INSTAR: International cooperation for digital standardisation

Max Welford, BluSpecs

April 19th, 2024

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INSTAR webinar – Housekeeping

- The webinar is being recorded.
- The “video recording” and the “slides” will be available on the event page, after the event.
- During the webinar we are going to engage in “**Open Discussions**”. We are looking forward to hearing your thoughts and ideas!
- **Chat** → Use the chat to interact with us during the “Open Discussions”.
- **Q&A Section** → Use this section to submit your questions to the speakers.
- Contact us if you have any question after the event → https://instarstandards.org/contact-us

Shaping International Standards in Advanced Technologies

19 APRIL 2024 | 10:00-11:00 (CEST)

INSTAR

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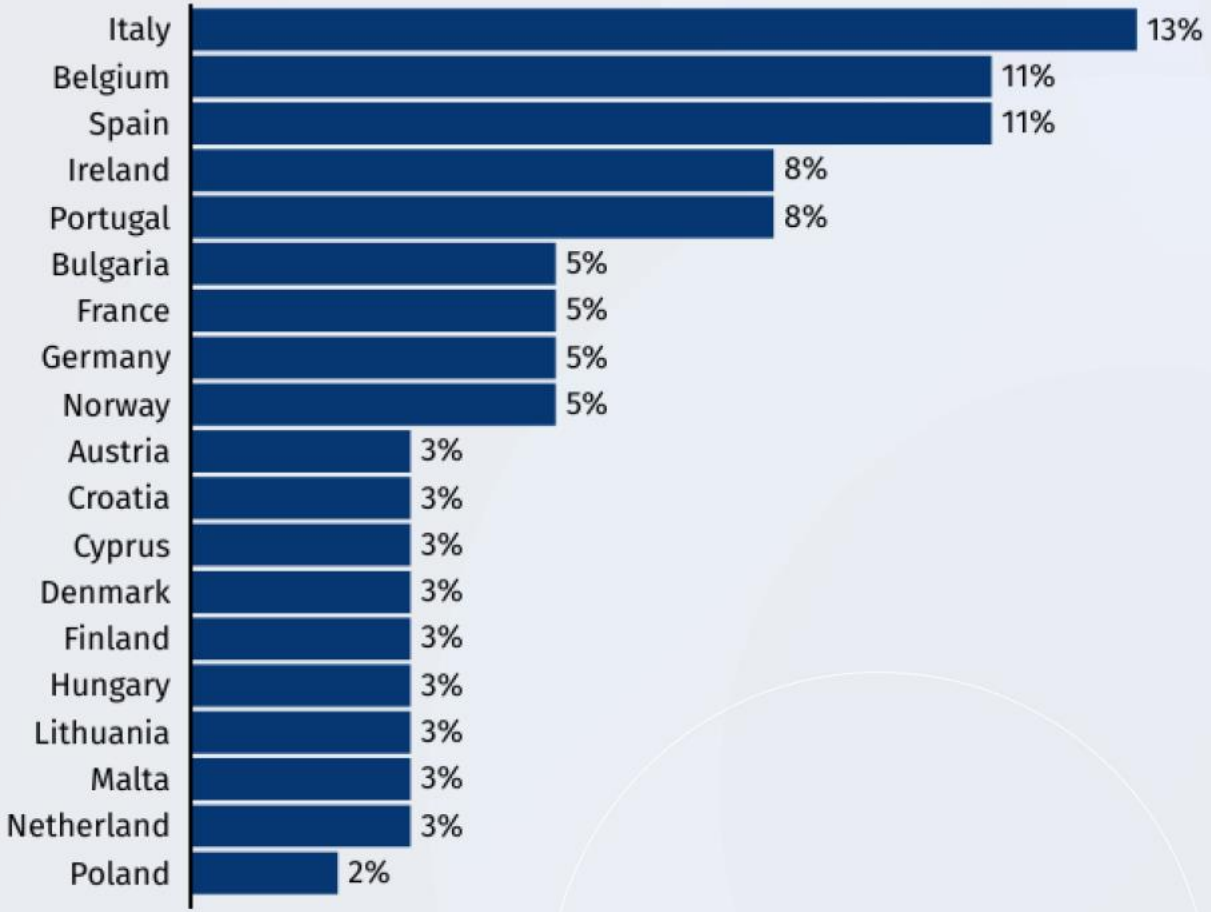
92 Registrants

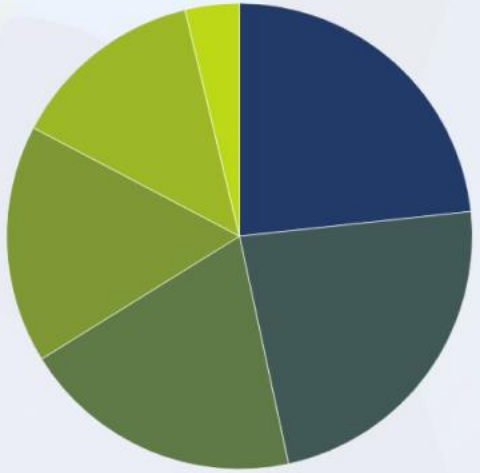
Gender

74% | 26%

Participants by country

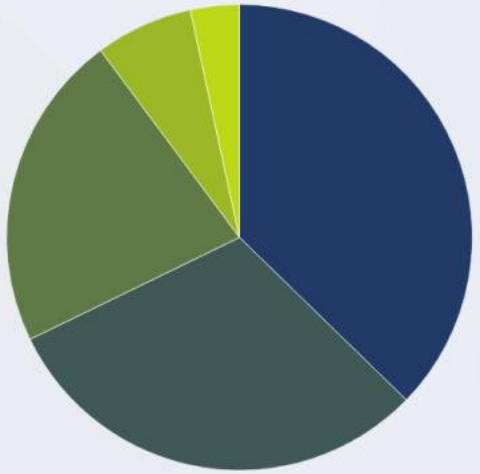


Participants by domain



- AI: **23%**
- IOT, EDGE, CLOUD AND INTERNET: **23%**
- CYBERSECURITY AND DIGITAL ID: **20%**
- 5G AND 6G: **17%**
- DATA: **13%**
- QUANTUM: **4%**

Represented Stakeholders



- SMES INVOLVED IN ICT STANDARDISATION: **37%**
- H2020, HORIZON EUROPE AND DEP PROJECTS: **30%**
- VERTICAL INDUSTRIES: **22%**
- POLICYMAKER: **7%**
- SDOS, ESOS, CERTIFICATION BODIES AND REGULATORY AGENCIES: **4%**

Supporting the implementation of the Digital Partnerships and the EU-US TTC through international common ICT Standards

EU's role & contribution to ICT standardisation landscape

- Active participants in Standards Organisations (e.g.: ISO, ETSI) to influence global ICT standards and ensure alignment
- Support for standardisation activities (e.g. StandICT network) to support collaboration and knowledge sharing

Digital Partnership Councils & TTC

- Key tool for collaboration and influence on international level
- Supporting bilateral & multilateral cooperation

Geographical scope

USA
CANADA
AUSTRALIA
SINGAPORE
JAPAN
REPUBLIC OF SOUTH KOREA
TAIWAN

Start: January 2024	**Duration:** 30 months
Budget: €1,500,000	Learn more here.

Technology Scope

TF1 – AI

- Secure, trustworthy and ethical development and use of AI systems (ML algorithms, neural networks, analytics, autonomous systems)
- AI Act, ETSI's Operational Coordination Group on AI (OCG AI)

TF2 – Cybersec-eID

- Cybersecurity & electronic identification in industries like healthcare, manufacturing, financial services, energy, automotive
- European Cyber Resilience Act (CRA)

TF3 – Data

- Data quality, syntactic, semantic and pragmatic characteristics of data (ISO 8000-1)
- Standards impact on policy & regulation, investment & innovation, cross-industry scenarios

TF4 – IoT Edge

- Cloud, Edge (near vs. far edge), IoT in smart manufacturing, precision agriculture, mobility, energy grids, smart cities, healthcare etc.

TF5 – 5G+

- Convergence of communications, sensing, sustainable services & AI
- Human-centric, cognitive network of networks system

TF6 – Quantum

- Quantum computing, communication, sensing and cryptography, as well as post-quantum cryptography techniques
- Specific focus on technologies that can be integrated into European infrastructure and interoperability aspects

Relevant standards our TFs will address are listed in our High-Level Standardisation Framework (to be shared upon request).

Open Discussions!

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European Commission

2030 DIGITAL DECADE

The international aspects of EU digital policies

Emilio Dávila, DG CONNECT-D3

1st INSTAR Webinar - 19 April 2024

The geopolitical context

- A more **complex international and security context**
- **Battle of offers** in third countries and in global governance (e.g. AI)
- **Technology, talent and innovation** competition (e.g. Quantum)
- Control of essential supply chains and **dependencies** (e.g. semiconductors)
- Deployment and resilience of **critical infrastructures** (5G, subsea cables, data)

EU Policy Context: EU Standardisation Strategy

- COM(2022) 31 of 2/2/22: *An EU Strategy on Standardisation. Setting global standards in support of a resilient, green and digital EU single market*

Strengthening and leveraging the EU standardisation system

- High Level Forum – Chief Standardisation Officer
- Prioritisation of standardisation needs
- EU excellence hub on standards
- Review of standards
- Improve European Standardisation System (ESS) process
- Adoption of common specs as back-up solution
- Task Force EC-ESOs

Good governance principles

- Amendment Reg. 1025/2012 on EU standardisation (National Standardisation Organisations – NSOs) - involved in mandates decisions)
- Call ESOs to improve their governance (integrity, more inclusiveness, access to standards)
- Evaluation of 1025/2012
- EU to develop technical specs through implementing acts

EU leading in global standardisation

- Coordination mechanisms with MS and NSOs; International observatory**. More presence of EC in international standardisation**
- Foster international standards for a free, open, accessible and global internet
- **Trade agreements, Regulatory Dialogues and Digital partnerships to include standardisation**
- Promote International cooperation with different mechanisms, including HE. **Support EU experts participation in international standardisation**, Promote EU standards in partner countries. Africa and Global Gateway

Cutting-Edge Innovation to support standards

- **EU funded R&D&I** to support standardisation. e.g. Standardisation Booster, StandICT
- Building critical mass for standards uptake: DEP & CEF
- ESOs to integrate open source solutions
- Develop a **Code of Practice** for researchers **on standardisation**

Education and Skills for standardisation

- Organise Standardisation University Days
- **Valorisation of R&I through standardisation** and pre-normative research: HE and COST
- EU Academy Platform and High Level Forum (HLF) for dissemination of standardisation training material

European Commission

Our objectives

Promote the EU human-centric model and regulatory framework

Protect EU strategic interests incl. EU economic security

EU global role in the digital world

- Promote EU rules as **global standards**
- Reinforce mutual **economic resilience** (supply chains, key connectivity links)
- Increase excellence in R&I and boost competitiveness in **emerging technologies**
- EU role in **global digital governance**

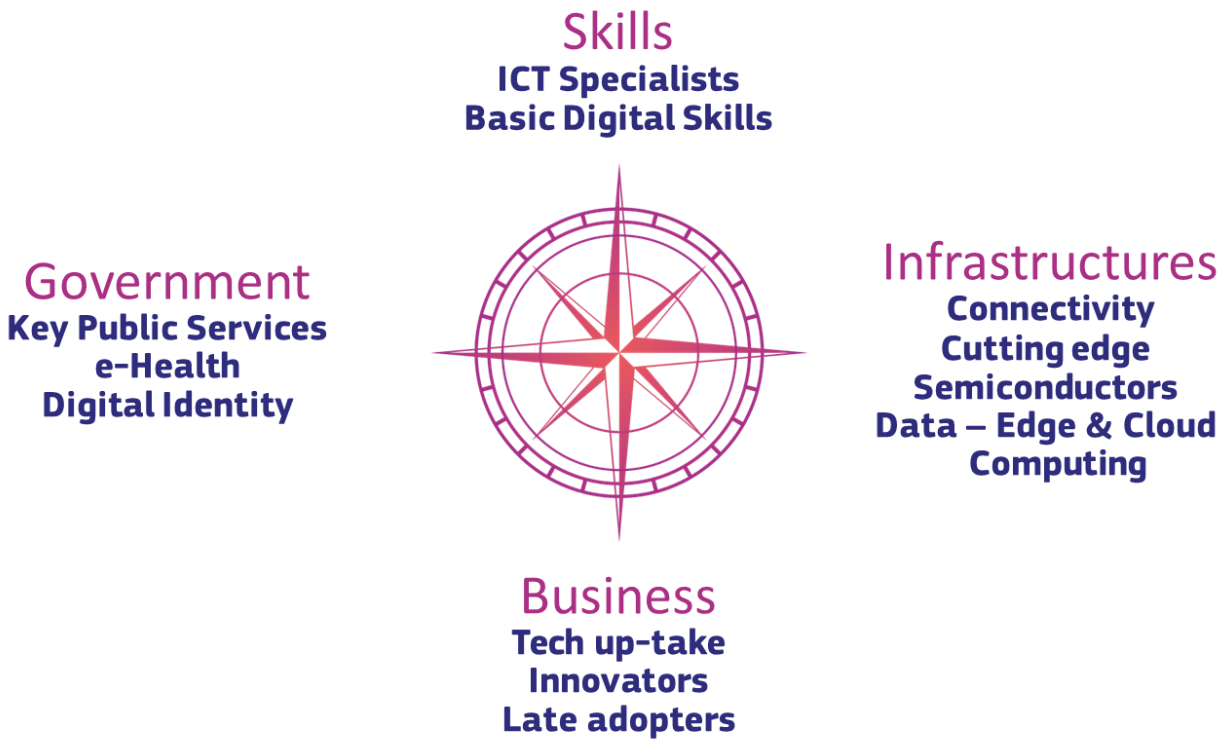
The Digital Compass as our international compass

Providing a competitive global offer across the four areas of the Digital Compass

- Regulatory cooperation
- R&I and industrial cooperation
- Infrastructure investment
- Capacity building and skills
- Cooperation in international fora

Based on the EU's values-based and human-centric approach

- Declaration on the EU Digital Rights and Principles



European Commission

Multilateral Engagement

The EU approach to the digital transition is anchored in its commitment to **multilateralism** and the promotion of universal human rights and fundamental freedoms, the rule of law and democratic principles.

EU takes part in most influential **multilateral venues:**

UN	G7/G20	OECD
• Summit of the Future, Global Digital Compact, AI global governance • ITU: Spectrum, telecom standards and development • UNESCO: AI, platforms	• G7: Hiroshima process, security & resilience of digital infrastructures, Data Free Flow with Trust • G20: Digital Public Infrastructure, AI, digital skills	• AI • Data governance • Connectivity • Platform economy • Digital skills • Online environment

International digital partnerships

Like-minded countries: A growing network of bilateral partnerships with partners around the globe (i.e. **Trade and Technology Councils** with US, India & **Digital Partnerships** with Japan, Singapore, Korea, Canada)

Global Gateway partnerships and alliances: Investing in global digital infrastructure and promoting the EU approach to digital transformation with #TeamEurope

Digital Dialogues with long-term partners

Digital Partnerships

Strengthening mutual **economic resilience** with key like-minded partners in a challenging geopolitical context

EU-JP Digital Partnership

Launched at the EU-JP Summit of May 2022

EU-ROK Digital Partnership

Signed on 28 November 2022

EU-Singapore Digital Partnership

Signed on 1st february 2022

EU-CAN Digital Partnership

Launched at the EU-CAN Summit of November 2023

Political commitment to deliver: annual high-level meeting – the **Digital Partnership Council**

European Commission

Digital Partnerships with Japan, Republic of Korea and Singapore

EU-JP Digital Partnership Council - 30 April 2024

Expected Deliverables:

- **MoC on Semiconductors**: Joint research and strengthening links with Rapidus and industry players
- **5G/6G**: successful research cooperation opening the door to common standards
- **Data Free Flow with Trust:** MoC on digital identities with concrete use cases for businesses
- **Cybersecurity**: developing common standards in the context of the Cyber Resilience Act
- **Artificial Intelligence**: Japanese firms invited to join the AI Pact - collaboration between the Ai Office and JP AI Safety Institute
- **Arctic Connectivity:** Building a business case for the G7 cable

EU-ROK Digital Partnership Council - 26 March 2024

Deliverables:

- **Semiconductors:** Agreement on research projects bringing together Research and Technology Organisations and industry
- **6G:** collaborative research projects relevant to industry
- Advancement in **Quantum research and standardisation**
- **Artificial Intelligence:** Strengthening the EU-ROK regulatory dialogue including in generative AI, cooperation in AI global governance, bilateral cooperation in AI research and synergies between start-ups and research communities, Korean firms invited to join the AI Pact
- **Standardisation:** Enhancing coordination in the ITU – Building further synergies to promote global interoperable standards.

EU-SGP Digital Partnership

Priority areas:

- **Digital Identities** and **e-Invoicing** pilot projects;
- **Trustworthy AI**: Comparison of AI governance frameworks and coordination in GPAI;
- **Platforms governance:** exchanges on implementation and enforcement of obligations from online platforms;
- **Semiconductors:** exploring options for R&I cooperation and supply chains monitoring.

European Commission

Thank you

Open Discussions!

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European Commission

Discussion 1: INSTAR Task Forces (TFs) and INSTAR International Task Forces: how to get involved and contribute to INSTAR activities?

Damir Filipovic, AIOTI Secretary General

April 19th, 2024

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INSTAR ETFs

- Organised for each of the 6 technological areas
- Led by one of the project partners
- TF consists of 15-20 experts and are chaired by one of them
- Expected deliverable: A roadmap of the European priorities in each of the 6 technological areas

INSTAR ITFs

Geographical scope

7	USA	JAP
	CAN	ROK
	SGP	AUS
	TWN	

- One ITF setup for Australia, Canada, Japan, Singapore, South Korea, Taiwan, USA covering all 6 technological areas

Expected outcome:

- Alignment of the priorities
- Best practice sharing
- Legislative alignment

For Open Discussion:

- What else can be useful source for the roadmaps?
- Which organisations can we contact to join ITFs?
- Would you like to join ETFs?

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International ICT Standardisation

What does Success Look Like for INSTAR?

Rute C. Sofia, fortiss

29/05/2024

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International ICT Standardisation - INSTAR Positioning

What INSTAR does: facilitate the development of partnership frameworks and foster collaboration

- Analyse existing EU Agendas on standardisation across different workstreams
  - Digital partnerships
  - High-level fora on Standardization
  - European Multistakeholder on ICT standardization
  - Potential collaborations (e.g., via CEN-CENELEC and ETSI) with SDOs outside of Europe
- Determine key actions to be taken in each workstream
  - Assisted by the EU task-forces and the international task-forces experts
- Analyse key knowledge areas in each workstream
  - Key standards and SDO actions for each knowledge area
  - Evolution of the knowledge area

Measuring Success in INSTAR Workstreams

- Common Success Indicators across all Task-Forces
  - Technological Innovation with the development of impactful solutions and advancements that address real-world challenges.
  - Policy Harmonization through the establishment of formal agreements, memorandums of understanding (MoUs), and ethical guidelines that foster responsible and transparent deployment of technologies.
  - International Cooperation through active participation in global forums and consortiums, collaborative research and development initiatives, and capacity-building programs to ensure equitable access and participation.
- Specific Metrics for Specific Areas
  - **AI**: Public perception surveys, societal impact assessments, and adoption rates of ethical AI frameworks.
  - **Cybersecurity**: Number of adopted international standards, alignment of national cybersecurity strategies, and frequency of successful cyberattacks thwarted through collaborative efforts.
  - **CEI**: Level of interoperability between different CEI systems, reduction in security vulnerabilities, and economic growth attributed to CEI adoption.
  - **Quantum Technologies**: Number of joint R&D projects initiated, alignment of regulatory frameworks, and demonstrable advancements in quantum computing capabilities.
  - **6G**: increase in international knowledge exchange across projects (SNS JU), towards key EU initiatives (6G-IA, 5G-PPP) and towards/with relevant SDOs such as ETSI, ITU-T, IETF

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Our consortium

Coordinator

BluSpecs

Fraunhofer

fortiss

Alliance for IoT and Edge Computing Innovation

Trialog

TU Delft

Trust-IT Services
communicating to markets

COMMpla
Communication Platforms and Online Solutions

AIT
AUSTRIAN INSTITUTE OF TECHNOLOGY