Integration of ICT in Teacher Education

VVOB’s development cooperation in Cambodia and Vietnam

Innovative ICT Practices in Teaching and Learning: A Regional Seminar
3 - 5 October 2011, Imperial Queen’s Park Hotel, Bangkok, Thailand

Facilitating Effective ICT-Pedagogy Integration Project
Funded by Korean-Funds-In-Trust (KFIT)
OUTLINE

• Introduction to VVOB: expertise and core competencies
• Barriers and opportunities for ICT integration
• Our approach
• Professional development on integration of ICT
• ICT in VVOB programmes in SE-Asia
• Supporting resources and online platforms
• Reach and impact
• Research papers
VVOB in a nutshell

- Flemish Association for Development Cooperation and Technical Assistance
- Founded in 1981 as a non-profit organisation
- Objectives: “Contribute to poverty reduction and to a fairer world with increased opportunities for all” and “Improve the quality, efficiency and effectiveness of education and training in developing countries”
- Strategic and operational partnerships with countries in Asia, Africa and South America
- The annual budget for each country programme between € 700,000 and € 1,100,000
- More than 130 associates worldwide
- Head office based in Brussels, with local offices in nine countries
- On behalf of the Federal Belgian and Flemish governments
- Cooperations with governmental and non-governmental organisations, both national and international
- In Flanders, programme on linking Flemish schools and schools in developing countries
UNESCO
Bangkok
Asia and Pacific
Regional Bureau of
Education

VVOB in the world

Belgium
Support of the activities in
the partner countries and
general organisation
- www.vvob.be

‘Northern Operations’
- SchoolLinks
- Traineeship Programme
- www.schoelenbanden.be

Vietnam
- Strengthening lower
  secondary education
- Participatory agricultural
  extension programme
- www.vvob.be/vietnam

Surinam
PROGRESS (Programme
more Effective Schools
Surinam)
- www.progress-sr.org

DR Congo
Strengthening primary
and technical agricultural
education
- www.vvob.be/drc

Kenya
- ICT Integration in
  Education
- Healthy Learning in
  primary schools
- www.vvob.be/kenya

Zambia
CPD (Continuous
Professional Development
at College and School level)
- http://vvobzambia.blogspot.com

Rwanda
- Strengthening school
  management
- Strengthening Technical
  and Vocational Education
  and Training

Cambodia
- SEAL (Science and Life
  Skills in Teacher Training)
- IMAGE (Strengthening
  Agricultural Extension)

Ecuador
Escuelas Gestoras del
Cambio (Schools as Actors of
Change)
- www.vvob.org.ec

Zimbabwe
Quality Education and
Vulnerability Programme
- www.vvob.co.zw

South Africa
Programme starting in 2011

Innovative Practices in Teaching and Learning: A Regional Seminar
WOB focuses on a range of specialised themes within the education sector.

**A** Planning
- Curriculum development
- Strategic planning

**B** Resources and support
- Teacher training and continuous professional development
- Didactics
- ICT and media
- School systems: management, participation, internal quality control

**C** Monitoring and evaluation
- External quality control (inspectorate, supervision)
Our core competencies

**Technical assistance**
- Mainly in training, coaching, facilitating and planning
- In the education sector
- Medium and longer term assistance
- Local and expatriate experts
- Supported by partnerships with local and Flemish institutions

**Bridging between macro, meso and micro level**
- Focus on the meso level: sub-sector partnerships, such as with teacher trainer institutions, the provincial level, etc.
- From this position we are able to reconcile the macro level policies
- with the needs and circumstances at the micro level (implementation)

**Capacity building**
- Strategic and operational partners
- Strengthening effectiveness and efficiency to achieve their goals
- Aligned with the policy plans and the needs of the direct and indirect target groups
Barriers ... and opportunities for ICT Integration

- Policies on ICT in education
- Access to ICT and availability
- Technical skills
- Use of ICT in teaching and learning
- Resistance to change
- Insight in ICT-pedagogy
- Vision and Educational Management
- Use of ICT in teaching and learning
Our approach:
in Teacher Education Institutions

- Clear **vision** on ICT in education
- Operational **technology plan**
- Access and availability of **resources**
- ICT in education **curriculum**
- ICT competencies in teacher profile
- Incentives for **professional development**
- Monitoring & Evaluation
Our approach:
with teachers and teacher educators

✓ Professional development on technology, pedagogy and content
✓ Learning by doing
✓ Experimentation and research
✓ Peer review and communities of practice
✓ Incentives and recognition
✓ Optimal use of existing resources
Introduction to **ICT as a tool to enhance and/or innovate teaching and learning; seeking to enable teachers to integrate ICT in classroom teaching**

Technological Knowledge

Pedagogical Knowledge

Content Knowledge

From: [http://www.tpack.org](http://www.tpack.org)
Professional development: Step-by-step approach

Knowledge Input

> Technology
> Pedagogy
> Content

Learning by doing

> Lesson plan development
> Teaching practice

Learning from each other

> Lesson observation/assessment
> Sharing/collaboration
> Peer coaching and multiplication
## ICT in VVOB programmes in SE-Asia

<table>
<thead>
<tr>
<th>Country</th>
<th>ICT in Education Focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vietnam</td>
<td><strong>ICT integration to support the innovation of teaching and learning</strong> (active teaching and learning) through capacity development of teacher educators in 5 provincial Teacher Education Institutions</td>
</tr>
<tr>
<td>Cambodia</td>
<td><strong>ICT in education of science, environmental and agricultural life skills:</strong> ICT resource rooms in schools; <strong>multimedia development</strong> (animations, video clips...); use of multimedia in teacher education practice; availability of multimedia materials (online &amp; offline facilities)</td>
</tr>
</tbody>
</table>
## Supporting resources and online platforms

<table>
<thead>
<tr>
<th>Resource</th>
<th>Type</th>
<th>Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT for ATL <strong>toolkit</strong></td>
<td>Book and DVD</td>
<td>English/Vietnamese</td>
</tr>
<tr>
<td><strong>interactive training</strong></td>
<td>Online platform</td>
<td>English/Vietnamese</td>
</tr>
<tr>
<td>package/collection of <strong>good practices</strong></td>
<td><a href="http://www.ict4atl.org">www.ict4atl.org</a></td>
<td></td>
</tr>
<tr>
<td>Collection <strong>multimedia</strong></td>
<td>CD rom</td>
<td>English/Khmer</td>
</tr>
<tr>
<td><strong>Teacher’s platform</strong> of resources</td>
<td>Online resource database</td>
<td>English/Khmer</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.krou.org">www.krou.org</a></td>
<td></td>
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</tbody>
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Reach and impact

In Vietnam (in 5 provinces)

- About **150 core trainers** on ICT for ATL
- **Multiplication** to 500 teacher educators
- Multiplication to 3000 in-service teachers LSE
- Improved use of ICT for teaching and learning
- Continues professional development in communities of practice

In Cambodia

- Over **200 multimedia applications + 200 science experiment video clips**
- **20 core trainers** on use of multimedia applications
- **Multiplication** to more than 100 teacher educators
- ...


Looking for collaboration on ...

- International online toolkit/platform for good practices on technology-enhanced instructional designs: [www.ict4atl.org](http://www.ict4atl.org)
- International competition on “Active Teaching and Learning” – Teacher awards
- Curriculum development for pre-service teachers in Vietnam
- Improving digital literacy for pre-service teacher trainers in Cambodia
- ...

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THANK YOU!

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www.vvob.be/vietnam
www.vvob.be/cambodia