

### **Transparent AI Disclosure Obligations** Who, What, When, Where, Why, How

El Ali, Abdallah; Venkatraj, Karthikeya Puttur; Morosoli, Sophie; Naudts, Laurens; Helberger, Natali; Cesar, Pablo

DOI

10.1145/3613905.3650750

**Publication date** 2024

**Document Version** Final published version

Published in CHI EA '24

Citation (APA)

El Ali, A., Venkatraj, K. P., Morosoli, S., Naudts, L., Helberger, N., & Cesar, P. (2024). Transparent Al Disclosure Obligations: Who, What, When, Where, Why, How. In F. F. Mueller, P. Kyburz, J. R. Williamson, & C. Sas (Eds.), *CHI EA '24: Extended Abstracts of the 2024 CHI Conference on Human Factors in* Computing Systems Article 342 ACM. https://doi.org/10.1145/3613905.3650750

#### Important note

To cite this publication, please use the final published version (if applicable). Please check the document version above.

Copyright

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Please contact us and provide details if you believe this document breaches copyrights. We will remove access to the work immediately and investigate your claim.

# Green Open Access added to TU Delft Institutional Repository 'You share, we take care!' - Taverne project

https://www.openaccess.nl/en/you-share-we-take-care

Otherwise as indicated in the copyright section: the publisher is the copyright holder of this work and the author uses the Dutch legislation to make this work public.



### **Transparent AI Disclosure Obligations:** Who, What, When, Where, Why, How

Abdallah El Ali Centrum Wiskunde & Informatica Amsterdam, Netherlands aea@cwi.nl

> Laurens Naudts University of Amsterdam KU Leuven Amsterdam, Netherlands l.p.a.naudts@uva.nl

Karthikeya Puttur Venkatraj Centrum Wiskunde & Informatica Amsterdam, Netherlands karthike@cwi.nl

> Natali Helberger University of Amsterdam Amsterdam, Netherlands n.helberger@uva.nl

Sophie Morosoli University of Amsterdam Amsterdam, Netherlands s.v.morosoli@uva.nl

Pablo Cesar Centrum Wiskunde & Informatica Delft University of Technology Amsterdam, The Netherlands p.s.cesar@cwi.nl

#### **ABSTRACT**

Advances in Generative Artificial Intelligence (AI) are resulting in AI-generated media output that is (nearly) indistinguishable from human-created content. This can drastically impact users and the media sector, especially given global risks of misinformation. While the currently discussed European AI Act aims at addressing these risks through Article 52's AI transparency obligations, its interpretation and implications remain unclear. In this early work, we adopt a participatory AI approach to derive key questions based on Article 52's disclosure obligations. We ran two workshops with researchers, designers, and engineers across disciplines (N=16), where participants deconstructed Article 52's relevant clauses using the 5W1H framework. We contribute a set of 149 questions clustered into five themes and 18 sub-themes. We believe these can not only help inform future legal developments and interpretations of Article 52, but also provide a starting point for Human-Computer Interaction research to (re-)examine disclosure transparency from a human-centered AI lens.

#### **CCS CONCEPTS**

• Human-centered computing → Human computer interaction (HCI).

#### **KEYWORDS**

EU AI Act, Article 52, generative artificial intelligence, disclosures, transparency, obligations, law, research questions

#### **ACM Reference Format:**

Abdallah El Ali, Karthikeya Puttur Venkatraj, Sophie Morosoli, Laurens Naudts, Natali Helberger, and Pablo Cesar. 2024. Transparent AI Disclosure Obligations: Who, What, When, Where, Why, How. In Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '24), May 11-16, 2024, Honolulu, HI, USA. ACM, New York, NY, USA, 11 pages. https://doi.org/10.1145/3613905.3650750

Permission to make digital or hard copies of part or all of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for third-party components of this work must be honored. For all other uses, contact the owner/author(s).

CHI EA '24, May 11-16, 2024, Honolulu, HI, USA

ACM ISBN 979-8-4007-0331-7/24/05 https://doi.org/10.1145/3613905.3650750

© 2024 Copyright held by the owner/author(s).

#### 1 INTRODUCTION

"Fake realities will create fake humans. Or, fake humans will generate fake realities and then sell them to other humans, turning them, eventually, into forgeries of themselves."

- Philip K. Dick, I Hope I Shall Arrive Soon, 1980

The field of Artificial Intelligence (AI), and the media sector at large, are undergoing a transformative change. Foundation models, developed on the basis of deep neural networks and self-supervised learning, have gained widespread acceptance [5]. These models have led to the emergence of Generative AI (GenAI) tools like Midjourney and ChatGPT, and have shown impressive capabilities in producing media content, including images [46], text [40], videos [22], and audio [6]. These have the potential to drastically impact users and the media sector, essentially blurring the line between fiction and reality as users engage with media. Model output has reached a level by which humans can no longer perceive GenAI outputs as distinguishable from human-generated content [18]. What digital media appears to be true and authentic cannot necessarily be trusted, and is reportedly fueling the spread of mis- and disinformation<sup>1</sup>. Therefore it is imperative to disclose the use of AI in the generation/manipulation of media content. According to the World Economic Forum's 2024 Global Risks Report [1], "misinformation and disinformation" were ranked as the highest global risk anticipated over the next two years. This also comes at a time where OpenAI issues a statement regarding the upcoming 2024 worldwide elections [41], emphasizing: "Transparency around AI-generated content". In fact, in the European Union (EU), such an obligation will be incorporated into the upcoming AI Act [3]. Despite that the AI Act is still in development and subject to change, the core obligation to "disclose AI-driven interaction" appears to be stable.

Algorithmic approaches to automatically detect text (co-)produced using GenAI tools (e.g., ChatGPT) are so far unreliable [45], and can result in consistent biases against specific user groups (e.g., non-native English writers [30]). While measures to encode provenance cryptographically in images (cf., Coalition for Content Provenance and Authenticity [8]) or audio (SynthID [11]) are being taken, these are not widely implemented. Moreover, it remains unclear how these need to be displayed to users. Despite concerted efforts worldwide, constructing even simple disclosure measures

<sup>&</sup>lt;sup>1</sup>https://www.axios.com/2023/02/21/chatbots-misinformation-nightmare-chatgpt-ai

(e.g., watermarks) that actually succeed in reducing public risks is itself a difficult task. Disclosure is defined as "to make known or public" [57], where in the context of AI, disclosures can "contain information about the data collection, data processing, and decision-making practices of a digital product and are voluntarily provided by the product's vendor (an individual developer or an organization)." (Open Ethics Initiative [33]). A fundamental challenge here is in ensuring effective transparency measures, given the rapid pace of AI development and deployment. To mitigate harms and risks, regulatory efforts such as the AI Disclosure Act of 2023 in the United States [54] and the EU AI Act [3] (currently under discussion [39]) aim to tackle this. In this work, we focus on the EU AI Act proposition (Article 52: "Transparency obligations for providers and users of certain AI systems"), that addresses the issue of AI system transparency<sup>2</sup>.

In this early work, we adopt a human-centered approach to derive key questions that arise around transparent AI disclosures. We ask: RO: What are the key considerations and concerns surrounding transparent AI disclosures in the context of the EU AI Act? We ran two participatory AI workshops with researchers, designers, and engineers across disciplines (N=16), where we utilized the 5W1H framework [20, 26] to deconstruct the relevant clauses in Article 52 concerning AI disclosures for users and providers. This was done in the context of the media sector, with a focus on media consumption and production. Even if the language of Article 52 changes, our goal is to trigger reflection on disclosures and what these might look like. We contribute a set of 149 questions clustered into five themes and 18 sub-themes, that we anticipate can help drive interdisciplinary research forward in responsible AI. Our work aims at tackling the challenge of interpreting and implementing obligatory transparent AI disclosures for ever-evolving AI technology in an interdisciplinary manner. This not only helps inform legal developments and future interpretations of Article 52, but also provides a starting point for the Human-Computer Interaction (HCI) community to (re-)examine disclosures from a human-centered AI lens.

#### 2 BACKGROUND AND RELATED WORK

# 2.1 EU AI Act's Article 52 and AI disclosure implications

We focus on the EU AI Act [3] (currently under discussion [39]) proposition (Article 52: "Transparency obligations for providers and users of certain AI systems"), that addresses AI system transparency. It raises two important clauses:

- "§ 1. Providers shall ensure that Al systems intended to interact with natural persons are designed and developed in such a way that natural persons are informed that they are interacting with an Al system unless this is obvious from the circumstances and the context of use."
- "§ 3. Users of an Al system that generates or manipulates image, audio or video content that appreciably resembles existing persons, objects, places or other entities or events and would falsely appear to a person to be authentic or

truthful ('deep fake'), shall disclose that the content has been artificially generated or manipulated."

From these clauses, the types of disclosure are unspecified, and terms such as 'authentic' are undefined, leaving them open for interpretation. For example, 'what', 'how', or 'when' should such AI disclosures take place, even if automatically detected, remains unclear. While the most recent draft of the AI Act [36] touches on aspects of this, where Art. 52(3) (second subparagraph) highlights when to disclose, much remains uncharted regarding human oversight processes when exceptions are made. We believe it is important to carefully assess the AI Act's disclosure implications, before proceeding to Human-AI interactions, wherein explainability [42] may be an additional challenge. Furthermore, authenticity is itself a multidimensional concept [27], which raises the question of what aspects of inauthentic media need to be disclosed. AI disclosures, be they automatic (algorithmic) or provided by system designers or other stakeholders, may include the following: revealing when content is AI-generated, registering these emerging AI systems with a database, summarizing copyrighted material used in training these systems, publication of risk assessments, or even trust certification labels [47]. Importantly, encounters with AI-generated content can impact the human experience of algorithms, and more broadly the psychology of Human-AI interaction [50], to which we turn to next.

### 2.2 Human-AI interaction, media consumption, and transparent AI disclosures

For scholarly work, the Association for Computing Machinery has instated clear policies on GenAI, stating "The use of generative AI tools and technologies to create content is permitted but must be fully disclosed in the Work." [2]. This contributes to ongoing discussions on the ethics of AI disclosure in scholarly works [23]. Within HCI research and practice, Schmidt et al. [48], in rethinking Human-Centered Design in the age of GenAI, emphasize the need for being "transparent and honest" when it comes to AI tool usage. Indeed, issues of ownership and agency arguably span the entire HCI research cycle [13]. Such interactions will continue to pervade not just scholarly discourse, but also the everyday media we consume, making it crucial to understand the impact on human perceptions. For algorithmic decision making, Langer et al. [28] showed that terminology (e.g., 'algorithms' vs. 'artificial intelligence') affects laypeople's perceptions of system properties and evaluations (e.g., trust) - they recommend being mindful when choosing terms given unintended consequences, and their impact on HCI research robustness and replicability. Within COVID-19 health (mis-)information, Jia et al. [25] found that various misinformation labels (e.g., algorithm, community, third-party fact-checker) are dependent on people's political ideology (liberal, conservative). Cloudy et al. [10] found that a news story presented as sourced from an AI journalist activated individuals' machine heuristic (rule of thumb that machines are more secure and trustworthy than humans [51]), which helps mitigate the hostile media bias effect. Furthermore, there may be hidden dangers in such labeling approaches, where they may lead users to believe that content that is not labeled is actually factual, when it may not be - the so-called "implied truth effect" [43]. Epstein et al. [14] found that participants consistently

 $<sup>^2\</sup>rm Even$  though the final text of the AI Act must still be agreed upon, the inclusion of a "disclosure obligation" is (almost) a certitude.

associated "AI Generated," "Generated with an AI tool," and "AI manipulated" with AI content out of nine potential labels, regardless of whether or not they were misleading. These works underscore the importance of disclosure-based interventions, and highlight the wild west of today's disclosure approaches, from tool usage to perceiving and understanding disclosure labels to safeguard against fake news.

#### 3 METHOD

#### 3.1 Workshops: approach and objectives

To generate key questions in a participatory manner, we ran two workshops in December (2023) and January (2024). We utilized the 5W1H (Who, What, When, Where, Why, How) framework, which is widely used in journalism [20]. Furthermore, this framework allows defining a high-dimensional design space (cf., software testing for cloud computing [26]), by which an initial set of research questions can be systematically formulated. Our objective was to help deconstruct the relevant clauses in Article 52 by identifying key questions related to the interpretation, implementation, and societal impact of AI disclosures for users and providers. This was done in the context of the media sector, with a focus on media consumption and production. We anticipated that this would help unravel core values, consideration, and risks behind each question type. Workshops were conducted at two different locations/institutes, each targeting a specific researcher demographic. At the first location (session 1), participants had expertise from law, political science, communication science, and artificial intelligence. At the second location (session 2), we had expertise from computer science, human-computer interaction, and (interaction) design. For each workshop session, we collected: demographics, informed consent, photos of the session, and the resulting questions generated.

#### 3.2 Workshop materials

The workshop setup consisted of six flip charts that were attached to the walls of the workshop area (see Figure 1). Each flip chart was given a heading of one of the 5W1H terms to indicate to participants which type of questions to ask there. Post-its and markers were provided. Article 52 and Article 3 were printed on an A4 land-scape paper, and placed near each flip chart for quick reference. Article 3 provides definitions of 'provider' and 'user'<sup>3</sup>, that helped participants have a clear understanding of what these 'legal' terms mean. Article 3 (current revision; bold added for emphasis) states:

- "§ 1. 'provider' means a natural or legal person, public authority, agency or other body that develops an AI system or that has an AI system developed with a view to placing it on the market or putting it into service under its own name or trademark, whether for payment or free of charge?"
- "§ 4. 'user' means any natural or legal person, public authority, agency or other body using an AI system under its authority, except where the AI system is used in the course of a personal non-professional activity."

#### 3.3 Study procedure

Sessions began with a short 10 minute introduction to set the workshop context, to obtain participant consent (data protection and privacy), and for them to fill in a demographics form. Each workshop session consisted of three tasks, each lasting around 25-30 min., amounting to approximately one and a half hours in total. In the introduction, we first presented the EU AI Act, along with Article 52 and a brief explanation of disclosures. Participants were assigned an ID to note down with each post-it note. Participants were split into groups of two or three, depending on the total size in the session. The grouping was only for discussion and logistical purposes, so each question posed was still done individually. Task 1 and 2 were question generation tasks, where participants were instructed to individually generate questions for each of the 5W1H questions. After 10 minutes, they moved to a different question, such that at the end of 60 minutes each group has had the chance to provide their input for all six question types. Participants were also instructed to review the questions that were placed by participants on the flip chart, and to optionally vote with a +/- 1 post-it on the question if they were in agreement/disagreement. For Task 3, we divided each flip chart into two parts: users and providers. This provided participants the opportunity to reflect on and consider whether the posted questions were relevant for the user, the provider, or both (in which case it was placed in the center of the flip chart). Participants were offered candy in the session. When the session ended, participants were thanked for their time and efforts.

#### 3.4 Participants

We had 16 participants (8 female, 7 male, 1 non-binary), where the first workshop had seven, and the second nine participants. Twelve were in the 25-34 age group, three in the 18-24 age group, and one in the 35-44 age group. Three were pursuing their master's degree, seven either their PhD or had research assistant roles, and six had completed their PhD with researcher roles (postdoctoral or higher). Participants' affiliations were spread across five different institutes. Nine had expertise in computer science and engineering (incl. computer vision, natural language processing, and signal processing), two in HCI and design, two in communication science, two in law, and one in political science.

#### 3.5 Analysis approach

We analyzed our data using inductive thematic analysis [9]. First, the first author created early codes for the 155 questions. These codes were clustered into different topics (e.g., 'misinformation', 'trust', 'ux', 'infovis'). Based on these, an initial set of sub-themes and themes emerged. The second author independently reviewed all questions and corresponding sub- and main themes. Instead of calculating statistical inter-rater reliability for the analysis, the consensus among the authors was reached through two online video discussions (each approximately 1.5 hours) [35], where each question was carefully re-assessed by both researchers to arrive at a final list of sub-themes and themes.

#### 4 RESULTS

Our workshops resulted in a total of 155 questions, where the raw digitized data can be seen in Supplementary Material. After data

<sup>&</sup>lt;sup>3</sup>In the latest draft version of the EU AI Act (leaked online on January 21, 2024) [36], 'user' is now referred to as 'deployer'. However, this does not impact our workshop outcomes, even if participants interpreted 'user' as intended by the law ('deployer') or as 'recipient'.



Figure 1: Snapshots of the workshop sessions showing participants generating questions.

cleaning (removing near-duplicates, irrelevant questions), this resulted in 149 questions. Questions were edited for typos, but left largely as is. Our thematic analysis resulted in five main themes, each with sub-themes. The full list of questions, themes, sub-themes, and participant votes are shown in Table 1 in the Appendix. We note that some questions may belong to more than one (sub-)theme, however for our analysis, we chose the most representative classification. Themes and sub-themes, with examples selected mainly based on participant votes, are presented below:

### 4.1 Theme 1: Ethical, Legal, and Policy Considerations

A primary theme (N=41) that emerged concerns the ethical, legal, and policy aspects of AI disclosures. This had three inter-related sub-themes. The first sub-theme covers the **Ethical Implications** of AI Use: "How much should you communicate? Does law provide any answers? If not, what is ethical?" [Q1]; "How dangerous is the content generated by AI?" [Q2]; "Why should this be a right?" [Q3]. The second sub-theme consisted of questions pertaining to Legal **Compliance and AI Disclosure**: "What should be disclosed?" [Q7]; "Who is going to be responsible for the consequences?" [Q8]; "When should users be punished for not following the obligation? and when providers?" [Q12]. The last sub-theme here consisted of questions related to Policy and Regulatory Impact. While some overlap may exist with legal compliance, questions under this sub-theme focused largely on the impact of such policies, rather than compliance per se. Examples here include: "Who is going to be impacted by non disclosure?" [Q23]; "When do users need to disclose the use of AI? Consider continued influence effect" [Q24]; "Who decides if a "context of use" is obvious enough to not require an "interaction"?" [Q25]. These sub-themes show how disclosures (and their effectiveness) are dependent on a variety of inter-related factors, the resolution of which, too has ethical and legal implications (e.g., if disclosed, what should be disclosed and who should do so; responsibility being also legally defined, etc.). This has prompted recent work to discuss what GenAI regulation should focus on (cf., [19, 21, 38]) and how

such measures can be enforced – for example, given their multipurpose usage, such general-purpose AI systems should consider safety from the onset, starting with data quality [21].

### 4.2 Theme 2: Future Considerations, Evolving Context, & Practical Implementation

Another theme that emerged (N=19) concerns the future of AI technology and disclosures, their implementation, and their impact on society. This also had three sub-themes. The first sub-theme consisted of questions pertaining to the Evolving AI Technologies and Societal Impact, where key questions touched upon societal aspects where misinformation may be rampant, and included: "Who cares?" [Q42]; "When can AI generated content affect real life affairs?" [Q45]; "Where could fake AI content show up?" [Q48]. The second sub-theme consisted of questions covering Future Trends and **Legal Adaptation**: "Why is it important to inform people?" [Q49]; "Why should people care about this?" [Q50]; "What is the definition of AI generated content? (e.g. images, text)" [Q52]. The final subtheme addresses questions related to Practical Challenges in AI Implementation: "How much effort should be put into the classification?" [Q56]; "What kind of AI model could be used in such situations?" [Q58]; "How to trigger user feedback for AI disclosure or interactions?" [Q61]. Such considerations are important for better understanding the impact on society. For example, Yaqub et al. [58] confirmed that credibility indicators on social media can decrease the propensity to share fake news, however their impact varied, with fact checking services found to be most effective. Yet social media platforms come and go, with an evolving user base, which underscores the importance of accounting for dynamic (future) contexts.

## 4.3 Theme 3: Provider Responsibility and Industry Impact

Given that we focused on differences between users and providers, a theme (N=18) that emerged concerned the ethical responsibilities and obligations of the (media) provider. This consisted of three subthemes. The first sub-theme concerns **Ethical Considerations for Providers**: "Why do providers need to disclose they use AI?" [Q62];

"How should we treat users when not following the obligation? And how providers? (think punishment)" [Q64]; "Why providers should consider disclosure in their decision making process?" [Q68]. The second sub-theme covers **Industry-Specific Impact and Challenges**: "Why do providers want to use AI? (what is the benefit?)"[O68]; "What industry will be affected the most?" [Q71]; "What is considered manipulation? Is there also a degree to this that is accounted for?" [Q72]. The last sub-theme addresses Provider Disclosure Obligations: "Where to label information / content?" [Q74]; "What freedom shall the provider have in formulating/offering information to the recipient?"[Q77]; "What information should the provider disclose to the recipient of AI content?" [O78]. Given these, we highlight not just the ethical but also the business impact of AI disclosures, which may itself then impact ethical considerations. For example, in a field customer purchase setting using chatbots, Luo et al. [34] found that disclosure of chatbot identity before the machine-customer conversation took place reduced purchase rates by more than 79%, despite what is known about people's machine heuristic [51].

### 4.4 Theme 4: Trust, Authenticity, and User Empowerment

A key theme (N=33) of our workshops was on trust, authenticity, and how users can be empowered. This consisted of four subthemes. The first sub-theme includes questions on Authenticity, Provenance, and Transparency: "How important is it for users to know the authenticity of media?" [Q81]; "How are we going to verify authenticity?" [Q82]; "Where can people manually verify if it is AI generated?" [Q84]. The second sub-theme tackles the Humancentered AI issue of Building Trust in AI Systems: "How will different users interpret signals differently?" [Q89]; "How does disclosure impact people's trust and perceived credibility?" [Q91]; "How to responsibly disclose artistic uses of AI?" [Q92]. The third sub-theme focuses on Empowering Users through Education & Awareness: "How can we train users to spot authentic content without relying on explicit cues?" [Q99]; "What type of information empowers/triggers "act of resistance"?" [Q100]; "Where should we get ask if we suspect things (images, texts) are generated by AI?" [Q103]. Finally, the last sub-theme focuses on User Responsibility and Agency: "Why do users need to know they are interacting with AI?" [Q110]; "What information should the users acquire? Are they responsible for it?" [Q111]; "Why is it important for promoting democracy?" [Q112]. The sub-themes here touch upon important prior work that aims to address authenticity and trust, in the context of media. Liao & Sundar [31] introduced a conceptual model called MATCH that describes how trustworthiness is communicated in AI systems through trustworthiness cues, and propose a requirement checklist to support technology creators in identifying reliable cues. Scharowski et al. [47] examined the potential for AI certification labels (e.g., the "Digital Trust Label" by the 2023 Swiss Digital Initiative), and found that these can mitigate data-related concerns expressed by end-users (e.g., privacy and data protection), however other concerns (e.g., model performance) remain challenging to address. Longoni et al. [32] found that people rated news headlines written by AI as less accurate than those written by humans. Recently, Toff & Simon [52] found that on average audiences perceive news labeled as AI-generated as less trustworthy, even when the

articles themselves are not evaluated as any less accurate or unfair. However, these effects largely stem from those whose pre-existing levels of trust in news are higher to begin with and among those knowledgeable about journalism.

### 4.5 Theme 5: User Experience, Information Overload, and Personalization

Our final theme (N=34) concerned all matters related to User Experience (UX), information overload, and personalization. The first sub-theme concerns questions on Personalization and User Pref**erences**: "How much freedom should the users get to (not) see the classification?" [Q115]; "How to adapt AI disclosures personally?" [Q117]; "How to present them in different devices?" [Q118]. The second subtheme addresses questions on the Psychology of Human-AI In**teraction**: "Why do users trust AI more/less than a human?" [Q120]; "How would the disclosure affect the users?" [Q121]; "What is the psychological difference between AI and Human?" [Q122]. The third sub-theme covers questions on Standardization: "What is reliable method to test the classification?" [Q126]; "Where on the website should Al be disclosed? Terms of service, every piece of content, every element?" [Q127]; "Who determines how disclosure should be provided, according to which standards?" [Q128]. The fourth subtheme focuses on User Interfaces and Information Overload: "Where is the classification going to be displayed?" [Q133]; "Where is the balance between communicating enough and information overload?" [Q134]; "How can you effectively communicate use of Al without distracting from content?" [Q135]. The final sub-theme concerns User-Centric Information Design: "Who are you communicating to? e.g., different people may require different types of communication mechanisms" [Q139]; "What (under-) information is meaningful for the recipient?" [Q140]; "Where to provide the AI disclosure? Before the generated content or after that?" [Q142]. Indeed, with respect to UX and personalization aspects of disclosure, the level of granularity by which such disclosures are shown (e.g., do they pertain to the training data or to surface interaction), any corresponding explanations, and the extent to which these increase trust, can further compound public risk perceptions. In this direction, in studying progressive disclosures for algorithmic decisions made by intelligent systems, Springer & Whittaker [49] found that users may benefit from initially simplified feedback that hides potential system errors, and thereafter assists users in building working system operation heuristics. This is line with Muraldihar et al.'s [37] survey that found a simplified explanation of the AI system is sufficient for ensuring transparency, allow users to have a better sense of system accuracy, fairness, and privacy.

#### 5 DISCUSSION AND CONCLUSION

#### 5.1 Limitations and future work

First, AI technology is advancing rapidly, and our participant responses were likely geared toward their experiences with GenAI technology today. However in the future, more transparent and robust AI systems may afford different questions than what we observed. Relatedly, the law is not immutable – this is continuously evolving, and the AI Act may develop to cover some of the key questions raised in this work. Lastly, while we took care to ensure our question set and themes are exhaustive for the study of

AI disclosures, there may be aspects that were missed. Similarly, themes may be decomposed further – however, for our current scope, we believe these themes have sufficient coverage and detail to inform future work. Lastly, these should not be seen as a final but rather organic, ever-growing list of questions to systematically guide research on transparent AI disclosures.

### 5.2 Transparent AI disclosures in and beyond the AI Act

Our work aimed at tackling the challenge of interpreting and implementing transparent AI disclosures for continuously evolving AI technology, through the lens of Article 52 as currently stated in the draft EU AI Act [3]. Through the 5W1H questions, we arrived at several themes and sub-themes – we believe each poses unique challenges for users, providers, and the media sector at large. With GenAI, media organizations are or will be undergoing a fundamental shift in practices. To echo Rakova et al. [44], to better enable responsible AI work, organizations need to update their practices, which will require addressing both prevalent and emerging work practices. For transparent AI disclosures, as we observed from the diverse set of questions tackling multiple aspects of disclosures (from terminology to ethical and legal aspects to societal impact), we believe this is a complex, multi-faceted challenge (a 'wicked' problem) that requires concerted interdisciplinary efforts from researchers and practitioners across industries and institutes. As such, we believe on continually drawing on participatory AI and valuesensitive design approaches [4, 12, 15] to creating AI for social good [55], ensuring human creative practices are safeguarded and can flourish (cf., [24, 29]). This means ensuring media organization practices and citizens (end users) are transparently informed when they interact with AI-generated media in a meaningful, usable manner, throughout the human-AI interaction timeline. As a step toward this change, we believe our contributed key questions drawn from wide-varying expertise can serve as a practical starting point for cross-discipline research in AI disclosure - by knowing what questions to ask, and for whom such questions may be most relevant, collaborative efforts can be strengthened.

Whether the most effective mechanism to tackle transparent AI disclosures constitutes watermarking to ensure copyright and traceable accountability [53, 59], or the continued refinement of regulation and legal policy at an (inter-)national level (of which the AI Act is a strong pillar [56]), it is clear GenAI development needs to be acted upon responsibly - for and beyond media organization practice. For example, consider the use and misuse behind data privacy and security measures through interaction with consent banners [17], despite EU efforts such as in General Data Protection Regulation (GDPR) mandates. These can lend themselves to dark patterns and potentially malicious use of AI persuasion [7], raising serious ethical concerns pertaining to perceptual manipulations, cybersecurity, and the global risk of misinformation (cf., WEF's 2024 Global Risks Report [1]). To this end, we believe drawing on key human-centered principles (e.g., human well-being alignment, responsible design of transparent AI) of responsible AI development [16] are of immediate necessity to protect citizens moving forward, and ensuring a well functioning democratic society.

#### 5.3 Conclusion

Our work contributes 149 questions clustered into five themes and 18 sub-themes, that we believe can assist in tackling the challenge of transparently communicating AI disclosures – for media providers, as well as end-users consuming media content everyday across platforms and devices. We hope our questions underscore the importance of better understanding user needs and reactions to transparency obligations, and support establishing user-centric designs for transparent AI disclosures that ultimately foster democratic societies based on truth rather than AI-generated fiction.

#### **ACKNOWLEDGMENTS**

We thank all our participants for participating in our workshops, and acknowledge their valuable contributions to this early work. This publication is part of the AI, Media & Democracy Lab (Dutch Research Council project number: NWA.1332.20.009).

#### **REFERENCES**

- World Economic Forum 2024. 2024. The Global Risks Report 2024. https://www. weforum.org/publications/global-risks-report-2024. [2024-1-19].
- [2] ACM. 2024. ACM Policy on Authorship. https://www.acm.org/publications/policies/new-acm-policy-on-authorship. [Accessed 22-01-2024].
- [3] European AI Act. 2022. Proposal for a Regulation of the European Parliament and of the Council laying down harmonised rules on artificial intelligence (Artificial Intelligence Act) and amending certain Union legislative acts) and amending certain Union legislative acts. https://eur-lex.europa.eu/legal-content/EN/TXT/ ?uri=CELEX%3A52021PC0206. https://data.consilium.europa.eu/doc/document/ ST-14954-2022-INIT/en/pdf [Accessed 12-01-2024].
- [4] Abeba Birhane, William Isaac, Vinodkumar Prabhakaran, Mark Diaz, Madeleine Clare Elish, Iason Gabriel, and Shakir Mohamed. 2022. Power to the People? Opportunities and Challenges for Participatory AI. In Equity and Access in Algorithms, Mechanisms, and Optimization (Arlington, VA, USA) (EAAMO '22). Association for Computing Machinery, New York, NY, USA, Article 6, 8 pages. https://doi.org/10.1145/3551624.3555290
- [5] Rishi Bommasani, Drew A. Hudson, Ehsan Adeli, Russ Altman, Simran Arora, Sydney von Arx, Michael S. Bernstein, Jeannette Bohg, Antoine Bosselut, et al. 2021. On the Opportunities and Risks of Foundation Models. arXiv preprint arXiv:2108.07258 (2021). https://crfm.stanford.edu/assets/report.pdf
- [6] Zalán Borsos, Raphaël Marinier, Damien Vincent, Eugene Kharitonov, Olivier Pietquin, Matt Sharifi, Olivier Teboul, David Grangier, Marco Tagliasacchi, and Neil Zeghidour. 2022. AudioLM: a Language Modeling Approach to Audio Generation. arXiv:2209.03143 [cs.SD]
- [7] Matthew Burtell and Thomas Woodside. 2023. Artificial Influence: An Analysis Of AI-Driven Persuasion. http://arxiv.org/abs/2303.08721 arXiv:2303.08721 [cs].
- [8] C2PA. 2024. Introducing Official Content Credentials Icon C2PA c2pa.org. https://c2pa.org/post/contentcredentials/. [Accessed 17-01-2024].
- [9] Victoria Clarke, Virginia Braun, and Nikki Hayfield. 2015. Thematic analysis.
   Qualitative psychology: A practical guide to research methods 222, 2015 (2015), 248
- [10] Joshua Cloudy, Jaime Banks, and Nicholas David Bowman. 2023. The Str(AI)ght Scoop: Artificial Intelligence Cues Reduce Perceptions of Hostile Media Bias. *Digital Journalism* 11, 9 (Oct. 2023), 1577–1596. https://doi.org/10.1080/21670811. 2021.1969974
- [11] Google DeepMind. 2024. SynthID. https://deepmind.google/technologies/ synthid/. Accessed: 2024-1-19.
- [12] Upol Ehsan and Mark O. Riedl. 2020. Human-Centered Explainable AI: Towards a Reflective Sociotechnical Approach. In HCI International 2020 - Late Breaking Papers: Multimodality and Intelligence, Constantine Stephanidis, Masaaki Kurosu, Helmut Degen, and Lauren Reinerman-Jones (Eds.). Springer International Publishing, Cham, 449–466.
- [13] Passant Elagroudy, Jie Li, Kaisa Väänänen, Paul Lukowicz, Hiroshi Ishii, Wendy Mackay, Elizabeth Churchill, Anicia Peters, Antti Oulasvirta, Rui Prada, Alexandra Diening, Giulia Barbareschi, Agnes Gruenerbl, Midori Kawaguchi, Abdallah El Ali, Fiona Draxler, Robin Welsch, and Albrecht Schmidt. 2024. Transforming HCI Research Cycles using Generative AI and "Large Whatever Models" (LWMs). In Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (Honolulu, HI, USA) (CHI '24 EA). Association for Computing Machinery, New York, NY, USA, 5 pages. https://doi.org/10.1145/3613905.3643977
- [14] Ziv Epstein, Mengying C Fang, Antonio A Arechar, and David G Rand. 2023. What label should be applied to content produced by generative AI? https:

- //doi.org/10.31234/osf.io/v4mfz
- [15] Batya Friedman. 1996. Value-Sensitive Design. Interactions 3, 6 (dec 1996), 16-23. https://doi.org/10.1145/242485.242493
- [16] Ozlem Ozmen Garibay, Brent Winslow, Salvatore Andolina, Margherita Antona, Anja Bodenschatz, Constantinos Coursaris, Gregory Falco, Stephen M. Fiore, Ivan Garibay, Keri Grieman, John C. Havens, Marina Jirotka, Hernisa Kacorri, Waldemar Karwowski, Joe Kider, Joseph Konstan, Sean Koon, Monica Lopez-Gonzalez, Iliana Maifeld-Carucci, Sean McGregor, Gavriel Salvendy, Ben Shneiderman, Constantine Stephanidis, Christina Strobel, Carolyn Ten Holter, and Wei Xu. 2023. Six Human-Centered Artificial Intelligence Grand Challenges. International Journal of Human Computer Interaction 39, 3 (2023), 391-437. https://doi.org/10.1080/ 10447318.2022.2153320 arXiv:https://doi.org/10.1080/10447318.2022.2153320
- [17] Colin M. Gray, Cristiana Santos, Nataliia Bielova, Michael Toth, and Damian Clifford. 2021. Dark Patterns and the Legal Requirements of Consent Banners: An Interaction Criticism Perspective. In Proc. CHI '21. ACM, Yokohama Japan, 1-18. https://doi.org/10.1145/3411764.3445779
- [18] Matthew Groh, Aruna Sankaranarayanan, Nikhil Singh, Dong Young Kim, Andrew Lippman, and Rosalind Picard. 2023. Human Detection of Political Speech Deepfakes across Transcripts, Audio, and Video. arXiv:2202.12883 [cs.HC]
- [19] Philipp Hacker, Andreas Engel, and Marco Mauer. 2023. Regulating ChatGPT and Other Large Generative AI Models. In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (Chicago, IL, USA) (FAccT '23). //doi.org/10.1145/3593013.3594067
- [20] Geoff Hart. 1996. The Five W's: An Old Tool for the New Task of Audience Analysis. Technical Communication 43, 2 (1996), 139-145. http://www.jstor.org/ stable/43088033
- [21] Natali Helberger and Nicholas Diakopoulos. 2023. ChatGPT and the AI act. Internet Pol. Rev. 12, 1 (Feb. 2023).
- [22] Jonathan Ho, William Chan, Chitwan Saharia, Jay Whang, Ruiqi Gao, Alexey Gritsenko, Diederik P Kingma, Ben Poole, Mohammad Norouzi, David J Fleet, et al. 2022. Imagen video: High definition video generation with diffusion models. arXiv:2210.02303 [cs.CV]
- [23] Mohammad Hosseini, David B Resnik, and Kristi Holmes. 2023. The ethics of disclosing the use of artificial intelligence tools in writing scholarly manuscripts. Research Ethics 19, 4 (2023), 449-465. https://doi.org/10.1177/17470161231180449 arXiv:https://doi.org/10.1177/17470161231180449
- [24] Nanna Inie, Jeanette Falk, and Steve Tanimoto. 2023. Designing Participatory AI: Creative Professionals' Worries and Expectations about Generative AI. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems, 1-8.
- [25] Chenyan Jia, Alexander Boltz, Angie Zhang, Anqing Chen, and Min Kyung Lee. 2022. Understanding Effects of Algorithmic vs. Community Label on Perceived Accuracy of Hyper-Partisan Misinformation. Proc. ACM Hum.-Comput. Interact. 6, CSCW2, Article 371 (nov 2022), 27 pages. https://doi.org/10.1145/3555096
- [26] Changjiang Jia, Yan Cai, Yuen Tak Yu, and T.H. Tse. 2016. 5W+1H pattern: A perspective of systematic mapping studies and a case study on cloud software testing. Journal of Systems and Software 116 (2016), 206-219. https://doi.org/10. 1016/j.jss.2015.01.058
- [27] Michael H. Kernis and Brian M. Goldman. 2006. A Multicomponent Conceptualization of Authenticity: Theory and Research. In Advances in Experimental Social Psychology. Vol. 38. Elsevier, 283-357. https://doi.org/10.1016/S0065-2601(06)38006-9
- [28] Markus Langer, Tim Hunsicker, Tina Feldkamp, Cornelius J. König, and Nina Grgić-Hlača. 2022. "Look! It's a Computer Program! It's an Algorithm! It's AI!": Does Terminology Affect Human Perceptions and Evaluations of Algorithmic Decision-Making Systems?. In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (New Orleans, LA, USA) (CHI '22). Association for Computing Machinery, New York, NY, USA, Article 581, 28 pages. https: //doi.org/10.1145/3491102.3517527
- [29] Jie Li, Hancheng Cao, Laura Lin, Youyang Hou, Ruihao Zhu, and Abdallah El Ali. 2024. User Experience Design Professionals' Perceptions of Generative Artificial Intelligence. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (Honolulu, HI, USA) (CHI '24). Association for Computing Machinery, New York, NY, USA, 15 pages. https://doi.org/10.1145/3613904.
- [30] Weixin Liang, Mert Yuksekgonul, Yining Mao, Eric Wu, and James Zou. 2023. GPT detectors are biased against non-native English writers. Patterns 4, 7 (2023), 100779. https://doi.org/10.1016/j.patter.2023.100779
- [31] Q.Vera Liao and S. Shyam Sundar. 2022. Designing for Responsible Trust in AI Systems: A Communication Perspective. In 2022 ACM Conference on Fairness, Accountability, and Transparency. ACM, Seoul Republic of Korea, 1257-1268. https://doi.org/10.1145/3531146.3533182
- [32] Chiara Longoni, Andrey Fradkin, Luca Cian, and Gordon Pennycook. 2022. News from Generative Artificial Intelligence Is Believed Less. In Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency (Seoul, Republic of Korea) (FAccT '22). Association for Computing Machinery, New York, NY, USA,

- 97–106. https://doi.org/10.1145/3531146.3533077 [33] Nikita Lukianets. 2024. Taxonomy openeth Taxonomy — openethics.ai. https://openethics.ai/ taxonomy/. [Accessed 22-01-2024].
- [34] Xueming Luo, Siliang Tong, Zheng Fang, and Zhe Qu. 2019. Frontiers: Machines vs. Humans: The Impact of Artificial Intelligence Chatbot Disclosure on Customer Purchases. Marketing Science 38, 6 (2019), 937-947. https://doi.org/10.1287/mksc. 2019.1192 arXiv:https://doi.org/10.1287/mksc.2019.1192
- [35] Nora McDonald, Sarita Schoenebeck, and Andrea Forte. 2019. Reliability and Inter-rater Reliability in Qualitative Research: Norms and Guidelines for CSCW and HCI Practice. Proceedings of the ACM on Human-Computer Interaction 3 (11 2019), 1-23. https://doi.org/10.1145/3359174
- [36] Tech Monitor. 2024. Text of EU AI Act leaked amid debate over the timeline for final approval - techmonitor.ai, https://techmonitor.ai/technology/ai-andautomation/eu-ai-act-leaked-short-timeline. [Accessed 24-01-2024].
- Deepa Muralidhar, Rafik Belloum, Kathia Marçal de Oliveira, and Ashwin Ashok. 2023. Elements that Influence Transparency in Artificial Intelligent Systems - A Survey. In Human-Computer Interaction - INTERACT 2023, José Abdelnour Nocera, Marta Kristín Lárusdóttir, Helen Petrie, Antonio Piccinno, and Marco Winckler (Eds.). Springer Nature Switzerland, Cham, 349-358.
- [38] Claudio Novelli, Federico Casolari, Philipp Hacker, Giorgio Spedicato, and Luciano Floridi. 2024. Generative AI in EU Law: Liability, Privacy, Intellectual Property, and Cybersecurity, arXiv:2401.07348 [cs.CY]
- Council of the EU. 2024. Artificial intelligence act: Council and Parliament strike a deal on the first rules for AI in the world. https://www.consilium.europa. eu/en/press/press-releases/2023/12/09/artificial-intelligence-act-council-andparliament-strike-a-deal-on-the-first-worldwide-rules-for-ai/. [Accessed 22-01-2024].
- [40] OpenAI. 2023. GPT-4 Technical Report. arXiv:2303.08774 [cs.DL]
- OpenAI. 2024. How OpenAI is approaching 2024 worldwide elections openai.com. https://openai.com/blog/how-openai-is-approaching-2024-worldwideelections. [Accessed 17-01-2024].
- Cecilia Panigutti, Ronan Hamon, Isabelle Hupont, David Fernandez Llorca, Delia Fano Yela, Henrik Junklewitz, Salvatore Scalzo, Gabriele Mazzini, Ignacio Sanchez, Josep Soler Garrido, and Emilia Gomez. 2023. The Role of Explainable AI in the Context of the AI Act. In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (Chicago, IL, USA) (FAccT '23). Association for Computing Machinery, New York, NY, USA, 1139-1150. https://doi.org/10.1145/ 3593013.3594069
- [43] Gordon Pennycook, Adam Bear, Evan T. Collins, and David G. Rand. 2020. The Implied Truth Effect: Attaching Warnings to a Subset of Fake News Headlines Increases Perceived Accuracy of Headlines Without Warnings. Management Science 66, 11 (2020), 4944-4957. https://doi.org/10.1287/mnsc.2019.3478 arXiv:https://doi.org/10.1287/mnsc.2019.3478
- Bogdana Rakova, Jingying Yang, Henriette Cramer, and Rumman Chowdhury. 2021. Where Responsible AI Meets Reality: Practitioner Perspectives on Enablers for Shifting Organizational Practices. Proc. ACM Hum.-Comput. Interact. 5, CSCW1, Article 7 (apr 2021), 23 pages. https://doi.org/10.1145/3449081
- Vinu Sankar Sadasivan, Aounon Kumar, Sriram Balasubramanian, Wenxiao Wang, and Soheil Feizi. 2023. Can AI-Generated Text be Reliably Detected? arXiv:2303.11156 [cs.CL]
- [46] Chitwan Saharia, William Chan, Saurabh Saxena, Lala Li, Jay Whang, Emily L Denton, Kamyar Ghasemipour, Raphael Gontijo Lopes, Burcu Karagol Ayan, Tim Salimans, et al. 2022. Photorealistic text-to-image diffusion models with deep language understanding. Advances in Neural Information Processing Systems 35 (2022), 36479-36494.
- Nicolas Scharowski, Michaela Benk, Swen J. Kühne, Léane Wettstein, and Florian Brühlmann. 2023. Certification Labels for Trustworthy AI: Insights From an Empirical Mixed-Method Study. In 2023 ACM Conference on Fairness, Accountability, and Transparency. ACM, Chicago IL USA, 248-260. https://doi.org/10. 1145/3593013.3593994
- [48] Albrecht Schmidt, Passant Elagroudy, Fiona Draxler, Frauke Kreuter, and Robin Welsch. 2024. Simulating the Human in HCD with ChatGPT: Redesigning Interaction Design with AI. Interactions 31, 1 (jan 2024), 24-31. https://doi.org/10. 1145/3637436
- [49] Aaron Springer and Steve Whittaker. 2020. Progressive Disclosure: When, Why, and How Do Users Want Algorithmic Transparency Information? ACM Transactions on Interactive Intelligent Systems 10, 4 (Dec. 2020), 1-32. https: //doi.org/10.1145/3374218
- [50] S Shyam Sundar. 2020. Rise of machine agency: A framework for studying the psychology of human-AI interaction (HAII). Journal of Computer-Mediated Communication 25, 1 (2020), 74-88.
- S. Shyam Sundar and Jinyoung Kim. 2019. Machine Heuristic: When We Trust Computers More than Humans with Our Personal Information, In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (Glasgow, Scotland Uk) (CHI '19). Association for Computing Machinery, New York, NY, USA, 1-9. https://doi.org/10.1145/3290605.3300768
- [52] Benjamin Toff and Felix M Simon. 2023. "Or they could just not use it?": The Paradox of AI Disclosure for Audience Trust in News. (Dec. 2023).

- [53] Joel E Tohline et al. 2008. Computational provenance. Computing in Science & Engineering 10, 03 (2008), 9–10.
- [54] Richie Torres. 2023. H.R.3831 AI Disclosure Act of 2023. https://www.congress.gov/bill/118th-congress/house-bill/3831?s=1&r=1 Accessed: 2024-1-15.
- [55] Steven Umbrello and Ibo Poel. 2021. Mapping value sensitive design onto AI for social good principles. AI and Ethics 1 (08 2021), 3. https://doi.org/10.1007/s43681-021-00038-3
- [56] Michael Veale and Frederik Zuiderveen Borgesius. 2021. Demystifying the Draft EU Artificial Intelligence Act: Analysing the good, the bad, and the unclear elements of the proposed approach. Computer Law Review International 22, 4 (2021), 97–112. https://doi.org/10.9785/cri-2021-220402
- [57] Merriam Webster. 2024. Definition of DISCLOSE. https://www.merriam-webster. com/dictionary/disclose. Accessed: 2024-1-22.
- [58] Waheeb Yaqub, Otari Kakhidze, Morgan L. Brockman, Nasir Memon, and Sameer Patil. 2020. Effects of Credibility Indicators on Social Media News Sharing Intent. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (Honolulu, HI, USA) (CHI '20). Association for Computing Machinery, New York, NY, USA, 1–14. https://doi.org/10.1145/3313831.3376213
- [59] Haonan Zhong, Jiamin Chang, Ziyue Yang, Tingmin Wu, Pathum Chamikara Mahawaga Arachchige, Chehara Pathmabandu, and Minhui Xue. 2023. Copyright Protection and Accountability of Generative Al: Attack, Watermarking and Attribution. In Companion Proceedings of the ACM Web Conference 2023 (Austin, TX, USA) (WWW '23 Companion). Association for Computing Machinery, New York, NY, USA, 94–98. https://doi.org/10.1145/3543873.3587321

#### A APPENDIX

ID	Questions	Sub-theme	Theme	Votes
1	How much should you communicate? Does law pro- vide any answers? If not what is ethical?	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	3
2	How dangerous is the content generated by AI?	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	2
3	Why should this be a right?	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	1
4	Why is it important to disclose the limitation and complexity of AI systems?	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	
5	Whose interests have informed this law?	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	
6	Why should similar obligation not apply to human in digital setting? (think "authenticity" in virtual worlds like 2nd life or WOW)"	Ethical Implications of AI Use	Ethical, Legal, and Policy Considerations	
7	What should be disclosed?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	3
8	Who is going to be responsible for the consequences?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	3
9	Who is responsible for informing the user?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	3
10 11	Who is going to compensate for damages? Who decides what "interaction" means? Art 52.1 what	Legal Compliance and AI Disclosure Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations Ethical, Legal, and Policy Considerations	1 1
12	does it mean? When should users be punished for not following the	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	1
13	obligation? and when providers? When to update the law given the fast technological	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	1
14	development? What are the intended uses and applications of AI	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	
15	systems as disclosed to users? When is disclosure not sufficient?	Local Compliance and Al Disclosure	Ethical Logal and Daligy Considerations	
15	When is communication authentic?	Legal Compliance and AI Disclosure Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations Ethical, Legal, and Policy Considerations	
16 17	Why we need to make laws for disclosing of it? Why	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations  Ethical, Legal, and Policy Considerations	
17	we let the provider and the user to determine by them-	regal compliance and 74 Disclosure	Edineal, Eegal, and Folicy Considerations	
18	selves? Who should set the rule?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	
19	Who has to go to prison if something happens?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations  Ethical, Legal, and Policy Considerations	
20	Who should contribute to develop the AI Disclosure?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations  Ethical, Legal, and Policy Considerations	
21	Who is responsible for AI Disclosure?	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	
22	Who should be disclosed? Context	Legal Compliance and AI Disclosure	Ethical, Legal, and Policy Considerations	
23	Who is going to be impacted by non disclosure?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	3
24	When do users need to disclose the use of AI? Consider continued influence effect	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	2
25	Who decides if a "context of use" is obvious enough to not require an "interaction"?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	2
26	What information should recipients not receive?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	2
27	When the AI disclosure should be introduced?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	2
28	What transparency level/degree needs to be provided to the users?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	1
29	Who is responsible for deciding if a disclosure is needed?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	1
30	When is it mandatory to disclose something is created by AI? Always?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	1
31	What is a good way to do AI disclosure in the context where the "mystery?" is needed?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
32 33	What is the content that AI should disclose? Who wants to keep informed about the fact that is	Policy and Regulatory Impact Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations Ethical, Legal, and Policy Considerations	
34	generated by AI? Who is going develop/fine tune the specific AI to	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
35	create such contents? Where in the value chain should transparency be pro-	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
36	vided? Where is this monitored from?	Policy and Regulatory Impact	Ethical Legal and Policy Considerations	
37	Why differentiating AI and Human is necessary?	Policy and Regulatory Impact Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations Ethical, Legal, and Policy Considerations	
38	When to introduce AI disclosure for different AI sys-	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations  Ethical, Legal, and Policy Considerations	
39	tems? Such as google search, chatGPT? What timeline is needed to adopt the new "disclosure"	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
40	system? Who, within a chain of multiple actors, will be responsible for effectiviting there displayers obligations?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
41	sible for effectuating there disclosure obligations? When to provide AI disclosure for the users for different scenarios?	Policy and Regulatory Impact	Ethical, Legal, and Policy Considerations	
40		Fundame Al Tanka 1 2 10 111	Entrar Consideration F. 11 Co. 1 C. R. 11 12 1	
42	Who cares?	Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation	7
43 44	Who benefits from AI disclosure? When could fake AI content actually affect users' opin-	Evolving AI Technologies and Societal Impact Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation Future Considerations, Evolving Context, & Practical Implementation	2
45	ion? When can AI generated content affect the real life	Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation	
46	affairs? Why did lawmakers opt for transparency/disclosures	Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation	
47	as the core solution to "inauthentic" content?  When the AI disclosure agreement should work, avoid the effect of social development of AI technology?	Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation	
48	the effect of rapid development of AI technology? Where could fake AI content show up?	Evolving AI Technologies and Societal Impact	Future Considerations, Evolving Context, & Practical Implementation	
49	Why is it important to inform people?	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	2
50	Why should people care about this?	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	2
51	Who is AI?	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	2
52	What is the definition of AI generated content? (e.g.	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	
53	images, text) Why researchers are interested in AI systems disclo-	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	
54	sure? Why would AI have access to real world data?	Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	

Particular Considerations, Divolency Content, & Postation Implementation   Particular Considerations for Providers   Particular Deposition   Particular Considerations for Providers   Particular Considerations   Particula					
Practice   Challege on an Importantiance   Practice   Challege on	55		Future Trends and Legal Adaptation	Future Considerations, Evolving Context, & Practical Implementation	
Practice   Challege on an Importantiance   Practice   Challege on	56	How much effort should be put into the classification?	Practical Challenges in AI Implementation	Future Considerations Evolving Context & Practical Implementation	2
Particular of A inside to make that on the stand is made to the process of the		Where the AI disclosure is not welcomed? (e.g.,			2
Poor to describe amplication of the content of th	58	What kind of AI model could be used in such situa-	Practical Challenges in AI Implementation	Future Considerations, Evolving Context, & Practical Implementation	
Part to convertly use A for content productions	59		Practical Challenges in AI Implementation	Future Considerations, Evolving Context, & Practical Implementation	
2 Vily de providers need to disclose they may AT 1 Vily wouldn't the providers want to utiledout they may be a second to disclose the providers and the providers want to utiledout the providers want to utiledout the providers and the provider and the providers and providers and the providers and providers and the pro	60				
So   Why wouldn't the providers was to disclose that is all and all years with the secondary that the secondary of the seco	61		Practical Challenges in AI Implementation	Future Considerations, Evolving Context, & Practical Implementation	
So   Why wouldn't the providers was to disclose that is all and all years with the secondary that the secondary of the seco	62	Why do providers need to disclose they use AI?	Ethical Considerations for Providers	Provider Responsibility and Industry Impact	3
bee should we treat uners when not following the shighpaths And how providers. The particular programming and the shighpaths of the shighpaths and how providers and the providers of the shighpaths of the shighpaths and the shighpaths are shighpaths and the shighpaths and the shighpaths are shighpaths and shighpaths and shighpaths are shighpaths and shighpaths and shighpaths and shighpaths are shighly as shighpaths and shighpaths and shighpaths are shighly as shighly and shighpaths and shighpaths and shighly appears and challenges have shighly as a "hope there" are shighly as a "hope there" are shighly as "hope the shighly and shighly and shighly and shighly as shighly as a "hope there" are shighly as a "hope there" are shighly as a "hope the shighly as a "hope there" are shighly as a "hope the shighly as a "hope the shighly as a "hope the shighly as a "hop that ye provider become shighly and shighly and shighly passed having a "hope the shighly as a "hop that ye provider become shighly and shighly and shighly as a "hop that ye provider become shighly as a "hop that ye prov		Why wouldn't the providers want to disclose that it's			
be What type of content should not be labeled?  Why go provider sould consider disclosure in their decision making process?  What is the effort required to disclose the information correctly?  What is the effort required to disclose the information correctly?  When should provider sure through about disclose the information correctly?  What is the effort required to disclose the information correctly?  What is considered manipulation? Is there also a discussive specific insput and Challenges  Provider Reponsibility and Industry impact  and the specific insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specific Insput and Challenges  Provider Reponsibility and Industry Impact  Industry-Specif	64	How should we treat users when not following the	Ethical Considerations for Providers	Provider Responsibility and Industry Impact	1
Now provider aboutd consider disclower in their design monitory process   Why day providers want to use AI (what is the benefit (first project) of disclose the information to consectify	65		Ethical Considerations for Providers	Provider Responsibility and Industry Impact	
8 Why do provider Sequentiality and Industry Impact 9 Provider Responsibility and Industry Impact 2 Responsibility and Industry Impact 3 Responsibility and Industry Impact 4 Responsibility and Industry Impact 5 Responsibility and Industry Impact 5 Responsibility and Industry Impact 5 Responsibility Impact 5 Responsibility and Industry Impact 6 Responsibility Impact 5 Responsibility Impact 6 Responsibility Impact 7 Responsibility Impact 8 Responsibility Im					
for 19 West in the effort required to disclose the information when should providers start thinking about disclosure mechanisms in the production process?  When should providers start thinking about disclosure mechanisms in the production process?  What industry will be effected the most?  What industry will be effected the most?  What industry is a feeffect of the most?  What rearly is a feef fact?  When should information is other as a fee fact of the most of the start of the sta	67		Ethical Considerations for Providers	Provider Responsibility and Industry Impact	
Second   Provider Repossibility and Industry Impact   Provider Repossibility and Industry Impact   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Specific Impact and Challenges   Provider Repossibility and Industry Impact   Industry Impact   Industry Specific Impact and Challenges   Provider Disclosure Chilgations   Provider Repossibility and Industry Impact   Industry Impact   Provider Disclosure Chilgations   Provider Repossibility and Industry Impact   Provider Repossibility and Industry Impact   Provider Disclosure Chilgations   Provider Repossibility and Industry Impact   Provider	68		Industry-Specific Impact and Challenges	Provider Responsibility and Industry Impact	3
Mean should providers start thinking about disclosure contensions the products process?   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Industry Specific Impact and Challenges   Provider Responsibility and Industry Impact   Indust	69	What is the effort required to disclose the information	Industry-Specific Impact and Challenges	Provider Responsibility and Industry Impact	2
Man industry will be affected the most 7   What is considered mamplanistically is affected the most 7   What accounted for 7   What accounted for 7   What accounted for 8   Montant Part of the Provider Responsibility and Industry Impact 7   Industry Specific Impact and Challenges Provider Responsibility and Industry Impact 8   Provider Responsibility and Industry Impact 9   Industry Specific Impact and Challenges Provider Responsibility and Industry Impact 1   Provider Industry Impact 1   Provider Responsibility and Industry Impact 1   Provider Respo	70	When should providers start thinking about disclo-	Industry-Specific Impact and Challenges	Provider Responsibility and Industry Impact	
What is considered manipulation? Is there also a degree to the this is secounted for?   Industry-Specific Impact and Challenges   Provider Respossibility and Industry Impact	71	What industry will be affected the most?	Industry-Specific Impact and Challenges		
What cauchy is a 'sleep fakes'?   Industry-Specific lappeat and Challenges   Provider Responsibility and Industry impact   1		What is considered manipulation? Is there also a de-			
Flow can you know that the use of Al was not disclose information?   Provider Disclosure Obligations   Provider Responsibility and Industry Impact   1	73		Industry-Specific Impact and Challenges	Provider Responsibility and Industry Impact	
Flow can you know that the use of Al was not disclose information?   Provider Disclosure Obligations   Provider Responsibility and Industry Impact   1	74	Where to label information / content?	Provider Disclosure Obligations	Provider Responsibility and Industry Impact	1
When to not disclose information?   Provider Disclosure Obligations   Provider Responsibility and Industry Impact   1		How can you know that the use of AI was not dis-			
What freedom shall the provider laws in formulation lot recipient?	76	When to not disclose information?	Provider Disclosure Obligations	Provider Responsibility and Industry Impact	1
recipient of AI content  Why would medial press amounce that they are using AI?  How to decide to what extent the provider does AI disclosure?  How to decide to what extent the provider does AI of media?  How to decide to what extent the provider does AI of media?  How to decide to what extent the provider does AI of media?  How to decide to what extent the provider does AI of media?  How to decide to what extent the provider does AI of media?  How to provider Responsibility and Industry Impact  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  2 Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  2 Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  1 Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  Authenticity, Provenance, and Transparency  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  Authenticity, Provenance, and Transparency  Trust, Authenticity, and User Empowerment  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems  Trust, Authenticity, and User Empowerment  Trust, Authenticity, and User Empowerment  Trust, Auth	77	What freedom shall the provider have in formulat-			1
How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide to what extent the provider does Al How to decide the work about transparency? Authenticity, Provenance, and Transparency and Transparency and Transparency. Authenticity, and User Empowement and the providers and why?  What are the most about transparency? (think privary issue)  What case the most about transparency? (the most providers and why?)  Whore should users go if they have a complaint?  How does disclosure impact people's trust and perceived credibility?  Why disclosure is considered as key part of user satisfaction?  Why whould you choose this to communicate (any empirical studies to base your actions upon ?)  Why Al should be disclosed?  Why would you choose this to communicate (any empirical studies to base your actions upon ?)  Why Al should be disclosed?  Why would you choose this to communicate (any empirical studies to base your actions upon ?)  Why Al should be disclosed?  Why would you choose this to communicate (any empirical studies to base your actions upon ?)  Why alt people distinguish themselves?  Why would you choose this to communicate (any empirical studies to have your actions upon ?)  W	78	What information should the provider disclose to the	Provider Disclosure Obligations	Provider Responsibility and Industry Impact	
How important is it for users to know the authenticity of media?  18. How important is it for users to know the authenticity of media?  28. How are we going to verify authenticity?  38. Who is going to verify the classification?  39. Who is going to verify the classification?  40. Where can people manually verify if it is Al generated.  50. What byse of risks can arise from transparency?  51. What does "authentic" content? Information mean?  52. Who toes "authentic" content? Information mean?  53. Who is going to verify the classification?  54. What types of risks can arise from transparency?  55. What types of risks can arise from transparency?  56. What types of risks can arise from transparency?  57. Who tipes of risks can arise from transparency?  58. Who tipes of risks can arise from transparency?  59. Who tipes of risks can arise from transparency?  50. Who tipes of risks can arise from transparency?  50. Who tipes of risks can arise from transparency?  51. Who tipes of risks can arise from transparency?  52. Who tipes of risks can arise from transparency?  53. Who tipes of risks can arise from transparency?  54. Who tipes of risks can arise from transparency?  55. Who tipes of risks can arise from transparency?  56. What types of risks can arise from transparency?  57. Who tipes of risks can arise from transparency?  58. Who tipes of risks can arise from transparency?  59. Who tipes of risks can arise from transparency?  50. Who tipes of risks can arise from transparency?  50. Who tipes of risks can arise from transparency?  51. Who tipes of risks can arise from transparency?  52. Who tipes of risks can arise from transparency?  53. Who tipes of risks can arise from transparency?  54. Who tipes of risks can arise from transparency?  55. Who tipes of risks can arise from transparency?  56. Who tipes of risks can arise from transparency?  57. Who tipes of risks can arise from transparency?  58. Who tipes of risks can arise from transparency?  58. Who tipes of risks can arise from transparency?  59. How we	79		Provider Disclosure Obligations	Provider Responsibility and Industry Impact	
of media?  2 How are we going to verify authenticity?  3 Who is going to verify the classification?  4 Where can people manually verify if it is Al generated?  5 What are the implications beyond the exact content?  6 What types of risks can arise from transparency?  7 What does 'authentic' content / information mean?  8 Who might care the most about transparency? Users with most of the credibility?  8 How will different users interpret signals differently?  9 Where should users go if they have a complain?  1 How does disclosure impact people's trust and percived credibility?  9 Who responsibly disclosure is consibly disclosure at very part of users as isfaction?  9 Why would pouchose this to communicate (any empirical studies to base your actions upon?)  9 Why would you choose this to communicate (any empirical studies to base your actions upon?)  9 Why would you choose this to communicate (any empirical studies to base your actions upon?)  9 Why would you choose the user care?  9 How can we train users to spot authentic content without relying on explicit uses?  10 What studies are the most about training the properties of the	80		Provider Disclosure Obligations	Provider Responsibility and Industry Impact	
How ware we going to verify authenticity? Authenticity. Provenance, and Transparency attended by the classification?   Authenticity. Provenance, and Transparency and User Empowerment   2	81		Authenticity, Provenance, and Transparency	Trust, Authenticity, and User Empowerment	2
Who is going to verify the classification?   Authenticity, Provenance, and Transparency attent   Trust, Authenticity, and User Empowerment   2	82	How are we going to verify authenticity?	Authenticity, Provenance, and Transparency	Trust, Authenticity, and User Empowerment	2
ated?  85 What are the implications beyond the exact content? e.g jobs occurry for creatives?  86 What types of risks can arise from transparency? (think privacy issues)  87 What does "authentic" content / information mean?  88 Who might care the most about transparency? Users or providers and why?  89 How will different users interpret signals differently?  90 Where should users go if they have a complaint?  91 How does disclosure impact people's trust and perceived credibility?  92 How to responsibly disclose artistic uses of Al?  93 What are the consequences of mis-disclosure?  94 What are the consequences of mis-disclosure?  95 How much does the user care?  96 Why would you choose this to communicate (any empirical studies to base your actions upon?)  97 Why Al should be disclosed?  98 Why would you choose this to communicate (any empirical studies to base your actions upon?)  99 Why Al should be disclosed?  90 Why would you choose this to communicate (any empirical studies to base your actions upon?)  90 Why Al should be disclosed?  91 Why Al should be disclosed?  92 Why would you choose this to communicate (any empirical studies to base your actions upon?)  93 Why would you choose this to communicate (any empirical studies to base your actions upon?)  94 Why Al should be disclosed?  95 Why would you choose this to communicate (any empirical studies to base your actions upon?)  96 Why would you choose this to communicate (any empirical studies to base your actions upon?)  97 Why Al should be disclosed?  98 Why can be pople distinguish themselves?  99 How can we train users to spot authentic content without relying on explicit cues?  90 What are the consequences of mis-disclosure if Al contents is flawless or productive?  91 Why can be pople distinguish themselves?  92 Why can be pople distinguish themselves?  93 Empowering Users through Education & Awareness texts are generated by Al?  104 What are the features for fake/Ag mercated content?  105 What could be the most obvious feature for fake/Ag empowering		Who is going to verify the classification?			2
What are the implications beyond the exact content? e. glob security for creatives? What types of risks can arise from transparency? (think privacy issues) What does "authentic" content / information mean? What does "authentic" content / information mean? What does "authentic" content / information mean? Who might care the most about transparency? Users or providers and why?  ## How will different users interpret signals differently? Where should users go if they have a complaint? How does disclosure impact people's trust and perceive crede fielbility? Why the responsibly disclose artistic uses of Al? Why would people care about Al Giscourse? How much does the user care? How much does the user care? How much does the user care? Why would you choose this to communicate (any empirical studies to base your actions upon?) Why Al should be disclosed? Why would people care about Al disclosure if Al Content without relying on explicit cues? Why would people care about Al disclosure if Al Content without relying on explicit cues? Why can we train users to spot authentic content without relying on explicit cues? Why can we train users to spot authentic content without relying on explicit cues? Why can we train users to spot authentic content without relying on explicit cues? Why can we train users to spot authentic content without relying on explicit cues? Why can we train users to spot authentic content without relying on explicit cues? Why can be people distinguish themselves? Empowering Users through Education & Awareness tests are generated by Al? Why can I people distinguish themselves? Empowering Users through Education & Awareness tests are generated by Al? Why can I people distinguish themselves? Why can I people distinguish themselves? Empowering Users through Education & Awareness tests are generated by Al? Why can I people distinguish themselves? Empowering Users through Education & Awareness Empowerment Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment Trust, Authenticity, a	84		Authenticity, Provenance, and Transparency	Trust, Authenticity, and User Empowerment	2
What types of risks can arise from transparency? (think privacy issues)   Authenticity, provenance, and Transparency   Trust, Authenticity, and User Empowerment   1	85	What are the implications beyond the exact content?	Authenticity, Provenance, and Transparency	Trust, Authenticity, and User Empowerment	1
What does 'authentic' content / information mean? Who might care the most about transparency? Users or providers and why? Authenticity, Provenance, and Transparency Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment Providers and why?	86	What types of risks can arise from transparency?	Authenticity, Provenance, and Transparency	Trust, Authenticity, and User Empowerment	1
Who might care the most about transparency? Users or providers and why?  Number of should users go if they have a complaint? Where should users go if they have a complaint? Where should users go if they have a complaint? What are the considered as key part of user satisfaction? Why disclosure is considered as key part of user satisfaction? Why what are the consequences of mis-disclosure? Why would you choose this to communicate (any empirical studies to base your actions upon?) Why would you choose this to communicate (any empirical studies to base your actions upon?) Why would people care about Ald disclosure if AI content is flawless or productive?  Why would people care about Ald disclosure if AI content without relying on explicit cues?  Why can't people distinguish themselves? Empowering Users through Education & Awareness texts) are generated by AI? What could be the most obvious feature for fake/AI generated Content? What are the features for fake/egnerated content? What is the tolerated degree of user satisfaction for generated content? What is the tolerated degree of user satisfaction for generated content?  Authenticity, and User Empowerment  Inst, Authenticity, and User Empowerme	87		Authenticity Provenance and Transparency	Trust Authenticity and User Empowerment	
How will different users interpret signals differently? Where should users go if they have a complaint? How does disclosure impact people's trust and perceived credibility? How to responsibly disclose artistic uses of Al? Why disclosure is considered as key part of user satisfaction? Why disclosure is considered as key part of user satisfaction?  Why dual you choose this to communicate (any empirical studies to base your actions upon?) Why would you choose this to communicate (any empirical studies to base your actions upon?) Why Al should be disclosed? Whe vould you clear about Al disclosure if Al content without relying on explicit cuse?  Empowering Users through Education & Awareness texts) are generated by Al? Why can't people distinguish themselves? Why can't people distinguish themselves? Why can't people distinguish themselves? What could be the most obvious feature for fake/Al generated content? What is the tolerated degree of user satisfaction for generated content? What is the tolerated degree of user satisfaction for generated content?  Building Trust in Al Systems Building Trust in Al Systems Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment  Building Trust in Al Systems Trust, Authenticity, and User Empowerment  Empowering Users through Education & Awareness Trust, Authenticity, and User Empowerment  Empowering Users through Education & Awareness Trust, Authenticity, and User Empowerment		Who might care the most about transparency? Users			
Where should users go if they have 'a complaint?		<u> </u>			
How does disclosure impact people's trust and perceived credibility?					1
How to responsibly disclose artistic uses of Al?   Building Trust in Al Systems   Trust, Authenticity, and User Empowerment		How does disclosure impact people's trust and per-			
Why disclosure is considered as key part of user satisfaction?  What are the consequences of mis-disclosure? Building Trust in AI Systems Frust, Authenticity, and User Empowerment Building Trust in AI Systems Frust, Authenticity, and User Empowerment Frust, Authenticity, and User E	92		Building Trust in AI Systems	Trust, Authenticity, and User Empowerment	
What are the consequences of mis-disclosure? How much does the user care? Why would you choose this to communicate (any empirical studies to base your actions upon?) Why Al should be disclosed? Building Trust in Al Systems Trust, Authenticity, and User Empowerment Building Trust in Al Systems Trust, Authenticity, and User Empowerment Trust, Authenticity, and User		Why disclosure is considered as key part of user sat-			
How much does the user care? Why would you choose this to communicate (any empirical studies to base your actions upon?) Why AI should be disclosed? Building Trust in AI Systems Building Trust in AI Systems Trust, Authenticity, and User Empowerment Building Trust in AI Systems Trust, Authenticity, and User Empowerment Building Trust in AI Systems Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment  Building Trust in AI Systems Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment  Building Trust in AI Systems Trust, Authenticity, and User Empowerment  Trust, Authenticity, and User Empowerment  Building Trust in AI Systems Trust, Authenticity, and User Empowerment  Trust, Authenticity, and User Empowerment  Cand Description of the province of	94		Building Trust in AI Systems	Trust, Authenticity, and User Empowerment	
empirical studies to base your actions upon?) Why Al should be disclosed? Building Trust in AI Systems Trust, Authenticity, and User Empowerment Why would people care about AI disclosure if AI content is flawless or productive?  How can we train users to spot authentic content without relying on explicit cues?  What type of information empowers/triggers "act of resistance"?  Empowering Users through Education & Awareness resistance.  Empowering Users through Education & Awareness r		How much does the user care?		Trust, Authenticity, and User Empowerment	
98 Why would people care about AI disclosure if AI content is flawless or productive?  99 How can we train users to spot authentic content without relying on explicit cues?  100 What type of information empowers/triggers "act of resistance"?  101 Why can't people distinguish themselves?  102 Where can people report false classification?  103 Where should we get ask if we suspect things (images, texts) are generated by AI?  104 How to balance AI generated "True" and "fake"?  105 What could be the most obvious feature for fake/AI generated content?  106 What are the features for fake/generated content?  107 What is the tolerated degree of user satisfaction for generated content?  108 Why would people care about AI disclosure if AI content is flawless or productive?  109 How can we train users to spot authentic content without relying on explicit cues?  100 What is the tolerated degree of user satisfaction for generated content?  100 What is the tolerated degree of user satisfaction for generated content?  101 Why can't people distinguish themselves?  102 Empowering Users through Education & Awareness through Education & Awareness  103 Empowering Users through Education & Awareness  104 How to balance AI generated "True" and "fake"?  105 What could be the most obvious feature for fake/AI generated content?  106 What is the tolerated degree of user satisfaction for generated content?  107 What is the tolerated degree of user satisfaction for generated content?  108 Empowering Users through Education & Awareness  109 Empowering Users through Education & Awareness  100 Empowering Users through Education & Awareness  101 Empowering Users through Education & Awareness  102 Empowering Users through Education & Awareness  103 Empowering Users through Education & Awareness  104 Empowering Users through Education & Awareness  105 Empowering Users through Education & Awareness  106 Empowering Users through Education & Awareness  107 Empowering Users through Education & Awareness  108 Empowering Users through Education & Awa		empirical studies to base your actions upon ?)	-	•	
tent is flawless or productive?  How can we train users to spot authentic content without relying on explicit cues?  What type of information empowers/triggers "act of resistance"?  Why can 't people distinguish themselves?  Where can people report false classification?  Where should we get ask if we suspect things (images, texts) are generated by AI?  How to balance AI generated "True" and "fake"?  What could be the most obvious feature for fake/AI generated content?  What is the tolerated degree of user satisfaction for generated content?  Empowering Users through Education & Awareness tempowering					
without relying on explicit cues?  100 What type of information empowers/triggers "act of resistance." Empowering Users through Education & Awareness resistance." Trust, Authenticity, and User Empowerment  101 Why can't people distinguish themselves? Empowering Users through Education & Awareness 102 Where can people report false classification? Empowering Users through Education & Awareness 103 Where should we get ask if we suspect things (images, texts) are generated by A!?  104 How to balance AI generated "True" and "fake"? Empowering Users through Education & Awareness texts) are generated content?  105 What could be the most obvious feature for fake/AI generated content?  106 What are the features for fake/generated content? Empowering Users through Education & Awareness Empowering Users through Education & Awareness 107 Empowering Users through Education & Awareness 108 Empowering Users through Education & Awareness 109 Empowering Users through Education & Awareness 109 Empowering Users through Education & Awareness 100 Empowering Users through Education			Proposition II a Plant Co.	There Authorities and H. P.	
resistance"?  101 Why can't people distinguish themselves? Empowering Users through Education & Awareness (Where can people report false classification? Empowering Users through Education & Awareness (texts) are generated by AI?  104 How to balance AI generated "True" and "fake"? Empowering Users through Education & Awareness (what could be the most obvious feature for fake/AI generated content?  106 What are the features for fake/generated content? Empowering Users through Education & Awareness (Empowering Users (Em		without relying on explicit cues?		•	
Where can people report false classification? Empowering Users through Education & Awareness texts) are generated by Al?  What could be the most obvious feature for fake/Al generated content?  What is the tolerated degree of user satisfaction for generated content?  Empowering Users through Education & Awareness Empowering Users through Education & Awa		resistance"?		•	
Where should we get ask if we suspect things (images, texts) are generated by Al?  How to balance Al generated "True" and "fake"?  What could be the most obvious feature for fake/Al generated content?  What of belarded degree of user satisfaction for generated content?  Empowering Users through Education & Awareness  Empowering Users through Education & Awareness  Empowering Users through Education & Awareness  Trust, Authenticity, and User Empowerment  Trust, Authenticity, and User Empowermen					
How to balance AI generated "True" and "fake"?  What could be the most obvious feature for fake/AI generated content?  What are the features for fake/generated content?  What is the tolerated degree of user satisfaction for generated content?  Empowering Users through Education & Awareness Empowerment Education & Awareness Generated content?  Empowering Users through Education & Awareness Empowerment Empowerment Empowering Users through Education & Awareness Generated content?  Empowering Users through Education & Awareness Empowerment Empowerment Empowerment Empowerment Empowerment Trust, Authenticity, and User Empowerment Trust, Authenticity, and Use		Where should we get ask if we suspect things (images,			1
What could be the most obvious feature for fake/AI generated content? Empowering Users through Education & Awareness generated content? Empowering Users through Education & Awareness What are the features for fake/generated content? Empowering Users through Education & Awareness What is the tolerated degree of user satisfaction for generated content? Empowering Users through Education & Awareness generated content? Empowering Users through Education & Awareness Trust, Authenticity, and User Empowerment Trust, Authenticity, and U	104		Empowering Users through Education & Awareness	Trust. Authenticity, and User Empowerment	
What are the features for fake/generated content? Empowering Users through Education & Awareness What is the tolerated degree of user satisfaction for generated content? Empowering Users through Education & Awareness generated content? Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment Trust, Authenticity, and User Empowerment		What could be the most obvious feature for fake/AI			
		What are the features for fake/generated content? What is the tolerated degree of user satisfaction for			
		generated content;			

109	Why people would care about AI disclosure or not?	Empowering Users through Education & Awareness	Trust, Authenticity, and User Empowerment	
110	Why do users need to know they are interacting with	User Responsibility and Agency	Trust, Authenticity, and User Empowerment	3
111	AI? What information should the users acquire? Are they	User Responsibility and Agency	Trust, Authenticity, and User Empowerment	1
112	responsible for it? Why is it important for promoting democracy?	User Responsibility and Agency	Trust, Authenticity, and User Empowerment	
13	Who is going to continue using AI to create Fake	User Responsibility and Agency	Trust, Authenticity, and User Empowerment	
114	content? When to fully avoid the content without AI disclosure?	User Responsibility and Agency	Trust, Authenticity, and User Empowerment	
115	How much freedom should the users get to (not) see the classification?	Personalization and User Preferences	User Experience, Information Overload, and Personalization	3
16	How do users prefer to be informed?	Personalization and User Preferences	User Experience, Information Overload, and Personalization	2
117	How to adapt AI disclosures personally? How to present them in different devices?	Personalization and User Preferences Personalization and User Preferences	User Experience, Information Overload, and Personalization	1
18 19	How to allow users to change the personalized UI settings?	Personalization and User Preferences Personalization and User Preferences	User Experience, Information Overload, and Personalization User Experience, Information Overload, and Personalization	
.20	Why do users trust AI more/less than a human?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	3
121	How would the disclosure affect the users?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	1
22	What is the psychological difference between AI and Human?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	
123	What are the differences users feel with fake or deep fake content?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	
124	Who are sensitive or insensitive for AI disclosure?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	
125	What is the criteria for the provider for balancing AI content and human content?	Psychology of Human-AI Interaction	User Experience, Information Overload, and Personalization	
26	What is a reliable method to test the classification?	Standardization	User Experience, Information Overload, and Personalization	3
27	Where on the website should Al be disclosed? Terms of service, every piece of content, every element?	Standardization	User Experience, Information Overload, and Personalization	1
28	Who determines how disclosure should be provided, according to which standards?	Standardization	User Experience, Information Overload, and Personalization	1
29	What would ensure that users are aware of the disclosure? (How will it be made? Another extensive terms	Standardization	User Experience, Information Overload, and Personalization	
	and conditions or cookies? Do these currently work?			
30 31	Who should assess if the AI disclosure is real/true? How do you decide that the certification was designed by the right people and represents all relevant crite-	Standardization Standardization	User Experience, Information Overload, and Personalization User Experience, Information Overload, and Personalization	
132	ria? Who communicates how the interaction and what stage of the interaction does this take place?	Standardization	User Experience, Information Overload, and Personalization	
122		User Interferes and Information Overland	Hear Experience Information Overland and Develophination	4
.33	Where is the classification going to be displayed? Where is the balance between communicating enough and information overload?	User Interfaces and Information Overload User Interfaces and Information Overload	User Experience, Information Overload, and Personalization User Experience, Information Overload, and Personalization	2
35	How can you effectively communicate use of Al without distracting from content?	User Interfaces and Information Overload	$User\ Experience, Information\ Overload,\ and\ Personalization$	1
136	How can we make trust labels meaningful?	User Interfaces and Information Overload	User Experience, Information Overload, and Personalization	1
137	How to balance/control the information overload?	User Interfaces and Information Overload	User Experience, Information Overload, and Personalization	
138	What would the effect of disclosure be? e.g., a page full of AI warnings may be off putting for the user	User Interfaces and Information Overload	User Experience, Information Overload, and Personalization	
39	Who are you communicating to? e.g., different people may require different types of communication mech-	User-Centric Information Design	User Experience, Information Overload, and Personalization	4
40	anisms What under information is meaningful for the recipient?	User-Centric Information Design	User Experience, Information Overload, and Personalization	2
41	What format the users would like to see about the disclosure?	User-Centric Information Design	User Experience, Information Overload, and Personalization	2
142	Where to provide the AI disclosure? Before the generated content or after that?	User-Centric Information Design	User Experience, Information Overload, and Personalization	2
43	Where in people's living space should nature of whose clearly be communicated? (e.g., policy notice, screen)?	User-Centric Information Design	User Experience, Information Overload, and Personalization	1
144	How do you decide what type of information to communicate and who is your target group?	User-Centric Information Design	User Experience, Information Overload, and Personalization	1
145	What is the balance between AI generated "fake" and "true"?	User-Centric Information Design	User Experience, Information Overload, and Personalization	
146	How to disclose it (AI/human made) by an implicit tag?	User-Centric Information Design	User Experience, Information Overload, and Personalization	
47	How can we evaluate if the disclosure is sufficient enough information for the users?	User-Centric Information Design	$User\ Experience, Information\ Overload, and\ Personalization$	
148	When do you engage in interdisciplinary collabora- tions between lawyers (so that you what and when to communicate) and those designing communications (so that lawyers know what's possible and propose	User-Centric Information Design	$\label{thm:condition} User \ Experience, Information \ Overload, and \ Personalization$	
	policy changes)			
149	What kind of user feedback/ input is incorporated into the AI system as disclosed?	User-Centric Information Design	User Experience, Information Overload, and Personalization	

Table 1: Themes, sub-themes, and participant vote counts for the set of questions generated during our workshops.