

#Standards4Al

'Putting Science Into Standards' workshop

Welcome! We will start soon



slido.com #Standards4AI







#Standards4AI

'Putting Science Into Standards' workshop

Flash summaries of parallel sessions

Creating and documenting datasets for AI



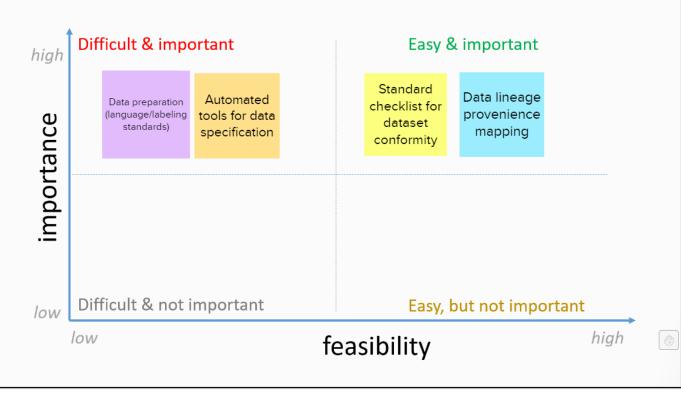
Panelists:

- Felix Naumann, Hasso-Plattner-Institut
- Emmanuel Kahembwe, Univ Edinburgh
- Kasia Chmielinski, Dataset Nutrition Project
- Flora Dellinger, Confiance.ai

Rapporteurs: Isabelle Hupont Torres

3. Prioritisation

Based on the feasibility and importance of standardization activities, identify priorities. Copy and paste previous sticky notes.





Data quality and bias examination and mitigation in AI

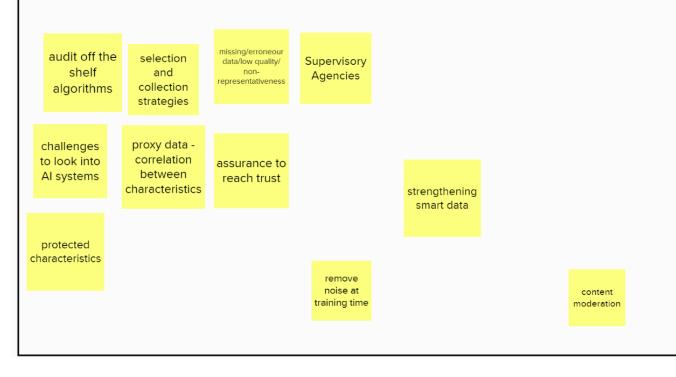
Panelists:

- Francisco Herrera, Univ Granada
- David Reichel, FRA
- Fred Morstatter, ISI
- Rasmus Adler, Fraunhofer IESE

Rapporteur: Maurizio Salvi, Alexandra Balahur

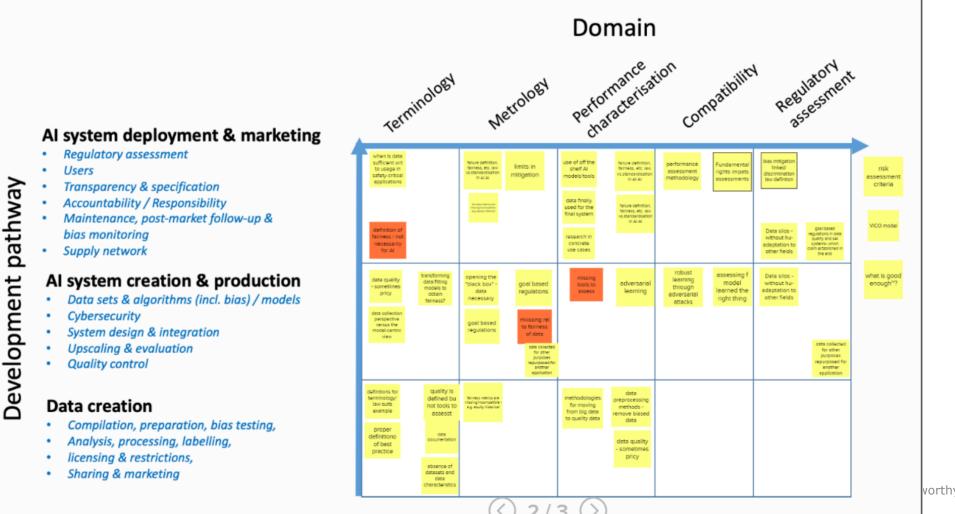
1. Brainstorming

Identify specific aspects which require standardization Identify standardization committees or working groups and existing standards





Data quality and bias examination and mitigation in AI



vorthy AI

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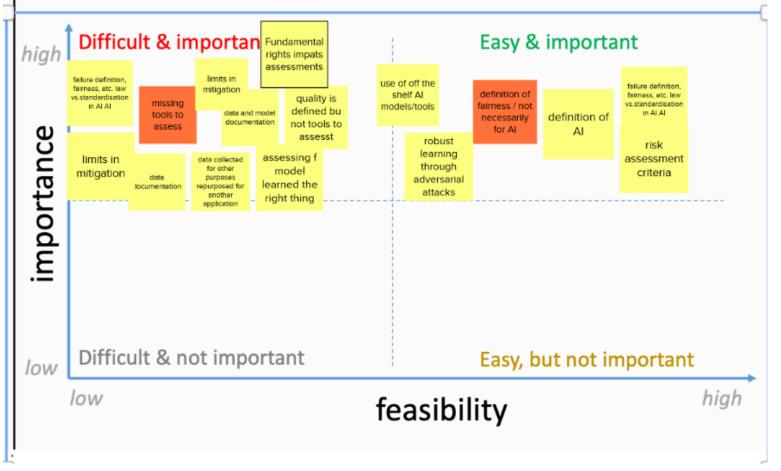


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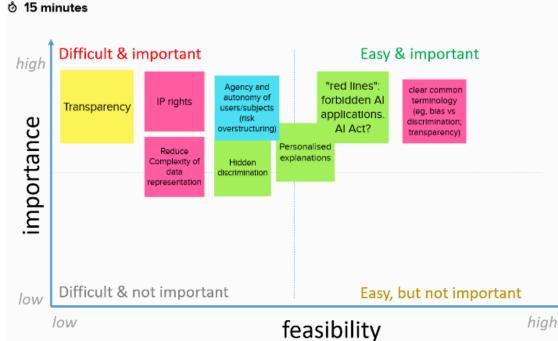
Education and employment

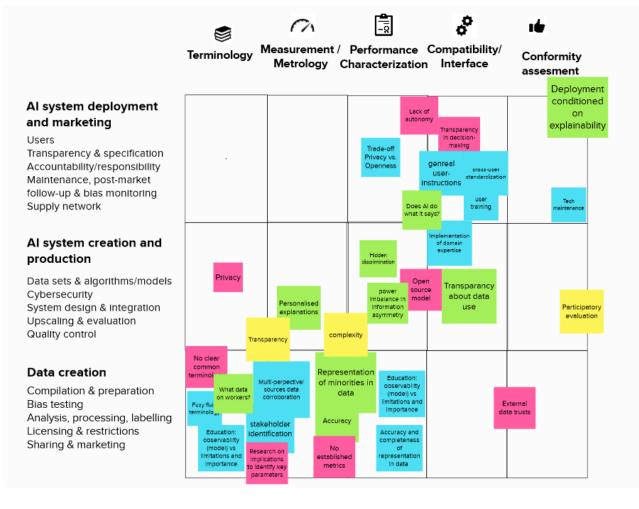




Panelists:

- Dee MASTERS, Cloister
- Nikoleta GIANNOUTSOU, JRC
- Enrique Fernández-Macías, JRC Rapporteurs: Songül Tolan, Matteo Sostero





- Data quality requirements for inclusive, non-biased and trustworthy AI

Law enforcement



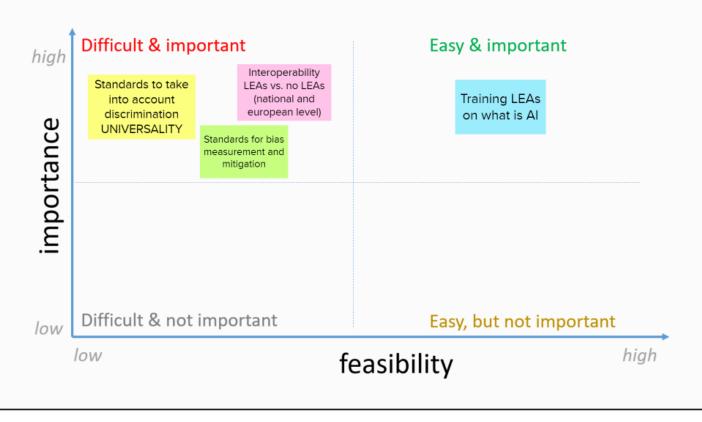
Panelists:

- Patrick GROTHER, NIST FRVT
- Javier RODRÍGUEZ SAETA, Herta
- Robin ALLEN, Cloister
- Rosalía MACHÍN PRIETO, Gov Spain

Rapporteurs: Isabelle Hupont Torres

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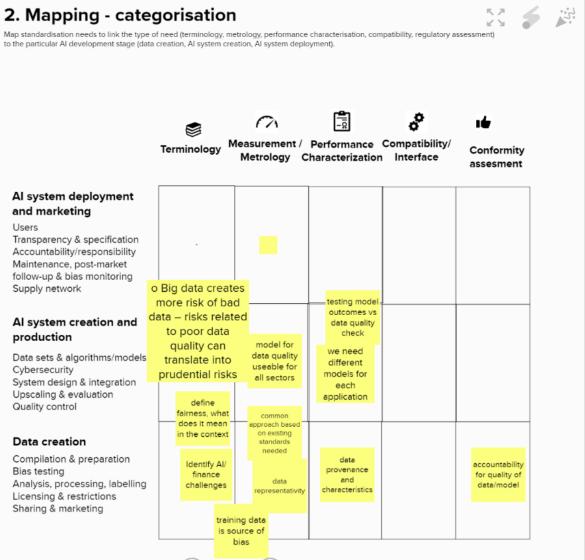


Finance

Panelists:



Karen Croxson, FCA UK Andrea Caccia, chair CEN-CENELEC JTC 19 Blockchain Jörg Osterrieder, University of Twente & Zurich University of Applied Sciences Rapporteurs: Maurizo Salvi (JRC)



Media, including social media

Session: Media, including Social Media, content moderation, recommender systems Panelists:

- Symeon Papadopoulos, Centre for Research and Technology Hellas
- Jochen Leidner, Coburg University

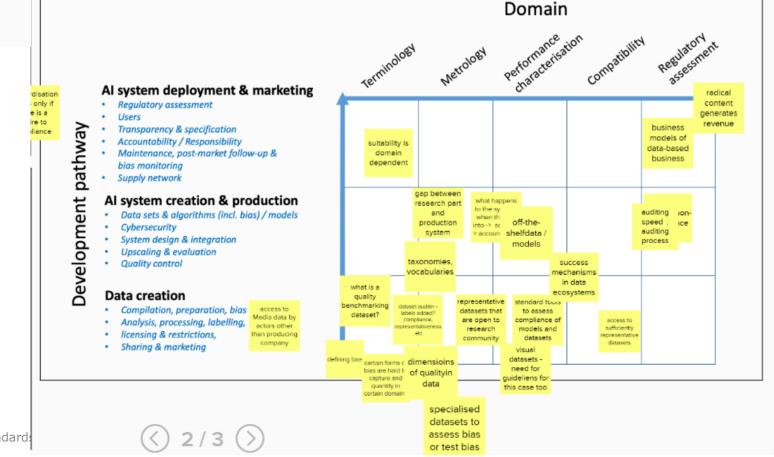
Rapporteurs: Alexandra Balahur



2. Mapping - categorisation

- Map standardisation needs for a) identifying and compiling data for eventual training of the AI system (first matrix) and b) data use within the AI system to be delivered (second matrix).
- Map required standards by considering the category of standards (x axis: terminology, metrology etc.) versus the innovation stage (y axis: technology, production, market)

30 minutes

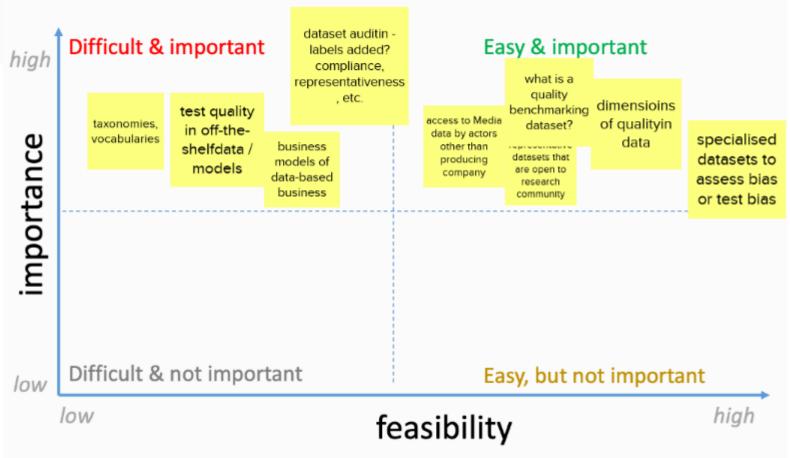


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Session "Al in medicine and healthcare"

PSIS workshop on data quality requirements for inclusive, non-biased & trustworthy AI

Dr. Claudius B. Griesinger

European Commission - Joint Research Centre (JRC)

Joint Research Centre

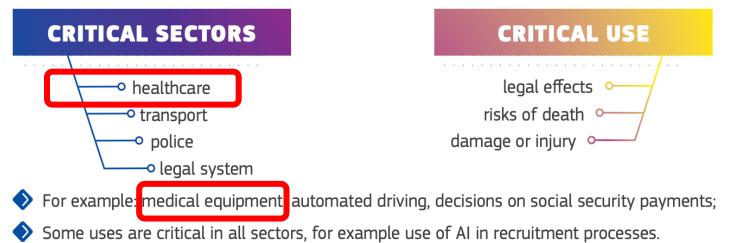
High-risk AI applications & critical sectors



The EU's approach to Artificial Intelligence (AI), based on trust and excellence, will give citizens the confidence to embrace these technologies while encouraging businesses to develop them.

What is a high-risk AI application?

When it concerns a critical use in a critical sector



AI Act risk classification and health

Al Act – Article 6 *Classification rules for high-risk Al*

(a) Al system intended to be used as a safety component or a product, or is itself a product, covered by the EU harmonisation legislation (Annex II)

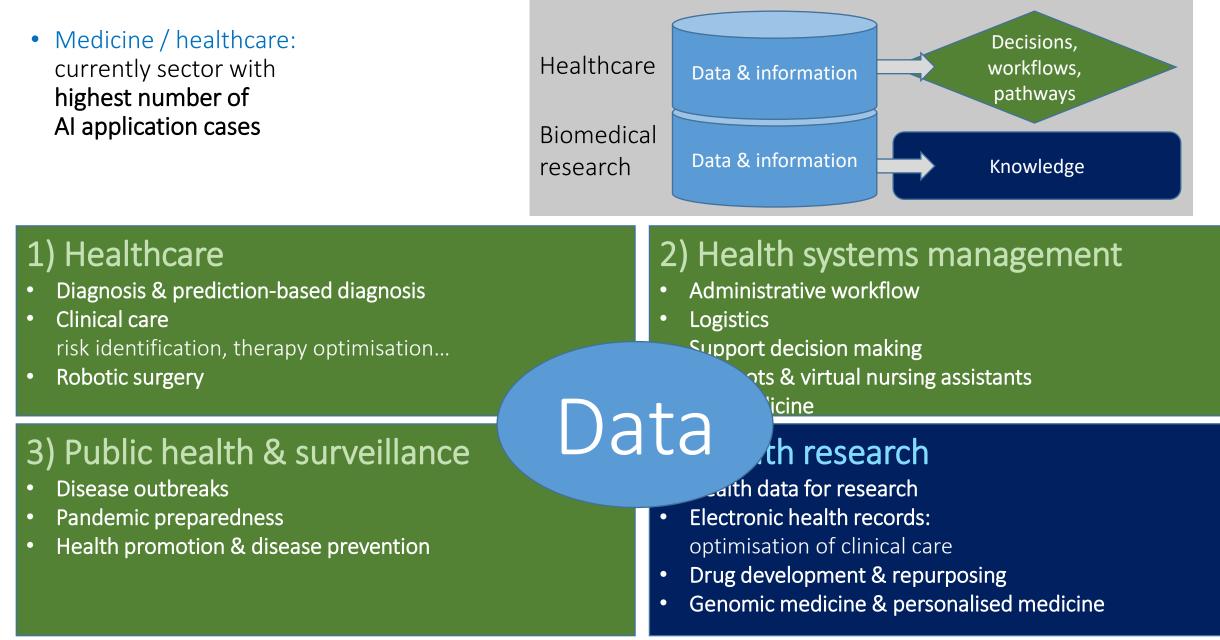
AND

 (b) Product (of which AI system is safety component) or the AI system itself need to undergo conformity assessment under Annex II listed legislations



MDR(EU)2017/745IVDR(EU)2017/746PPRR(EU)2016/425

Al in medicine and healthcare: many diverse applications



Data quality and the trustworthiness **7 key requirements of trustworthy AI** 1 Human agency and oversight 2 Technical robustness and safety 3 Privacy and data governance Data **4** Transparency 5 Diversity, non-discrimination and fairness 6 Societal and environmental wellbeing

INDEPENDENT HIGH-LEVEL EXPERT GROUP ON ARTIFICIAL INTELLIGENCE

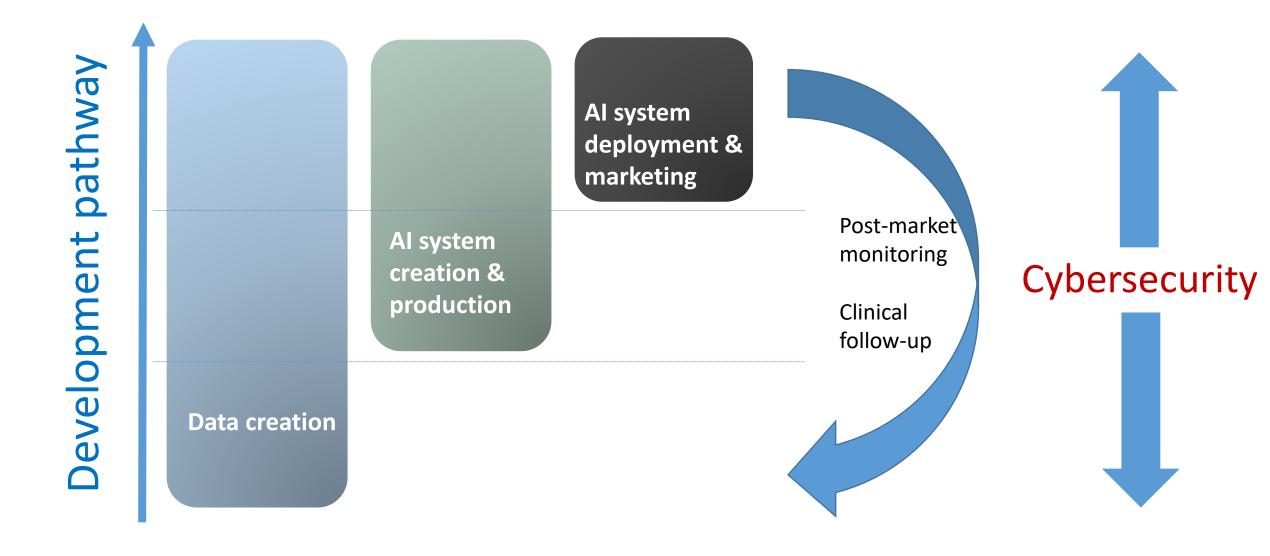
ETHICS GUIDELINES FOR TRUSTWORTHY AI

7 Accountability

Session questions & mural

1 Overview	Challenges, topics, gaps & needs Ongoing Standardisation Activities Committees, communities, groups Standards (of relevance)
2 Mapping	Mapping items over development pathway Standards, guidance, technical reports, frameworks
3 Priorities	Prioritisation

Development pathway & product cycle of AI systems



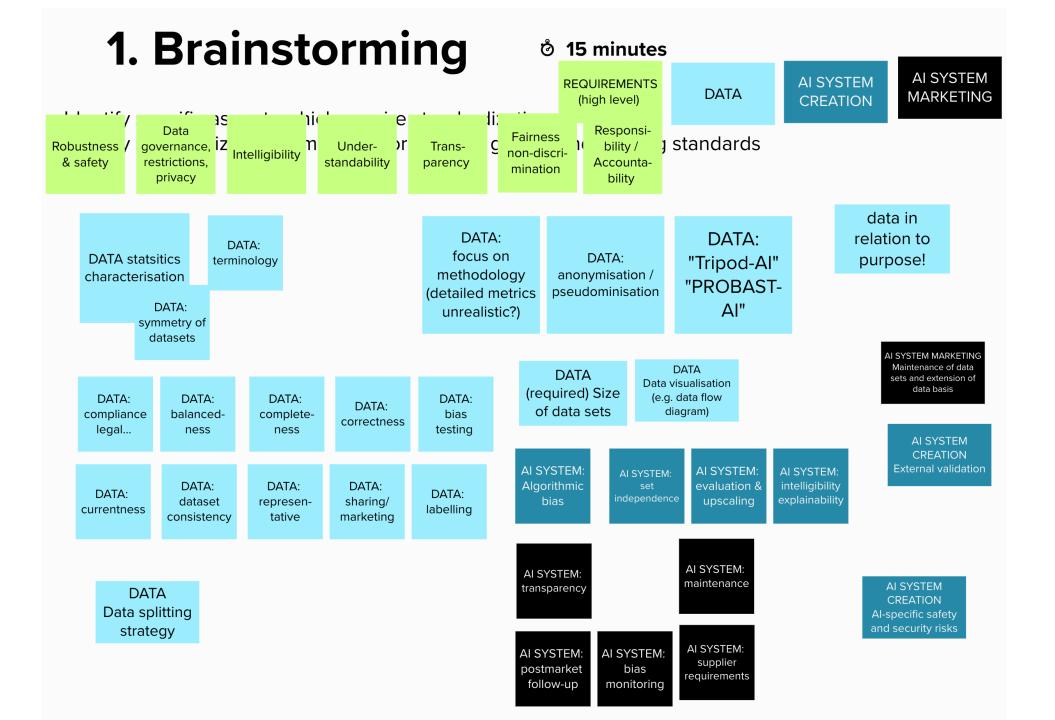
Kick-off questions

Challenges, topics, gaps & needs ...

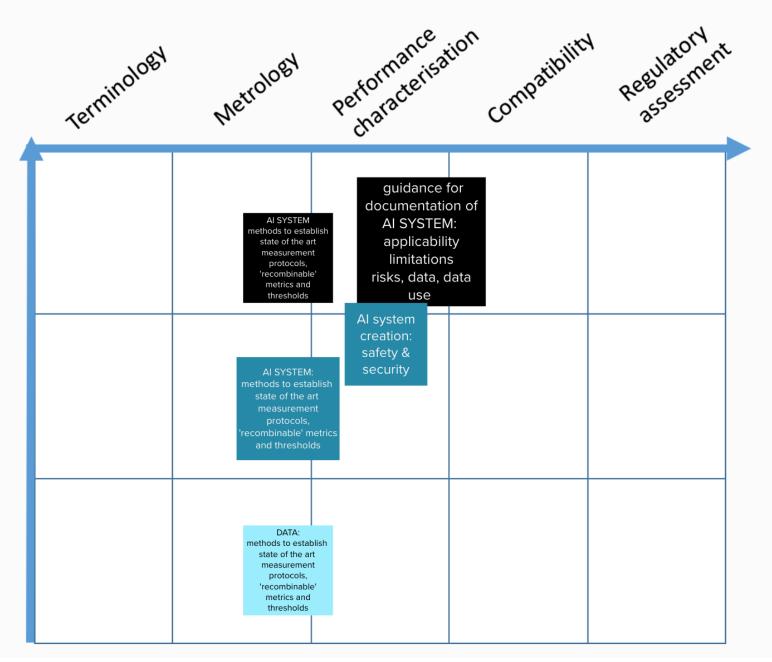
- What are **key challenges** that need to be addressed, specific to medicine and healthcare?
- What are key aspects of standardization / guidance that would need to be tackled? – in particular in view of data quality throughout the development pathway of the product.

How to do it ...

- Can the **diversity of application cases** be appropriately served by horizontal standards?
- What is the **role of specific guidance** e.g. prior to standardization ?



Domain



AI system deployment & marketing

- Regulatory assessment
- Users
- Transparency & specification
- Accountability / Responsibility
- Maintenance, post-market follow-up & bias monitoring
- Supply network

Al system creation & production

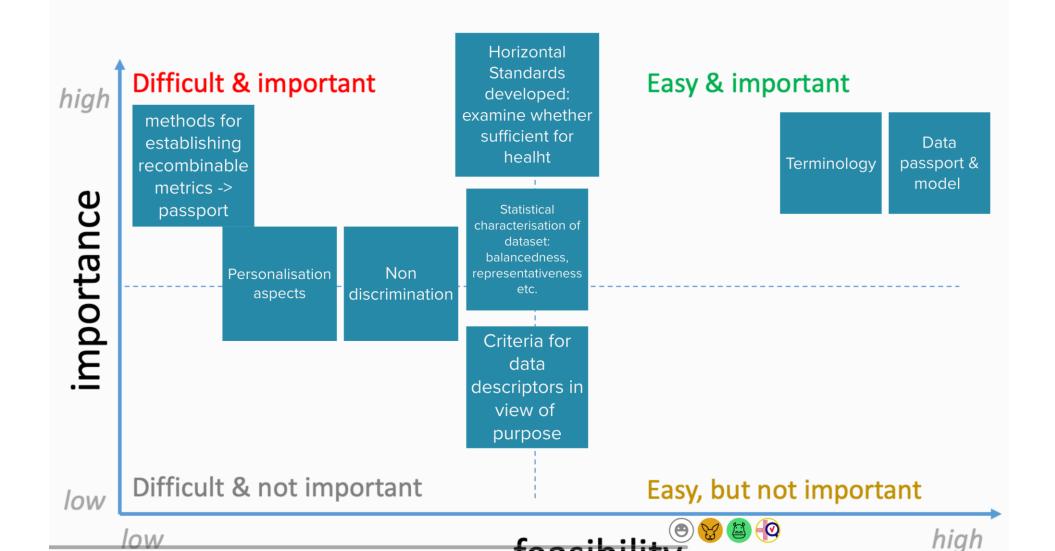
- Data sets & algorithms (incl. bias) / models
- Cybersecurity
- System design & integration
- Upscaling & evaluation
- Quality control

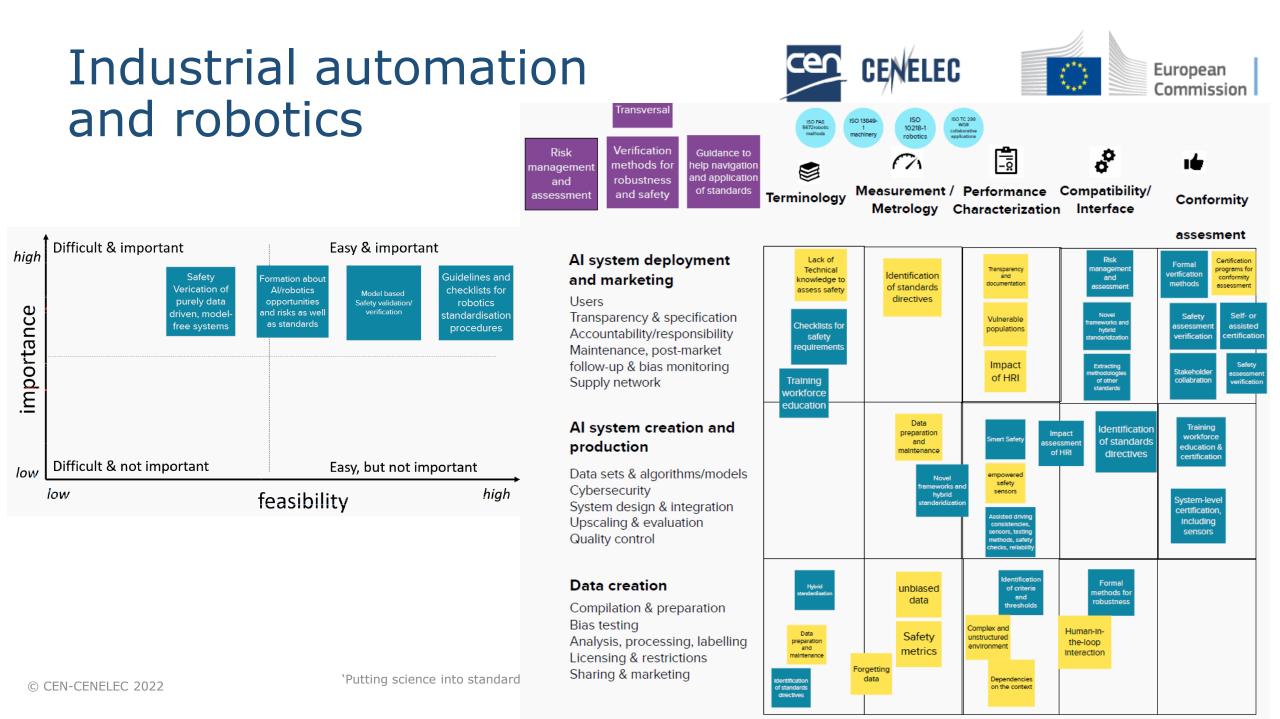
Data creation

- Compilation, preparation, bias testing,
- Analysis, processing, labelling,
- licensing & restrictions,
- Sharing & marketing

3. Prioritisation [©] ^{15 minutes}

Based on the feasibility and importance of standardization activities, identify priority needs. Copy and paste the sticky notes from previous steps.









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Panel discussion on ways forward

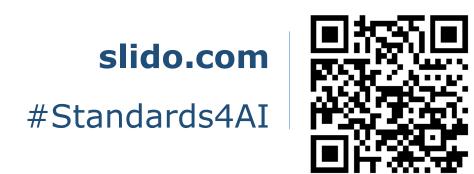
Emilia GOMEZ GUTIÉRREZ

EC DG Joint Research Centre (JRC)



Audience interaction





- Select the **Day 2: Main room** on Slido
- Zoom chat only technical questions to host
- Camera and audio OFF

Panel discussion on ways forward





Agnès DELABORDE Laboratoire national de métrologie et d'essais (LNE)



David REICHEL European Union Agency for Fundamental Rights (FRA)



Antonio CONTE EC DG GROW



Emilia TANTAR Black Swan LUX CEN-CENELEC JTC 21 AI



Philippe SAINT-AUBIN Confédération française démocratique du travail (CFDT) ETUC expert in CEN-CLC JTC 21



Salvatore SCALZO EC DG CNECT





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Closing Remarks

Elena SANTIAGO CID

CEN and CENELEC Director General





Thank you for joining us!



