Policy Brief

BRIDGING THE DIGITAL LITERACY GENDER GAP IN DEVELOPING COUNTRIES

Task Force 2
Meaningful Digital Connectivity, Cyber Security, Empowerment
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Abstract

The record on digital inclusion is clear: women have been left behind. Within certain economies, cultures, and regions, the digital literacy gender gap prevents women from unlocking better learning opportunities and economic prospects. This policy brief measures the relationship between digital literacy gaps and sociocultural factors. It then describes why digital literacy gaps start forming in childhood and how most digital skilling programmes fail to address the obstacles women face in becoming a part of the digital world. It concludes by pinpointing solutions to these issues and urging the G20 and other countries to address the unique challenges of women’s digital literacy.
Challenges

Women lag behind men in a range of indicators associated with internet access and use. The World Wide Web Foundation found that the digital gender gap had barely improved since 2011 in lower and middle-income countries. According to the report, globally, men are 21 percent more likely to be online than women, a gap that rises to 52 percent in least developed countries. The problem with women’s access to digital resources does not reside in the medium itself but with the social context in which women are located. Factors such as lack of agency, education inequality, and digital spaces being viewed as dangerous and unsafe for women widen the gender digital gap. These barriers intersect across the supply side, demand side, as well as legal and regulatory domains. For instance, costs associated with internet use remain prohibitive across countries for both men and women. Still, women’s relatively lower access to economic resources and independence, and their relative time poverty exacerbate exclusion—particularly for older women, those living in rural areas, and those who are poorer.

Moreover, labour markets and education can further reinforce gender stereotypes about appropriate roles and jobs for women and men. In many contexts, technical and vocational education is seen as primarily a male preserve or is heavily segregated in terms of employment type (e.g., mechanics for males and hairdressing for females).

Many of these factors can be found at the regional level defined within countries and tend to persist over time. For instance, one of the most striking findings identified in the literature is that the historical roots of contemporary regional gender-specific roles (cultural factors) can sometimes be traced back to pre-industrial times, shaped by prevailing social structures (e.g., Alesina et al., 2013; Giuliano, 2018; Sorgner, 2021). Thus, local cultural factors impacting gender equality may persist even when societies transition to a more advanced stage of development.

However, national digital literacy programmes often fail to acknowledge and address these issues. As a result, the gender gap in digital skills and literacy remains a formidable barrier to girls and women benefiting from new economic opportunities, vital information such as health-related advice and guidance, and overall social and public engagement.
Digital literacy and skilling programmes run by countries thus have to be evaluated to
determine whether they sufficiently address the unique challenges that women face to
become a part of the digital world (Sorgner, 2019). The potential for digital gender
equality is greatly enhanced as the world rapidly adopts artificial intelligence for
education, technological advancement, and economic productivity. Digital literacy may
unlock better learning opportunities, skills development, and economic prospects. The
Indonesian presidency has identified Digital Skills and Digital Literacy as one of the
priority issues for the Digital Economy Working Group. Therefore, the complex interplay
of socio-cultural factors and constraints around gender roles needs nuanced and
coordinated policy responses at the global level.
Proposals for G20

Quantifying the relationship between social norms and the gender gap in digital literacy

To outline the relationship between gendered social norms and gender gap in digital literacy, we have plotted the correlation between a series of indicators from Target 4.4.1 of SDG 4 on Quality Education—which measures the proportion of youth and adults with different information and communications technology (ICT) skills—and the Social Institution and Gender Index (SIGI). The SIGI is a cross-country indicator that measures the impact of social and cultural norms on women's empowerment. The aggregate result is an index that ranges from 0 (=inclusive social and cultural norms) to 1 (=very restrictive social and cultural norms), which quantifies the level of discrimination experienced by women in every stage of their lives.

The graphs below show the correlation between selected indicators from Target 4.4.1 and the SIGI. To fit the regression line, we weighted each country for the population size (represented by the size of the bubbles) to limit the distortion of possible outliers. To quantify the gender gap in digital literacy, we used the female to male ratio obtained by dividing the percentage of women with a particular ICT skill by the percentage of men with the same skill.

For the analysis, we selected three indicators representative of the digital skills of a population that we have ranked from the most basic to the most advanced:

1. Proportion of youth and adults who have copied or moved a file or folder (%).
2. Proportion of youth and adults who have sent e-mails with attached files (e.g., document, picture, video).
3. Proportion of youth and adults who have found, downloaded, installed, and configured software (%).

Even with some variability, most countries for all the selected indicators display a female to male ratio below 1, highlighting that women generally have lower digital skills than men. Interestingly, all the selected indicators highlight a negative correlation (ranging from a figure of 0.19 to a stunning 0.45) between the female to male ratio and the SIGI index: the higher is the level of discriminatory social norms (SIGI index close to 1), the lower is the Female to Male ratio (the percentage of women with a specific ICT skill is lower than the percentage of men).

The income levels of the countries included in the analysis appear highly predictive of discriminatory social norms and the gender divide in digital literacy. High-Income economies
have more inclusive social norms (SIGI index closer to 0) and consequently have a higher female-to-male ratio (smaller gender divide) compared to Lower-Middle Income and Low-Income economies. For the more basic skills (copy or move a file or folder, send e-mails with attached file), the High-Income economies approach a ratio equal to 1 (perfect parity). In contrast, even the most technologically developed countries lag behind in the more advanced skills (downloading, installing, and configuring software). This distinction does not appear very neat for the Lower-Middle Income and Low-Income economies, highlighting a similar gender divide in basic and advanced skills.
Age dimensions of the digital literacy gender gap

Addressing the gender gap in digital skills requires investing early in girls’ access to digital resources and STEM education (World Bank, 2021), and strengthening the digital environment
that children can access safely and widely, in line with their evolving capacities across ages\(^1\). While two-thirds of the world’s school-age children do not have fixed internet connection in their homes (UNICEF Office of Research, 2022), the growth of mobile subscriptions\(^2\) has meant many children have access to digital resources via their phones.

Disaggregated data for children’s access to digital technology is hard to come by, with most data aggregated at the household level. Within a household, a child’s access is further shaped by the extent of parental control and the sharing of devices with other siblings or household members. Data from a recent survey (UNICEF Office of Research, 2022) with over 5,000 children aged 12-17 years in five countries of Eastern and Southern reveal barriers faced particularly by younger children, rural children, and girls. Across all countries, girls were less likely to report being internet users than boys. In particular, and across all countries, girls were more likely than boys to report being prevented from access to the internet by parents and, to a lesser extent, teachers.

Social control of girls’ digital access is dependent on the wider social norms that construct degrees of mobility and independence for girls and women. The decision to purchase a phone, as well as which handset to purchase, is often not independently made by women but by husbands or other male authority figures (GSMA, 2015); furthermore, there are often barriers to recharging credit if it entails going to a shop to do so. Mobility constraints are likely to be more experienced by girls than women, especially adolescent girls. A particular concern in more socially conservative societies is the freedom that having phones may grant girls to pursue romantic interests outside of the framework of marriage—often more based on perception or fear than actual occurrence.

**Digital literacy programmes’ common flaws**

Having established a gender gap in digital skills, especially in developing and low-income countries, and its early-age origin, we now bring focus to the role of digital literacy programmes in addressing this wedge. Digital skills are not usually a part of school curriculums, limiting the capabilities of the marginalised to effectively and equally participate in the digital world. This usually includes women and girls.

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2 GSMA_MobileEconomy2020_Global.pdf
This section seeks to analyse digital literacy programmes through the lens of gender. The goal is to assess whether they are designed to address cultural and social constraints that women experience or if they lead to further systematic discrimination and unequal outcomes for women in the digital ecosystem. We present an analysis of digital literacy programmes across countries (refer to Table 1) to illustrate varying approaches adopted by governments to build digital skills.

We find that at least several countries have gender focus built into their digital literacy initiative, though none, barring the EU, place official targets or actually track progress.

Table 1:

<table>
<thead>
<tr>
<th>Country</th>
<th>National digital literacy policy</th>
<th>Objective of the Programme</th>
<th>Women listed as target beneficiaries</th>
<th>Official targets for women</th>
<th>Gender disaggregated data collected (to track progress)</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td>Pradhan Mantri Gramin Digital Saksharta. Abhiyaan (PMGDISHA)</td>
<td>To make one person in every eligible rural family digitally literate.</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Makin Cakap Digital</td>
<td>To accelerate digital transformation, build knowledge and public awareness, and develop digital skills.</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>Baeumnara</td>
<td>To provide e-learning to major underserved groups including the elderly, the disabled, housewives, and low-income earners.</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Country</td>
<td>Initiative/Program</td>
<td>Goal</td>
<td>Achieved</td>
<td>Assessment</td>
<td>Goal 1</td>
</tr>
<tr>
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</tr>
<tr>
<td>Saudi Arabia</td>
<td>Attaa Digital (to spread digital literacy and awareness)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Kenya</td>
<td>DigiSchool: The Digital Literacy Programme (to integrate use of digital technologies in learning)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>The Digital Literacy Exchange program (to encourage participation of underrepresented groups in the digital economy)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>European Union</td>
<td>Digital Education Action Plan 2021-2027 (to prioritize fostering the development of a high-performing digital education ecosystem and enhancing digital skills and competencies for the digital transformation)</td>
<td>Yes (Action 13)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
The assessment of these literacy programmes highlights four key challenges:

1. **Most digital literacy programmes fail to address women's social and cultural challenges, especially in developing countries.**

   The lack of agency, paternalistic attitudes, and controlled access to online spaces limit the ability of women to engage meaningfully in the digital ecosystem. But only a few programmes take into account this problem. The *Internet Saathi* program launched by the Tata Trust for rural women in India provides an excellent model for addressing this challenge where digitally trained women train other women, contributing to a growing network of digitally skilled women in rural areas.

2. **The design of digital literacy programmes fails to define specific targets to reduce the gender gap.**

   While India’s PMGDISHA states that women candidates will be given preference, it has no gender-specific targets. Such literacy initiatives can widen the gender gap in digital adoption and use. Indeed, the eligible households can nominate one person from their family to enroll in this programme, and for reasons described in this policy brief, families tend to appoint their sons rather than daughters. Specifying targets, as placed by the EU for STEM (Science, Technology, Engineering and Mathematics) education of female students, have resulted in a progressive change in the education and employment of women. Similarly, the Republic of Korea placed focus on the training of working women, who were forced to operate from home during the Covid-19 outbreak to fulfil care responsibilities. Targeted and monitored initiatives yield better outcomes than loose statements on a desired objective.

3. **Digital literacy programmes, as highlighted above, fail to address the systemic gender gap in education and consequently digital literacy.**

   Several countries have tried to integrate digital skills in the K-12 education curriculum. Saudi Arabia has recognised digital literacy as a “basic skill” alongside numeracy and literacy under its Human Capability Development Program Delivery Plan under vision 2030. Kenya’s Digital Literacy Programme is also a major undertaking that seeks to integrate ICTs across all levels of education in a phased manner. However, gender biases—in society, within families, by instructors and policy makers—continue to act as obstacles, preventing women from accessing or completing formal education, which also spill into a lack of digital skills.
4. Digital literacy programmes are often inadequate in providing a complete understanding of online experiences.

Meaningful engagement in the digital world is much more than watching video content or exchanging messages on social media. Most digital literacy programmes are limited in what they offer and mostly comprise training to operate devices, exchange emails, access e-government services, and pay digitally. Crucial elements of online safety, cyber security, and privacy are beyond the scope of these literacy programmes. Indonesia’s Makin Cakap Digital is a good example of a programme that holds widespread interactive digital literacy classes centred around Safe and Ethical Digital Media, Digital Media Proficiency, and Digital Media Culture.

CONCLUSION AND SUMMARY OF POLICY RECOMMENDATIONS

Policy recommendations

Create a safer online space for women
The internet being viewed as an unsafe space for girls and women leads to limiting factors such as lack of agency and lack of or limited and controlled access to online spaces. Digital literacy programmes should be designed to feature crucial issues such as online safety and privacy and include women-centric content such as resources on reproductive health and information regarding recourse from cybercrimes. This will equip women with the knowledge and digital skills to navigate the online space and will contribute to creating a safer online environment for them. Involving women in education and training at the grassroots level also helps alleviate certain hesitations stemming from social and cultural biases.

Create a database on children’s access to and use of digital resources, with a regional focus
A major gap to overcome as a priority is data and evidence that capture digital engagement across the life course. For instance, there is barely any reliable population-based data on children’s access to and use of digital resources, disaggregated by geography, gender, and household wealth. Addressing gender gaps between women and men is unlikely to be reversed at a fast enough scale if robust foundations for a healthy digital environment are not built during childhood and adolescence in age-appropriate formats. Moreover, gender-disaggregated data should be made available at the level of regions defined within countries rather than at the level of countries. This will allow for a better understanding of the regional differences in gender equality, their determinants, and the developments over time. In this way, it will be possible to
establish a monitoring system to detect changes in the situation of gender equality and to undertake corrective actions in a timely manner, if necessary.

**Leverage partnerships with the private sector and non-government organisations to design and implement digital literacy programmes**

Involving the community, especially other women, in the transfer of skills helps address socio-cultural barriers and allows women to engage with society and unlock economic opportunities. Several examples, including the Canadian Digital Literacy Exchange Program and the Internet Saathi model in India, were able to actively create these partnerships to successfully address the challenges listed above.

**Adopt Gender Specific Targets and Monitoring Progress**

While digital literacy programmes often recognise women as beneficiaries, they fail to set gender-specific targets. Coupled with the lack of gender-disaggregated data collection, these programmes’ impact cannot be sufficiently evaluated. Given the strong persistence of regional gender-specific roles over time, it is unlikely that short-term measures, particularly if they do not account for local conditions, will successfully promote gender equality. Digital literacy programmes must be designed with gender-specific targets and mandates to track their progress, allowing policymakers to assess their implementation and develop appropriate responses.

**Initiatives to promote gender equality, including educational programmes in digital literacy, should entail a location-based approach**

The determinants of gender equality are at least partly defined at a rather narrow level of regions defined within countries rather than at a broad level of nations. However, the existing initiatives to promote gender equality often disregard regional variations in the determinants of gender equality. While promoting gender equality is a global objective, it can best be achieved by considering local factors that might impact gender equality.
References


UNICEF (2021): What we know about the gender digital divide for girls: A literature review https://www.unicef.org/eap/media/8311/file/What%20we%20know%20about%20the%20gender%20digital%20divide%20for%20girls%20A%20literature%20review.pdf


Data

The data drawn from the target 4.4.1 are not harmonized both in terms of countries covered (to see the countries covered for each outcome variable please see the appendix) and time frame. We have thus included for each country the latest available figure which does not necessarily match with the year in which the SIGI was released (2019). However, the decision to pair these observations relies on the assumption that social norms are deeply rooted in the fabric of society and do not change overnight.

The authors have taken the suggestion made by the Secretariat in high consideration for improving the policy brief. Grouping the countries by level of digitalization rather than by level of income could make the analysis more insightful. The gender digital literacy gap (y axis in our policy brief) would be probably more influenced by the level of digitalization of a country rather than by its level of economic development. We can think that countries with low income but highly digitalized economies (e.g., India, Philippines...) would share similar features with the high developed countries (both technologically and economically) when considering the gender digital literacy gap.

However, there does not exist an index that captures the level of digitalization for all the countries in the world. The only available index is the World Digital Competitiveness Ranking that ranks 64 countries based on the capacity and readiness of economies to adopt and explore digital technologies for economic and social transformation. Nonetheless, it is interesting to notice (Figure 1) that the level of economic development of a country seems to be a good predictor of its level of digitalization. Apart from some notable exceptions (e.g., Luxemburg with the highest GDP per capita and ranked 22nd in the World Digital Competitiveness Ranking) the countries with the highest GDP per capita are also the best performer in the World Digital Competitiveness Ranking. Being digitalization and economic development highly correlated, it is thus possible that the criterion of grouping would not probably change the results of the analysis.

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3 Data for Taiwan and Venezuela are missing
4 The World Digital Competitiveness Ranking goes from 1 (best performer) to 64 (least performer)
Furthermore, if the level of digitalization could provide a more in-depth interpretation of the gender digital literacy gap it probably would not be able to predict the restrictiveness of the gender social norms (x axis in our policy brief) as for the level of economic development.

For all these reasons the authors have decided to continue using the income level as criterion of grouping for the graphs in the first section of the policy brief.

References Digital Literacy Programmes


India, Pradhan Mantri Gramin Digital Saksharta. Abhiyaan (PMGDISHA), [https://www.pmgdisha.in/](https://www.pmgdisha.in/)
Indonesia, Makin Cakap Digital, _https://aptika.kominfo.go.id/2021/05/peluncuran-literasi-digital-indonesia-makin-cakap-digital/_


Republic of Korea, Baeumnara, _https://www.estudy.or.kr/estudy3.0/kor/index.asp_

Saudi Arabia, Attaa Digital, _https://attaa.sa/library/?category_id=6_


### Appendix

<table>
<thead>
<tr>
<th>Figure number</th>
<th>Variable on the y axis</th>
<th>Variable on the x axis</th>
<th>Number of countries included</th>
<th>Countries included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 1</td>
<td>Proportion of youth and adults who have copied or moved a file or folder (%)</td>
<td>SIGI (2019)</td>
<td>61</td>
<td>Austria; Azerbaijan; Belarus; Belgium; Bosnia and Herzegovina; Brazil; Bulgaria; Cambodia; Central African Republic; Chad; Colombia; Croatia; Cyprus; Czech Republic; Denmark; Estonia; Finland; Georgia; Germany; Ghana; Greece; Hong Kong SAR, China; Hungary; Iran, Islamic Rep.; Iraq; Ireland; Jamaica; Kazakhstan; Kiribati; Korea, Rep.; Lao PDR; Latvia; Lesotho; Lithuania; Madagascar; Malta; Mexico; Mongolia; Morocco; Nepal; Netherlands; North Macedonia; Norway; Pakistan; Peru; Poland; Portugal; Romania; Russian Federation; Serbia; Sierra Leone; Singapore; Slovak Republic; Spain; Sweden; Thailand; Togo; Tonga; Turkey; United Kingdom; Zimbabwe</td>
</tr>
<tr>
<td>Figure 2</td>
<td>Proportion of youth and adults who have sent e-mails with attached files (e.g. document, picture, video) (%)</td>
<td>SIGI (2019)</td>
<td>36</td>
<td>Azerbaijan; Belarus; Bosnia and Herzegovina; Brazil; Cambodia; Central African Republic; Chad; Colombia; Côte d'Ivoire; Georgia; Ghana; Hong Kong SAR, China; Iran, Islamic Rep.; Jamaica; Japan; Kazakhstan; Kiribati; Korea, Rep.; Lao PDR; Lesotho; Madagascar; Mexico; Mongolia; Morocco; Nepal; Pakistan; Peru; Romania; Russian Federation; Sierra Leone; Singapore; Slovak Republic</td>
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</table>
### Figure 3

Proportion of youth and adults who have found, downloaded, installed and configured software (%).

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<tr>
<th>SIGI (2019)</th>
<th>59</th>
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</table>

- Austria; Albania; Azerbaijan; Belarus; Belgium; Bosnia and Herzegovina; Brazil; Cambodia; Central African Republic; Chad; Colombia; Côte d’Ivoire; Croatia; Cyprus; Czech Republic; Denmark; Estonia; Finland; Georgia; Ghana; Greece; Hong Kong SAR, China; Iran, Islamic Rep.; Iraq; Italy; Kazakhstan; Kiribati; Korea, Rep.; Lao PDR; Latvia; Lesotho; Lithuania; Madagascar; Malta; Mexico; Mongolia; Morocco; Nepal; Netherlands; North Macedonia; Norway; Pakistan; Palestine; Poland; Portugal; Romania, Serbia, Sierra Leone; Singapore; Slovak Republic; Slovenia; Spain; Sweden; Switzerland; Thailand; Togo; Tonga; United Kingdom; Zimbabwe

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Paul’s career has been in skills education. He was Principal of a College in Liverpool before moving to UCL in 2006, as Co-Director of the Centre for Education and Work, and Enterprise Lead for Education, Practice and Society, retiring in September 2020. He continues to lead research into strategic planning, management, and governance development within the TVET sector and the impact of the 4th IR on entrepreneurial activity. Paul has been a member of the G20 Task Force on the Future of Work since 2018 and, in 2021, Co-Chair of Task Force 6 on Digital Transformation, assessing the impact of COVID 19, and strategies for economic recovery.

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<tr>
<td>Fellow with the Digital Economy, Start-up, and Innovation team at ICRIER</td>
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<tr>
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<tr>
<th>Ramya Subrahmanian (Unicef - Innocenti)</th>
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| Chief, Child Rights and Protection, UNICEF Office of Research – Innocenti, where she oversees a portfolio of research that includes violence against children and women, gender and rights, migration and displacement, child labour and child marriage, amongst others. Previously she was Executive Director of Know Violence in Childhood, a global learning initiative, and, prior to that, she was a social policy specialist at UNICEF India where she led research, policy analysis and advocacy in the areas of child-sensitive social protection, equity and social inclusion, and gender equality. She
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