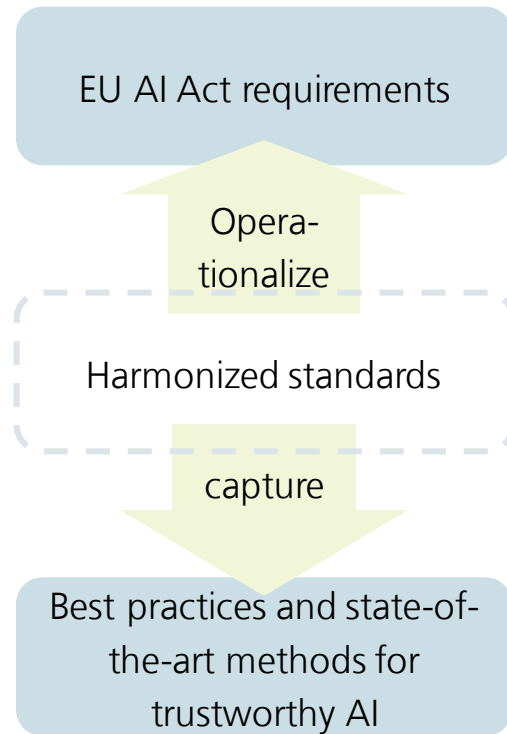


Recent works from the project ZERTIFIZIERTE KI

How to implement and demonstrate conformity with
fairness-related AI Act requirements in practice?

AI fairness requirements in the EU AI Act and their technical evaluation

Joint work by ZERTIFIZIERTE KI project partners Universität Köln & Fraunhofer IAIS



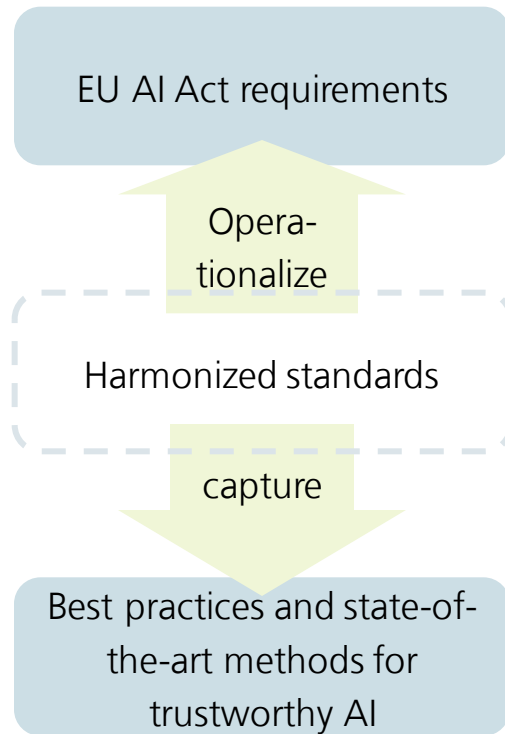
Protection from discrimination is among the recitals of the EU AI Act

- How do the AI Act requirements address this objective?
- Is it sufficiently ensured?

See: Feldkamp, J., Kappler, Q., Poretschkin, M., Schmitz, A., Weiss, E. (2024). *Rechtliche Fairnessanforderungen an KI-Systeme und ihre technische Evaluation – Eine Analyse anhand ausgewählter Kredit-scoring-Systeme unter besonderer Berücksichtigung der zukünftigen europäischen KI-Verordnung. Heft 1, ZfDR 2024.*

Fairness-related requirements in the EU AI Act are focused on the data

From abstract requirements to their technical implementation



Specific fairness-related technical requirements in the AI Act (Art. 10)

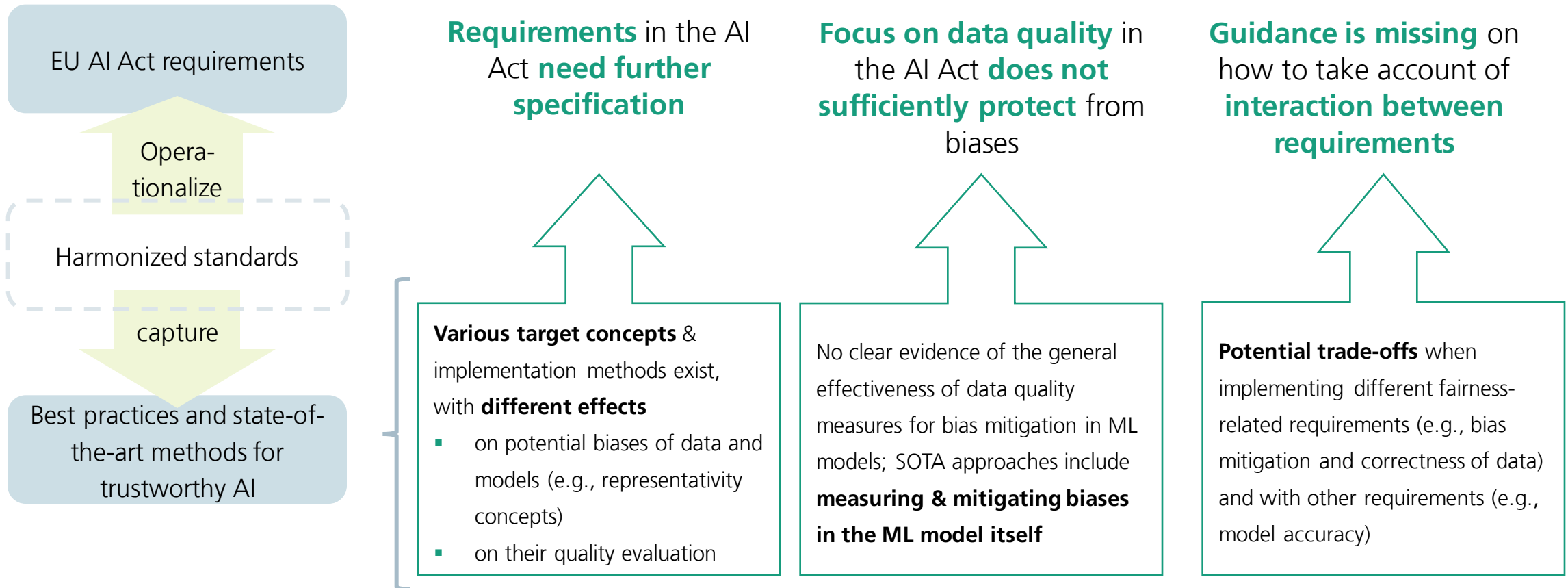
- **Data quality** (relevance, completeness, representativity, free of errors)
- **Examination of data in view of possible biases, mitigation**

Our approach: **Review of computer science literature** on how the above concepts/requirements can be interpreted, measured and implemented in practice

See: Feldkamp, J., Kappler, Q., Poretschkin, M., Schmitz, A., Weiss, E. (2024). *Rechtliche Fairnessanforderungen an KI-Systeme und ihre technische Evaluation – Eine Analyse anhand ausgewählter Kredit-scoring-Systeme unter besonderer Berücksichtigung der zukünftigen europäischen KI-Verordnung. Heft 1, ZfDR 2024.*

Fairness-related requirements in the EU AI Act

Main findings





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Reliable methodologies for AI assessments are acutely needed, but many central questions are still open.

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Two perspectives towards scalability

Operationalization of market-ready AI assessment



Standardizing AI Assessments



Risk and Vulnerability Evaluation



Implementing Regulatory Requirements



Business Models Based on AI Assessments

Testing tools & implementation methods for trustworthy AI

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Kontakt

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