The Future of Mobile Learning

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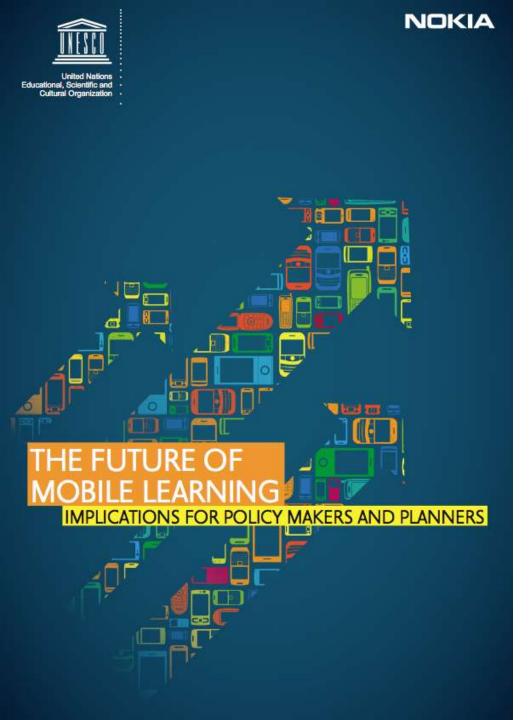
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UNESCO Working Paper Series

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Tweet your background (researcher, practitioner, policymaker, ...) #mlw2013

Outline

- Part I: Current state of mobile learning
- Part II: The Future: the next 15 years
 - Education for All (EFA)
- Part III: Grand Challenges
 - What do you think is a grand challenge? #mlw2013
- Q&A (with twitter backchannel)



Part I



COMO: Supporting collaborative group work using mobile phones



Social media:

Supporting supervision at a distance









One Laptop Per Child (OLPC)

The present

- Formal Education
 - -1:1
 - Bring your own device (BYOD)
- Informal Education
 - Skills-based
 - Nokia Life Tools
- Seamless Learning
 - Across formal/informal
- Technology
 - Digital textbooks, e-readers, mobile applications

Rationale

- Rationale: Despite 15+ years of research the impact of mobile learning has not been significant
- Aim: Better engage with policymakers: A resource to promote the use of mobile technologies for learning in the long-term and at scale
- Key underpinning: How mobile learning interventions intersect with social, cultural and commercial factors (Winters, 2013)



Part II

The future

- MOOCs & Experiential learning
 - Integration of in-situ learning
 - Capture practice data and share/discuss
- Authentic and personalized learning
 - Real-time analysis of new kinds of data sets
- New forms of (formative) assessment
 - How learning practices are recorded
- Mobile programming
 - AppsForGood, CoderDojo, Raspberry Pi, AkiraChix
- Global social interaction
 - Build on connected classrooms



ML & Education for All (EFA)

- Remit: provide quality basic education for all children, youth and adults (UNESCO, 2000)
- Themes which ML can help address
 - Access
 - Life Skills
 - Gender equality
 - Learning outcomes
- Where are we now & where next?



Access

- Where are we now?
 - Access defined as access to content
- What do we need to do in the next 15 years?
 - Access as sustained and developmental learning over time
 - Mobile learning programmes co-designed with communities to address their needs
 - Balance between low-end and high-end mobiles

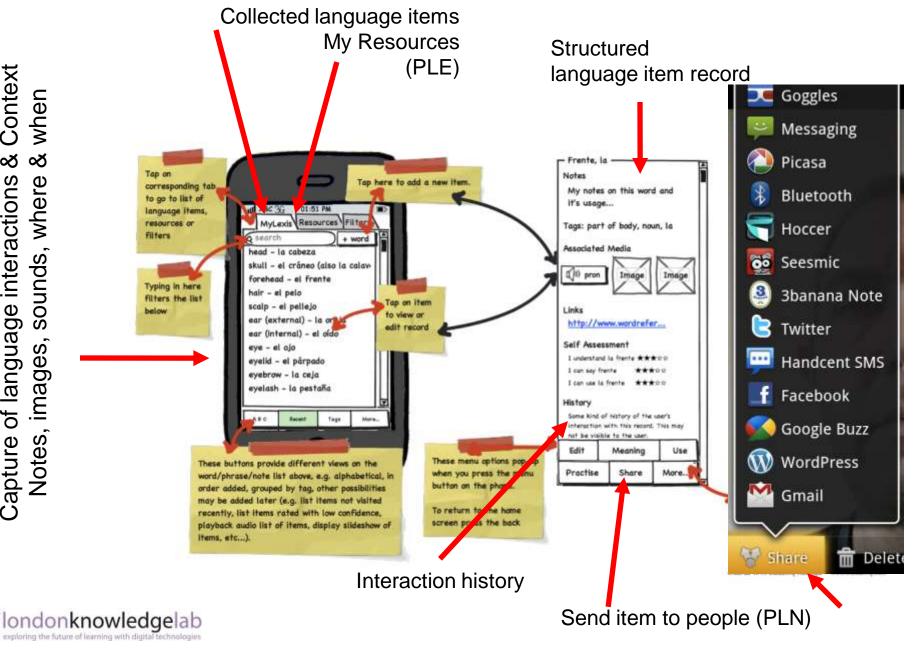


Life Skills

- Where are we now?
 - Strong, scalable projects (e.g. BBC Janala)
- What do we need to do in the next 15 years?
 - Strong pedagogical design that leverages the functionality of powerful mobile technologies
 - UX skills



milexicon Design (Underwood et al, 2012)



Gender equality

- Where are we now?
 - Strong focus on marginalised, e.g. Women receiving Medicaid (Text4Baby, 2011)
 - Multi-sector partnerships
- What do we need to do in the next 15 years?
 - Better understanding of how poverty intersects with gendered inequalities in the lives of the most marginalised
 - Sustainable models should not depend on these communities' spending



Learning outcomes

- Where are we now?
 - Complexities of gathering data related to determining learning outcomes (Vavoula & Sharples, 2009)
- What do we need to do in the next 15 years?
 - More research needed on associating mobile learning practices with learning outcomes
 - Collecting data that supports formative assessment
 - Will require a cultural shift (away from rote learning)



Grand Challenges

- Build strong multi-sector partnerships
- Link mobile learning analytics to learning theory
- Train teachers in mobile learning design
- Promote mobile learning for all



Multi-sector partnerships

- Criticism: too many pilots!
- Successes: Nokia MoMath, Text4Baby & Google SMS-Tips
- Profitability should not be a determinant of investment, quality of educational opportunity should

Mobile learning analytics

- Driver for developing better understanding of how people learn
 - Ethical issues re: collection & analysis of large datasets
 - Methods of analysis linked to learning practices

Teacher training in ML design

- Lack of training currently
- Training should focus on deepening teachers' understanding of the complex relationships between mobile technology, pedagogy, design and implementation

Mobile learning for all

- Address the needs of all learning abilities
- Need interventions that address the EFA goals directly
- Equity of opportunity should not be eclipsed by a market-driven agenda
- How to cater to the learning needs of those who don't fit into a market-driven niche?
- Bring developed and developing countries' expertise & skills together for mutual benefit

Conclusion

- Enable mobile learning for all through the equity of provision and opportunity
- Approach
 - Mobile learning as a diverse ecosystem that relies on the cooperation of various entities both public and private
 - Significantly increasing practitioner training on the design of mobile learning interventions
 - Build upon and drive future technical innovation



Thank you!

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