

**JTC 21 PRELIMINARY VIEWS  
ON  
AI ACT TIMELINE  
AND  
HORIZONTAL/VERTICAL INTEGRATION**

**Patrick Bezombes  
CEN CENELEC**



# **REGULATORY CONTEXT & TIMELINE**

# Horizontal/Vertical regulation context

The AI Act (AIA) proposal requires **full consistency** with existing Union legislation applicable to sectors where high-risk AI systems are already used or likely to be used in the near future (Annex II.A and Annex II.B)

Policy aim: all high risk AI systems must comply with horizontal requirements of the AIA irrespective of a sector.

Two main processes provided in the AIA to achieve this in practice (important differences between e.g. health and automotive)

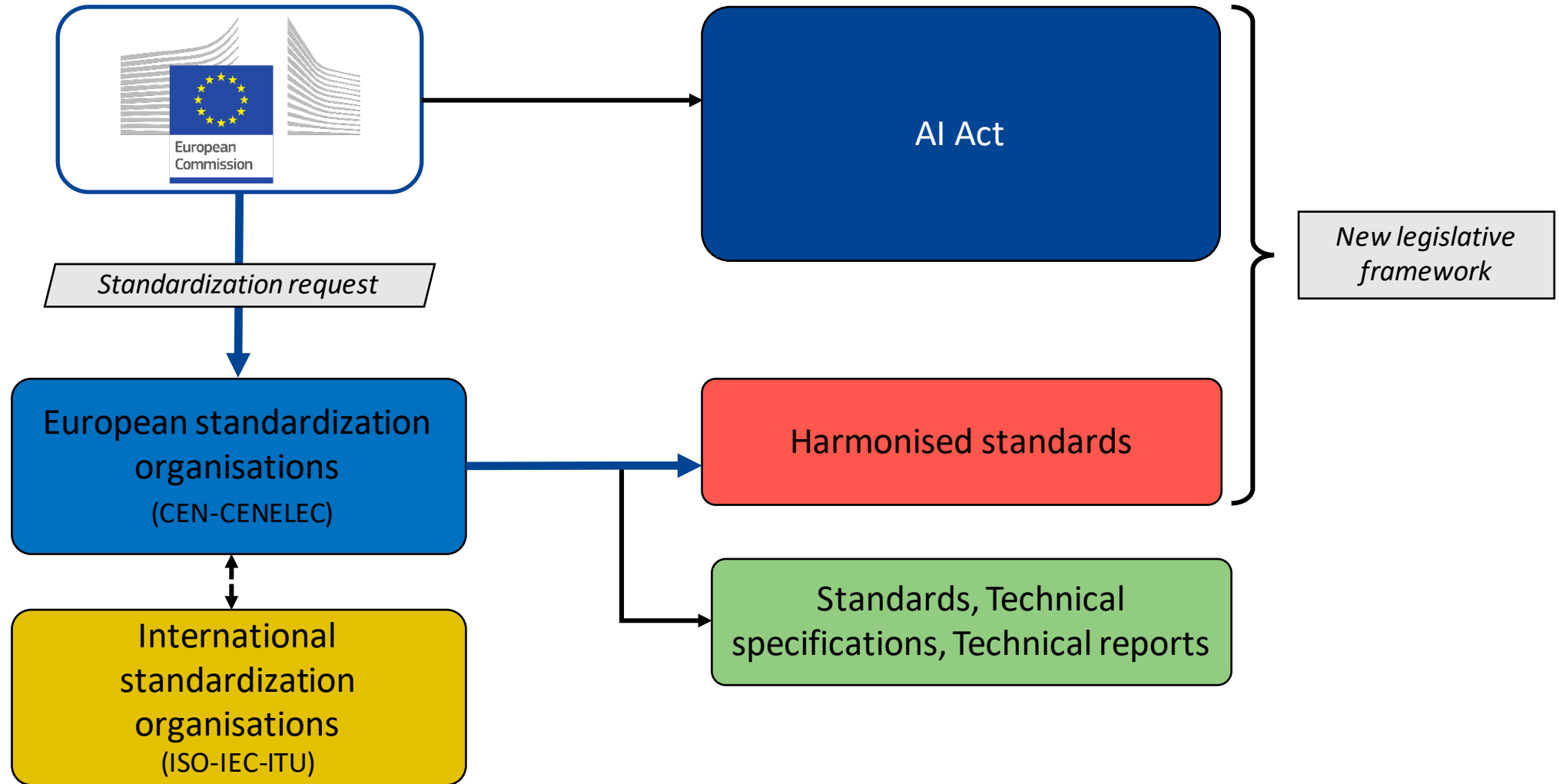
**A. New Legislative Framework (NLF) legislation (e.g. machinery, medical devices, toys)**

**B. Old Approach legislation (e.g. aviation, cars)**

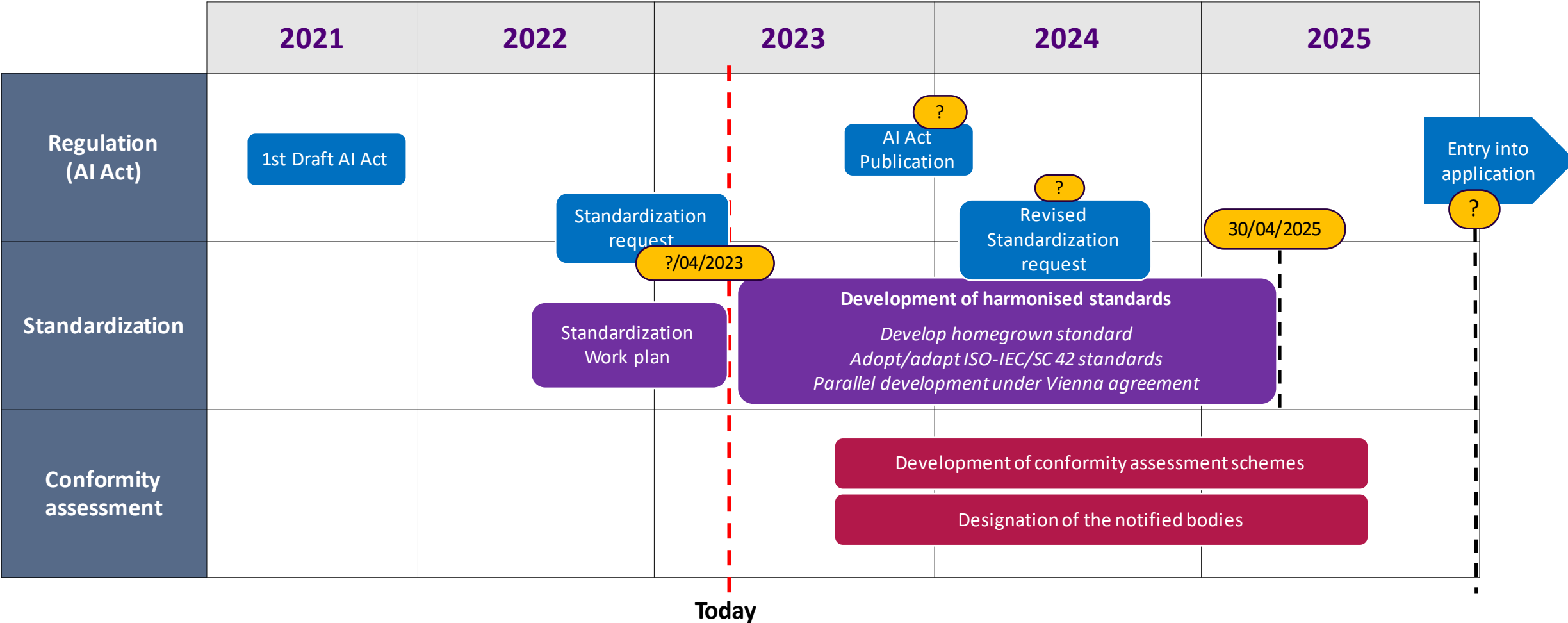
The ex-ante essential requirements for high-risk AI systems set in the AIA will have to be taken into account when adopting relevant implementing or delegated legislation under those acts.

# New regulatory and standard framework on AI

## ARTICULATION BETWEEN REGULATION AND STANDARDIZATION



# General timeline for horizontal harmonized standards development



# « HORIZONTAL » CONTEXT

# Request for standardization to strengthen the AI act

## Standardization request

1. **risk management system** for AI systems
2. **governance and quality of datasets** used to build AI systems
3. **record keeping** - built-in logging capabilities in AI systems
4. **transparency and information** to the users of AI systems
5. **human oversight** of AI systems
6. **accuracy** specifications for AI systems
7. **robustness** specifications for AI systems
8. **cybersecurity** specifications for AI systems
9. **quality management system** for providers of AI system
10. **conformity assessment** for AI systems

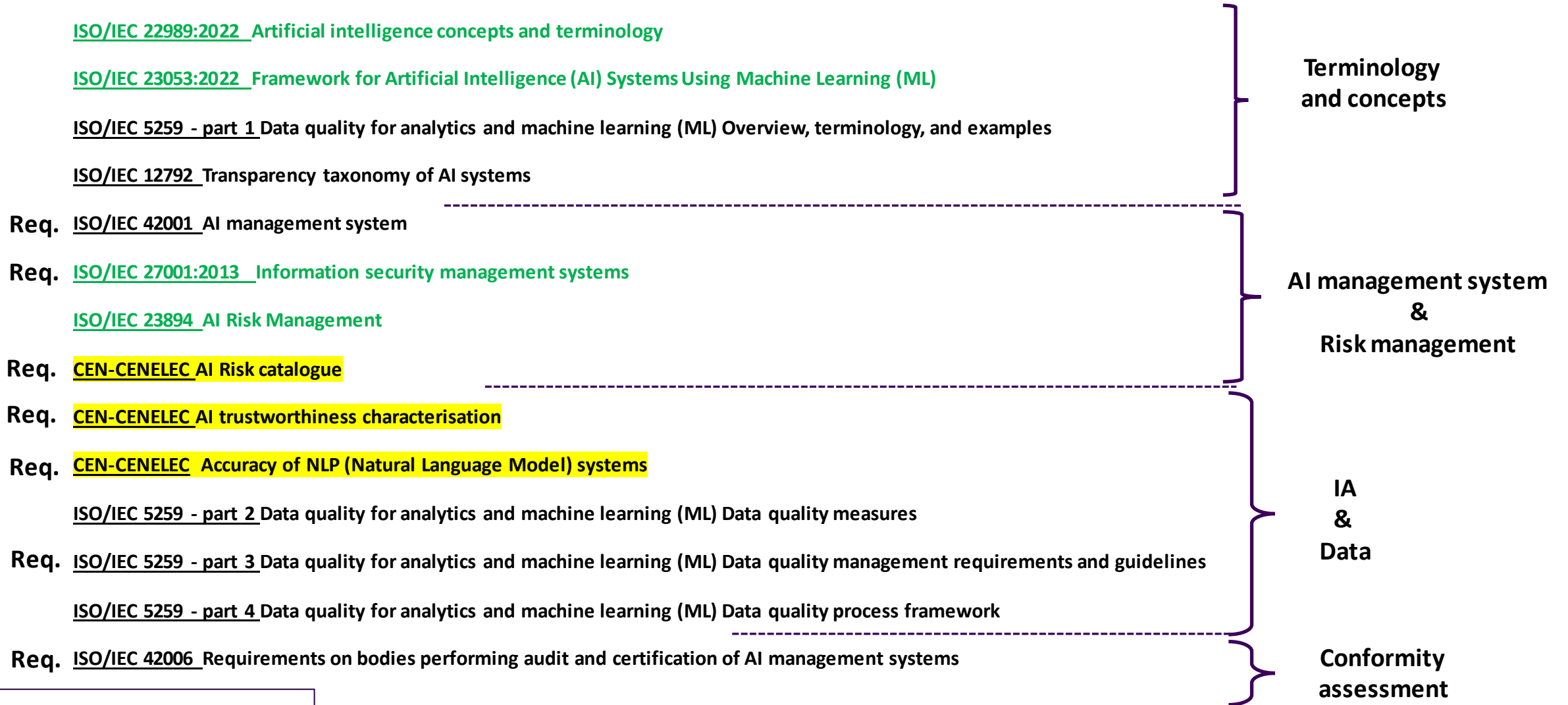


“ We need a horizontal approach to unleash the potential of artificial intelligence in all areas. **A cross-cutting technology can only be effectively regulated by horizontal rules** that provide solutions to common challenges.

Commissioner Thierry Breton ”

- Set of AI standards to be published by Q2 2025
- CEN-CENELEC JTC 21 will:
  - Adopt/adapt ISO-IEC/SC 42 standards
  - Develop standards jointly with SC 42
  - Develop homegrown standard if/when needed

# Draft standardization work programme for the AI Act (category view)



Green : published  
Black : in development

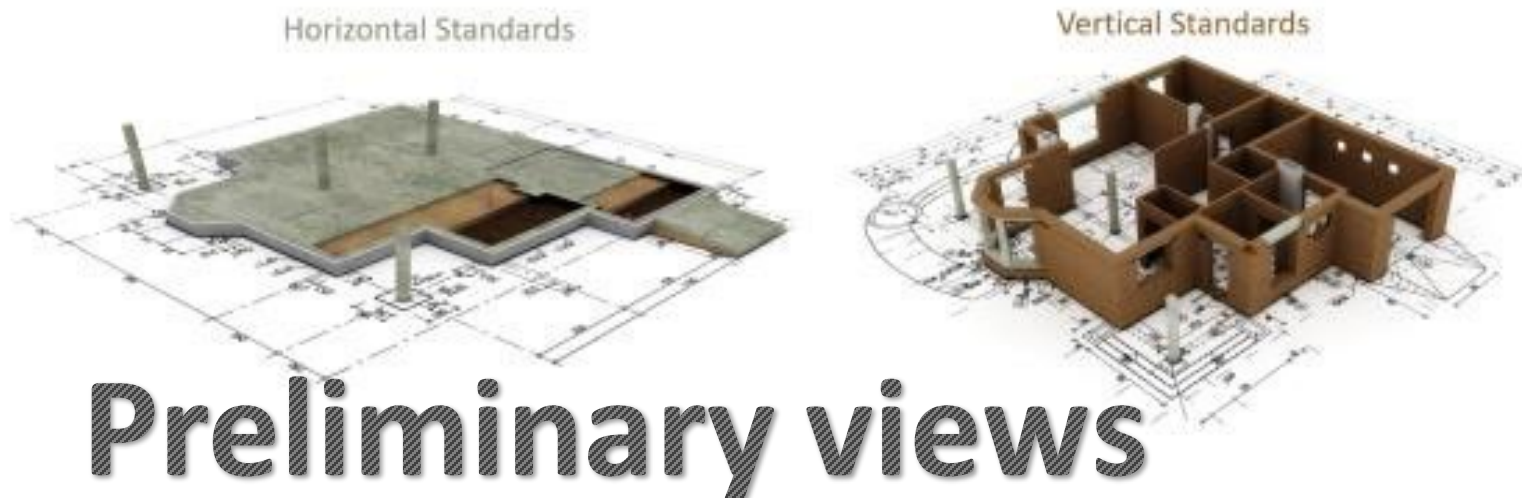




# **HORIZONTAL APPROACH & VERTICAL STANDARDIZATION**

# Principles for Horizontal/Vertical integration

- Horizontal standards set the foundations in line with the Standardization Request
- Horizontal standards set terminology and requirements aligned with the AI Act
- Vertical standards should align with the terminology and requirements of the sector legislation
- Vertical standards build upon horizontal standards
- Vertical standards only add sector or technology specifics



# Anticipating and addressing « inconsistencies »

Verticals should contribute to the development of Horizontal harmonized standards (not the reverse)

If horizontal terminology and requirements are not covering sectoral needs:

- Complement should be developed by Verticals

If horizontal terminology and requirements conflict with sectoral regulation:

- Justified adaptation/derogation should be done by Verticals

## Preliminary views

# « Horizontal/Verticals » integration options

		Potential actions by « verticals »
Option 1 Fit to verticals	Horizontal	Contribution to horizontal standards development
Option 2 Complemented	Vertical Horizontal	Contribution to horizontal standards development + complement(s) to develop
Option 3 Adapted	Vertical Horizontal	Contribution to horizontal standards development + adaptation(s) to develop
Option 4 Silo	Horizontal Vertical 1 Vertical 2 ... Vertical x	<b>Not preferred options</b>
Option 5 Horizontal adaptation	Vertical 1 Vertical 2 ... Vertical x Horizontal	

Preliminary views

# Conclusion

**Close cooperation between JTC 21 and verticals is essential to:**

- ensure compatibility**
- avoid any possible inconsistencies between horizontal and sector specific standards.**

# SPARE

# Horizontal requirements & Vertical specificities

**Base line: Strong horizontal/transversal baseline in AI**

## **Horizontal AI requirements**

- **AI Terminology and concepts/taxonomy/ontology**
- **Technical requirements frameworks (trustworthiness, metrics, control..) on AI components**
- **AI management framework, Risk management framework, risk catalogue (not exhaustive)**
- **....**

## **Vertical specificities**

- **Established « Verticals » standards landscape, including harmonized standards**
- **Use cases**
- **Context/Environnement**
- **Operational domain**
- **Regulatory requirements**
- **...**

## **Integration of Horizontal requirements into vertical domain**

- **Risk assessment and treatment concepts: further specification/ operationalization/integration coming from AI horizontal standards**
- **Technical requirements on AI systems (and components): further specifications coming from AI horizontal requirements/standards**
- **Integration of AI specific standards into existing domains specific assessment schemes**
- **...**

# Preliminary views