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Lessons Learned in Technology, Pedagogy and Education

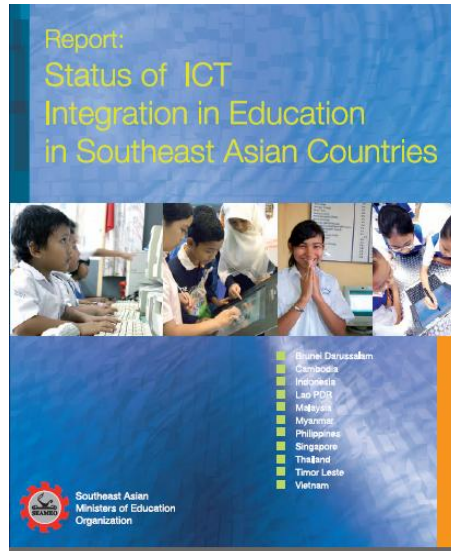
Tinsiri Siribodhi Ph.D.

What have we learned
from **t**echnology,
pedagogy and **e**ducation?



Regional Experiences

2010



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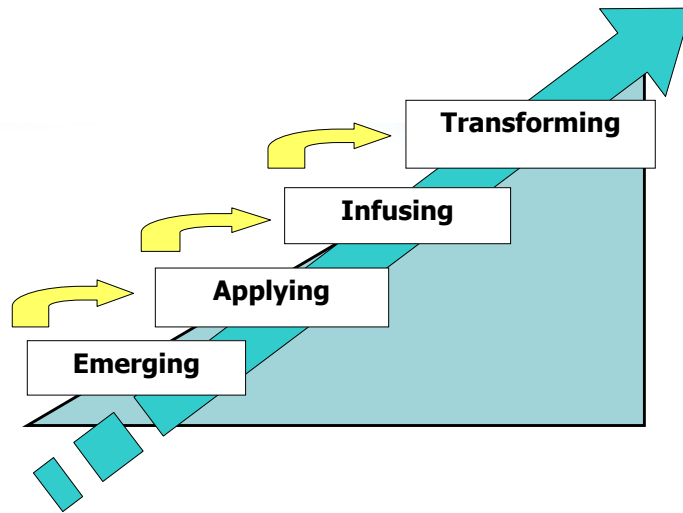
- Promote cooperation in education, science and culture in Southeast Asia since 1965.



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Levels of ICT Development



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ICT In Education Dimensions	Emerging	Applying	Infusing	Transforming
1. National ICT in Education Vision	Lao PDR; Timor Leste	Cambodia; Myanmar	Brunei (Towards Transforming); Indonesia; Philippines; Thailand; Vietnam (Towards Transforming)	Malaysia; Singapore
2. National ICT in Education Plans & Policies	Lao PDR; Timor Leste	Cambodia; Myanmar	Indonesia; Philippines; Thailand	Brunei; Malaysia; Singapore; Vietnam
3. Complementary National ICT & Education Policies	Lao PDR; Timor Leste	Cambodia; Myanmar	Indonesia; Philippines; Thailand	Thailand; Brunei; Malaysia; Singapore; Vietnam
4. ICT Infrastructure & Resources in Schools*	Cambodia; Indonesia; Lao PDR; Philippines; Timor Leste	Cambodia; Indonesia; Philippines; Myanmar	Malaysia; Thailand; Vietnam	Brunei; Malaysia; Singapore; Thailand; Vietnam




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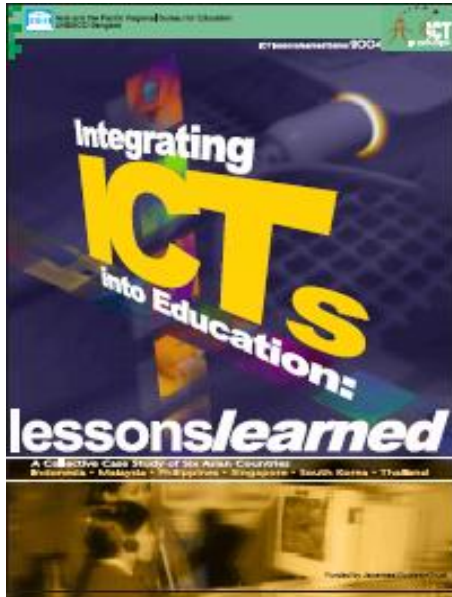
ICT In Education Dimensions	Emerging	Applying	Infusing	Transforming
5. Professional Development for Teachers & School Leaders	Lao PDR; Timor Leste	Cambodia; Indonesia; Myanmar	Malaysia; Philippines; Thailand; Vietnam (Towards Transforming)	Brunei; Singapore
6. Community/ Partnership	Lao PDR; Timor Leste	Brunei; Cambodia; Indonesia; Myanmar	Philippines; Thailand;	Malaysia; Singapore
7. ICT in the National Curriculum	Cambodia; Lao PDR; Timor Leste	Indonesia; Myanmar; Philippines; Thailand	Brunei; Malaysia; Singapore (Towards Transforming); Vietnam	
8. Teaching & Learning Pedagogies*	Cambodia; Indonesia; Lao PDR; Myanmar; Timor Leste	Cambodia; Indonesia; Malaysia; Myanmar; Thailand;	Brunei (Towards Transforming); Indonesia; Malaysia; Philippines; Thailand; Singapore; Vietnam	Malaysia; Singapore; Vietnam
9. Assessment	Cambodia; Indonesia; Lao PDR; Myanmar; Philippines; Timor Leste	Thailand; Vietnam	Brunei; Malaysia; Singapore	
10. Evaluation & Research	Cambodia; Lao PDR; Philippines; Timor Leste	Indonesia; Thailand;	Brunei (Towards Transforming); Malaysia; Vietnam	Singapore



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2004


 United Nations Educational, Scientific and Cultural Organization



9 Lessons Learned

3 Lessons learned from
Technology



Alphabet taught to kids nowadays



Technologies



Lessons from Technology

1. Policy development and support
2. Leadership at all level
3. Partnership



You Tube

facebook

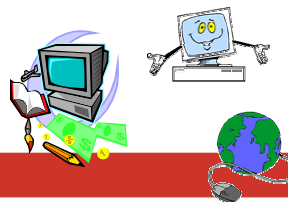
Twitter

iGoogle



1 Policy Development and Support

- ▶ Make ICT in education as a key economic strategy & an integral part of the national education master plan
- ▶ Transform ICT in education policy into action and manageable goals
- ▶ Provide adequate infrastructure and capacity building effective ICT integration



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2 Leadership at all Level

- ▶ Have a political will power
- ▶ Involve policy makers, school leaders, parents and community
- ▶ Have teacher champions to promote ICT



3 Partnership

- ▶ Build teamwork between educators & technologists
- ▶ Harmonize ICT in Education with other education projects
- ▶ Develop inter-ministerial collaboration
- ▶ Establish public and private partnership (PPP)

ICT in Education



3 Lessons learned from Pedagogy

Lessons from Pedagogy

- 4. Enable the development of 21st century skills**
- 5. Linkage to curriculum & relevant content**
- 6. Need various assessment approaches**

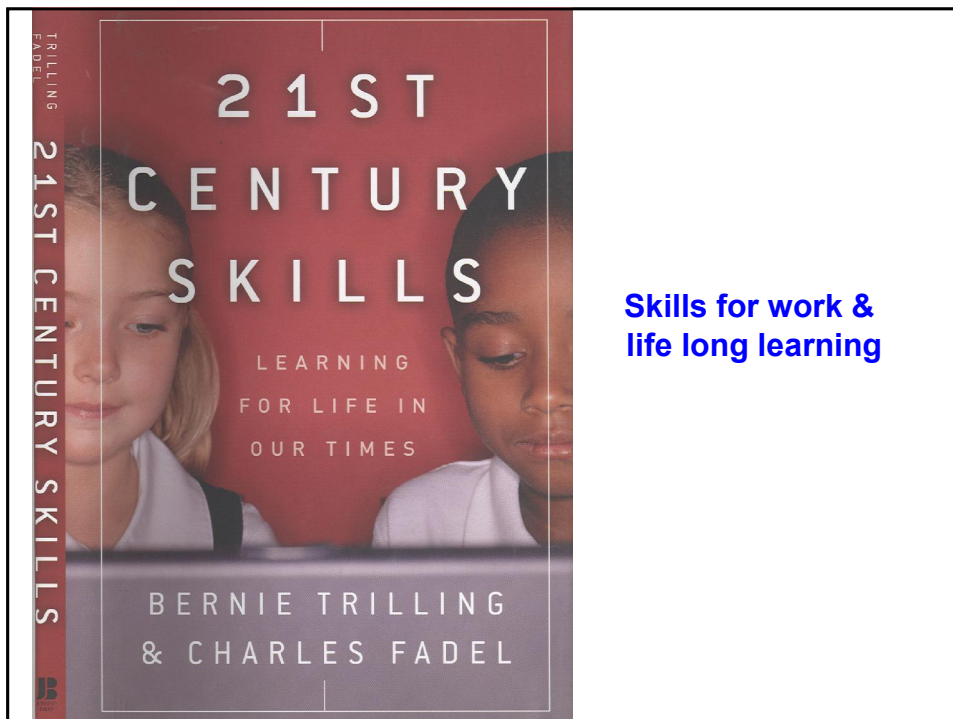


4 Enhancing the development of 21st Century Skills

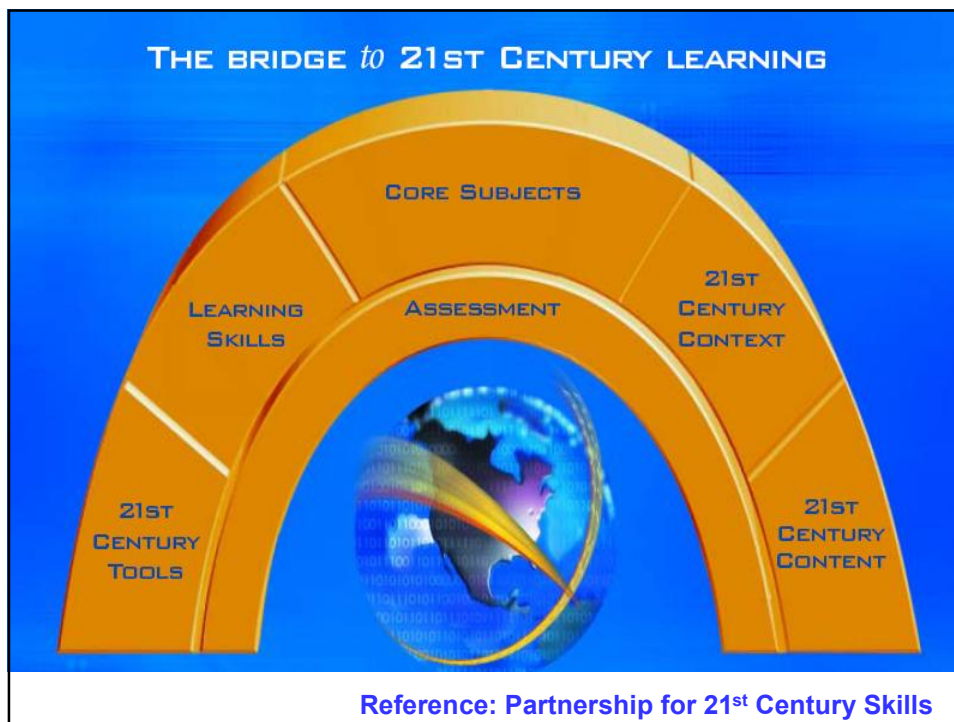
- ▶ Shifting pedagogical approaches to enable in depth thinking & constructive of knowledge
- ▶ Provide skills for life long learning



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**Skills for work &
life long learning**



21th Century Skills

CONNECT	<ul style="list-style-type: none"> ‣ Digital Literacy skill ‣ Communication skill
CREATE	<ul style="list-style-type: none"> ‣ Analytical skill ‣ Problem solving skill ‣ Creativity & innovation skill
COLLABORATE	<ul style="list-style-type: none"> ‣ Interpersonal skill ‣ Teamwork ‣ Social responsibility ‣ Accountability

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New Pedagogical Approaches

1. Learning outside the classroom – real world situation
2. Use Problem-based learning or Project-based learning
 - ▶ Begin with a problem & ask the right question
 - ▶ No right or wrong answers
3. Coach students to be a team player and contributors



5 Linkage to Curriculum & relevant Content

- ▶ Continuous improvement of curriculum practices
- ▶ Creating digital libraries of learning resources
 - ▶ Provide online curriculum support for subject teaching
 - ▶ Promote sharing of practices & lesson plans
- ▶ Incorporate values and moral practices & netiquette



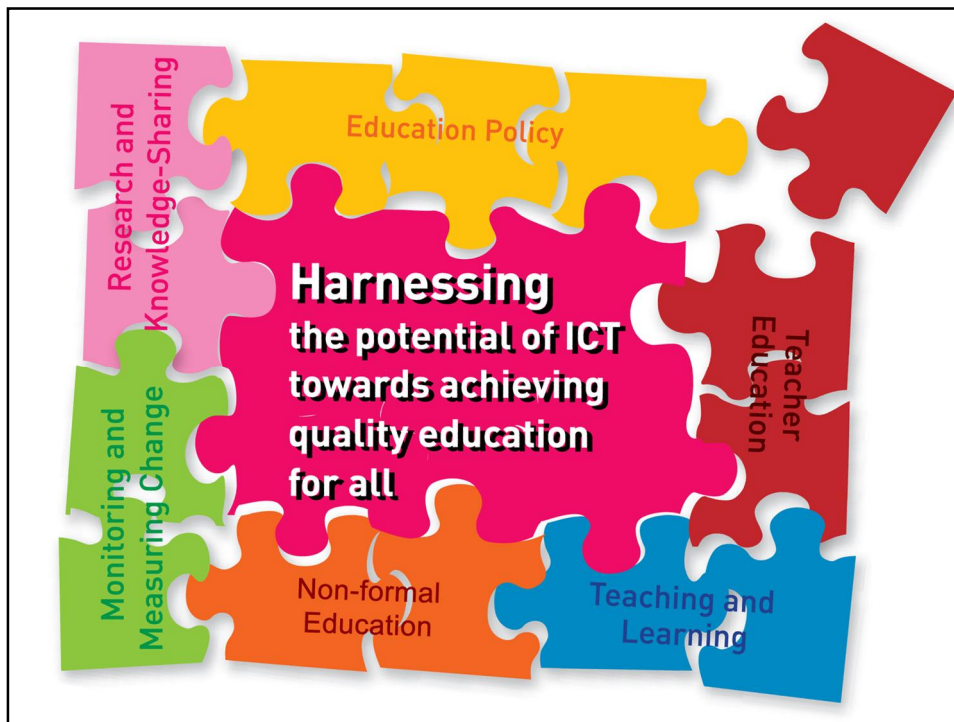
6 Need Various Assessment Approaches

- ▶ Reflective journal
- ▶ Peer/group evaluation
- ▶ Self evaluation
- ▶ Portfolio
- ▶ Process vs. product evaluation
- ▶ Online assessment tool for teachers



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3 Lessons learned from Education



3 Lessons

7. Environmental context
8. Provide easy access to reach the unreached
9. Regional cooperation

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7 Environmental Context

- ▶ Have an appropriate environment that enable ICT integration
- ▶ Improve teachers competencies, mindset, motivation & standards



8 Provide Access to Reach the Unreached

- ▶ Appropriate use of ICT to provide access to education to the disadvantage groups in the remote area
- ▶ Use ICT for Development





Princess Sirindhorn Information Technology Project, Thailand



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ICT Van



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ICT for schools in the remote area



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ICT for the community



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9 Regional Cooperation

- ▶ Borderless regional connectivity through ICT
- ▶ More student & workforce mobility
- ▶ Address regional needs & emerging issues



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Regional/Global Citizen

- ▶ **Regional/Global competency**
 - ▶ **Have the skill to adapt, adjust**
 - ▶ **Have the right attitude, value, ethic**
 - ▶ **Have multicultural understanding**
 - ▶ **Have teamwork skill**





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