StandICT.eu: Supporting SDO Work Group Activities

ISO/IEC JTC 1 perspective

Contents

This presentation will cover ….

- ISO/IEC JTC 1 Information technology
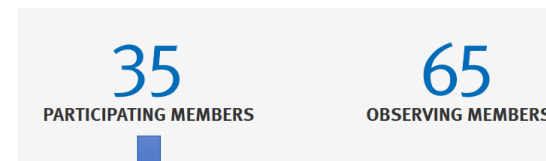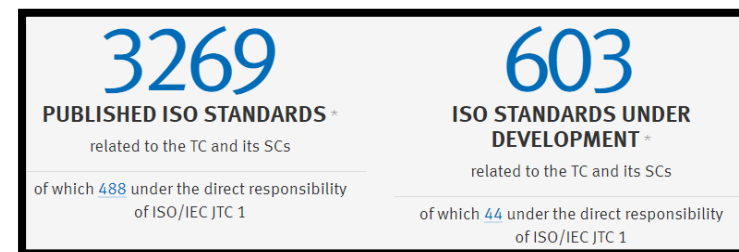- Looking back: JTC 1 & StandICT 2018-20
- Looking forward: Current & future work – experts needed

JTC 1 work program

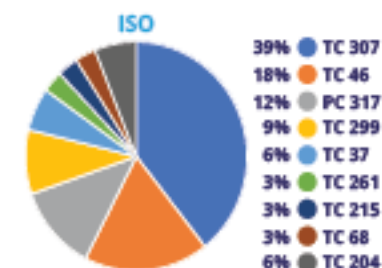| ISO Council	IEC Council Board
ISO	TMB
IEC	SMB

ITTF

ISO/IEC JTC 1
Information technology
ISO IEC

Working Groups (WG)	Sub-Committees (SC)	Advisory Groups (AG)
4	22	12

WG 11 Smart Cities	WG 12 3DP&S	SC 42 AI	SC 41 IoT	AG 2 Emer Tech

Inc .. Autonomous vehicles; RA; VR/AR; BCI

WG 13 Trust-worthiness	WG 14 Quantum	SC 27 Cyber	SC 40 IT Gov

Inc. Digital Twin

SC 38 Cloud	SC 39 Sustain.

SC 36 EdTech

Established 1987

3269
PUBLISHED ISO STANDARDS *
related to the TC and its SCs
of which 488 under the direct responsibility of ISO/IEC JTC 1

603
ISO STANDARDS UNDER DEVELOPMENT *
related to the TC and its SCs
of which 44 under the direct responsibility of ISO/IEC JTC 1

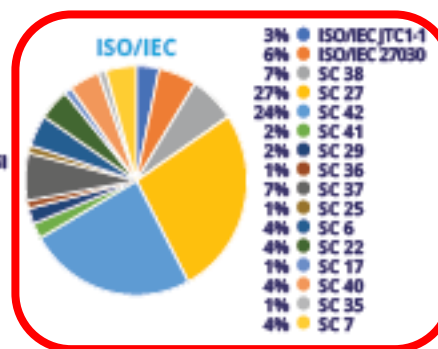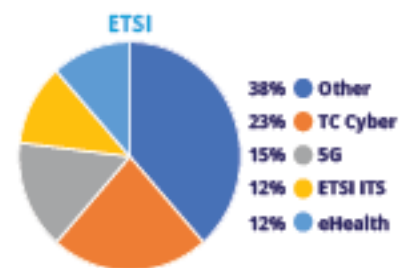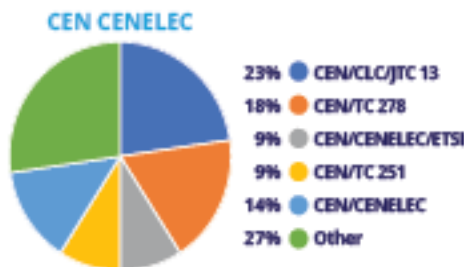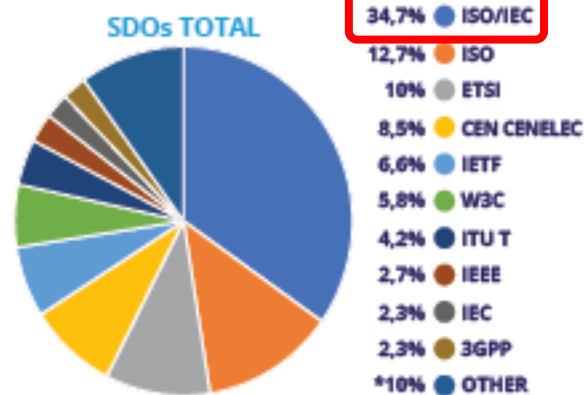**35**
PARTICIPATING MEMBERS

65
OBSERVING MEMBERS

Including ..

Austria, Belgium, Czech Rep, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Spain, Sweden, Switzerland, UK

35% of all funded applicants (approx. 80) were for ISO/IEC JTC 1 projects

GRANTS ACROSS SDOs

SDOs TOTAL

- 34,7% ISO/IEC
- 12,7% ISO
- 10% ETSI
- 8,5% CEN CENELEC
- 6,6% IETF
- 5,8% W3C
- 4,2% ITU T
- 2,7% IEEE
- 2,3% IEC
- 2,3% 3GPP
- *10% OTHER

CEN CENELEC

- 23% CEN/CLC/JTC 13
- 18% CEN/TC 278
- 9% CEN/CENELEC/ETSI
- 9% CEN/TC 251
- 14% CEN/CENELEC
- 27% Other

ISO/IEC

- 3% ISO/IEC JTC1-1
- 6% ISO/IEC 27030
- 7% SC 38
- 27% SC 27
- 24% SC 42
- 2% SC 41
- 2% SC 29
- 1% SC 36
- 7% SC 37
- 1% SC 25
- 4% SC 6
- 4% SC 22
- 1% SC 17
- 4% SC 40
- 1% SC 35
- 4% SC 7

ETSI

- 38% Other
- 23% TC Cyber
- 15% 5G
- 12% ETSI ITS
- 12% eHealth

ISO

- 39% TC 307
- 18% TC 46
- 12% PC 317
- 9% TC 299
- 6% TC 37
- 3% TC 261
- 3% TC 215
- 3% TC 68
- 6% TC 204

*OTHER: OPEN MOBILE ALLIANCE · IRTF · UN/CEFACT · EDPB
IACS · EMSA, EFCA · FHIR · IHE PPC domain · OSGi Alliance

Comprising:

- 33% Cybersecurity (SC 27)
- 24% Artificial intelligence (SC 42)
- 7% Cloud computing (SC 38)
- 7% Biometrics (SC 37)
- 4% IT and data governance (SC 40)
- 2% Internet of Things & related technologies (SC 41)
- 23% Other (various SCs)

StandICT.eu 2023
ICT STANDARDISATION OBSERVATORY AND SUPPORT FACILITY IN EUROPE

Alain De Greve

Job Title, Organisation: Owner, D.G.A.
Country: Belgium
SDO: ISO/IEC, CEN

Challenges Addressed

Improve development of international standards from a European perspective at either ISO and CEN level with special focus on Cybersecurity and emerging technologies.

My contribution

I have taken part in the international meetings of JTC13(CEN) and SC27(ISO), stressing the Belgian point of view and end user interests. I pointed out several concerns and specific terms which can disturb the national interpretation with a local translation.

EU Priorities & Gaps

Lack of interest from an end user and national level were identified. Some countries like mine are not represented enough at European level to help implement enhancements in cybersecurity at the national level, which would make us more independent from external influences (such as US-oriented influencers and lobbyists). Some new initiatives need to be launched

CYBER

David Filip

Job Title, Organisation: Research Fellow, ADAPT Centre Trinity College Dublin
Country: Ireland
SDO/WG: ISO/IEC

Challenges Addressed

Trustworthy AI, Open Source Software (OSS), transparent verifiability, ethical and societal impact of AI and IT

My contribution

Lead Irish delegation at JTC 1/SC 42 AI Plenary, Chair SG 2 Trustworthiness of AI f2f. Convening ISO/IEC JTC 1 AG 3 OSS (JTC 1 OSS survey & strategy). Convening ISO/IEC JTC 1/SC 42/WG 3 AI Trustworthiness (5 projects in various stages). Heading Ireland delegation to ISO/IEC JTC 1/SC 42 AI and SC 38 Cloud Plenaries. Heading numerous ad hoc and CRM meetings at ISO/IEC JTC 1/SC 42 AI. Representing ISO/IEC JTC 1/SC 42 at ISO/IEC JTC 1 AG 7 Trustworthiness. Representing Ireland at JTC 1.

EU Priorities & Gaps

Privacy and personally identifiable data protection; ethical use of AI; multilingualism; transparent interoperability through standardisation.

AI

Funded experts - some examples

Karen Lauberg Lauritsen

Job Title, Organisation: Managing Director, Lauberg Consulting
Country: Denmark
SDO: ISO/IEC

Challenges Addressed

How to define a common concept of trustworthiness across emerging technologies, IT services, systems and data. Define which subjects of IT governance are an accountable governing body responsible when balancing the value and risks in IT investments in emerging technologies. Application of the ISO/IEC 38500 'Governance of Information Technology' in areas of emerging technologies.

My contribution

I have taken part in the activities of ISO/IEC JTC1 Advisory Group 7 'Trustworthiness'. Co-editor of ISO/IEC 38506 'Application of IT governance to IT-enabled investments'. Technical expert in joint work group ISO/IEC 38507 'Application of 38500 to Artificial Intelligence. Technical expert in relation to ISO/IEC 38508 'Data classifications'.

EU Priorities & Gaps

It is my recommendation that EU prioritises building supplementary competences and skills in IT governance and leadership in order to harvest benefits and value as well as address key risks of digitization and emerging technologies across the EU Digital Single Market.

GOVERNANCE

Arne Berre

Job Title, Organisation: CRS, SINTEF
Country: Norway
SDO/WG: ISO/IEC

Challenges Addressed

The objective of the ISO/IEC JTC1/SG6 Meta Reference Architecture workshop was to gather editors of standards related to reference architectures (RA).

My contribution

My participation in the ISO/IEC JTC1/SG6 Meta Reference Architecture work, with a basis in the European BDVA Reference Model and AIOTI HLA Reference Model harmonisation contributed to enhancing the impact of these approaches in the future international ISO/IEC JTC1/SG6 Meta Reference Architecture results.

EU Priorities & Gaps

The creation of a community of interest among RA related standards editors, increased consensus on the workshop topics. Draft deliverable D1: Analysis of RA related standards, Draft deliverable D2: Convergent RAs, Draft deliverable D3: Roadmap for convergent RAs.

DATA

EC Policy Area	JTC 1 Entity	EC Policy Area	JTC 1 Entity
Home Automation	SC 25	Security & Privacy	SC 27
AI	SC 42	Quantum Computing	WG 14
IoT	SC 41	Trustworthiness	WG 13
Open Source	SG OSS	EdTech	SC 36
IT Gov	SC 40	3DP/AM	WG 12
Data Mgmt	SC 32	Sustainability of IT	SC 39
Smart Cities	WG 11	Cloud	SC 38

JTC 1 PoW closely aligned with EC Policy priorities 2020-24

Twin transitions (green, data)

Many of the topics included in Open Call # 1 relate to ongoing JTC 1 work

…. Experts needed !!

⊙ **ISO/IEC AWI 29187-1**

Information technology — Identification of privacy protection requirements pertaining to learning, education and training (LET) — Part 1: Framework and reference model

⊙ **ISO/IEC WD 5087-3**

Information technology — City data model — Part 3: Service level concepts -Transportation planning

⊙ **ISO/IEC WD 4879**

Information technology — Quantum computing — Terminology and vocabulary

⊙ **ISO/IEC WD TS 24462**

Ontology for ICT Trustworthiness Assessment

⊙ **ISO/IEC PDTR 30133**

Information technology — Data centres — Guidelines for resource efficient data centres

⊙ **ISO/IEC AWI TR 24027**

Information technology — Artificial Intelligence (AI) — Bias in AI systems and AI aided decision making

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Title of the proposed deliverable.

English title:

Information technology -- Security techniques -- Privacy operationalisation model and method for engineering (POMME)

French title:

Titre manque

(In the case of an amendment, revision or a new part of an existing document, show the reference number and current title)

Scope of the proposed deliverable.

This document describes a model and method to operationalize privacy principles into sets of controls and functional capabilities.
• the method is described as a process following ISO/IEC/IEEE 24774;
• it operationalizes ISO/IEC 29100;
• it is intended for engineers and other practitioners developing systems controlling or processing PII;
• it is designed for use with other standards and privacy guidance;
• it supports networked, interdependent applications and systems.

1st Open Call Topic Priorities

We have chosen to focus our ten calls around macro-areas of the key strategic orientations of the Strategic Plan In The Horizon Europe Framework Programme and have chosen, extremely relevant for 2020 **"ICT for Healthcare"** as our first priority topic for the first StandICT,eu Open Call.

Other topics where applicants may apply to are listed here and we welcome your applications from the following areas:

- Cloud computing
- Public sector information, open data and big data
- Internet of Things (IoT)
- Cybersecurity / network and information security
- Electronic identification and trust services including e-signatures
- Privacy
- Accessibility of ICT products and services
- Artificial Intelligence
- 3D Printing
- Emergency communications
- eGovernment
- e-Procurement – pre- and post award
- e-Invoicing
- Smart cities and communities/ technologies and services for smart and efficient energy use
- ICT Environmental impact
- Identity Management and Anonymisation

- Advanced manufacturing
- Trusted Information
- Open Source
- Machine Learning
- Digital Twins
- Quantum Computing
- Management of identities for smart organizations
- Cross Domain Technologies
- Education

- IT Governance

- IT Service management

Thanks from

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ICT STANDARDISATION OBSERVATORY AND SUPPORT FACILITY IN EUROPE

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