StandICT.eu: Supporting SDO Work Group Activities

ISO/IEC JTC 1 perspective

StandICT.eu has received funding from the European Union’s Horizon 2020 Research and Innovation programme under Grant Agreement No. 951972.
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

Established 1987

- PUBLISHED ISO STANDARDS:
  - 3269 related to the TC and its SCs (of which 488 under the direct responsibility of ISO/IEC JTC 1)
- ISO STANDARDS UNDER DEVELOPMENT:
  - 603 related to the TC and its SCs (of which 44 under the direct responsibility of ISO/IEC JTC 1)

- PARTICIPATING MEMBERS: 35
- OBSERVING MEMBERS: 65

Including...

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

- Working Groups (WG):
  - WG 11 Smart Cities
  - WG 12 3DP&S
  - WG 13 Trust-worthiness
  - WG 14 Quantum

- Sub-Committees (SC):
  - SC 42 AI
  - SC 47 Cyber
  - SC 38 Cloud
  - SC 36 EdTech

- Advisory Groups (AG):
  - AG 2 Emer Tech
  - AG 3

- ISO Council
  - TMB
- IEC Council Board
  - SMB
- ITTF

- ISO/IEC JTC 1

Inc. Autonomous vehicles; RA; VR/AR; BCI
Inc. Digital Twin
Looking back: StandICT Phase 1

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

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)
Funded experts - some examples

Alain De Greve
Job Title, Organisation: Owner, D.I.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 JTC1/SC27 (ISO) and SC27 (CEN), 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.

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 1st Meeting.
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 48 Cloud Plenaries.
Heading numerous ad hoc and CPM meetings at ISO/IEC JTC 1/SC 42 AI.
Representing ISO/IEC JTC 1/SC 42 as Ireland at JTC 1.

EU Priorities & Gaps
Privacy and personally identifiable data protection; ethical use of AI; multilingualism; transparent interoperability through standardisation.
Funded experts - some examples

Karen Lauberg Lauritsen
Job Title: 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

EU Priorities & Cuts
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 digitalisation and emerging technologies across the EU Digital Single Market.

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

Challenges Addressed
The objective of the ISO/IEC JTC1/SC6 Meta Reference Architecture workshop was to gather editors of standards related to reference architectures (RA).

My contribution
My participation in the ISO/IEC JTC1/SC6 Meta Reference Architecture work, with a basis in the European BDVA Reference Model and AOTI HLA Reference Model harmonisation contributed to enhancing the impact of these approaches in the future international ISO/IEC JTC1/SC6 Meta Reference Architecture results.

EU Priorities & Cuts
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.
### Looking forward – JTC 1 & EC priorities

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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
Looking forward – 1st Open call

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

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

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