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**FORUM**

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# Acceleration of Girls' Education and Rights to Ensure Sustainable Gender Empowerment through ICTs



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# The status of girls' and women's education

## The good news:

- 84 million fewer out of school children and adolescents since 2000 – 52 million are girls
- 26 more countries achieved gender parity in both primary and secondary education from 36 in 2000 to 62 in 2015

## YET ...

- 31 million girls out of primary school in 2012 – 51% are expected to never enroll
- 34 million adolescent girls in lower secondary
- Among low income countries, 20% achieved gender parity at primary level, only 10% at lower secondary level and just 8% at upper secondary level
- 774 million adults lacked basic literacy skills in 2012 – 2/3 were women (rate unchanged in the last two decades)



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# Why the persistent gender gap?

- Girls and women are subject to chronic and systemic discrimination in all aspects of their lives
- Multiple and overlapping reasons, both within and outside the school: socio-cultural, economic, political, religious/attitudinal, institutional, legal :
  - poverty
  - geographical isolation (e.g. remote rural areas)
  - stereotyping and expected gender roles (e.g. early marriages and pregnancy, looking after house or family)
  - schools not responding to the needs of girls (e.g. learning, physical, socio-emotional)
  - discriminating education laws, policies, contents, pedagogies, teaching and learning approaches
  - GBV and SRGBV



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## It gets worse at secondary education

Secondary education corresponds to “adolescence”, during which:

- girls experience a wide range of physical and psychological changes that create different needs but they also expose them to various forms of discrimination and violence, both in and out of school
- gender roles and expectations become more prominent during this time



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# Qingdao Declaration

International Conference on ICT and Post-2015 Education  
(May 2015, Qingdao, China)

“To achieve the goal of inclusive and equitable quality education and lifelong learning by 2030, **ICT must be harnessed** to strengthen education systems, knowledge dissemination, information access, quality and effective learning, and more efficient service provision.”



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# Girls' education – what role for ICTs?

## ICT learning...

- can help overcome some of these barriers
- can be harnessed to strengthen the **provision** and **quality** of education and improve **access** to education for girls
- has unique features:
  - portability
  - relative affordability
  - discreteness
  - potential content richness
  - wide-use and increasing social acceptability
  - one-to-one learning advantages
  - online learning opportunities



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# Improve administration





# Education provision and administration

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ICT can make education planning and administration more efficient and effective

- Data storage
- Knowledge management
- Decision making
- School administration and management





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# Improve access



YouthMobile – Young female students from the UNRWA Refugee School learning mobile apps development, Ramallah, Palestine  
19 May, 2014  
© UNESCO/Abel Caine



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## Improve access

- Increased access to school, especially in remote areas and among disadvantaged groups
- Informal and community-based learning (e.g. Bluetooth broadcasting to women and men on Ebola – Sierra Leone; apps for adolescent mothers to identify resources such as learning opportunities, financial aid or support networks)
- Inter generational opportunities for literacy and numeracy and community development
- OER – accessible by all can help overcome the shortage of textbooks in resource-poor environments



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# Support teachers





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## Support Teachers

- Improve quality of initial teacher education: ICT skills and competencies; teaching abilities
- In-service training: integration/school-based training; enhance professional development
- Enable the creation of teacher networks (e.g. peer learning, sharing)
- Help raise the social status of teachers#
- Raise gender awareness and promote gender-sensitive teaching approaches



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# Learning process and content





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## Learning process and content

- Enrich learning experience: transform classrooms with ICT devices (tablets, satellite TV, internet)
- Better learning resources, adopted to local needs, culture, language, (e.g. digital content, online, offline/DVDs)
- Promote peer learning within school and country or other countries (e.g. apps to prevent violence against women, mobile safety)
- Adoptable and flexible content (e.g. mobile software allowing more appealing and gender-sensitive access to textbooks; customizing certain topics for girls (SRHR); helping adolescent mothers to identify resources such as learning opportunities)
- Participation in content creation



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# UNESCO's Mobile Learning Programme

## 1. Literacy

**Mobile Reading:** promoting new ways of reading and accessing reading instructions and materials and advancing literacy education



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# A promising tool for promoting literacy

## BOOKS ARE SCARCE



**MOST PEOPLE IN SUB-SAHARAN AFRICA DO NOT OWN A SINGLE BOOK**

**SCHOOLS IN POOR COUNTRIES RARELY PROVISION TEXTBOOKS**

### LIBRARY PER POPULATION RATIO

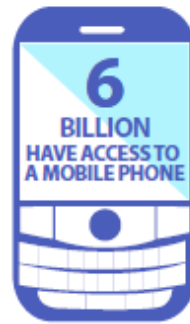
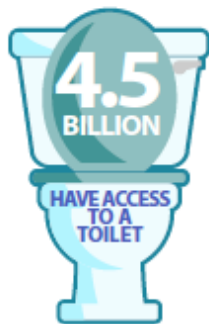


**1 : 15,000** 



**1 : 1,350,000** 

## BUT MOBILE PHONES ARE EVERYWHERE







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# UNESCO's Mobile Learning Programme

## 2. Policy

- Strengthening national capacities to develop and implement ICT policies in education, particularly through harnessing mobile technologies
  - Facilitating policy dialogue (e.g. Qingdao Conference on ICT and Education 2030/ Qingdao Declaration)
  - UNESCO ICT in Education Toolkit ([www.ictinedtoolkit.org](http://www.ictinedtoolkit.org))
  - Training of policymakers (1000+ in 50+ countries)
  - Integrating mobile technology into holistic policies and strategies on ICT in education
  - UNESCO-Intel ICT in Education Policy Platform (<https://ictedupolicy.org>)



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# UNESCO's Mobile Learning Programme

## 3. Teaching and Learning

- Using ICT to empower teachers and improve quality of learning
  - Through ICT Competency Framework for Teachers (ICT-CFT), guide countries to develop standards to support the effective pedagogical use of ICT
  - Build institutional capacity of pre-service teacher institutions in preparing teachers' ICT competencies



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# UNESCO's Mobile Learning Programme

## 4. Empowering Women and Girls

- Education empowers women and girls. It provides them the knowledge and ability needed to have control their own lives
- UNESCO's mobile learning programme looks at how mobile technology— from basic handsets to the newest tablet computers—can help promote gender equality, in education and beyond



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## Some examples from implementation

- Learning for Farmers' Activities - India 2009 – ongoing
- Literacy in Oral-Language Communities - Morocco (2012-2014)
- Mobile Literacy Project - Afghanistan (2011-2012)
- Pink Phone Revolution - Cambodia (2010-2012)
- Mobile-based Literacy Programme - Pakistan (2009-2012)
- Basic Mobile Literacy - Niger (2009-2011)
- The Jokko Initiative - Senegal (2009-2010)
- The Dab IYO DAHAB Initiative - Somalia (2008-2011)
- Mobile Learning Games - India (2004-2012)

*Source: Mobile Phones & Literacy: Empowerment in Women's Hands (UNESCO 2015)*



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# Learning for Farmers' Activities

## India 2009 - ongoing

- **Target:** 320 women farmers (illiterate and semi-literate) in 25 rural villages of Southern India
- **Purpose:** To empower women in non-formal and informal learning settings with low-cost technologies offering the means to accelerate this process in the context of cognitive social capital
- **Process:** Women with interest in goat-rearing was trained to use mobile phones and receive daily SMS on topics including buying goats, feed management, disease management and marketing
- **Outcomes:**
  - 82% of the women interviewed stated that mobile phone-based training is more useful and easier than face-to-face training
  - Women's voice and participation in their communities and households was enhanced as part of collective agency
  - Empowerment results from women's participation in learning and in owning assets: women were granted credit for start-ups in goat-rearing; formal training and the resultant self-directed learning enabled them to run viable enterprises and repay credit



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# Literacy in Oral-Language Communities Morocco 2012-2014

- **Target:** Non-literate and semi-literate women (18-80) of a oral-based rural community (speaking Berber dialect)
- **Purpose:** To increase women's use of mobile phones and to make them active participants of a technology-based water management system that distributes fog-water
- **Process:** Women were taught to use text-based features of mobile phones to communicate and participate in the water management system. A water problem reporting syntax was created based on water problem concepts, visual icons and Arabic and Latin scripts
- **Outcomes:**
  - Progress in narrowing personal mobile utility gap: women who had some SMS skills improved their ability to send texts
  - a handful of entirely analphabetic women developed the ability to write their names
  - Women were enabled to participate in the water management structure that was traditionally male dominated



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# Mobile Literacy Project

## Afghanistan 2011-2012

- **Target:** 50 illiterate and neo-illiterate women in 2 rural villages in Herat Province
- **Purpose:** To promote basic literacy among women in rural areas
- **Process:** A mobile phone-based literacy component was integrated into a non-formal 9-month literacy program
  
- **Outcomes:**
  - Rapid progress in transitioning from a literacy course level in only four months instead of nine
  - 83% beneficiaries were able to complete the post-test using correct sentences structure and vocabulary
  - a small number of students gained ability to read magazines and newspapers



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# Pink Phone Revolution

## Cambodia 2010-2012

- **Target:** 45 female commune counsellors and 7 women producers in 3 provinces
- **Purpose:** To improve communication among female commune counsellors; to enable women to receive information on agriculture, market prices and disaster-preparedness; to share knowledge and to report emergencies and domestic violence
- **Process:** Women were trained to use mobile phone with SMS system to access information such as weather forecasts, market prices, farming tips and health advisories
- **Outcomes:**
  - Women used mobile phones in their daily lives to make calls to other council and community members, and to receive current market prices of agricultural goods
  - Women overcame practical communication limitations caused by geographical distance





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# Mobile-based Literacy Programme Pakistan 2009-2012

- **Target:** Illiterate rural women (15-30) in 4 districts of Punjab Province
- **Purpose:** To help retain literacy and numeracy skills of new literate women in order for them to enjoy an improved status and livelihood
- **Process:** Daily messages were sent to women and adolescent girls on topics relevant to their lives, including maternal health, economic empowerment, sanitation and water
- **Outcomes:** After the 4-month training, participants showed:
  - improvement in literacy skills
  - enthusiasm for using mobile phones to learn literacy skills
  - basic numeracy skills to solve basic math problems/money problems and to read written documents in Urdu
  - improved writing of object names



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# Basic Mobile Literacy Niger 2009-2011

- **Target:** Adults in 117 rural villages in 4 districts in Niger
- **Purpose:** To give participants the opportunity to practice via mobile phones basic literacy skills acquired in a non-formal adult literacy and numeracy programme
- **Process:** A mobile phone texting module was incorporated into a non-formal adult literacy and numeracy programme
- **Outcomes:** Test scores in villages that incorporated the mobile literacy component were:
  - 13% higher for writing
  - 8% higher for math than in villages that received traditional literacy classes with no mobile phone intervention
  - relatively equal effects on men and women, young and old



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# The Jokko Initiative

## Senegal 2009-2010

- **Target:** Adult (49% women) and adolescent participants (59% girls) in 200 villages in rural district of South-East Senegal
- **Purpose:** Harness the potential of mobile phones as pedagogical tools to teach and reinforce literacy and as social mobilisation tools to build consensus on local development initiatives
- **Process:** A non-formal literacy component of a community empowerment programme, supported by a mobile phone-based literacy intervention in the local language in which learners use SMS to practice literacy skills
- **Outcomes:**
  - participants able to read text messages increased from 8.5% to 63%
  - participants able to use mobile phones rose by 40%
  - participants able to read received text messages rose by 60%
  - messages sent and received rose by 400%
  - participants, especially women, expressed improved literacy and a sense of empowerment



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# The Dab IYO DAHAB Initiative

## Somalia 2008-2011

- **Target:** Youth (247 female; 313 male) in Puntland, South Central Somalia and Somaliland
- **Purpose:** To build basic financial literacy skills and to use basic mobile phone technology as a tool to empower Somali youth, particularly women
- **Process:** A mobile phone-based component with emphasis financial literacy skills, integrated into a community empowerment programme on livelihood skills of youth
- **Outcomes:** Statistically-significant improvement in on finance literacy:
  - most youth were able to correctly identify liability vs. asset
  - calculate personal net worth
  - define 'debt' and 'asset'
  - identify a long-term financial goal
  - knowledge improvement in 'saving money', 'establishing and reaching financial goals', 'budgeting' and 'managing one's finances'



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# Mobile Learning Games

## India 2004-2012

- **Target:** Children in low-income slums in 3 states of India
- **Purpose:** To improve English Second Language acquisition for children
- **Process:** Using mobile-based game application to teach children to recall English words by focusing on literacy sub-skills including phonological and orthographic awareness; oral vocabulary knowledge, phonetic decoding, etc.
  
- **Outcomes:** Post-test gains on measurements of 3 literacy sub-skills:
  - *Pilot A/non-formal after-school rural intervention:* Statistically significant post-test gains on spelling skills
  - *Pilot B/formal school urban slums:* Significant post-test improvements on measurements of orthographic awareness and oral vocabulary knowledge
  - *Pilot C/informal learning:* Each week the average child learned an average of 3 new vocabulary words, based on games tracking the extent of their usage of at least 2 hours 23 minutes per week



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# Key UNESCO resources

UNESCO ICT in education: <http://www.unesco.org/new/en/unesco/themes/icts/>

UNESCO Mobile Learning Week:

<http://www.unesco.org/new/en/unesco/themes/icts/m4ed/mobile-learning-week-2015/workshops-2015/>

International Conference on ICT and Post-2015 Education

<http://www.unesco.org/new/en/unesco/themes/icts/policy/international-conference-on-ict-and-post-2015-education/>

Qingdao Declaration

<http://unesdoc.unesco.org/images/0023/002333/233352E.pdf>

UNESCO Guide on measuring ICT in education

<http://www.unesco.org/new/en/unesco/themes/icts/policy/indicators/>



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