

This report was developed by Experts and Specialists involved in the Global Partnership on Artificial Intelligence's project "Towards Real Diversity and Gender Equality in Artificial Intelligence: Evidence-Based Promising Practices and Recommendations". The report reflects the personal opinions of the GPAI Experts and External Experts involved and does not necessarily reflect the views of the Experts' organisations, GPAI, or GPAI Members. GPAI is a separate entity from the OECD and accordingly, the opinions expressed and arguments employed therein do not reflect the views of the OECD or its Members.

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Executive Summary

This is an Advancement Report for the Global Partnership on Artificial Intelligence (GPAI) project "Towards Real Diversity and Gender Equality in Artificial Intelligence: Evidence-Based Promising Practices and Recommendations." It describes, at a high level, the strategy, approach, and progress of the project thus far in its efforts to provide governments and other stakeholders of the artificial intelligence (AI) ecosystem with recommendations, tools, and promising practices to integrate Diversity and Gender Equality (DGE) considerations into the AI life cycle and related policy-making.

The report starts with an overview of the human rights perspective, which serves as the framework upon which this project is building. By acknowledging domains where AI systems can pose risks and harms to global populations, and further, where they pose disproportionate risks and harms to women and other marginalized populations due to a lack of consideration for these groups throughout the AI life cycle, the need to address such inequalities becomes clear.

Stakeholders of the AI ecosystem (e.g., governments, academia, industry, and civil society) currently lack practical, evidence-based guidance on what measures to take to address DGE in ways that comply with human rights, can be evaluated, and can demonstrate a tangible, sustainable impact (UN General Assembly 2015). Taking meaningful, measurable action is necessary. According to the United Nations (1979) and to good practices in advancing DGE considerations, responding to today's challenges necessitates adopting a twin-track approach, which includes actions and indicators in two areas:

- 1. Targeted interventions to help persons from marginalized groups (and their representative organizations) to know their rights and increase their capacities. These interventions must exist to improve knowledge and networks, while increasing capacities to equally access rights, resources, and opportunities, and participate in decision-making.
- 2. Mainstreaming gender and diversity: A strategy to make DGE a cross-cutting issue in all initiatives. All institutions companies, academia, and generally, all systems must take concrete action to ensure that systemic barriers that perpetuate the exclusion of women and marginalized groups are eliminated. This may include, for instance, funding and action plans to incorporate anti-racist, feminist and enabling initiatives and procedures.

As the UN Human Rights Council (2015) affirms, "inclusion is not only about including those who are traditionally excluded but must also be about dismantling the many forms of discrimination that contribute to the persistent marginalization of groups on the basis of arbitrary distinctions, such as their age, their gender or the color of their skin."

Achieving equality requires a shift from mere equal treatment to a focus on effective action on DGE, including resources, monitoring, and reporting. This shift also means that existing power structures must be challenged, including the distribution of power and resources. Failure to do so risks perpetuating and amplifying the current culture and values that dominate our world order, particularly within the technology industry, to the detriment of diversity and equality, and thus of human rights.

"Tokenistic" strategies are insufficient to address the harms caused or amplified by AI systems, and the lack of DGE in AI ecosystems. Research (UNESCO, 2020; IMF, 2018; OECD, 2015; ILO, 2009) consistently demonstrates that increasing DGE enhances the quality, usability and effectiveness of AI products, improves the achievement of their intended outcomes, and significantly boosts economic opportunities and national GDPs. These outcomes are important to everyone.



To achieve these aims, the project is undertaking a number of tangible actions to assess the current state of the intersection of DGE and AI, including a literature review; regional consultations with diverse stakeholders (civil society, academia, government and industry), focusing on individuals and organizations who identify as and represent marginalized groups; collecting, mapping and analyzing existing initiatives globally, to provide examples of promising practices and resources to integrate DGE in AI; and an environmental scan of DGE efforts in the AI ecosystem. This report provides an overview of the structure, methodologies, and current status of each of the above-mentioned activities. It also reflects on lessons learned to date, and lists the next steps to be taken.

Throughout its activities, the project places particular emphasis on intersectionality, encompassing identities and characteristics such as gender, race, ethnicity, disability, among others, and their intersections. Given the global scope of the project and the need to integrate numerous perspectives, it is essential to pursue meaningful engagement with marginalized groups, to be able to best capture their perspectives on issues specific to their communities and AI.

The project team hopes that this advancement report can serve as an initial exploration of these crucial issues, building on existing international dialogues among stakeholders of the global Al ecosystem surrounding the responsibilities of all parties to respect and honour human rights.



Diversity and Gender Equality in Al: A Human Rights Perspective

Al offers a wide range of possibilities to enhance the well-being of different groups and contribute to the Sustainable Development Goals (Vinuesa et al., 2020). However, its use can deepen economic, knowledge, gender, and cultural divides (UNESCO, 2021). Indeed, while Al can enhance efficiency and productivity, it also raises profound ethical concerns, given its potential to embed and amplify biases, contribute to environmental and ecological degradation, exacerbate existing inequities, further harm marginalized groups, and undermine human dignity, through prejudice, discrimination, and stereotyping (Amrute et al., 2022; UNESCO, 2023; A/HRC/44/57).

Today, AI is still generally designed, developed, monitored, and evaluated without systematic DGE approaches. This has negative consequences: it precludes AI from achieving its potential for social good, and increases harm to already marginalized groups. The 2020 Report by GPAI's Responsible AI Working Group and The Future Society found that AI initiatives (including those that self-identify as "AI for SDG" or "ethical AI") do not sufficiently include "the Global South and marginalized communities, such as people with disabilities, indigenous groups, the LGBTI+ community, persons living below the poverty line and migrants. There are of course notable and recent exceptions, such as the A+ Alliance for Inclusive Algorithms. This lack of diversity risks undermining the effectiveness and credibility of Responsible AI initiatives as well as their ability to scale. Importantly, it risks perpetuating existing inequalities and biases and misinforming policy priorities. This is particularly problematic for cross-regional collaborations" (GPAI, 2020).

International laws and frameworks, such as the 2030 Agenda for SDGs (A/RES/70/1), recognize women's and diverse populations' right to participate in all decision-making processes. While there has been some progress, these populations remain largely excluded from AI as active agents and decision-makers (Arora et al., 2023), even though ethical issues raised by AI systems are impacting critical areas such as governance, social interactions, democracy, rule of law, environment, data protection, gender equality, and protection of human rights:

- Employment: All systems are narrowing employment opportunities (Barbieri et al., 2021) and making it difficult to enforce anti-discrimination laws in the context of disability (Whittaker et al., 2019);
- Housing: All systems are undermining housing equality (So et al. 2022);
- Health care: Al systems are used to monitor and censor women, putting reproductive rights at risk (Peña & Varon, 2019b);
- Misinformation, disinformation, and hate speech: All is directly linked to the increase in misinformation, disinformation and hate speech online (A/HRC/44/57). Certain All tools can now create convincing, realistic-looking explicit content or pornographic deep fakes (Hunter, 2023). Such instances add to the harassment faced online, especially by women, and highlight the insufficiency of current laws in protecting women online (Kelleher, 2023);
- Migration: Al systems have been used to further punitive border policies, preventing already vulnerable people from seeking asylum and exposing them to the risk of refoulement (McGregor & Molnar, 2023; Dumbrava, 2021; Lehtonen & Aalto, 2017; Parks & Caplan, 2017). Al is also being used to track facial expressions or recognise emotions at security checkpoints to decide whether or not an individual is a threat (Podoletz, 2023);



- Weapons: Increased autonomy in the critical functions of weapons systems can lead to life-and-death decisions being delegated to AI systems, raising humanitarian, legal, ethical and security concerns (UNSG & ICRC, 2023). Autonomous weapons systems could affect marginalized groups disproportionately, including persons with disabilities (A/HRC/49/52);
- Social services: Al systems trained on biased data sets are allocating fewer resources and less support to persons with disabilities (A/HRC/49/52). Public-private ventures are harming girls of Indigenous and/or immigrant backgrounds and people living in poverty (Balmaceda et al., 2023);
- Reinforcing fabricated categorizations: Facial recognition systems have higher error rates
 for dark-skinned and female faces, and impose and entrench stereotypes of what different
 genders are supposed to look like (Buolamwini & Gebru, 2018; Ciston, 2019;
 Costanza-Chock, 2018). Furthermore, data categorization, in general, has been conducted
 in a top-down manner and has reinforced classifications created not by the data subjects,
 but by those with a vested interest in wielding power over them (Masiero & Das, 2019);
- Carceral system: Al systems are used to engage in mass surveillance of public spaces (Perez-Desrosiers, 2021). Moreover, using Al in the criminal justice system is entrenching stereotypes and undermining the presumption of innocence and fair trials (Benjamin, 2016; Tahir, 2019; Angwin et al., 2016; Jansen, 2018).

These examples reveal a pattern where AI systems pose disproportionate risks and harms to women and marginalized groups. Because these groups have not been considered, there are missed opportunities for AI to be more impactful. Many recent initiatives have highlighted both the positive impact and risks of AI for gender equality (UNESCO, OECD, & IADB, 2022), but the AI ecosystem lacks practical, evidence-based guidance on what measures should be taken to address DGE in ways that comply with human rights, can be evaluated, and can demonstrate impact.

To address the inequality reflected in AI ecosystems, a systemic approach based on human rights principles is required (Prabhakaran et al., 2022). This approach acknowledges that historically structured inequalities lie at the heart of marginalization and exclusion. By confronting these uncomfortable realities at the individual, community, institutional and systemic levels, we pave the way for effective means to address them and create opportunities for social transformation. This in turn fosters meaningful inclusion, inclusive growth, sustainable development and more peaceful societies, all of which are objectives of the 2030 Agenda for SDGs to which GPAI is committed. Justice, human rights and equality must occupy a central – rather than peripheral – role in the design, development, deployment and use of AI: to increase its effectiveness, to promote trust in AI, and because it is a human right for everyone, including marginalized groups, to participate in shaping our future societies, which includes and requires benefiting from advances in technology.

Project Objectives

The project's overall objective is to contribute to ensuring that AI ecosystems have the appropriate tools, frameworks, and resources to incorporate effective DGE strategies throughout the AI life cycle, and to demonstrate their impact with indicators in accordance with human rights, the OECD AI Principles, and the UNESCO Recommendation on the Ethics of AI. The project emphasizes intersectionality, considering factors such as race, ethnicity and disability, among others. Specifically, this report provides an update on how the project's activities seek to respond to existing



gaps and contribute to ensuring a just, responsible, and inclusive Al life cycle. The project's three goals are to:

- 1. frame the intersection of AI with DGE issues as a matter of human rights within the global context, taking a holistic approach based on an intersectional perspective;
- 2. document and represent the voices of marginalized groups, including showcasing diverse promising practices and resources; and
- 3. propose practical and actionable recommendations for moving forward.

The project's final report will present challenges and recommendations in an empirically grounded and accessible manner, based on dialogues with representatives of marginalized groups, promising practices, and existing resources both from the AI ecosystem and from initiatives to advance DGE in other sectors.

Finding Common Ground

While United Nations organizations (e.g., UNWOMEN, and UNICEF 2017) have adopted working definitions of gender equality and diversity-related terms, there is currently no globally shared understanding of definitions in this domain – a key challenge encountered by the project. Stakeholders sometimes use the terms *gender* and *diversity* interchangeably, or one word may predominate over the other. To facilitate a common understanding of these issues, the project is developing a Glossary to provide definitions of the key concepts that guide its research. As part of this work, the project will consider existing conceptual frameworks established by the Human Rights conventions and intergovernmental organizations, including defining gender, gender equality, gender equity, gender discrimination, racial discrimination, diversity, intersectionality, and disability.

A Systemic Approach

To advance the project's work, it is crucial to understand the problems associated with the lack of DGE in AI as a result of social inequities and power imbalances. This problem is systemic and structural, and as such, technical fixes are insufficient. The task at hand therefore encompasses more than rectifying biased data sets or algorithms to make them representative or accurate. Addressing inequality in AI ecosystems systemically and structurally, following a Human Rights framework, involves a critical examination of:

- Current human resources, social, education, and other practices that represent social, economic, attitudinal, physical, communication and other accessibility barriers for marginalized groups;
- The relevance, effectiveness, and appropriateness of Al-based interventions, particularly in well-resourced countries;
- Foundational policies and their underpinning social decisions, and the inclusiveness of Al policy-making decisions;
- Decision-making related specifically to the use of public resources for Al-powered solutions in order to achieve specific policy outcomes;
- The process by which human rights guide AI developments, and are monitored, at every stage of the AI life cycle; and



 The existence of sufficient systems in societies to ensure accountability, guarantees of non-repetition, and reparation when damage is caused by the use of AI.

This critical examination involves undertaking work along two paths: (1) improving the capacities of marginalized groups related to AI and the knowledge of human rights approaches, and how to participate in AI-related forums; and (2) examining the policies, practices and procedures of AI stakeholders to eliminate existing barriers to equal participation of women and marginalized groups. Despite countless efforts to explain the issue and the evidence of the harms caused, there has been little advancement to date. This project endeavours to tackle root causes; provide a common ground on the issues and a conceptual understanding of the terminology; and offer actionable recommendations, resources, and tools for stakeholders of the AI ecosystem to increase DGE throughout the AI life cycle, and in all AI policies and governance frameworks.

Towards Real Diversity and Gender Equality in Al: A GPAI Endeavour

With the aim of collecting a wide range of perspectives and voices from around the world on evidence-based promising practices and recommendations, the project seeks to move beyond mere identification of problems (the "what"), to explore implementation strategies, frameworks, and tools (the "how") to integrate DGE approaches in Al. Moreover, the final project outputs will focus on identifying the necessary conditions for governments and other stakeholders to effectively implement these solutions, tools, and frameworks. There has been significant progress across all project activities to date, as outlined in the following sections. However, all project components remain in a continuous state of development, with the final delivery of outputs set for 2024.

Research Design

The project's approach is founded primarily on a participatory, qualitative, and desk-based research methodology, with significant emphasis placed on the engagement with the stakeholders consulted, including our Project Advisory Group (PAG). The project's activities comprise five key components:

- 1. Literature Review: Aiming to identify key themes, theories, methodologies, and gaps in the literature on the topic of integrating DGE into the Al life cycle. This review covers existing practices and critiques of the current discourse around, and practices related to, DGE in Al.
- 2. Regional Consultations: Engaging localized expertise from five regions worldwide: Latin America and the Caribbean, Sub-Saharan Africa, Middle East and North Africa, North America and Europe, and Asia and the Pacific. Stakeholders included representatives from academia, civil society, industry, and government. A participatory qualitative data collection methodology was developed based on an interview guide and an iterative approach to explore emerging themes in collaboration with delivery partners. Consultations are ongoing.
- Community Perspectives: Outreach conducted by sharing a first version of the final report
 with civil society organizations and persons self-identifying as members of marginalized
 groups for additional feedback. These individuals and organizations also responded to a set
 of questions on the integration of DGE in AI.
- 4. **Promising Practices and Resources:** A selection of existing initiatives or solutions aiming to integrate DGE in AI, and a more elaborate analysis through use cases. Such initiatives include technical, capacity building, policy, and community engagement processes.



5. **Environmental Scan:** A mapping of existing initiatives that aim to include DGE in the Al life cycle, complete with labelling and annotation.

To validate the project's methodological steps, a Project Advisory Group was formed for regular consultation. The members of this group include GPAI Experts and External Experts/Specialists, in order to benefit from their expertise in topics such as diversity, equality, and issues specific to Indigenous communities. Members of this group include representatives from organizations such as UNESCO, Université de Montréal, Université du Québec en Outaouais, Research ICT Africa, Mila, CIFAR, Center for International Forestry Research and World Agroforestry (CIFOR-ICRAF), Transparência Brasil, Chuo University, Princeton University, Senomi Solutions, University of the Western Cape, Universitat Pompeu Fabra, Iniciativa Latinoamericana por los Datos Abiertos (ILDA), COPLAC, DataGénero, and Indigenous AI. The project is grateful for the support of the Project Advisory Group thus far, and is keen to continue to expand this group of individuals as needed to ensure diverse and robust representation, especially from the groups and intersections that this project seeks to explore as part of its objectives.

Literature Review

The scope of the literature review is twofold, seeking to collect (1) principles that have been established by top-down governance institutions; and (2) specific solutions that address concerns named by communities experiencing (or at risk of experiencing) the harms of AI development, particularly harms that result from the oppressive structures that underpin various facets of society (e.g., social, economic, political, epistemological, spiritual, health, technological relations, etc.). The research question posed was, "What are the principal socio-technical challenges, trends, gaps, voids, solutions (social and technical) that address Equity, Diversity and Inclusion in AI, in particular addressing diverse and marginalized communities of the world, and countries of the Global Majority?" The review focuses on the (in)equities in the AI life cycle highlighted by international organizations, such as United Nations bodies and the European Union, academic researchers, and most importantly, civil society organizations that support the interests of those minoritized by the status quo. By centring the perspectives of those who have been silenced or minoritized, or those not considered as part of the development of AI, the literature review also seeks to provide a brief glimpse into what equitable AI governance and technological relationships can look like.

Regional Consultations

Design

To conduct regional consultations, the project collaborated with regional experts (delivery partners) across five regions: sub-Saharan Africa, the Middle East and North Africa (MENA), Latin America and the Caribbean, North America and Europe, and Asia and the Pacific. Delivery partners included Data Pop Alliance, Derechos Digitales, and Research ICT Africa, as well as a number of distributed Research Associates. Delivery partners were selected based on their availability and capacity to conduct the consultations in a short period, as well as their existing networks. Delivery partners mapped key stakeholders and organizations for each region, streamlining the organization of the regional consultations.

To ensure consistent data collection for later comparison and aggregation, we devised a methodological concept note and a set of tools for the delivery partners. These resources were translated into French, Spanish, and Portuguese, where relevant, and included:



- Methodological Concept Note: Outlining the overarching principles within which the project required these consultations to be held.
- Interview Guides: A list of questions adapted to different stakeholders (academia, civil society, government, and industry) and targeted groups (e.g., Indigenous communities). The guide aimed to explore gaps and opportunities in the field of DGE in Al. Interview guides were used for individual interviews, and modified iteratively based on initial findings, allowing for validation of those findings during subsequent round-table discussions. Questions were grouped into the following themes:
 - o Understanding needs and expectations;
 - o Existing resources, programs and initiatives;
 - o Overcoming barriers and challenges; and
 - o Proposing ideas and solutions.
- Sociodemographic Questionnaire (Optional): Questions related to respondents' diverse
 characteristics, such as gender identity, sexual orientation, background, religion, and
 ancestral heritage. Participants' responses contributed to our efforts to promote inclusivity
 and cultural awareness, and enhanced our ability to track DGE progress and gain deeper
 insights into effective DGE strategies. The development of the questionnaire was the result
 of in-depth discussions on terms relating to race and ethnic backgrounds with various
 experts in the field, including Equity Diversity and Inclusion specialist Nicole Kaniki.
- Informed Consent Form: Outlining the project's objectives, procedures, potential benefits, and associated risks, as well as steps undertaken to ensure data privacy and confidentiality.
 The participants could choose whether or not to consent to audio recording, and whether they preferred their contributions to remain anonymous.
- Glossary: Shared with participants in advance of the consultations, with the aim of creating a common understanding on AI, gender, and diversity terms;
- Data Collection Database Templates (Online): A Microsoft Excel template for data collection to facilitate anonymous reporting and standardized sharing of participant information, and a Microsoft Excel template to map organizations working in the field of Al and DGE, as well as representatives of marginalized organizations (per region);
- Reporting Template: With various sections setting out expectations for reporting on the regional consultations, based on Quality Standards for Reporting Qualitative Research (O'Brien et al., 2014);
- Trint and Deepl Software: Access to Trint software for the automatic transcription of audio files and access to Deepl software for the automatic translation of transcripts;
- Recommendations for Data Privacy and Confidentiality: Recommendations to delivery partners to ensure participants' privacy was appropriately and adequately respected.

Implementation

Participants consisted of a diverse array of stakeholders representing academia, civil society, industry and government. Their selection was designed to ensure a diversity of perspectives, and also depended on their availability and interest in participating in the consultation. Regional consultations took various forms, encompassing individual interviews, round-table discussions, and written contributions, with the overarching objective of capturing a wide spectrum of perspectives



and voices. Aiming for an inclusive approach, the project consulted with Indigenous Peoples in North and Latin America, and will continue to reach out to more groups and representatives of marginalized communities.

The interviews and/or round tables were conducted via teleconference platforms (e.g., Zoom or Big Blue Button). Interviews were one-on-one discussions with the designated researcher, lasting approximately one hour, whereas round tables involved a group discussion led by a facilitator to foster an open and interactive environment and encourage respectful and inclusive discussions. If participants consented, the sessions were recorded, and/or notes taken. Following the interview and/or round table, the recordings were transcribed. Additionally, anonymous socio-demographic information was collected from participants, to better understand the diverse perspectives contributing to this study.

The insights and discussions generated during the interviews and/or round tables were captured as qualitative data, and analyzed thematically to identify emerging themes, convergence and divergence of opinions, consensus among participants, promising practices, lessons learned, and knowledge sharing. Following the interview and/or round table, participants had the opportunity to review and validate whether their contributions had been accurately captured and represented in the draft report, providing additional feedback as and where needed.

For the regional consultations, the project reached out to more than 284 people, consulting with 180 people from a total of 46 countries. More specifically, there was representation from ten countries in Africa (Kenya, Nigeria, Zimbabwe, Cameroon, Mauritius, Uganda, South Africa, Tunisia, Swaziland, and Burkina Faso); nine countries in Latin America (Brazil, Ecuador, Colombia, Argentina, Paraguay, Mexico, Uruguay, Bolivia, and Chile); nine countries in North America and Europe (Belgium, France, Germany, Portugal, Romania, United Kingdom, Hungary, USA, and Canada); nine countries in the MENA region (Egypt, Israel, Iran, Lebanon, Mauritania, Morocco, Saudi Arabia, Tunisia, and the United Arab Emirates); and ten countries in the Asia-Pacific region (Australia, India, Japan, Nepal, Philippines, Singapore, South Korea, Thailand, Vietnam, and Malaysia). Statistics on the regional consultations can be found in Appendix 1.

A note on Indigenous Perspectives

Interviews with 16 Indigenous people from Latin America and North America were also conducted to understand their unique perspectives and shed light on the intersection of cultural values, identity, and the rapid evolution of AI. Interview guides were prepared, addressing the following topics:

- Cultural background and heritage;
- Personal experience with technology and AI;
- Representation, harm and community values;
- Governance and sovereignty;
- · Public policy; and
- Technology and projects.

Six representatives of Indigenous Communities of North America (three from Canada, three from the USA) were interviewed. Four participants represented academia (three students, one professional) and two represented legal/policy/government. Additionally, ten interviews were conducted with people from indigenous communities in Southeast Mexico. The interviewees were speakers and/or revitalizers of the Maya, Tzotzil, Tzeltal, Chol, Mixteco and Zoque Ayapaneco languages.



Perspectives from Community Organizations

In addition to regional consultations, the project aimed to capture the perspectives of civil society organizations that represent marginalized groups (such as Indigenous Peoples, people with disabilities, gender and sex dissidences, immigrants, and refugees, among others). The project reached out to 19 civil society organizations representing such groups to ask them to share their perspectives on the intersection of AI and their community, which eight organizations and individuals agreed to do. The project offered compensation for reviewing a draft version of the outputs and sharing feedback with a specific focus on practical strategies, frameworks, and tools that facilitate the inclusion of their perspectives into the AI life cycle. The project also sought their responses to the following three questions:

- 1. What are your insights into the relationship between [your marginalized community] and Al in the context of addressing issues related to gender equality, diversity and Al?
- 2. What suggestions do you have for (a) governments, (b) industry players, (c) civil society organizations, and (d) academia to enhance their efforts in promoting diversity and gender equality within the field of AI?
- 3. In your view, does the project output accurately reflect your perspective on [your marginalized community] and AI? If not, how can we enhance its alignment with your viewpoint?

Promising Practices and Resources

The project has been working on identifying and highlighting effective, positive approaches, strategies, and methods regarding the integration of DGE in the Al life cycle. The vision for the project is that these initiatives can serve as inspirations for others to either adopt, adapt to their specific contexts, or replicate. For the selection of Promising Practices and Resources, an online search was conducted in July and August 2023, using the research terms *projects*, *Al*, *equality*, *inclusion*, and *gender*. There were 51 cases included in the initial results that addressed DGE in Al from various angles, from technical bias mitigation to developing policies for inclusive technologies. The project defined the following criteria to help short-list these cases:

- A. diversity and inclusion as core to project goals,
- B. transparent and accessible documentation,
- C. providing an actionable, potentially replicable, approach, and
- D. representing regional diversity.

To evaluate each practice against the defined criteria, an instrument/evaluation matrix was designed to curate a selection of 25 promising practices and resources, according to a feminist and socio-constructivist lens (MacKenzie & Wajcman 1999). It should be noted that defining a standardized methodology to evaluate impact is especially challenging where the goal is to move beyond the traditional definition of success in terms of numerical specifications.

Use Cases: Seeing Promising Practices and Resources in Action

The project will conduct further narrative explorations of the curated shortlist of 8 to 10 "Promising Practices and Resources," resulting in detailed use cases of the 'Promising Practices and Resources' in action. The project aims for a selection that is diverse across regions, types of projects, and stakeholders, and will classify the use cases according to the type of stakeholder, region of origin, and nature of the contribution. The objective is to create space for a diversity of perspectives to be showcased, while maintaining a focus on actionable approaches. To delve more



deeply into the experience and analyses of our use cases, further interviews will be conducted with those users and/or impacted stakeholders from the short-listed use cases.

Environmental Scan

The project is also continuing to map existing DGE initiatives applicable to the AI life cycle, classifying each under parameters such as economic contexts, business functions, designs, model types, application areas, uses pertaining to people and planet, stakeholders, DGE topics, type of tools, etc. While the identification and mapping work is ongoing (and the classification categories are not yet finalized), promising initiatives such as toolkits, papers, guidelines, documents, and online resources are being identified; the current database includes over 400 resources. The findings from this effort should be shared in a repository format, for ease of accessibility and dissemination.

Learnings and Challenges for Inclusion

Conducting a project on sensitive topics such as DGE can present challenges. To date, several challenges have been faced when completing project activities. These are summarized below to share learnings from the project with the broader DGE and ethical Al ecosystems. The project also seeks to learn from these challenges, and remain aware of their potential impact on its final findings, conclusions, and recommendations.

Lack of Participation in Consultations

The project faced challenges in ensuring participation in the consultations, particularly in certain regions. In many cases, efforts to reach out to specific groups went unanswered. In the case of the MENA region, topics that could be deemed controversial or taboo, such as those related to sexual orientation and gender expression, affected the number of interviews, although many organizations and representatives of LGBTQIA+ communities were contacted. Many countries have attitudes, levels of acceptance, and laws that can result in limited acceptance and protection for these individuals. Ensuring participation was also challenging due to differences in time zones, which made scheduling difficult. Finally, participation by large proportions of some populations was hindered by language barriers, due to the vast number of languages spoken in particular regions, combined with low English proficiency.

Lack of Access to Technological Resources

Consultations to date were held virtually. Consequently, the project has only consulted with people who have access to these types of resources, thereby excluding people who are digitally marginalized. This is an important caveat for most regions where digital exclusion is widespread.

Unequal Representation of Stakeholder Groups

To date, the project has had more representation in consultations from civil society and academic representatives than from representatives of government or private industry.

Overrepresentation of Experts and Highly Educated Individuals

Despite the project's original intention to engage with both experts and non-experts, the interview guides were designed in a way that rendered them less accessible to non-specialized (specifically in DGE and AI) audiences. Additionally, as the socio-demographic questionnaire showed, most participants had a high level of education: approximately 84% of respondents had either a Master's



or Doctoral degree; see Figure 5 in Appendix 1. This group of participants therefore does not provide adequate representation of the voices of less formally educated or marginalized groups.

Lack of Alignment on DGE and Al Topics Prior to Consultations

Although the project intended to brief and prepare consultation participants on Al and DGE topics prior to their participation in the consultations, efforts were limited due to time constraints. The project was therefore unable to evaluate whether these briefing efforts were sufficient or adequate. As such, it is possible that participants may not have felt fully prepared to participate in the discussion, particularly on issues outside of their own domains of expertise.

Looking Forward

Following these initial stages and learnings, the immediate next steps will be to:

- A. Strengthen the methodology with specific actions to include voices of those groups who are currently underrepresented in the work, which will include further mapping and contacting of additional organizations representing marginalized groups; and
- B. Identify additional promising practices and use cases, and describe in detail those that have already been identified.

These additional actions will allow the project to strengthen its coherence between the subject matter (equality) and its methodology, and enable it to provide more precise, specific recommendations to the AI ecosystem. Further specific actions will include:

- Updating the project's governance model to form an Advisory Committee with representation of marginalized groups to participate in designing and drafting the final report;
- Conducting a mapping exercise of international and regional representative organizations of marginalized groups, which, if they consent, will be included in the final report.
- Reaching out to additional organizations and people representing marginalized communities for consultations, such as Black in AI and Māori groups from New Zealand, people on the move (e.g.,migrants, refugees, displaced persons, asylum seekers, etc.), LGBTQIA+ individuals, neurodiverse persons, and persons with disabilities;
- Fine-tuning project recommendations by type of stakeholder;
- Preparing specific recommendations to include, and eliminate barriers to the inclusion of, specific groups in the AI ecosystem;
- Develop the platform and/or repository for dissemination of the findings of the environmental scan; and
- Prepare a repository of "Promising Practices and Resources" classified by topic, language, and stakeholder type.

The GPAI project 'Towards Real Diversity and Gender Equality in Artificial Intelligence: Evidence-Based Promising Practices and Recommendations' welcomes inputs from the broader community to help build upon its existing endeavours, towards delivery of final outputs in 2024. The project hopes the work conducted as part of this effort will help GPAI Members, and the global AI community more broadly, to adopt, adapt, and replicate impactful DGE initiatives into all respective contexts— creating meaningful, measurable action in advancing diversity and gender equality in AI.



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Appendix 1: Statistics from Regional Consultations

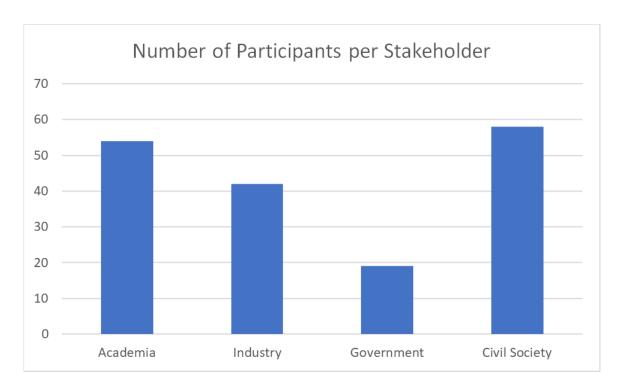


Figure 1: Number of Consultation Participants per Stakeholder Type

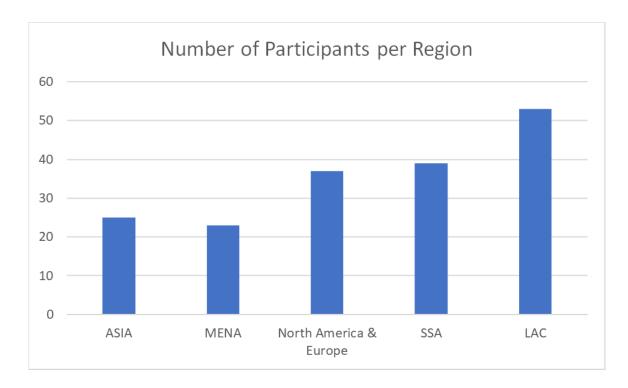


Figure 2: Number of Consultation Participants per Region



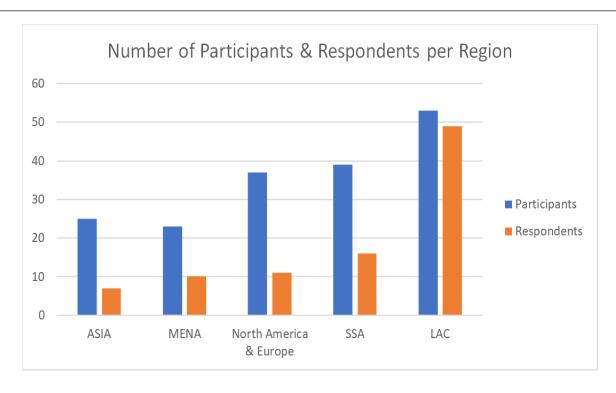


Figure 3: Number of Consultation Participants (Blue) and Socio-Demographic Questionnaire Respondents (Orange)

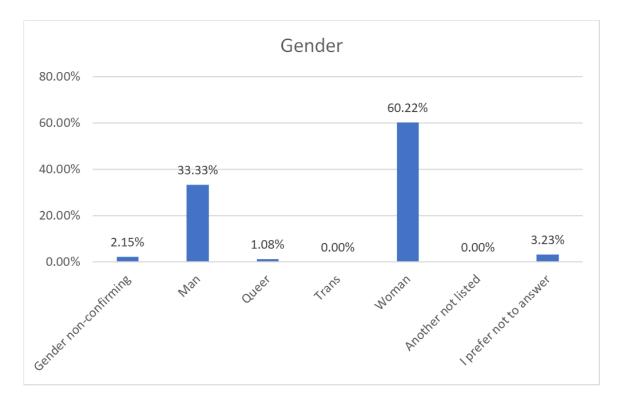


Figure 4: Gender Breakdown: Percentages among Questionnaire Respondents



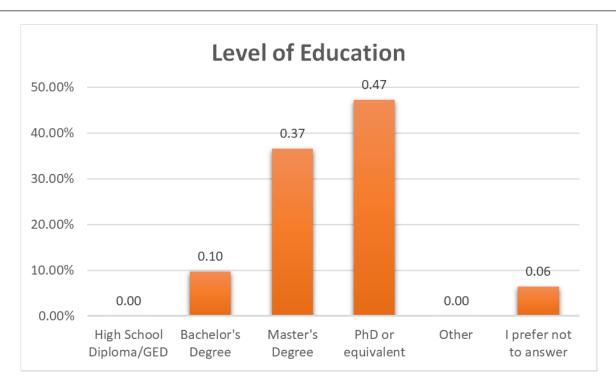


Figure 5: Level of Education: Percentages among Questionnaire Respondents

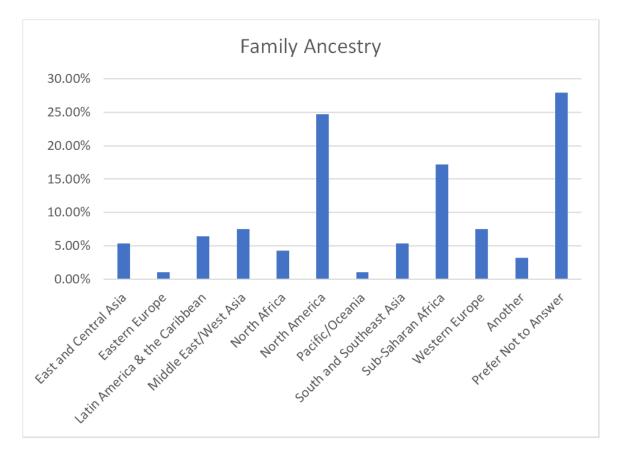


Figure 6: Family Ancestry: Percentages among Questionnaire Respondents



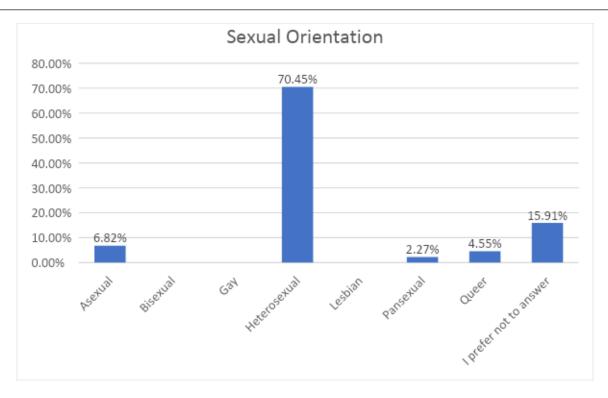


Figure 7: Sexual Orientation: Percentages among Questionnaire Respondents

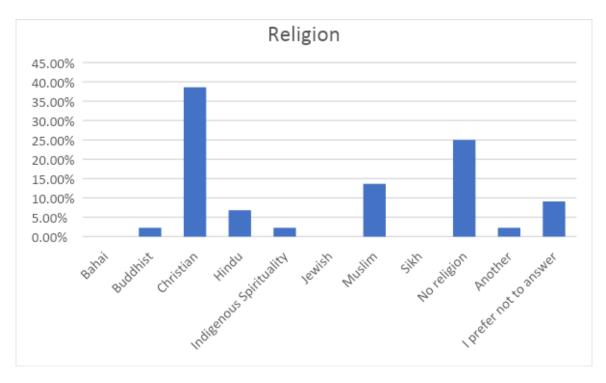


Figure 8: Religion: Percentages among Questionnaire Respondents