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1	FOR INFORMATION
2	SUBJECT:
Presentation from the European Commission: Al and Links to Standardization	
3	BACKGROUND:
	attached presentation was given by the European Commission to the Opening Plenary of /IEC JTC 1/SC 42 "Artificial Intelligence".
4	ANNEXES:



ISO/IEC JTC 1/SC 42

Artificial intelligence

Secretariat: ANSI (United States)

Document type: Other document (Defined)

Title: Presentation from the European Commission: AI and Links to

Standardization

Status: The attached presentation was given by the European

Commission to the Opening Plenary of JTC 1/SC 42

Date of document: 2019-04-18

Source: European Commission

Expected action: INFO

Email of secretary: hbenko@ansi.org

Committee URL: https://isotc.iso.org/livelink/livelink/open/jtc1sc42



Artificial Intelligence for Europe

& links to standardisation

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Communication of 25 April 2018 : AI FOR GOOD AND FOR ALL



Large economic and societal benefits BUT Fierce international competition



Financing: R&I & deploy + Data



Evolution of the labour landscape & skills gaps





Acceptance/Ethical issues
Inclusivity: AI available/Usable for All
Trust & Data
Legal framework & liability

→ Standardisation and interoperability Challenges





AI Communication & Standards



- **Testing of and experimenting** with AI products and services is crucial to make them market ready, ensure compliance with **safety standards**.
 - The EU safety framework [...] has led to the development of a solid body of standards in the area of AI-enabled devices that is continuously being adapted in line with technological progress.
- The further development and **promotion** of such **safety standards** and **support** in **EU and international standardisation organisations** will help enable European businesses to benefit from a **competitive** advantage, and increase **consumer trust**.
 - Standards should also cover **interoperability**, which is crucial for offering **consumers greater choices** and ensuring **fair competition**.



COORDINATED PLAN on AI





Joining forces EC with MS

All Member States
+ Norway + Swizerland
signed a Declaration of cooperation on
Artificial Intelligence.

7 December 2018: Coordinated plan on Al published Member States agreed to work together on:

- ensuring Europe's competitiveness in the research and deployment of Al
- dealing with social, economic, ethical and legal questions





Coordinated Plan on Al & Standards



- Standardisation will also be essential for the development of AI in the Digital Single Market, helping notably to ensure interoperability
 - data [...] made interoperable[...] data formats that are open, FAIR, machine readable, standardised and documented, both in the interaction between public and private sectors, within sectors and across sectors
- The Public Sector Information (PSI) directive [...] reuse of such data by businesses [...] facilitating aggregation [...] **interoperable data and meta-data formats** as well as the deployment of **standardised Application Programming Interfaces** (APIs) based on the European Interoperability Framework (EIF)
 - [...] promote the accessibility, interoperability and re-usability of data in the sectors of high relevance for AI, such as health, environment, mobility, security, migration and a sustainable and circular bioeconomy and food system.



Coordinated Plan on Al & Standards



- facilitate access to, connectivity, **interoperability** and aggregation of public data [...] Application Programming Interfaces (APIs) for accessing data of dynamic nature. [...] **support the definition and application of data and metadata standards** in close cooperation with relevant stakeholders (e.g. European standardisation bodies). The Commission is planning to make available up to **EUR 100 million** from Horizon 2020 (H2020) and Connecting Europe Facility (CEF).
 - The Commission will also support building rare disease registries.
 [...]interoperability [....] support clinical research and decision making.
- Member States are encouraged to connect existing and planned national investments in platforms with EU level activities in order to ensure scale up and interoperability.
 - [...] creation of a **common European Data Space** that makes data easily available **for re-use** to innovators, businesses and public sector for up to **EUR 1 billion** through the Digital Europe Programme
 - The joint development of international standards will facilitate AI deployment and acceptance.



EC initiatives on Al



High-Level Expert Group on Al

Al Alliance

European Al on Demand Platform

AI-Watch

Additional activities

Looking ahead: Digital Europe Programme







High-Level Expert Group on Al

→ Draft ethics guidelines for trustworthy AI







- → Working Document for stakeholders' consultation published on 18 Dec.
- → This week: Publication of updated document
- Foundations of trustworthy Al
- II. Realising trustworthy AI
 - Requirements of trustworthy AI
 - 2. Technical and non-technical methods to realise trustworthy AI
- **III.** Assessing Trustworthy Al
 - → IMPACT ON STANDARDS
 - → NB: the high level expert group proposes a definition of AI



The European Al Alliance



Forum engaged in open discussion of AI development and its impacts

Full mobilisation of all stakeholders needed: industry, academia, civil society

Supported by high-level expert group on AI and an online platform

Goal: Making it the world-wide reference platform for thinking and reflection on Al







H2020 ICT Work Programme 2018-20 EUROPEAN AI-ON-DEMAND PLATFORM

- 20 M€, 3 years, 71 partners from 21 countries
- Develop a European Al ecosystem
 - knowledge, algorithms, tools and resources available and making it a compelling solution for users, especially from non-tech sectors.
- Build on and link to existing relevant initiatives
 - platforms, data repositories, cloud computing, HPC, etc.
- Facilitate the interaction with existing data portals, and resources -> support interoperability
- Connect and cooperate with other relevant activities of this work programme
 - DIHs, pilots, etc.





MONITORING: AI WATCH

https://ec.europa.eu/knowledge4policy/ai-watch/about_en

Monitoring the uptake of AI across the economy and the impact on the labour market

Monitoring Policy initiatives in Member States

Monitor technology and capacity:

- Benchmarking the technical capabilities
- Showcasing current capabilities
- Al index
- providing a realistic understanding of where the technology stands
 - → Needs commonly agreed terminlogy/vocabulary



ADDITIONNAL EC INITIATIVES



 Supporting European Experts contribution to International ICT Standardisation Activities



https://www.standict.eu/

- ICT **STANDARDS** AND ONGOING WORK AT INTERNATIONAL LEVEL IN THE **AI** FIFID **A LANDSCAPE ANALYSIS**
- COVR cobot safety certification http://safearoundrobots.com/

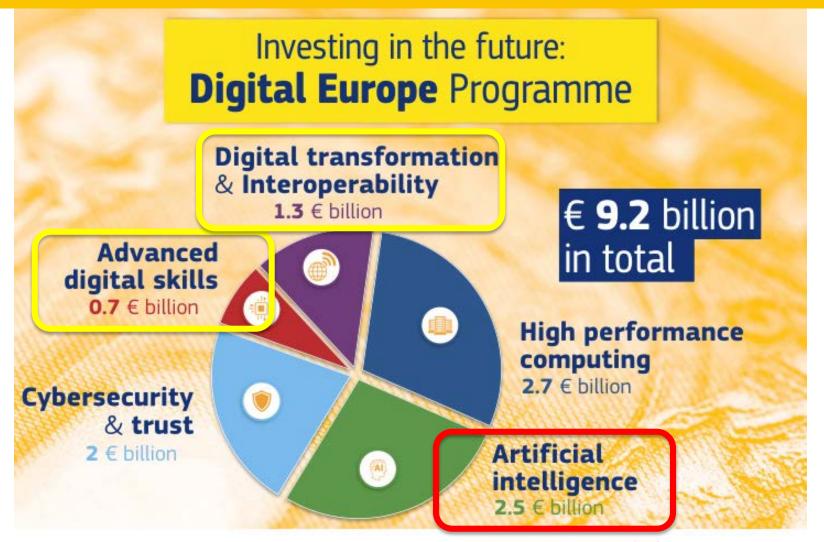


Help companies (technically and financially) to analyze, test and validate the safety

- Study on Standards Landscaping and Gap Analysis on the Safety of Autonomous Robots Controlled on Al
 - Special focus on health, domestic, industrial and field robots
- Rolling Plan on ICT Standardisation: identifies ICT standardisation activities in support of EU policies.
 - Big Data (top priority)
 - Robotics
 - Artificial Intelligence



DIGITAL EUROPE PROGRAMME: CAPACITY BUILDING AND DEPLOYMENT









Thank you

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