

# AI standardisation in Europe – how and what

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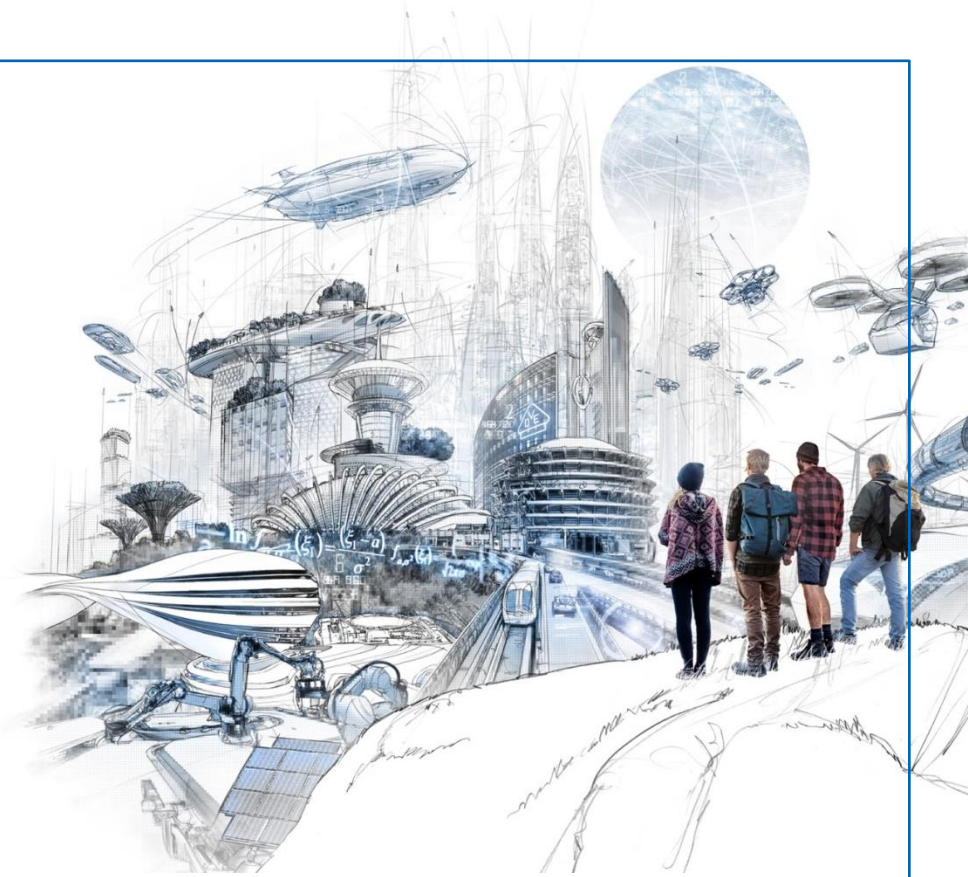
Chair CEN-CENELEC JTC 21

Convenor IEC SEG 10 AI Ethics

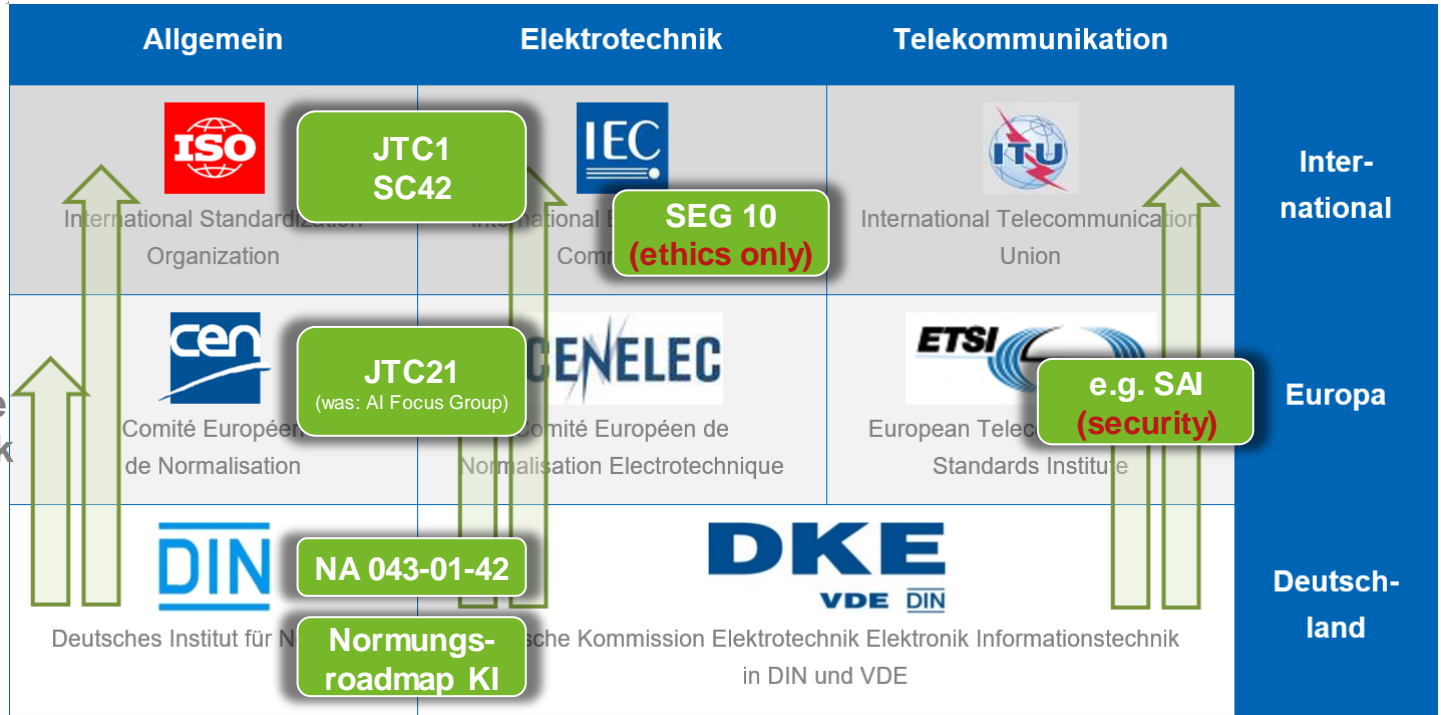
OECD ONE.AI

StandICT / European Observatory of ICT Standardisation

**TÜV AI Conference**  
**2021-10-27**



# AI standardisation: core structures and interface to regulation



 New Legislative Framework

**21.04. Draft Regulation**

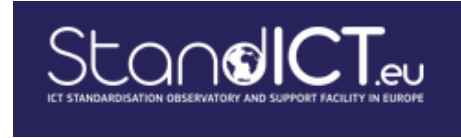
# Examples of further players in the AI standardisation and regulation landscape



ONE.AI WG1: Classification / Risk Assessment



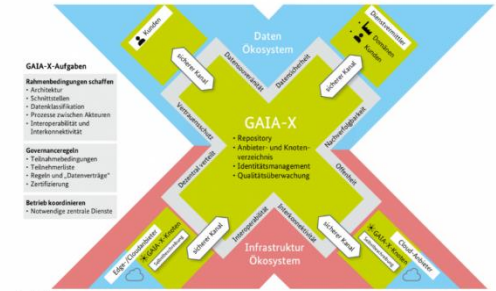
CAHAI



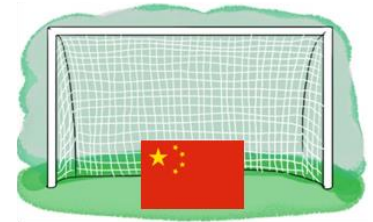
EUOS WG AI: Landscape and Gap Analysis

**IEEE SA**  
STANDARDS ASSOCIATION

P7000 series



# Focus on a realistic and persuasive European approach for harnessing the huge potential of AI



Protect the interests of Europe with standards that -

- Implement European rights, values and principles
- Protect European citizens and promote European industry

# Focus on a realistic and persuasive European approach for harnessing the huge potential of AI

Starting hypotheses April 2019

## **ethics / trustworthiness in AI**

building on work at national levels as well as the CEN/CENELEC trustworthy AI in September 2018

## **data efficiency and broader spectrum of AI methods**

for AI to be exploited e.g. in industrial applications with smaller data volumes as well as for dealing with rare but critical situations

## **reliable jurisdiction and data protection**

demonstrated e.g. by Europe introducing GDPR and striving to square the circle of privacy vs. big data analysis in areas such as health, smart homes/cities or mobility

## **interoperability of AI algorithms, training data sets etc.**

as a way of bringing together ecosystems of smaller organisations to compete with GAFAs et al.

# CEN-CENELEC AI Focus Group (2019-2021)



## Mission

- What in AI is specific or particularly relevant to Europe?
- Where / How should it be addressed?

## Two "clients"

- Standardisation community (including SMEs) / CEN-CENELEC
- European Commission as the regulator

## Some of the focus areas


- Safeguarding **European values / AI Ethics** / risk perspective / standardised labelling
- Digital sovereignty
- Standardisation needs – **Accountability, Quality**, Data for AI, Security, Safety, Engineering, **Ethics**, ...
- R&D needs
- Testing / conformity assessment



## Mission

- Create **standardisation deliverables for AI** and its use of related data
- Consider **adoption of international standards** relevant to Europe
- Address European **market and societal needs**,  
Underpin **EU legislation**, policies, principles and values

## Numerous interfaces, e.g. as liaisons, observer status etc.

- Standardisation community in Europe (Focus on CEN-CENELEC, ETSI)
- Standardisation community internationally (ISO/IEC JTC1/SC42, **IEC SEG10**, IEEE, ...)
- European Commission
- Annex 3 organisations in Europe
- Initiatives such as  **BDV** BIG DATA VALUE ASSOCIATION



## Some current ideas in addition to the AI Focus Group Roadmap

- Augmented Goal Specification
- AI Conformity Assessment
- Green and Sustainable AI
- Speech Recognition
- Data Governance & Quality for AI

**Kick-off 2021-06-01**  
**~ 100 participants**

Concluding July 2021.  
Has shown that **substantial international consensus on AI Ethics** is possible when slicing the challenge appropriately.  
Broader approach „**Ethics in Standards**“ recommended.

TOP DOWN

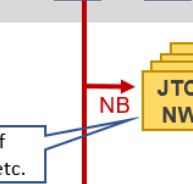
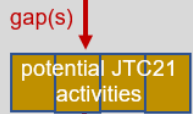
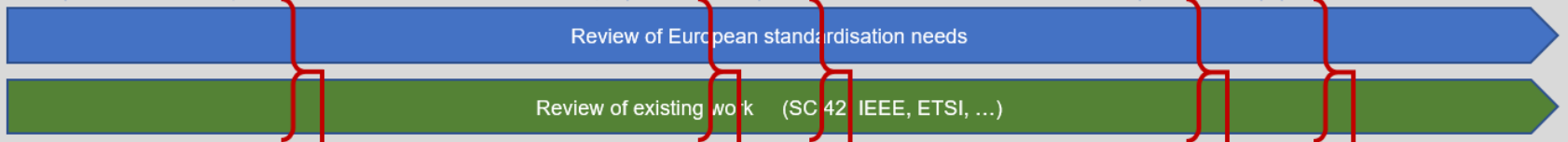
SAG roadmapping

AI FG report  
10/2020

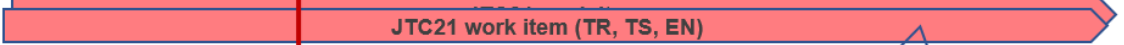
1st draft AI Act  
04/2021

EU standardisation  
request(s)

Nth draft(s)  
AI Act



8-12 weeks



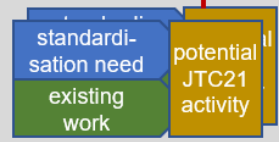
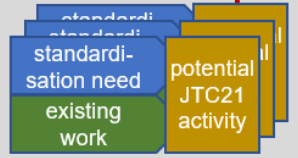
Including adoption/adaption of existing standards, CWAs, IWAs etc.

NB

JTC21 ballot (all NBs)

BOTTOM UP

JTC21 adhoc, national committees



Industry & expert insights

Industry & expert insights

A work item could also be a CWA which is set up with a simpler process

JTC21 creation of work items

# Thank you!

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**VDE**

# EU regulation: risk-based approach

## Standardisation has ~2 years to underpin EU framework

