IEC/ISO/ITU-T Standardization Programme Coordination Group (SPCG)
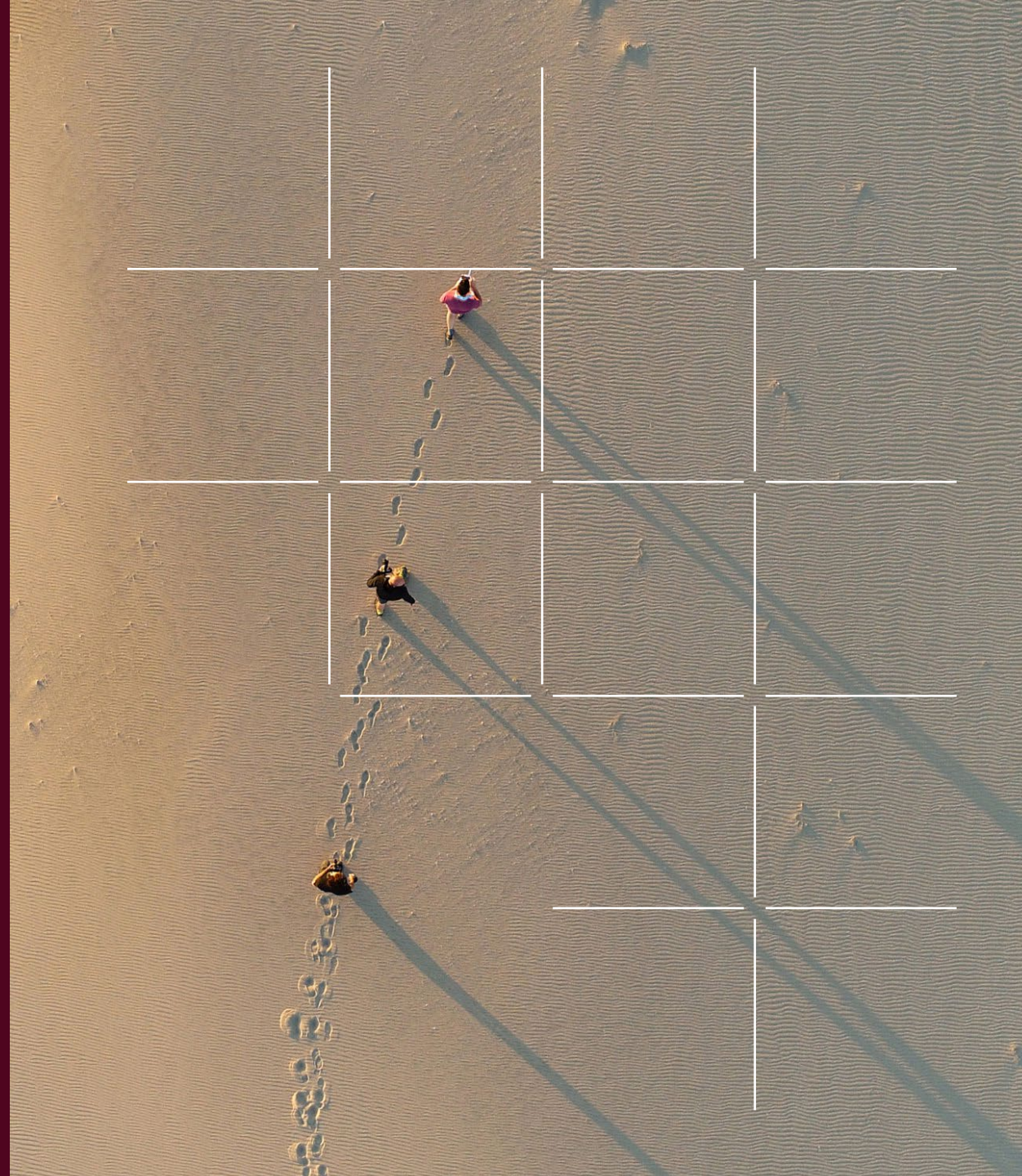
2023/07/03

Welcome

Christian Gabriel, SPCG Chair, 2023-2024

Content
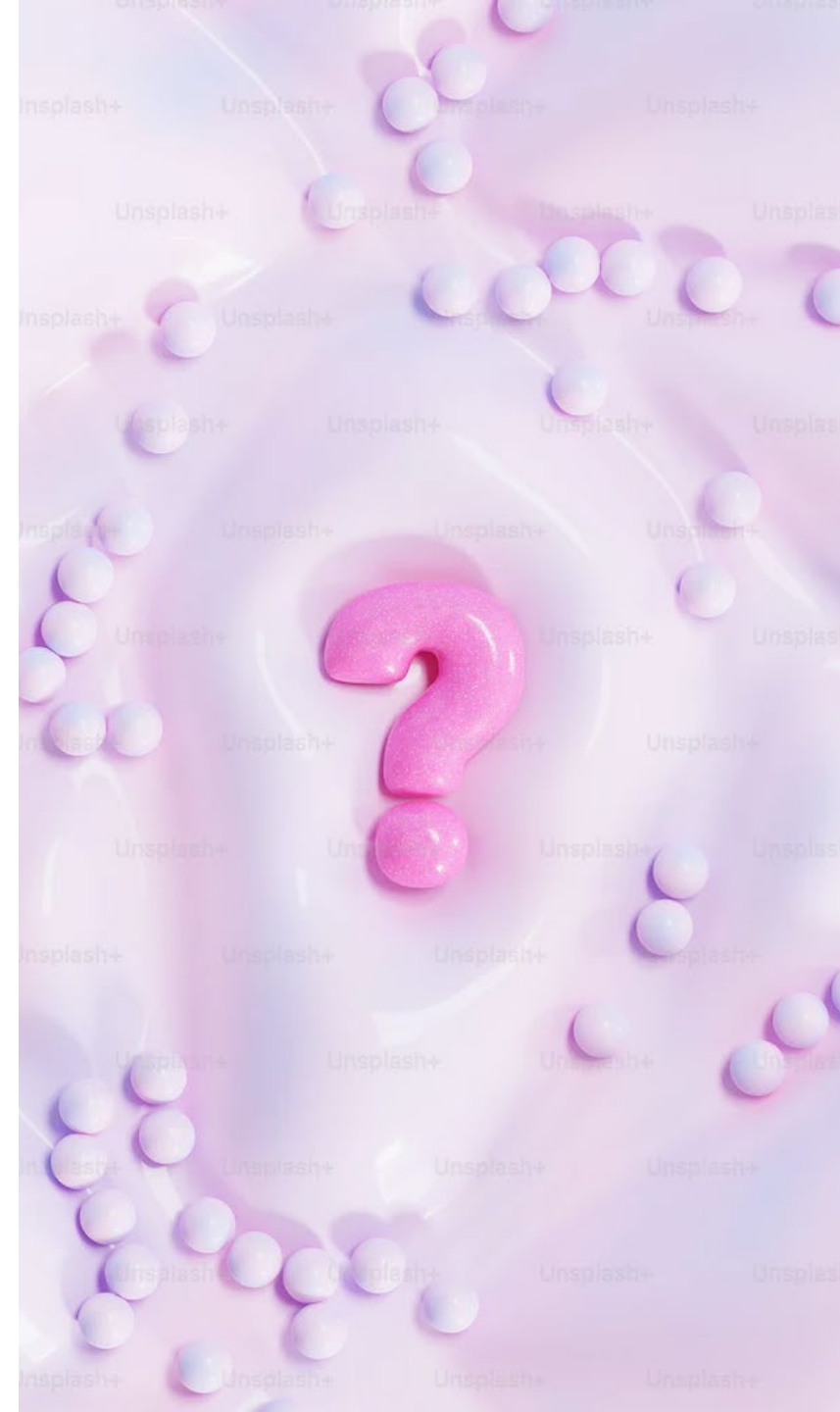
We want to know...

1. What is your level of understanding of the SPCG and the coordination efforts across ISO, IEC and ITU-T?

    [Scale 1 – 10]

IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPCG)
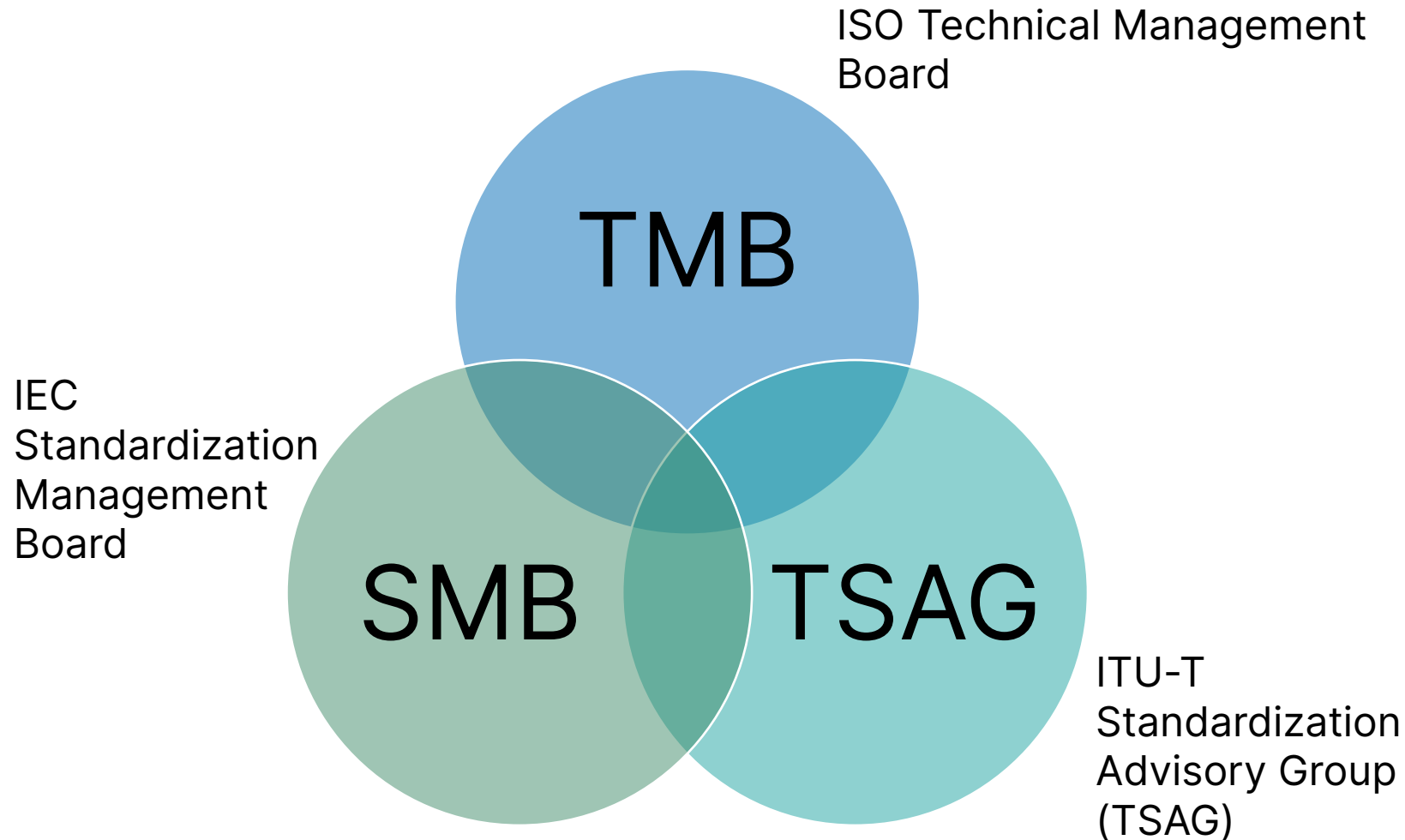
The International Electrotechnical Commission

The International Organization for Standardization

The ITU Telecommunication Standardization Sector

SPCG Membership

ISO Technical Management Board

IEC Standardization Management Board

TMB

SMB **TSAG**

ITU-T Standardization Advisory Group (TSAG)

- *Chair* is elected by the SPCG members from among the members of the SPCG

- *Five representatives* from each board

- *Secretariats* of the three organizations are permanent members

The World Standards Cooperation

The WSC is a **high-level collaboration** between IEC, ISO and ITU-T.

"International standards can help simplify things, but only if they are **consistent and coherent**. Through the WSC we can avoid contradictory content and unnecessary costs and **make life simpler** for standards makers, users, and end-consumers."

www.worldstandardscooperation.org

SPCG mission

"**SPCG** is to implement key principles that **guide coordination at the technical level.**

[...] **we also commit to avoiding conflicting requirements through planning and coordination** based on mutual respect and trust."

SPCG Website:
https://www.worldstandardscooperation.org/what-we-do/

"International standards provide a harmonized, stable, and globally recognized framework for the dissemination and use of new technologies"

SPCG vision

Key principles guiding technical level coordination include:

- We accept **legacy structural, process and cultural differences**

- All three organizations may have a legitimate stake in converging technology subjects, and **solutions may not be limited to any one of these organizations.**

- Overlaps in technical areas of interest of respective SDOs can lead to **meaningful cooperation in areas of mutual interest**,

- Some overlap and duplication may be appropriate if planned and coordinated, but we **seek to avoid conflicting requirements**,

- An atmosphere of **trust and respect**

SPCG Vision:

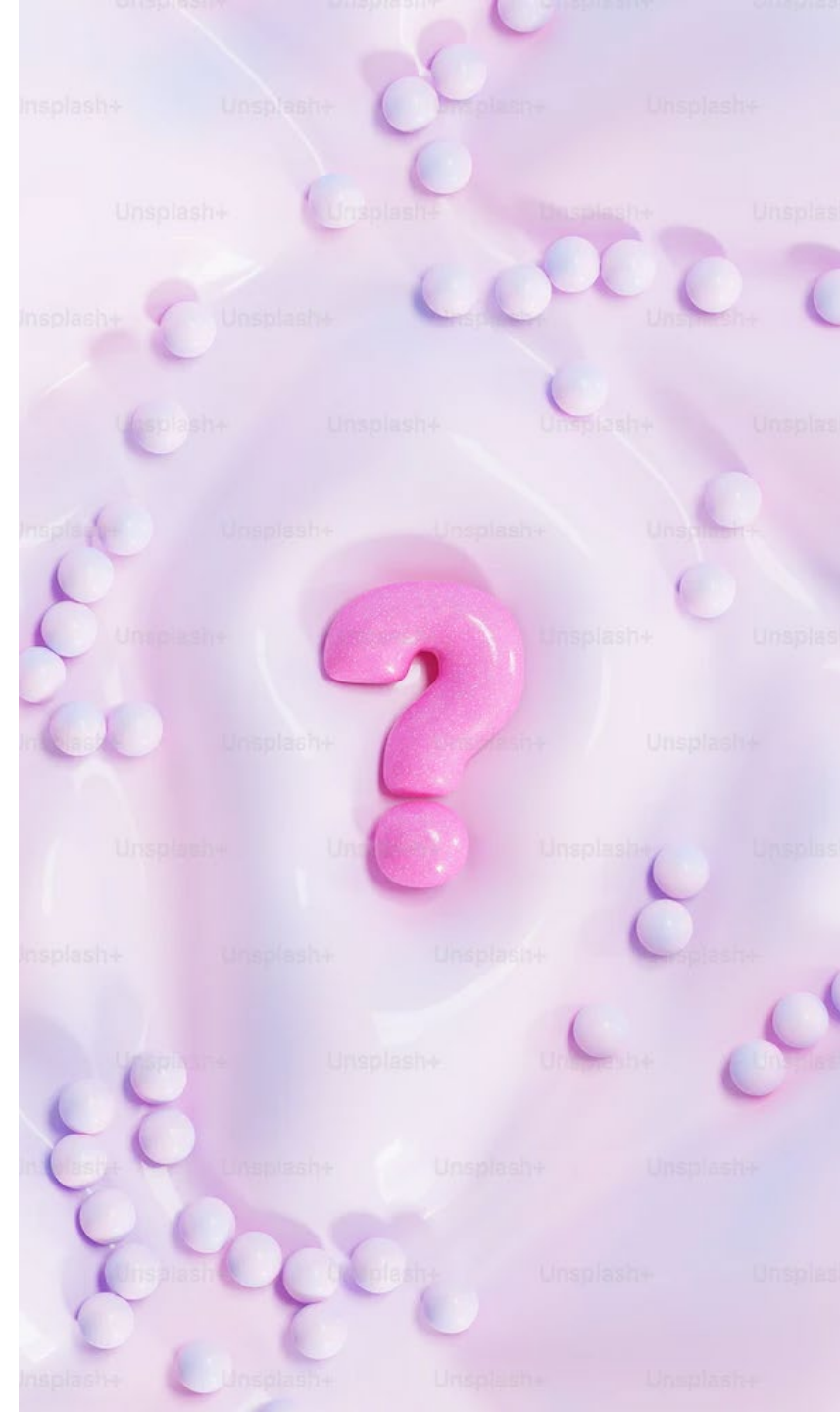*A coherent and coordinated international standards landscape (ISO, IEC, ITU-T).*

SPCG - Introduction

We want to know…

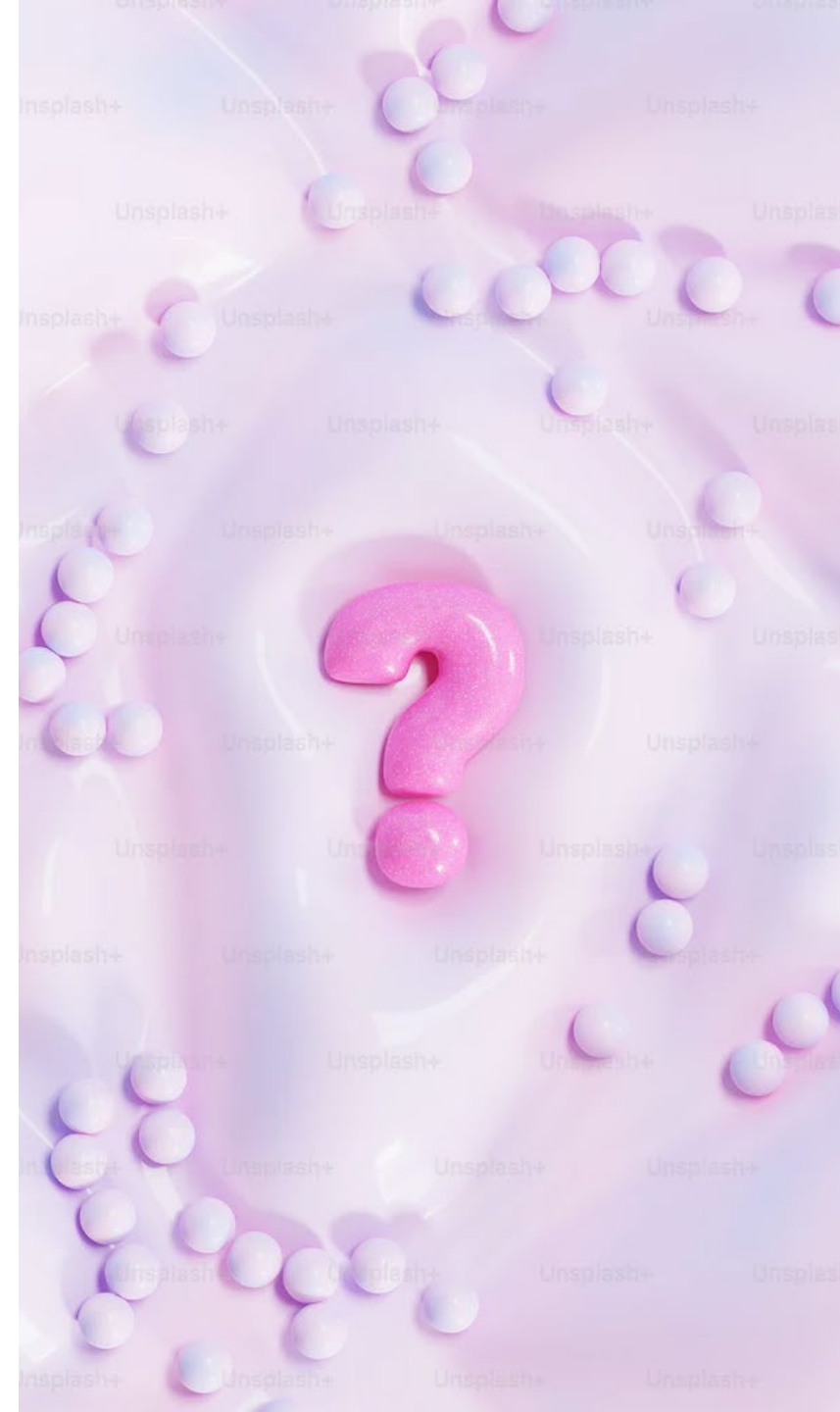2. Did you know about WSC (and SPCG) before this webinar?

[Yes/No]

We want to know...

3. Do you have an overview regarding global standardization work in your field of interest?

[Yes/No/partly]

The Coordination Journey

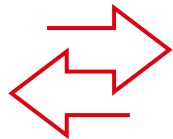Amanda Richardson, SPCG Chair 2019-2022, BSI (ISO/TMB)

iso.org

Background

Created following ISO/IEC/ITU-T Joint Task Force on effective collaboration (JTFEC) – 2019

Approved by the ISO/TMB, IEC/SMB and ITU-TSAG

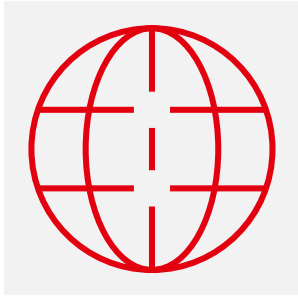Operational since 2019, has met 19 times since (17 virtual, two F2F meetings)

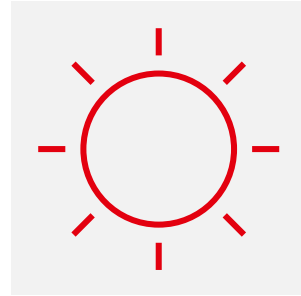Vision – a coordinated and coherent international standards landscape

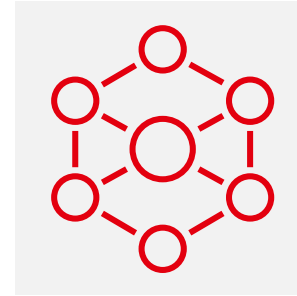Close link with the World Standards Cooperation (WSC)

Role of SPCG

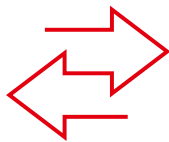Need to coordinate existing and future standardization work

Innovation is accelerating and technologies are converging

Standards need to be coherent, and not in conflict / duplicated, if they are to be adopted

Coordination will reduce burdens on standard makers and users

Build awareness of the SPCG & its activities within the technical communities of the three boards

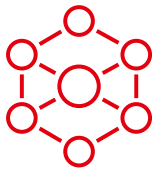# SPCG Objectives

SPCG Objectives

New work — Coordination of **new fields** of technical activity → Review of **all new** proposals (ISO, IEC and ITU-T)

Existing work — Coordination of existing areas of technical activity → Landscapes

Coordination of new activities

Review

Review new fields of work

Identify

Identify interest of the other organizations

Collect

Collect views of its members

Develop recommendations

Develop a recommendation to the Board
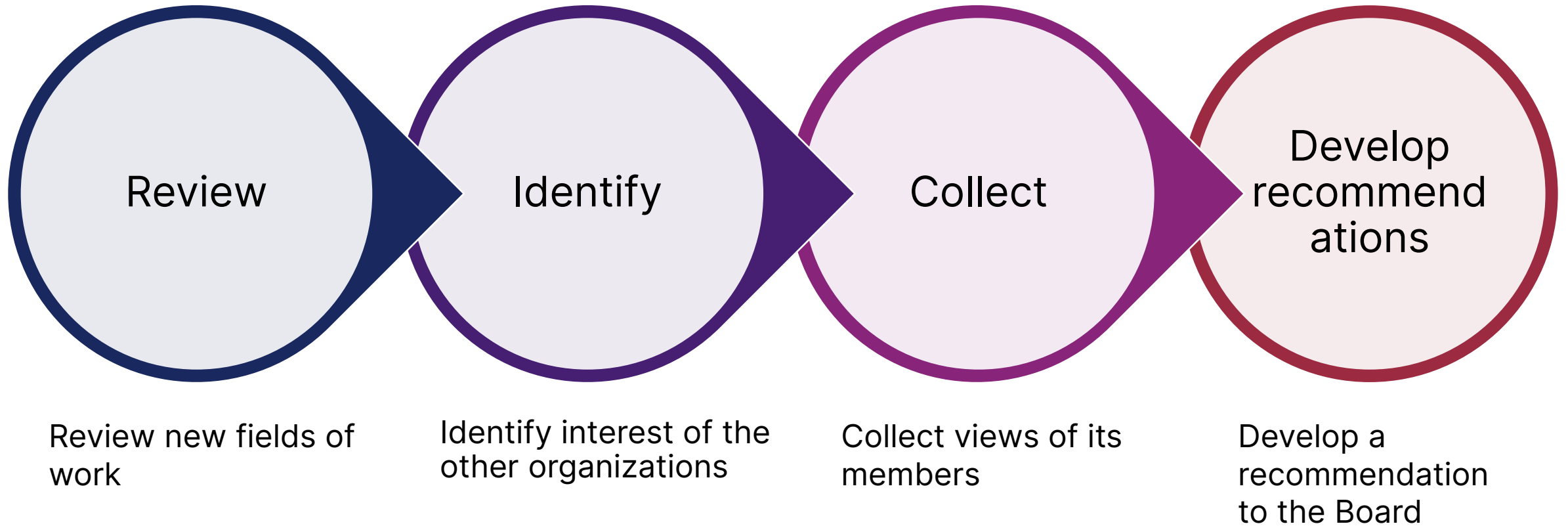
Coordination of new activities

61 Proposals have been considered so far & 23 recommendations developed

Follow-up and tracking process established for reactions/decisions of the Boards.

Coordination of new activities

Successes include:

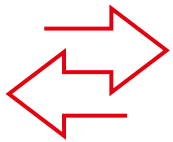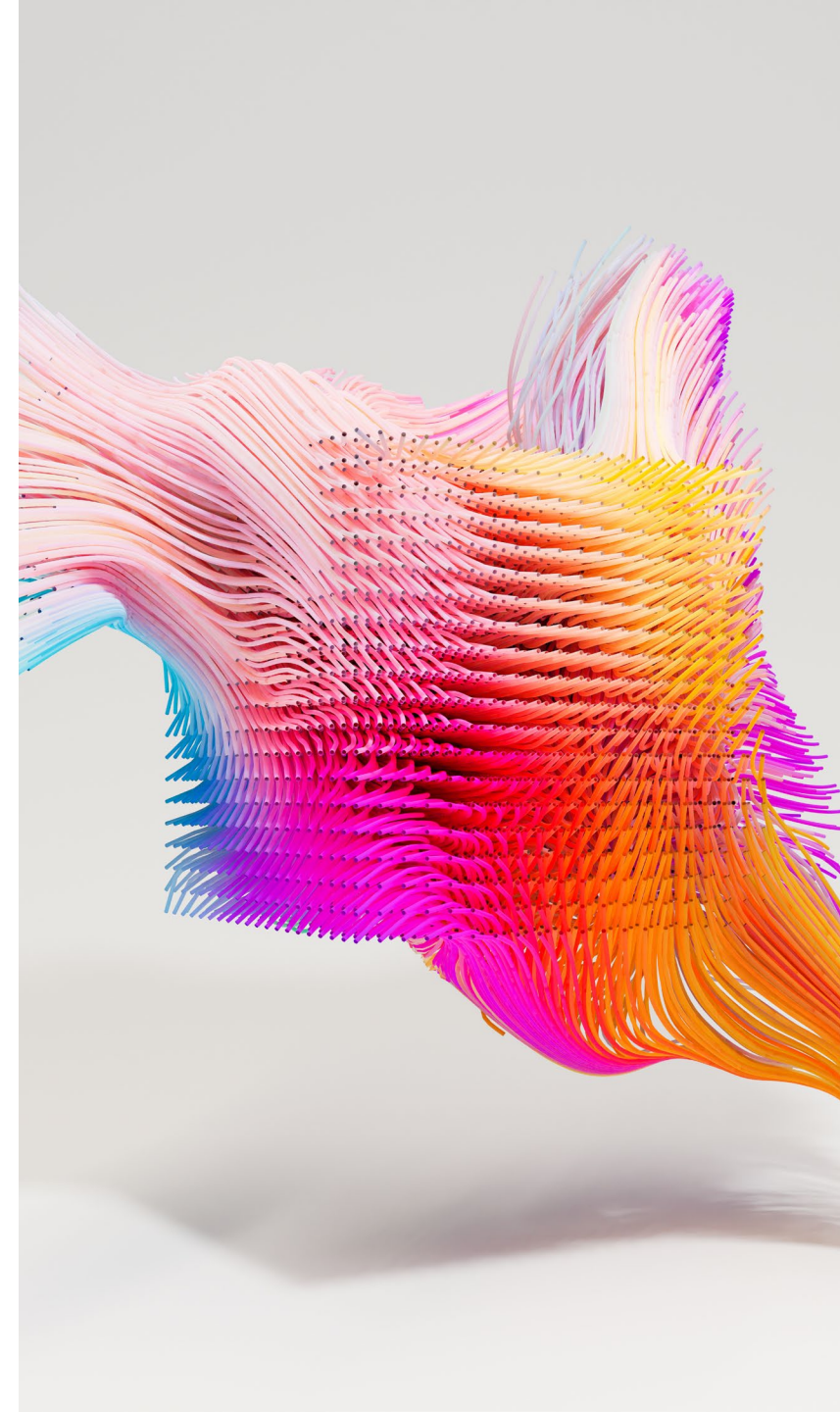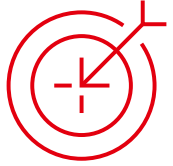- ISO/IEC Joint Standardization Evaluation Group (JSEG) on **Metaverse** (March 2023) – cooperation with ITU-T Focus Group on metaverse (FG-MV).

- New IEC/ISO Joint Technical Committee (JTC) on **Quantum technologies** – currently open for member body vote. Ensure collaboration with new ITU-T Joint Coordination Activity on Quantum Key Distribution Network.

- Joint **Smart Farming** Landscape Group (JSFLG) – Collaboration among several organizations, including ISO/IEC/ITU-T, on smart farming.
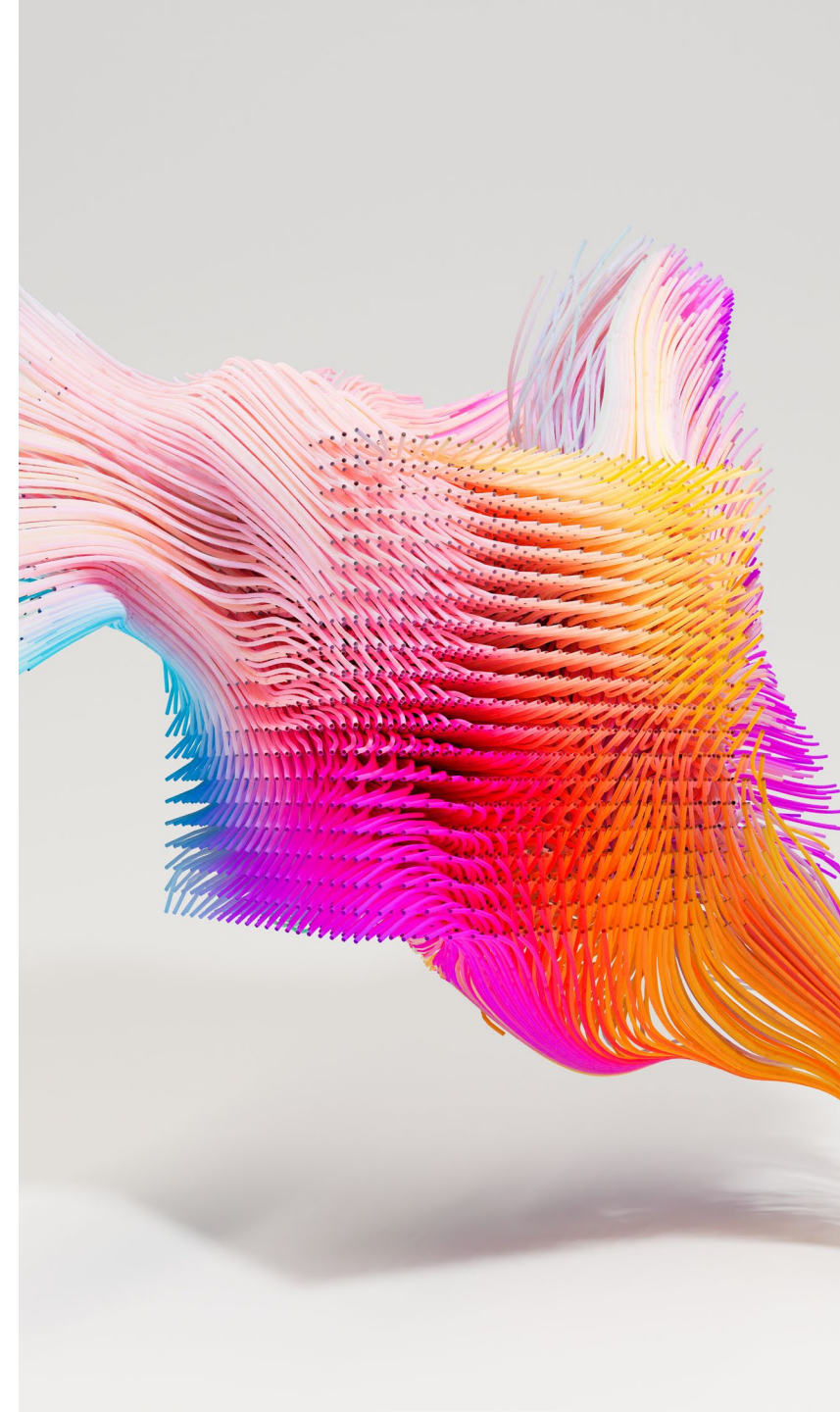
ISO/IEC/ITU-T Smart Cities Task Force (J-SCTF)

- Established in 2019

- Builds on the work of the World Smart City Forums 2016-2018

- World population estimated at 10 billion in 2050, with 80% living in cities

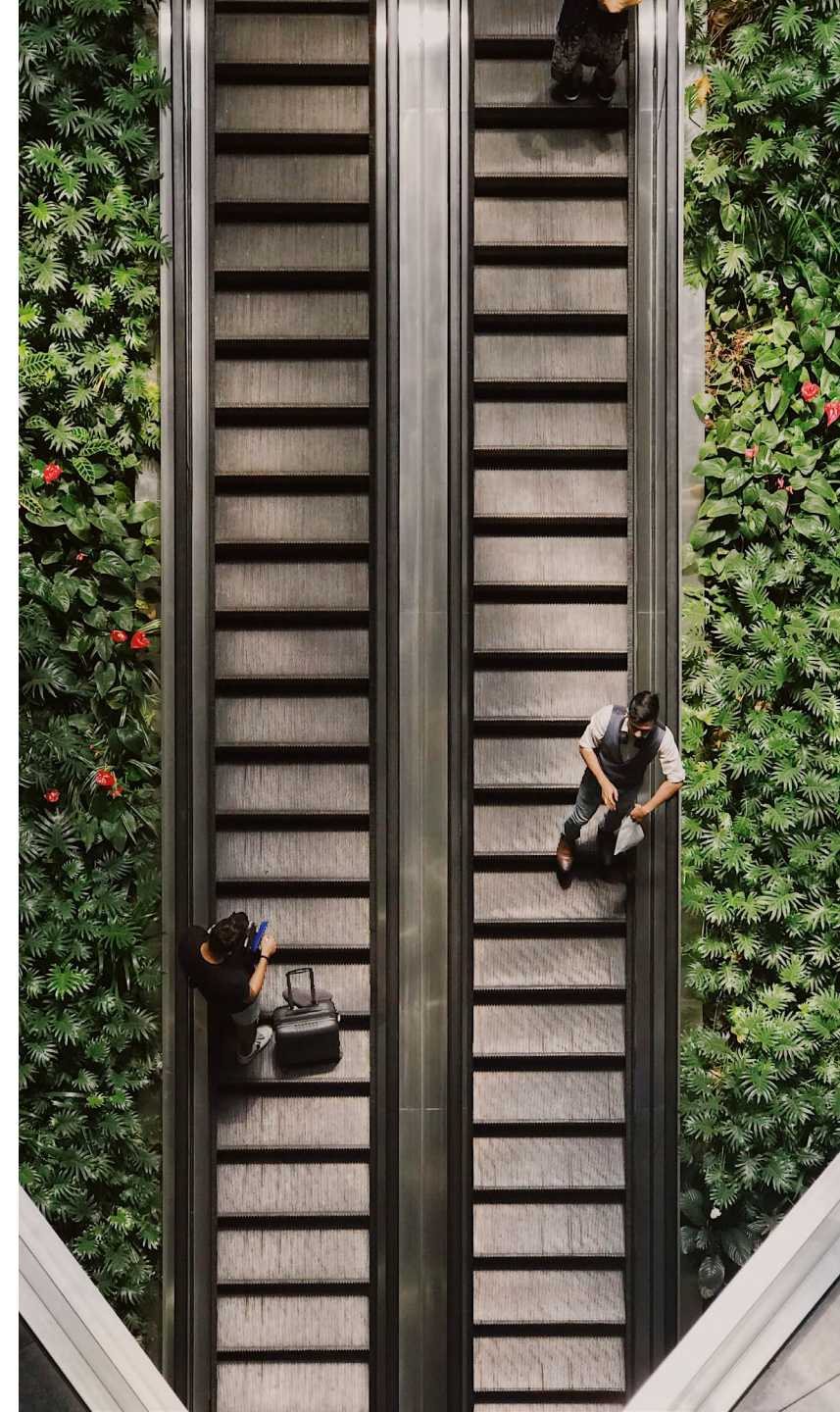UN SDG 11: "Make cities inclusive, safe, resilient and sustainable".

Status update

Christian Gabriel, SPCG Chair 2023-2024, OVE (IEC/SMB)

iso.org

SPCG Objectives

Landscape of existing fields

- Need to understand **where existing** IEC / ISO / ITU-T coordination is taking place and **how effective** it is

- SPCG has mapped the standards landscape to identify areas of coordination across the three organisations

- Some 70+ fields of common interest have been identified

- Objective is to **prioritize areas** of work that would require extra support on coordination

- Lessons learnt will be applied to other areas

Link

Landscape of existing fields

Extract from the landscape document
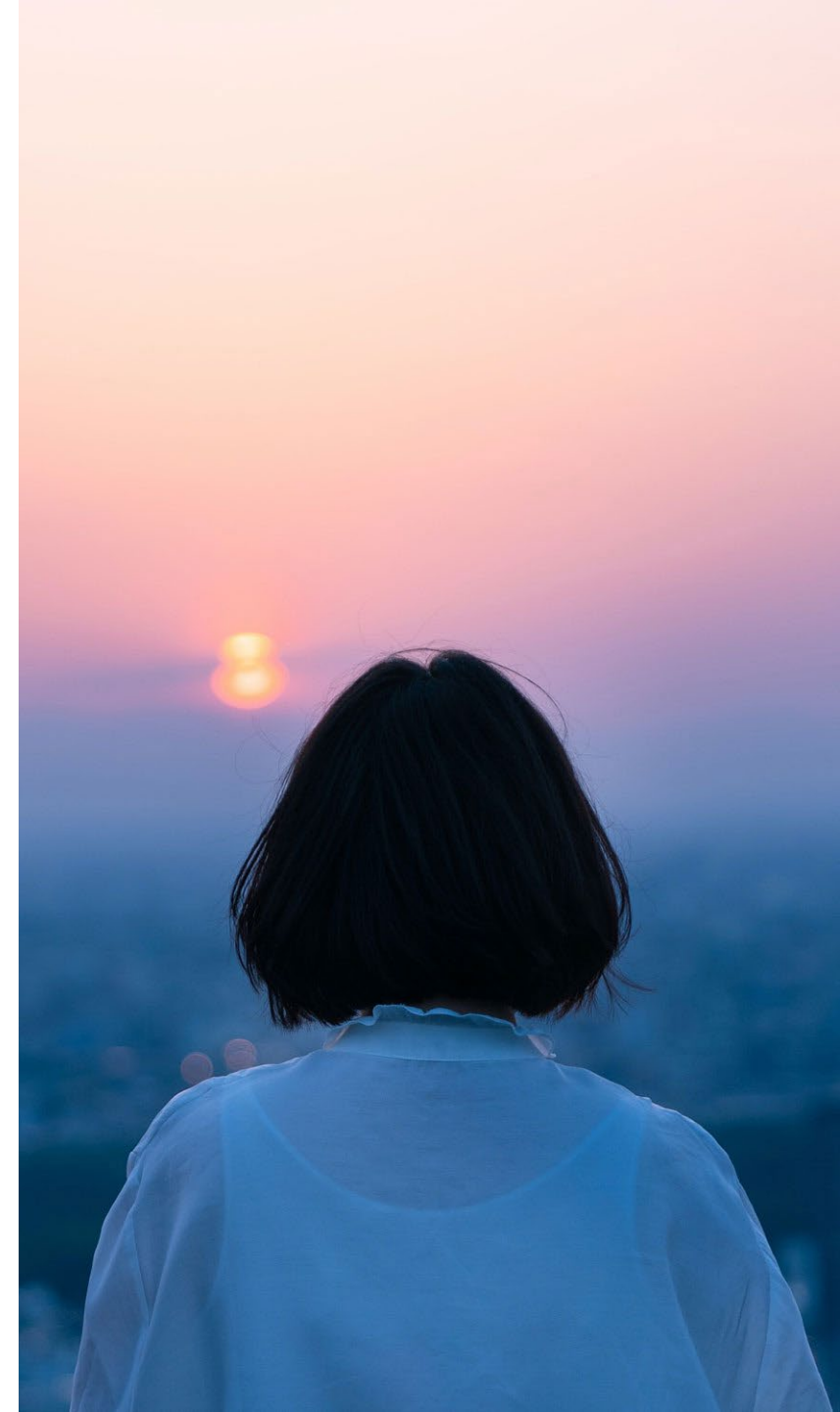
Landscape of ISO/IEC/ITU-T existing Fields

#	Field	ISO TCs[1]	IEC TCs[2]	JTC 1/SCs[3]	ITU-T SGs[4], FGs	Dedicated and other related Coordination
1.	Board, Advisory Group	• TMB Technical Management Board	• SMB	• SMB & TMB	• TSAG Telecommunication Standardization Advisory Group	• IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPCG) • World Standards Cooperation (WSC) • Global Standards Collaboration (GSC)
2.	Access Networks, Transport Networks, Optical Networks	• ISO/TC 204 Intelligent transport systems	• IEC/TC 86 Fibre optics • IEC/TC 100 Audio, video and multimedia systems and equipment • IEC/SyC COMM Communication Technologies & Architectures	• JTC 1/SC 6 Telecommunications and information exchange between systems	• **ITU-T SG15** Networks, technologies and infrastructures for transport, access and home • ITU-T SG9 Broadband cable and TV	• ITU/WMO/UNESCO IOC Joint Task Force to investigate the use of submarine telecommunications cables for ocean and climate monitoring and disaster warning
3.	Accessibility, Human Factors, User Interfaces	• ISO/PC 337 Guidelines for the promotion and implementation of gender equality		• JTC 1/SC 35 User interfaces	• ITU-T SG2 Operational aspects of service provision and	• Joint Coordination Activity on Accessibility and

[1] Designated primary ISO TC is shown in **bold**.

[2] Designated primary IEC TC or SC is shown in **bold**.

[3] Designated primary ISO/IEC JTC1 TC or SC is shown in **bold**.

[4] The ITU-T Lead Study Group (if defined) is shown in **bold**.

SPCG areas of collaboration

|				
Accessibility	Artificial Intelligence	Augmented reality	Big data	Biometrics
Blockchain	Circular economy	Climate change	Cloud computing	Cyber security
Data management	Digital currency	Disaster relief	Edge computing	e-health
Energy efficiency	e-waste	Intelligent transport systems	IoT	Machine Learning
Printed electronics	Quantum computing	Robotics	Smart cities	Smart grids
Smart manufacturing	Virtual reality	Wearables	3D printing	

AI/ML Landscape

- Pilot in one specific area – Artificial Intelligence and Machine learning - to improve coordination and reduce duplication.

- Tool to assist:

    - in coordination among the respective groups

    - submitters for any new planned activities in AL/ML

    - to address any overlaps, and to avoid duplicative activities
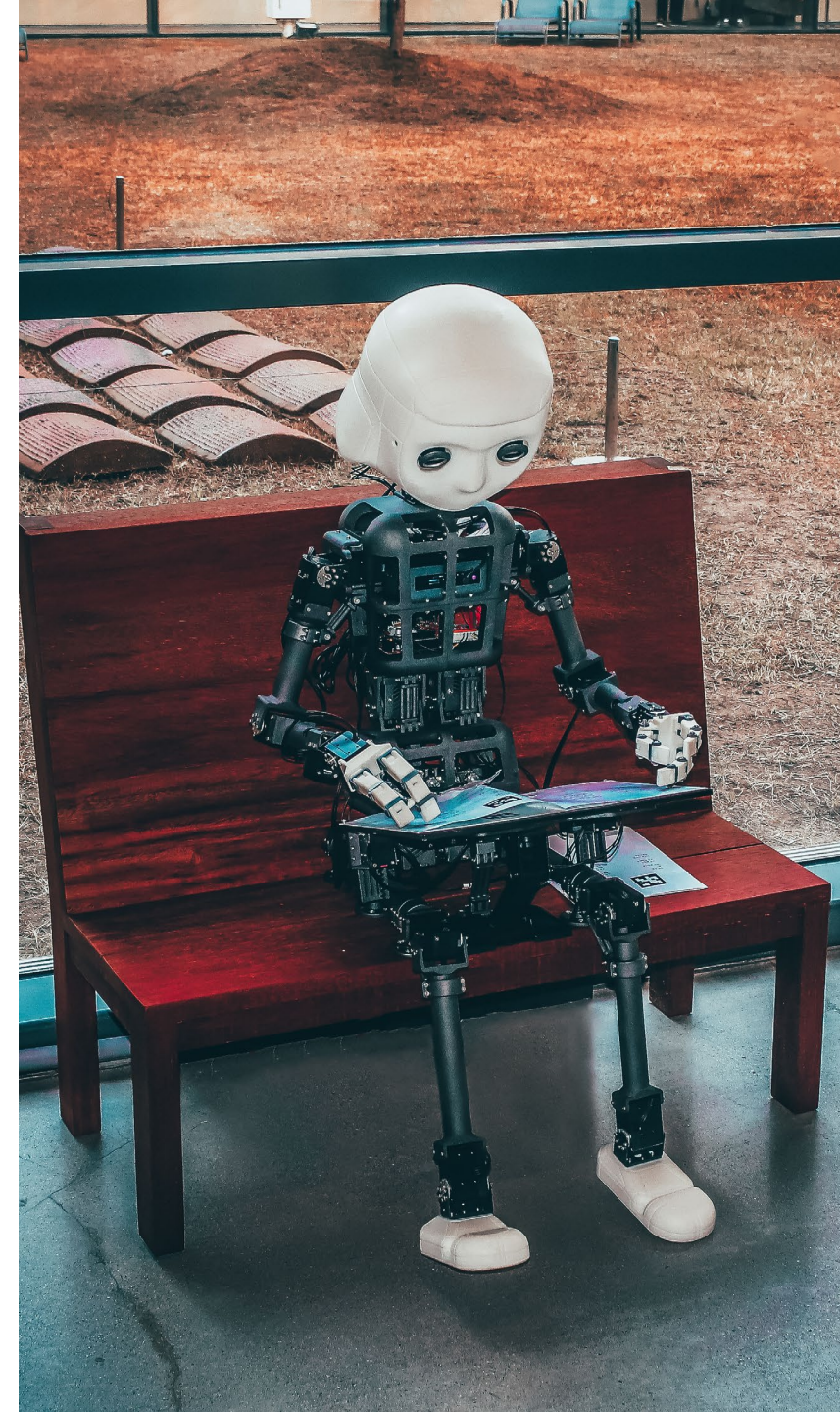
AI/ML Landscape

Part II – Other groups

#	Group (SG, TC, SC) Title w. ToR/ mandate/LSG Subgroups/ Questions	Published standards	Work programme, Work items	Tasks, Question, study items/study points	Remarks, observations
25	IEC TC 62 Electrical equipment in medical practice		**Work Programme** • PWI 62-3 ED1 "Artificial Intelligence/Machine Learning-enabled Medical Device – Performance Evaluation Process" • IEC 63450 ED1 CD "Testing of Artificial Intelligence / Machine Learning-enabled Medical Device"	To prepare international standards, and other publications, with focus on safety and performance of medical equipment, software, and systems. Note: TC 62 coordinates and addresses emerging technologies not previously covered in its subcommittees. SC 62A works on common aspects of medical equipment, software, and systems. Particular medical equipment, software, and systems are covered in SC 62B, SC 62C and SC 62D. This scope includes items that are also within the scopes of other committees and will be addressed through cooperation.	
26	ISO/IEC JTC 1/SC 29 Coding of audio, picture, multimedia and hypermedia information		**Work programme** • ISO/IEC AWI 6048 "JPEG AI Learning-based Image Coding System"	Standardization in the field of	Of interest to SG16?

What's next

- Improved follow-up of recommendations
- Future ways of presenting the landscape documents
  - Incl. maintenance procedures
  - Incl. investigation on how the documents are used
- AI/ML coordination meeting

We want to know...

4. How many of you are involved in ISO, IEC and ITU-T?
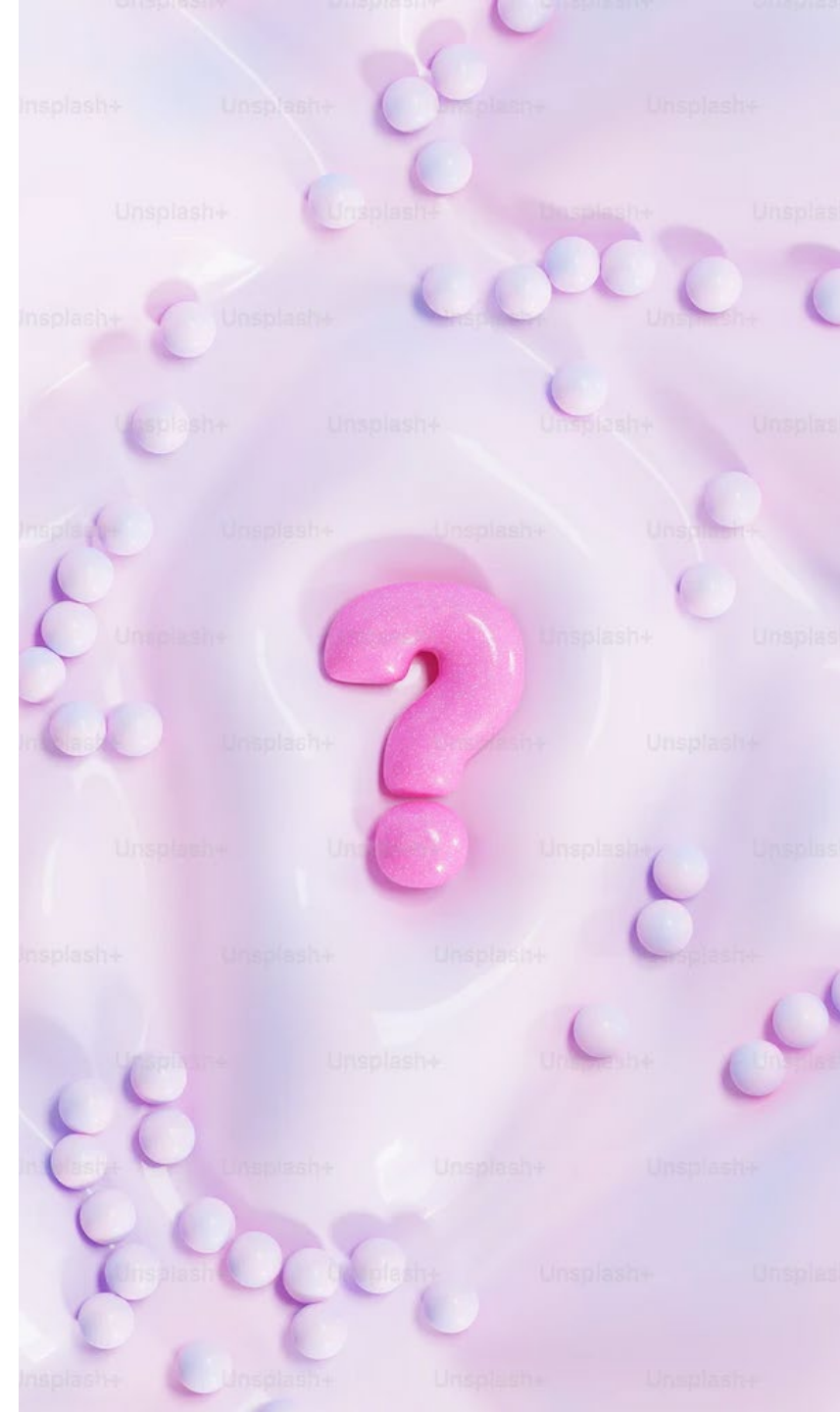
[In one organization, in two organizations, in all three organizations]

We want to know...

5. On which level of standardization are you involved?

   [technical level, management level, on both levels, not yet active in standardization]

Q&A

Please ask comments in chat

Benefits of SPCG

Increased

- **Coordination** in the current environment of converging technologies.

- **Approaches** for how to coordinate and collaborate when a subject is of common interest

- **Awareness of ISO/IEC/ITU-T technical communities** of the need and importance of coherent coordinated international standardization activities.

- **Transparency** & coordination in common thematic areas

More **resource-efficient use** of the relevant experts and stakeholders developing standards in these areas.
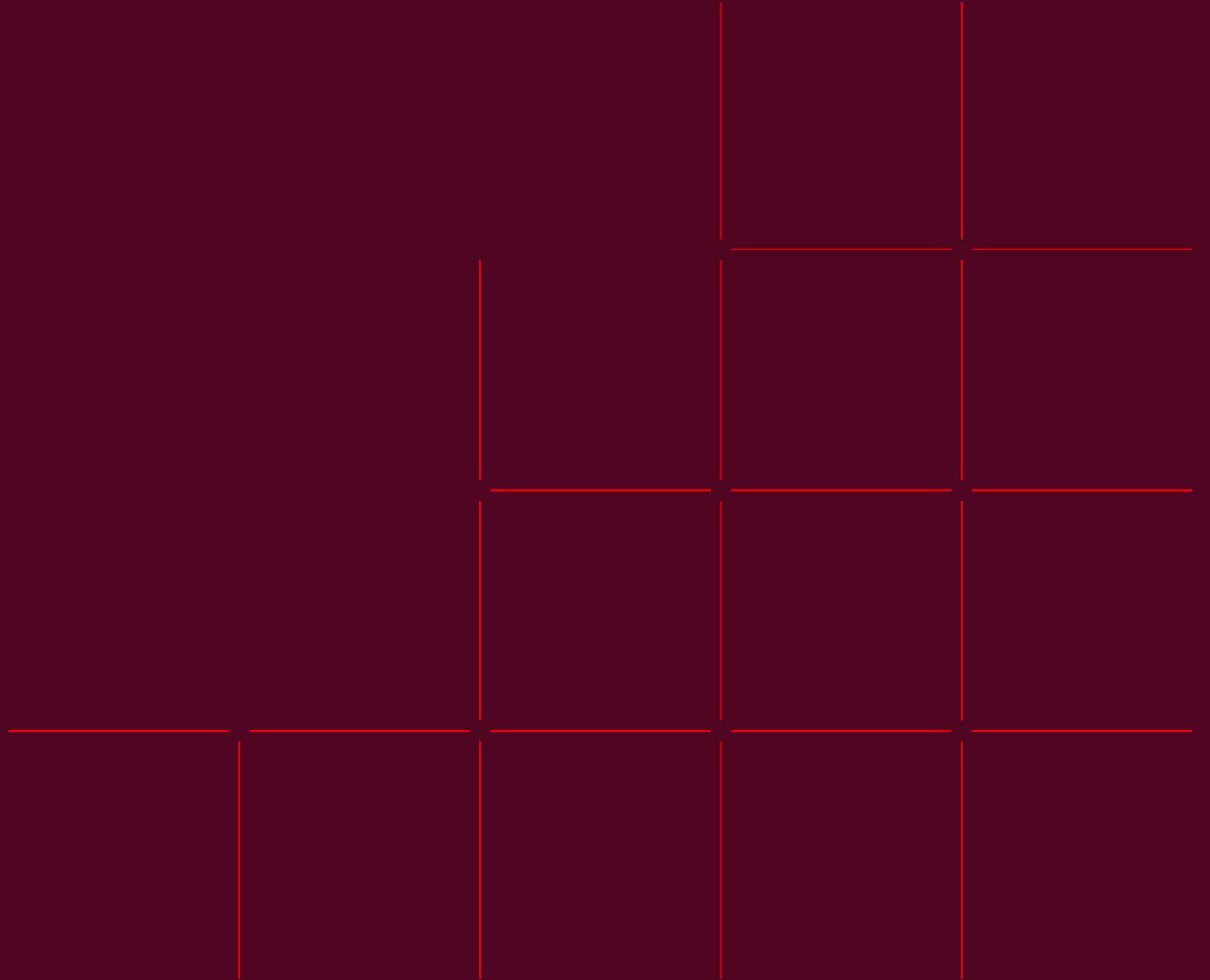
We want to know…

6. What is your level of understanding now of the SPCG and the coordination efforts across ISO, IEC and ITU-T

   [Scale 1 – 10]

Wrap up

SPCG Contacts

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