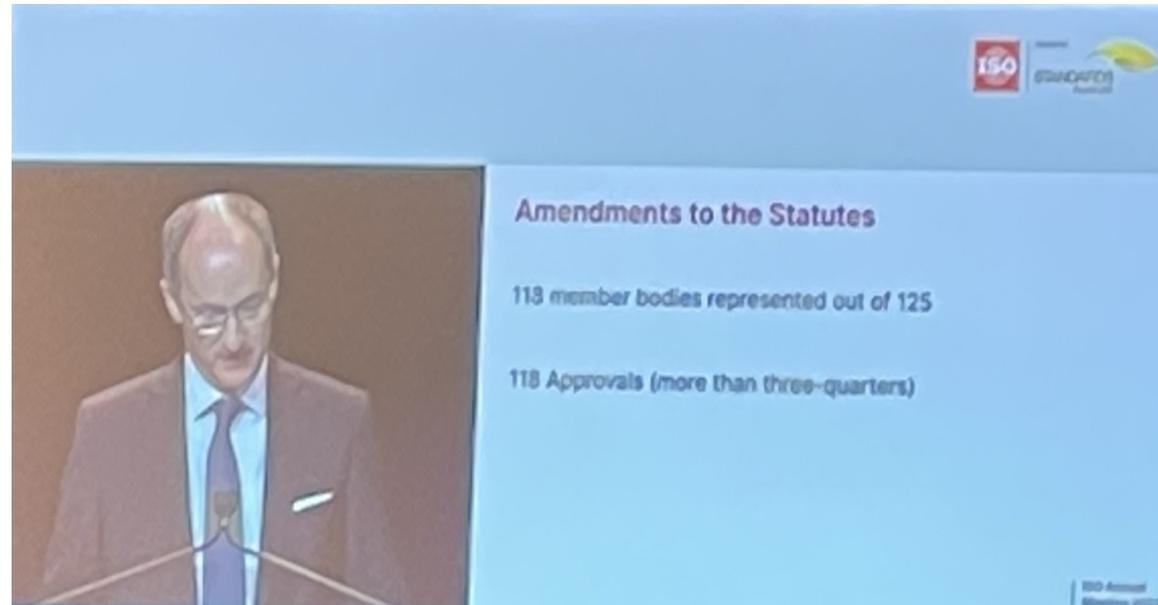


ISO General Assembly 21 Sept 2023, Brisbane

- **Membership fees are calculated on the basis of the unit value and the number of subscription units allocated to each member body.**
- **Number of units is calculated according to ISO formula (based on the economic size of the member country)**
- **General Assembly Resolution: Approve Membership Fees for 2023-2026. Unit Value of CHF 4,675**



# ISO General Assembly Approval: Amendment to Statutes

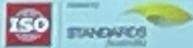


ISO General Assembly 21 Sept 2023, Brisbane

- **General Assembly approves amendments to the ISO Statutes (Constitution)**



# ISO General Assembly Approval: Election to ISO Council



**Council – Group 3: two seats**

Candidates	Votes
CTRM (Kazakhstan)	5
SASO (Saudi Arabia)	48
SII (Israel)	19
SN (Norway)	45
SSC (Singapore)	75
STAMEQ (Viet Nam)	15

## Draft Resolution

The General Assembly elects the following five Council members for the 2024-2026 term:

Group 2	Group 3	Group 4
KATS (Korea, Republic of)	SASO (Saudi Arabia)	BBSQ (Bahamas)
	SSC (Singapore)	INNORPI (Tunisia)

ISO General Assembly 21 Sept 2023, Brisbane

- Election of representatives to ISO Council in groups to ensure adequate global representation.
- The names of the National Member is shown.
- General Assembly approves the results of elections to the ISO Council



## Topics for Today's Presentation

6. Benefit of being a WFEO nominated representative to an ISO Committee



# Participation as a WFEO nominated representatives benefits everyone

- ISO welcomes participation by WFEO nominated representatives especially from countries where there is no ISO national member
- WFEO recognition as a Category A Liaison organization is an important partnership with ISO
- Participation gives WFEO and engineers more visibility in contributing to solutions to global issues
- Participation adds value to being a national or affiliate member of WFEO
- The representative is also representing their country and the WFEO member and this is a source of pride for the country.
- For more information on ISO: [ISO - Standards](#)





## *Engineering* for Sustainable Development

- Participation
- Influence
- Representation



The world's engineers  
united in rising to  
**the world's challenges.**  
For a better, sustainable  
world.



WFEO / FMOI



## The World Federation of Engineering Organizations

Fédération Mondiale des Organisations d'Ingénieurs

[www.wfeo.org](http://www.wfeo.org)

[info@wfeo.org](mailto:info@wfeo.org)

@wfeo