

# AI Standards and Certification to support regulatory compliance

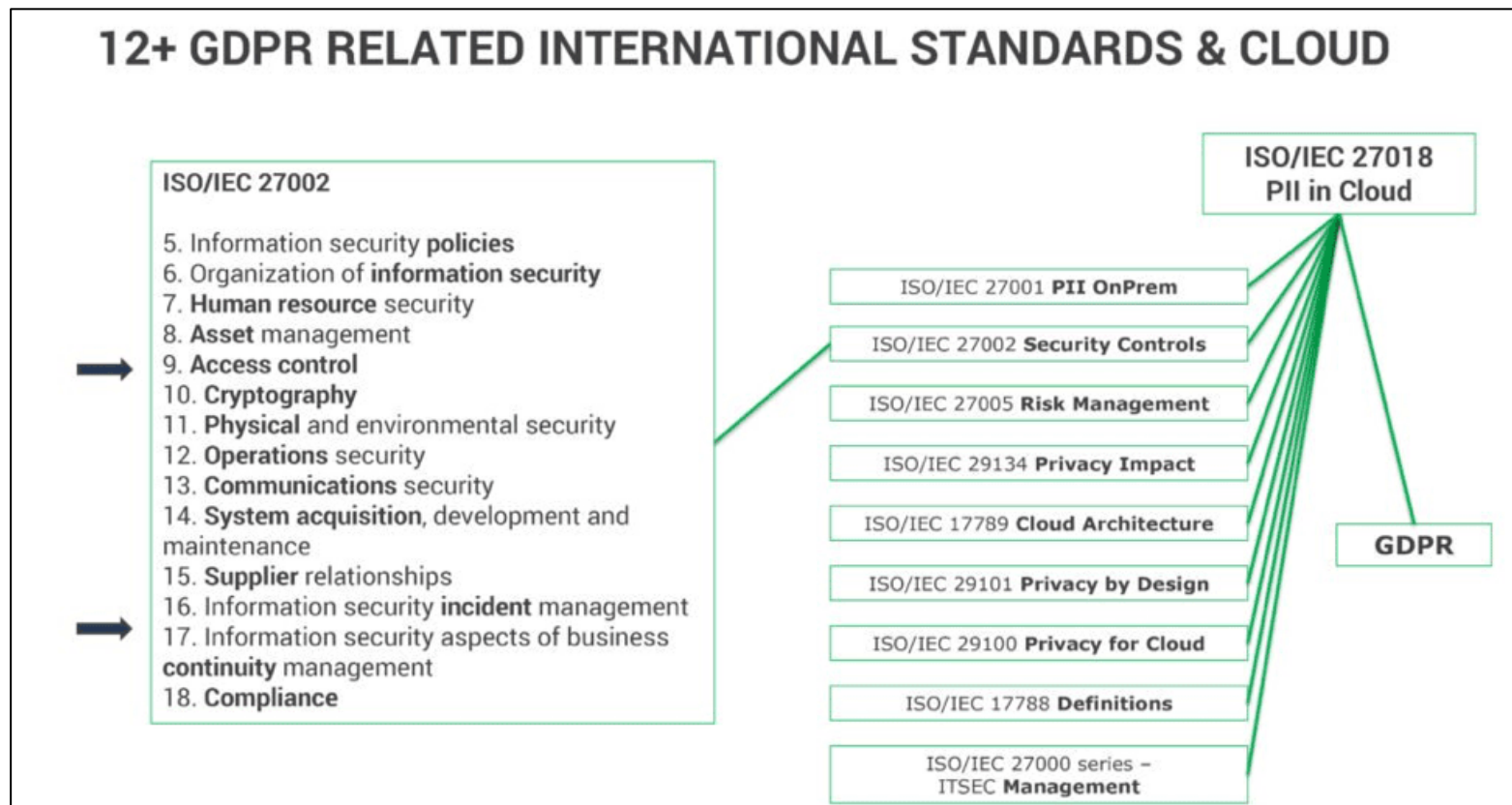
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**Chair of IEEE P7003 Standard for Algorithmic Bias Considerations**



*The material contained in this presentation may reflect the opinions of its authors and not necessarily those of IEEE.*

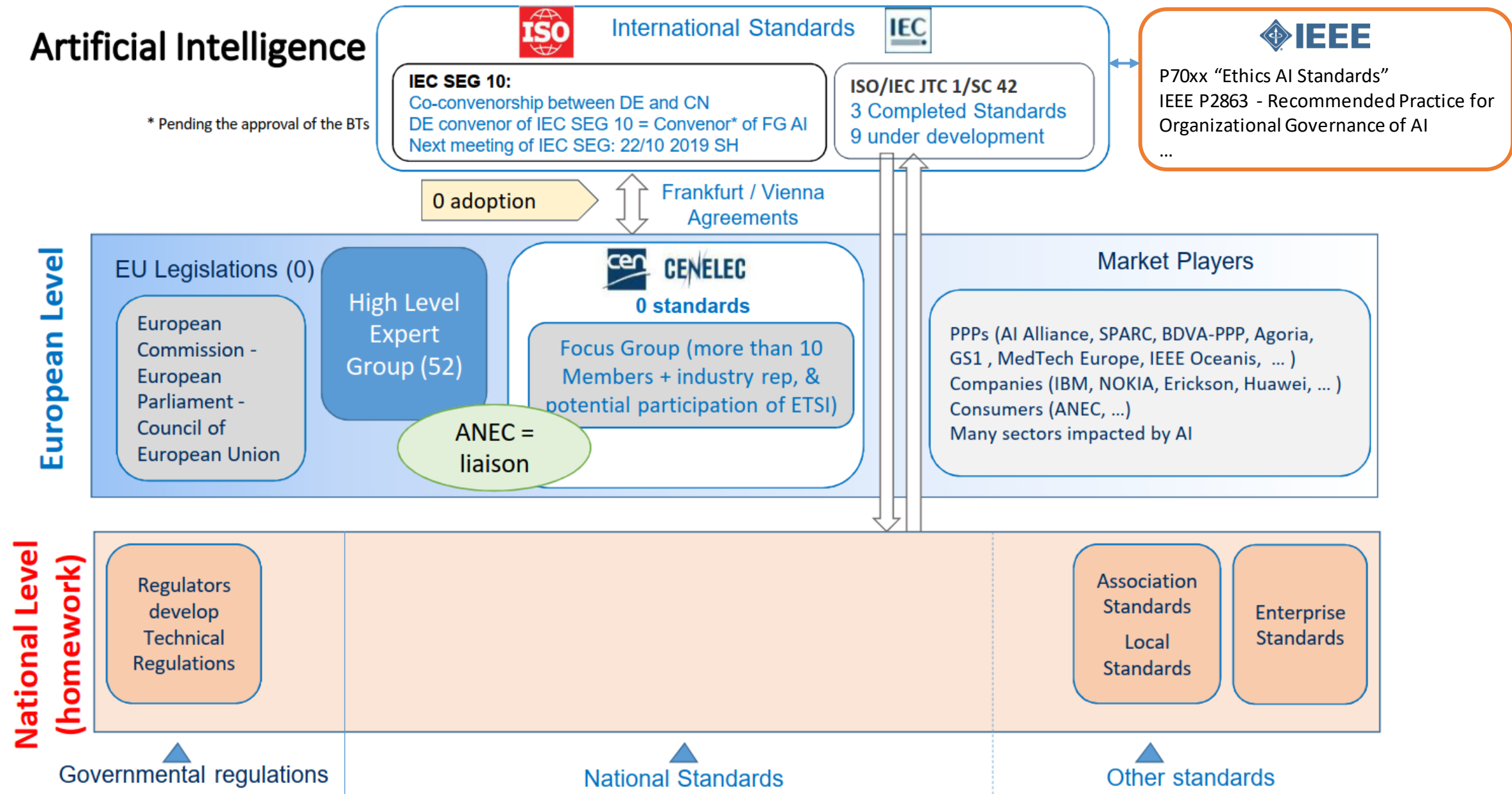
# Standards and Regulation

- Governments often draw on standards when crafting legislation
- Standards establish technical detail, allowing legislation to concentrate on policy objectives
- Standards can be one way to establish regulatory compliance



# Artificial Intelligence

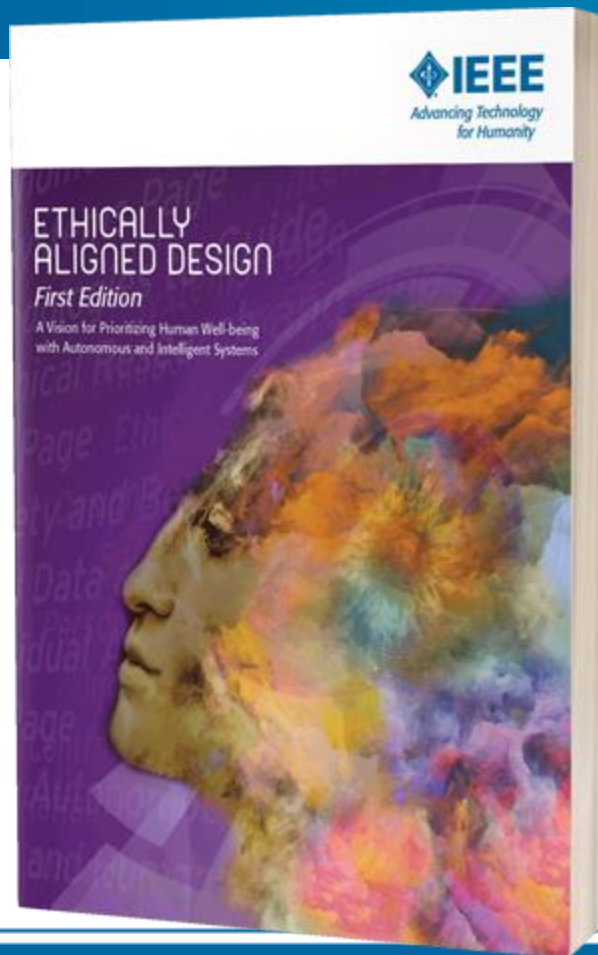
\* Pending the approval of the BTs





# The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems

An incubation space for new standards and solutions, certifications and codes of conduct, and consensus building for ethical implementation of intelligent technologies



**IEEE 7000-2021:** Model Process for Addressing Ethical Concerns During System Design

**IEEE P7001:** Transparency of Autonomous Systems

**IEEE P7002:** Data Privacy Process

**IEEE P7003:** Algorithmic Bias Considerations

**IEEE P7004:** Child and Student Data Governance

**IEEE P7005:** Employer Data Governance

**IEEE P7006:** Personal Data AI Agent Working Group

**IEEE P7007:** Ontological Standard for Ethically Driven Robotics and Automation Systems

**IEEE P7008:** Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems

**IEEE P7009:** Fail-Safe Design of Autonomous and Semi-Autonomous Systems

**IEEE 7010-2020:** Recommended Practice for Assessing the Impact of Autonomous and Intelligent Systems on Human Well-being

**IEEE P7011:** Process of Identifying and Rating the Trustworthiness of News Sources

**IEEE P7013:** Benchmarking of Automated Facial Analysis Technology

# The Ethics Certification Program for Autonomous and Intelligent Systems (ECPAIS)

Developing metrics and processes towards the implementation of a certification methodology addressing transparency, accountability and algorithmic bias

## < Industry Connections

Criteria and process for a certification / mark focused on:

- Transparency in A/IS
- Accountability in A/IS
- Algorithmic Bias in A/IS



## About

The goal of The Ethics Certification Program for Autonomous and Intelligent Systems (ECPAIS) is to create specifications for certification and marking processes that advance transparency, accountability and reduction in algorithmic bias in Autonomous and Intelligent Systems (A/IS).



