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TOWARDS HUMAN-CENTRIC AI

5 DECEMBER 2023
SPARKS, BRUSSELS

A PUBLIC DISCUSSION & REPORT LAUNCH





CERRE Team



Winston Maxwell is Professor of Law & Digital Technology at Télécom Paris – Institut Polytechnique de Paris, where he teaches and writes on regulation of data, AI and telecommunications. He previously had a career in private practice as a partner of the international law firm Hogan Lovells.



Bruno Dumas is Professor at the computer science faculty of the University of Namur, and the current co-president of the Namur Digital Institute (NADI). He and his team are working on human-computer interaction, multimodal interfaces, augmented/mixed reality and explainable AI.



Gautam Kamath is Senior Advisor at CERRE. He is an experienced practitioner of digital policy, having worked for tech companies in multiple geographies. He has a Masters in Public Policy from Harvard Kennedy School, an MBA from National Taiwan University, and Bachelors from University College Maastricht.

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PANEL DISCUSSION



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ACADEMIC PRESENTATION





EU regulations seek to impose “explainability”

AI Act

“fully understand the capacities and limitations”, “correctly interpret output”
“clear and meaningful explanation “

GDPR

“meaningful information about the logic involved”

DSA

“main parameters”
“meaningful explanations of the logic used”
“easily comprehensible”

P2B

“main parameters”
“reasons for the relative importance”
“sufficient to enable ...users to obtain an adequate understanding

CJEU La Ligue des Droits Humains

No machine learning
“predetermined criteria”;
“able to understand how those criteria and those programs work”

Platform Workers Directive

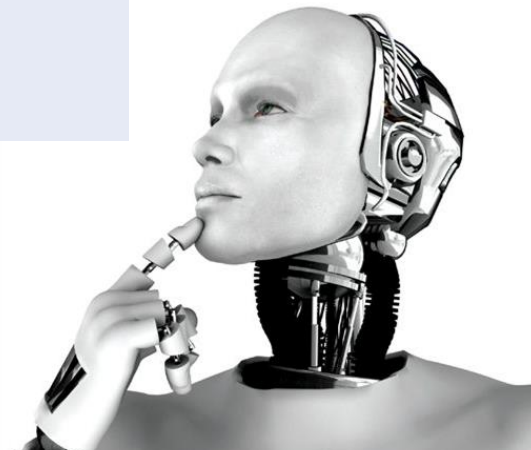
“main parameters and the relative importance of those main parameters”

Online Terrorist Content

“meaningful explanation of the functioning”

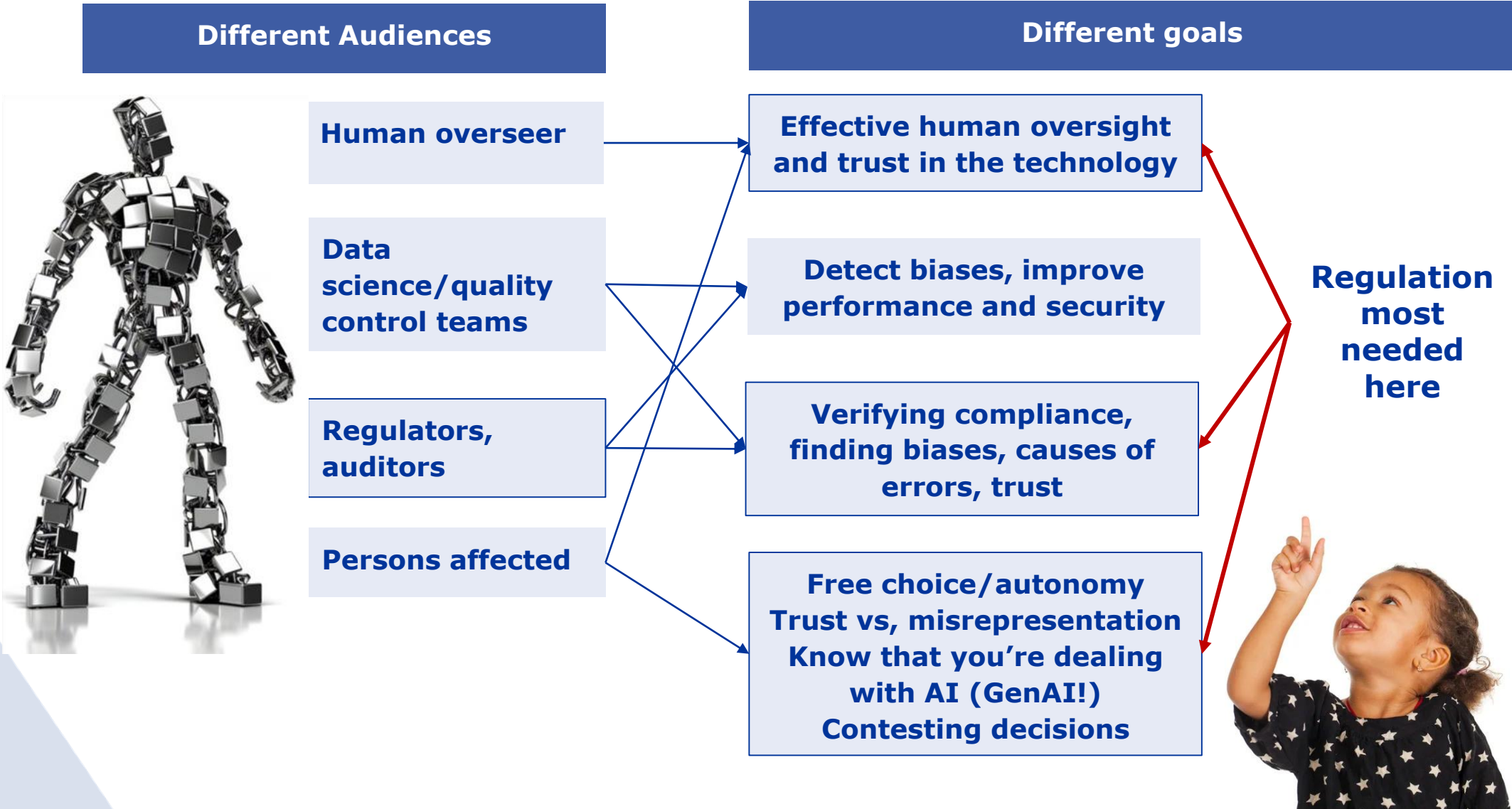
Consumer Rights Directive

“main parameters determining ranking...and relative importance”



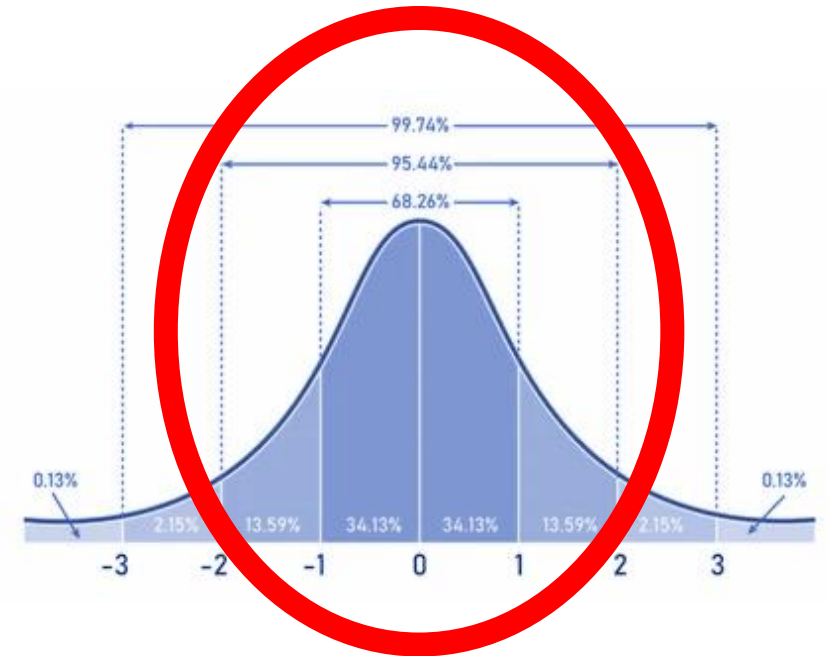


Explainability (XAI) is about the user



Can we design and measure an effective (or “meaningful”) explanation?

- **HCI methodology seeks to achieve measurable effectiveness**
 - HCI is based on best available solutions that are effective for the **most** users.
 - Solutions are best efforts and dynamic, evolving as feedback is received
 - **“Risk based”** approach - so not **all** users happy.



- **Our idea: HCI can be good proxy for “meaningful” explanations**
 - Not currently recognised by most regulators
- **Proposed regulatory solution: guidelines encouraging sound HCI methodology as a proxy for measuring “meaningful” XAI**

Explaining AI is all about trade-offs

- **No free lunch** on explainability
- **Explainability vs. performance** : choice of more understandable model even if some cost in predictive accuracy
- **Explainability vs. human cognitive biases** : some explanations can make users worse off
- **Explainability for majority vs. explainability for populations at either end of the bell curve**
- **Explainability vs. trade secrets, data security, adversarial attacks**





Conclusions:

First:

- 1. Identify which user group(s) and which goal(s)**

- 1. HCI approach “best effort” - effective for most, but not all, users**

- 1. Trade-offs: identify, discuss with stakeholders, and document**

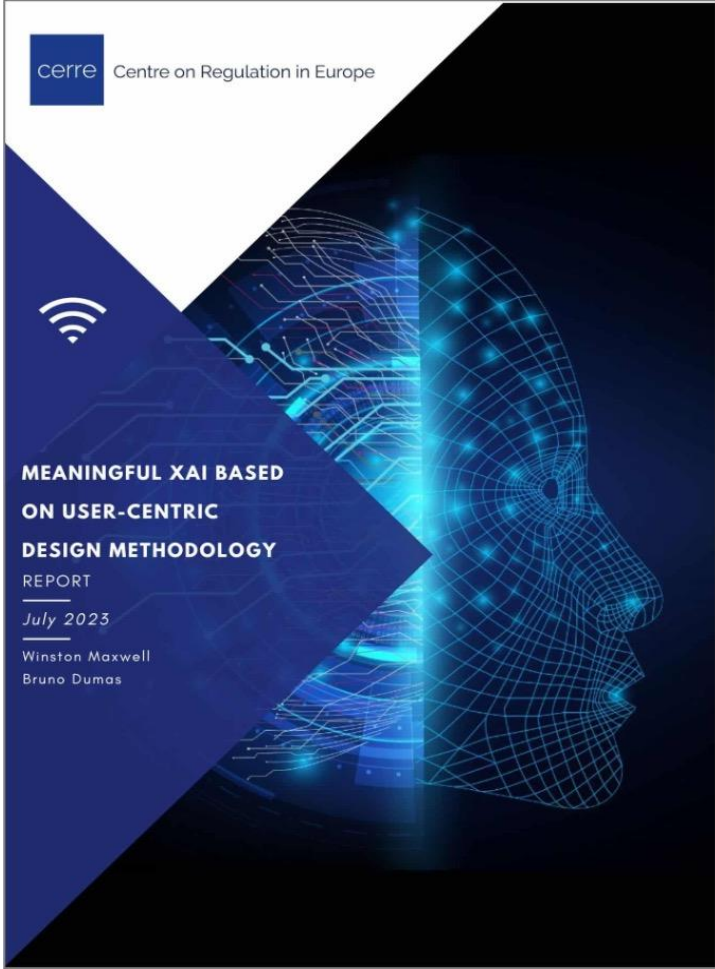
Only then:

Go design your XAIs!





Link to the report



Title: Meaningful XAI based on User-Centric Design Methodology



Authors: Winston Maxwell, Bruno Dumas

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Now moving to the panel...

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Speakers on the panel



Katarzyna Szymielewicz
President of Panoptykon
Foundation



Alberto Pena Fernandez
Head of Unit, European
Centre for Algorithmic
Transparency (ECAT),
European Commission



Karen Melchior
Member of the
European Parliament,
Renew Europe,
Denmark



Jeremy Rollison
Senior Director, EU Policy,
Microsoft

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Final word - upcoming events

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DIGITAL PLATFORMS SUMMIT

17 JANUARY 2024

10:30- 18:00 CET

FONDATION UNIVERSITAIRE, RUE D'EGMONT 11, BRUSSELS

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22 February 2024

CERRE FOUNDATION SUMMIT 2024

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