Challenges in Quality: Use of ICT in Education in Thailand
ICT in Education

It is not about technology. It is about teaching and learning, using technology.
ICT potentials in education

- Expanding Access
- Increasing Efficiency
- Enhancing Quality of Learning
- Enhancing Quality of Teaching
- Facilitating Skills Formation
- Sustaining Life-long Learning
- Improving Planning and Management
- Reducing Digital Divide
What are the Challenges?

- Knowledge & understanding of ICT among administrator & principal
- Access to learning opportunities, quality content
- Teachers & administrator ICT skill
- Sufficient equipments
- Effective ICT integration in the classroom teaching
**Status of Schools with Computer**

<table>
<thead>
<tr>
<th>Student to Computer Ratio</th>
<th>% of Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not greater than 20 students</td>
<td>55.3</td>
</tr>
<tr>
<td>21-40 students</td>
<td>24.8</td>
</tr>
<tr>
<td>41-60 students</td>
<td>8.0</td>
</tr>
<tr>
<td>61-80 students</td>
<td>3.2</td>
</tr>
<tr>
<td>81-100 students</td>
<td>1.2</td>
</tr>
<tr>
<td>Greater than 100 students</td>
<td>7.5</td>
</tr>
</tbody>
</table>

**Total**

- Total school: 36,288
- Student: 13,730,409
- Teacher: 627,501

**Ratios**

- Current ratio: 1:40
- Expected ratio: 1:20
- Ideal ratio: 1:5
**Status of Internet Access in Schools**

**Access to internet in schools**

- **Total:** 34,262 sites

**Graph Details**

- **Dial Line**
- **Leased Line**
- **Satellite**

**Years:** 2003, 2004, 2005-Present

**Numbers:**
- 2003: 41
- 2004: 44
- 2005-Present: 792
- Total: 34,262
Where do we start?

- Vision of the Policy Makers
- Systematic planning (ICT Master Plan)
- Collaboration & partnership
  - Between Ministries
  - Public & Private Partnership (PPP)
- Learning by doing
  - Provide infrastructure
  - Capacity building
  - Provide resources & content
ICT in Education Plan

Objectives

1. To promote ICT-based learning environments in both formal and non-formal education.

2. To use ICT to assist in the management of educational institutions and departments.

3. To develop qualified ICT personnel, for life-long learning and sustainable development.
Stages of ICT Integration

Emerging

Applying

Infusing

Transforming

Source: UNESCO 2005
### Mapping Stages of ICT Stages to Teaching and Learning

<table>
<thead>
<tr>
<th>Stage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Emerging</td>
<td>• Discovering ICT as tool.</td>
</tr>
<tr>
<td></td>
<td>• ICT literacy</td>
</tr>
<tr>
<td>2. Applying</td>
<td>• Learning how to use ICT as tool.</td>
</tr>
<tr>
<td></td>
<td>• Apply ICT into subject teaching.</td>
</tr>
<tr>
<td>3. Infusing</td>
<td>• Understanding how and when to use ICT tool to achieve a purpose.</td>
</tr>
<tr>
<td></td>
<td>• Infusing ICT across the curriculum.</td>
</tr>
<tr>
<td>4. Transforming</td>
<td>• Specializing in the use of ICT</td>
</tr>
<tr>
<td></td>
<td>• ICT specialization</td>
</tr>
</tbody>
</table>
ICT to Enhance Life Long Learning & Create Qualified Human Resources
Princess IT Project
Strategies

- ICT to help the under-privileged group
  - Rural schools
  - People with disabilities
  - Sick children
  - The inmates

- Improve quality of life

- Create work opportunity
ICT for Rural Schools

- schools in the remote area
- schools near the border
- schools for children with disabilities
The Results

Thai wisdom through the eyes of the students
The Results

There we saw the process of mulberry selection, growing and planting mulberry, feeding silkworms, making new products from cocoons and there was also Isarn silk museum.
The Results

Website

[Image of Thai Silk website]

The Results

Website

[Image of Thai Silk website]

The Results

Website

[Image of Thai Silk website]
ICT for the Disabilities
Her name is Toyiba.
She is in grade 9, 15 year old.
His name is Abdulloh
He is 11 year old.
Ms. Pikunthong
ICT for Sick Children

- Cooperation bt. the Ministry of Public Health & Ministry of Education
- Set up a room or use laptop computer
- Educational software & games
- Train teachers
ICT for Prison Inmate
Lessons Learned

- Considering local & individual condition. There is no “One size fit all”.

- Use developmental-approach not technology-led approach

- Knowledge & Skill of teachers & administrators are more important.
References

• www.princess-ict.org

• www.unescobkk.org/ict