E-Learning Goes Global

FREE WEBINAR:
Tuesday, January 24, 2012
2 to 3 p.m. ET
Michelle Davis
Senior writer,
*Education Week Digital Directions*
E-Learning Goes Global

Expert Presenters:

Allison Powell, vice president, state and district services, International Association for K-12 Online Learning (iNACOL)

Robert Spielvogel, chief technology officer, Education Development Center, Inc.
An on-demand archive of this webinar will be available at www.edweek.org/go/webinar in less than 24 hrs.
An International Perspective of Online and Blended Learning

Dr. Allison Powell
Vice President, State and District Services
Online Learning in the United States

- States with online learning policies: 50
- State virtual schools/statewide initiatives for online learning: 40
- States with full-time online learning programs: 30 + DC
- States enacting legislation for online learning policy in last year: 16
- District programs – new learning models using online and blended learning within single districts
- Blended learning
- Instructional materials and open access - with common core, districts and states developing materials for PD, content and learning materials are moving toward open policies for content created with taxpayer dollars so it can be shared across schools

Keeping Pace with K-12 Online Learning, Evergreen Education Group, www.kpk12.com
States with State Virtual Schools or State-led Online Initiatives

Number of course enrollments

- Over 35,000
- 20,000 - 35,000
- 10,000 - 19,999
- 5,000 - 9,999
- Less than 5,000

Enrollment numbers and/or estimates are shown when available.
1 NE state virtual school is new in 2011.
2 MD enrollment estimate is from 2009-2010
3 In 2010 KP report we reported enrollment requests, not enrollments.
iNACOL International Report (2011)

- 60% of countries surveyed reported government funding for online and blended learning programs at elementary and secondary levels
- China’s first online school created in 1996; today expanded to more than 200 online schools with enrollments exceeding 600,000 students
- In British Columbia, online schools provide complete programs or individual courses to 71,000 students which is about 12% of the student population
- 2010, Hong Kong enacted a policy recommendation for digital learning that “debundled” textbooks and teaching materials to make them more affordable and accessible to schools
Canada

• K–12 distance education continues to grow in Canada, although that growth is uneven and only experienced in certain jurisdictions.

• Activity is happening in all thirteen provinces and territories
  – British Columbia having the highest number and highest percentage of student participation and Nunavut having the lowest.

• Continues to be a heavy reliance on print-based methods of distance education delivery in some jurisdictions.

• Blended Learning – Using technology in the classroom (not similar to the US)

• Online learning seen as an option to be used when face-to-face learning is not available or not feasible.

• A variety of ways the provinces and territories have implemented K-12 distance education, similar to US.
Mexico

- K-12 Digital Content, Laptop for Every Teacher, Pre-service methods using engaging digital content, new strategies
European Union

• EU:
  – EU E-Learning Action Plan
  – IB Diploma Programme Online (125 countries)
  – New Line Learning Schools

• UK: E-Learning Exports - 29 billion pounds annually; deal with China
  – Education as an export
Turkey, the Middle East & Arab Spring

- Turkey: online courses
- Arab Bureau of Education for the Gulf States
India

• Size
  – 1 billion+, 70% rural population
  – Need 200,000 more schools
• Internet Accessibility
  – 2007-08 - 42 million users (3.7%)
• Online Learning
  – Universal access for K-12 in 10 yrs
  – Shortage of good teachers
  – “Leverage teachers using technology to bring to scale”
  – Educomp digitizing learning resources for K-12 Education
China

• China: 1.3 billion people

  • Digitized K-12 curriculum

  • Training Master Teachers to teach online

  • With online learning: increase educational opportunities to 100 million new students
South Korea

- National Virtual School
- Switch to digital content from textbooks
Australia

• Pioneer in distance education, mainly servicing isolated rural schools and families
• Curriculum breadth and opportunities for students in rural and small schools still limited
• Online provision available in each state served via Blackboard, Moodle etc.
• Nationally, much is first generation online content – flat text, limited interactivity and use of Web 2.0 capacity
• Federal funded national rollout of 1:1 computing across years 9-12 by end of 2011
New Zealand

• Professional Development – ICT PD

• Teacher Laptop Program

• National Broadband Initiative

• Virtual Learning Network
Singapore

• Singapore: 100% of Secondary schools use online learning
• All teachers trained to teach online
• Blended Learning Environments
• E-Learning Weeks
Hong Kong

– Blended learning for Continuity of Learning
How Students Learn
Questions

Dr. Allison Powell

apowell@inacol.org

http://www.inacol.org

http://onlineprogramhowto.org
E-Learning in Africa

Robert Spielvogel
Chief Technology Officer
EDC

• Global nonprofit organization that designs, delivers and evaluates innovative programs to address some of the world’s most urgent challenges in education, health, and economic opportunity
• 1600 employees worldwide
• Active in all 50 states and 35+ countries in 2008 alone
• Over 350 active projects this year
• Our work ranges from small seed projects to district- and country-wide reform efforts.
Our work in Africa

- literacy and basic education,
- youth livelihoods and workforce development,
- the application of technologies

Within these three areas, programs support national school reform efforts, HIV/AIDS prevention and other health promotion, and communities and local governing bodies. Another key strand of EDC’s work focuses on helping countries expand economic opportunity and build civic society.
Where we work in Africa

Benin  Malawi
Comoros Islands  Mali
Democratic Republic of Congo  Rwanda
Egypt  Somalia-Somaliland
Ghana  South Sudan
Liberia  Sudan
Kenya  Tanzania
Madagascar  Zambia
Overview

African Landscape - Education and ICTs

Exemplary Projects

Research and Best Practices

Resources
Education – Progress and Challenges

Demographics - Very Young

- 2010 43% under age 15

Progress towards EFA

Access

- 6 fold increase in primary enrolment
- 9 fold increase in secondary enrolment

Retention

– some countries have > 40% completion of compulsory education
Issues

• Materials

• Teachers

• Quality
ICT in Africa - Bandwidth

2001

2011-2013
ICT in Africa – Policies and Attitudes

- Widespread acceptance of ICT as a significant factor in economic development
- Regulatory climate
- Support/Interest in Open Education Resources
- Support for School ICT Initiatives
ICT in Africa - Mobiles

• 2010 – 45 people per 1000 have cell phone subscription plans. Other sources cite (ITU) a 28% subscription rate - it is growing exponentially.

• In key segments such as teachers and pre-service teachers, mobile ownership is close to 90%.

• Youth ownership
Focus on Mali

- In Mali 20% of children are not in school
- 83% of 2\textsuperscript{nd} graders were unable to read even one work of a simple, grade appropriate text
- EDC’s Road to Reading project works with the Ministry of Education to develop and implement a rich reading program for resource-lean environments
- Reaches over 12,000 teachers and 600,000 students
Mali - EReaders

going books into little hands
Mali

Class set of 2-5 eReaders

Loaded with:

- 60 stories (project written)
- 61 African folk tales
- 9 European folk tales
- 43 Nursery rhymes
- 50 pictures with vocabulary words

Reading corner (individual or small group)

Drawing / vocabulary work

Use eReaders as a learning center for children to explore in free time
Mali Road to Reading: Smartphones for Improved Teaching
Key Objective: Improve teacher quality of instruction by providing access to lesson plans by smartphone

- Student-centered lessons in reading (and science) posted on web
- Teachers and their directors trained to download lessons and feedback forms on GPRS-enabled phones (Nokia E71)
- Feedback submitted by SMS
- Good enthusiasm and pedagogical success
PAJE-Nièta Mobile Learning Overview

**Work Readiness/ French Modules:**
- Digital textbooks
- Interactive Audio Instruction
- Educational Audio Programming

**Basic Education Skill Builder Modules:**
- Alphabetic sequences
- Numerical sequences
- Phonetic sequences
- Math drills
- Math quizzes
Shaqodoon – mobiles as the key to workforce development in complex environments: Somalia
eEGRA
## Taxonomy of applications for Mobile Technology

<table>
<thead>
<tr>
<th></th>
<th>Radio</th>
<th>MP3</th>
<th>Mobile phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interactive Audio Programs</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Augmented with graphics and/or video</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Support calls to peers and coach/mentor</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Text/SMS check ins</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Text/SMS interactive content</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Photo/video journal</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Mobile Web resources</td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>
SEVEN PRINCIPLES FOR SMART USE OF TECHNOLOGY IN EDUCATION

• Put the educational problem first
• Make sure that there is added value
• Sustainability
• Multiple uses
• Lowest Cost
• Reliability
• Ease of Use
Resources

http://www.brookings.edu/papers/2012/01_education_technology_winthrop.aspx

eTransform Africa  The World Bank Group and the African Development Bank, with the support of the African Union, have a new ‘flagship’ report on how ICTs, especially mobile phones, have the potential to change fundamental business models in key sectors for Africa, including education.  
http://www.etransformafri.ca.org/sector/education
Resources

World Banks’s **InfoDev Education**
Using ICTs to deliver, improve, and kick-start innovation in education


UNESCO’s ICT in Education resource
http://www.unescobkk.org/education/ict/
Resources

EDC’s web site  http://www.edc.org  and  http://idd.edc.org

**Distance Education for Teacher Training: Modes, Models, and Methods**
Mary Burns
Unlike most distance education books, this guide focuses less on policy and funding, and almost exclusively on building high-quality teaching and learning within a distance-based system. With over 200 web references to existing programs and technology tools; an annotated reference section of distance-based resources; and an extensive glossary of terms and bibliography, this guide is a valuable resource for those interested in not just distance education but technology and professional development.
E-Learning Goes Global

Expert Presenters:

Allison Powell, vice president, state and district services, International Association for K-12 Online Learning (iNACOL)

Robert Spielvogel, chief technology officer, Education Development Center, Inc.
Virtual World of Learning

E-Learning Is Evolving Around the Globe, Prompting U.S. Schools To Forge International Partnerships

Special Report
January 30, 2012
An on-demand archive of this webinar will be available at www.edweek.org/go/webinar in less than 24 hrs.