

e-Learning in Thailand

By

Dr. Niracharapa Tongdhamachart

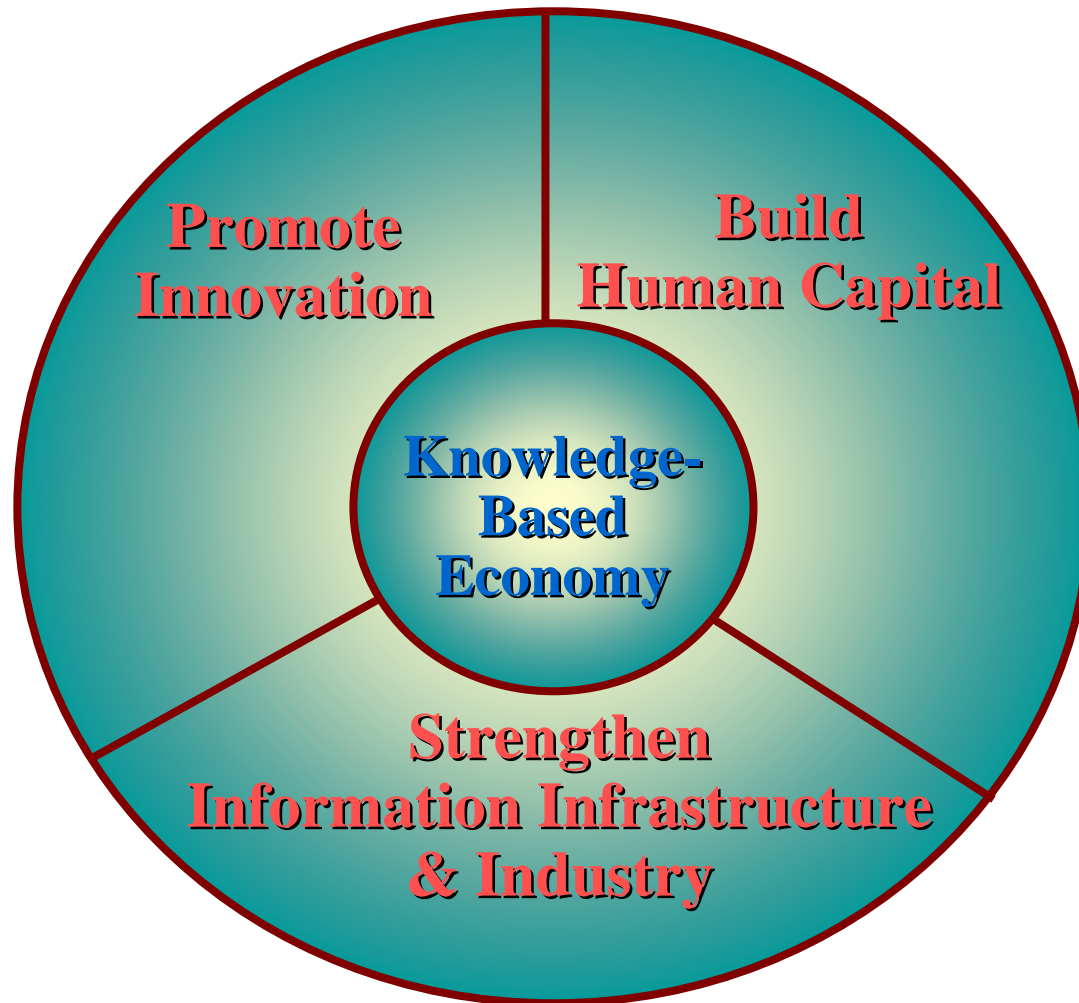
**Software Industry Promotion Agency
Ministry of Information and Communication Technology**

**For
AEN**

**14-15 December 2005
Tokyo, Japan**



IT 2010



Towards the Knowledge-Based Economy

- **e-Society** – bridging the digital divide, increasing learning opportunities, emphasizing on ICT skill development to individuals and communities;
- **e-Education**- digital content, lifelong learning, online learning, and IT training programs;
- **e-Government**- good governance, legal infrastructure, service delivery and human resource development;
- **e-Commerce**- consumer protection, and e-commerce practices aiming to strengthen Thai industries competitiveness, e-commerce for export, e-commerce for trade and services provision, and e-commerce for domestic consumption.
- **e-Industry**- e-manufacturing and IT-related industries, plus issue such as standardization, increase of proportion of “Knowledge Workers”



Current situation

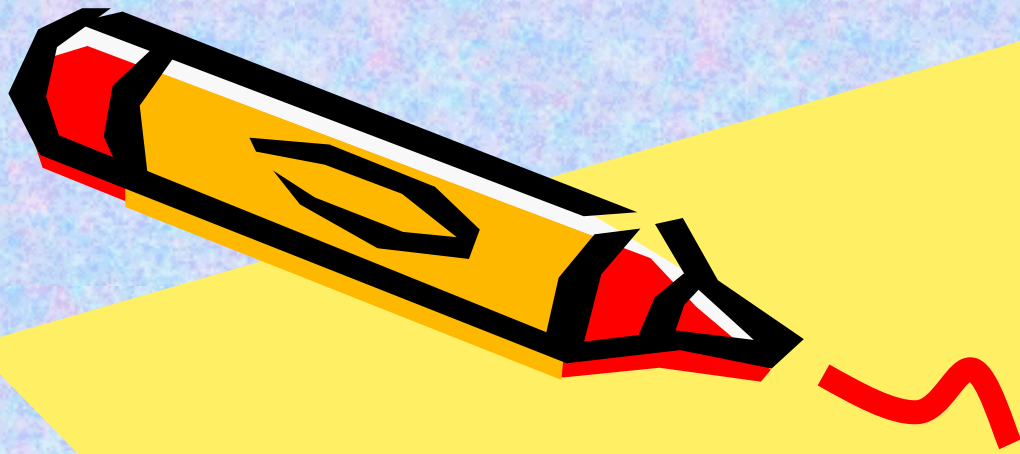
- 35 ISPs
- 7 millions internet users
- 13.3 Telephone line/100 inhabitants or 12.9% of populations
- 20.6 computers/100 inhabitants or 11%
- Low cost broad band internet (\$ 12/month)
- 5000 internet café nation wide
- 20 millions mobile users (30.6%)
- Over 14,000 domain names under .th



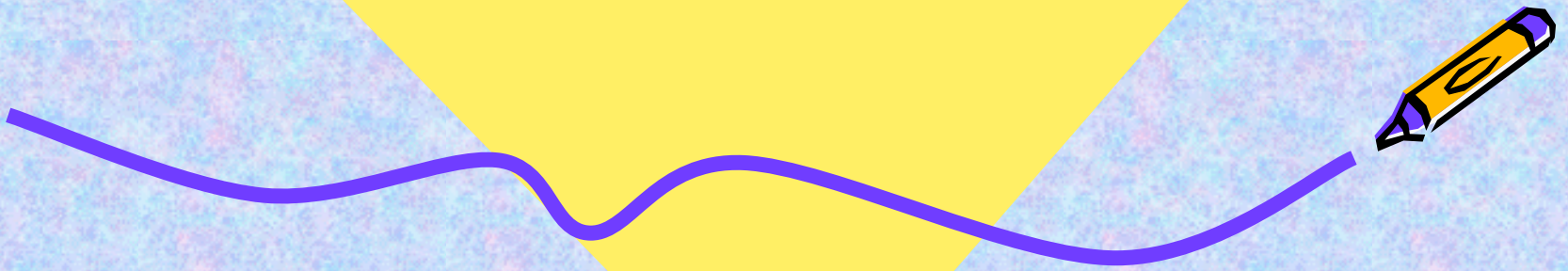
E learning Projects

- **Ministry of ICT**
- **Ministry of Education**
- **Ministry of Science and Technology**





Ministry of ICT



Ministry of ICT

- National ICT Learning Center
- Thailand Knowledge Center
- One Temple One E learning Center (OTEC)
- Goodnet
- Teacher training
- National Grid Technology Center





NATIONAL

ICT LEARNING CENTER

ศูนย์กลางการเรียนรู้ ICT แห่งชาติ



national ict learning center



okmd



Background

On February 2001, the cabinet announced the government policy to the parliament in the areas of education, religion and culture as quoted as follows

“ Develop Thailand to be a knowledge based society which leads to a knowledge based economy. Every Thai citizen should have equal opportunity in life long learning. Intellectual property creates jobs and income in order to take the country out of economic and social crisis. Education creates nation, human resource and employment.”



Background



Objectives

- 1) Upgrade and develop Thai capability in the areas of ICT
- 2) Encourage and develop youth learning in creativity, skill development, and competition
- 3) Innovate learning through electronics formats in order to motivate youth to learning.



Background (cont.)



Project Concept 4-e

▫ e-Expo

Product, Entertainment

▫ e-Technology

Software and Hardware

▫ e-Training

Learn and Train

▫ e-Content

Digital Content/ e learning





ICT Minister

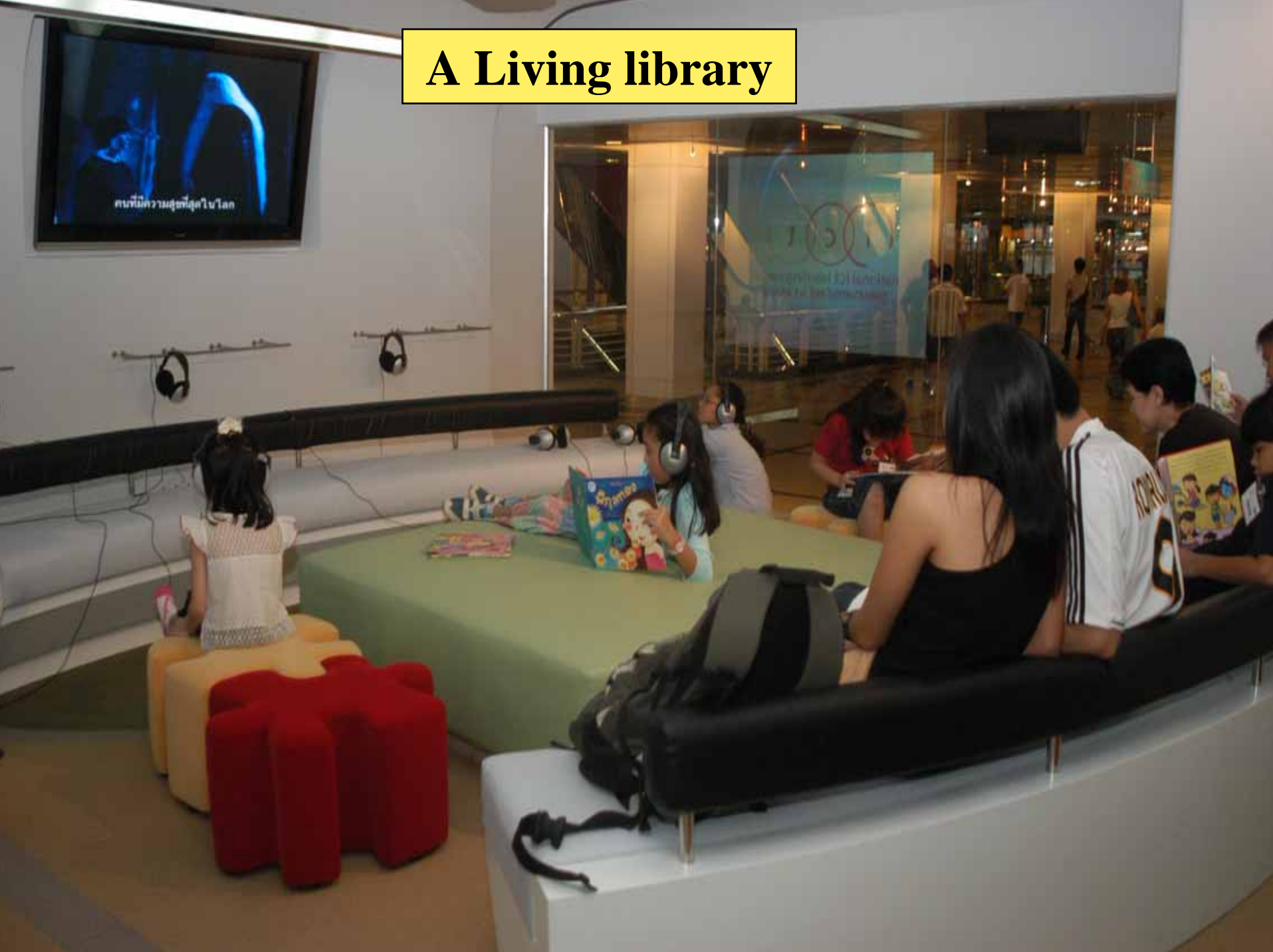
Prime Minister

Goodnet





A Living library





ศูนย์กลางความรู้แห่งชาติ
Thailand Knowledge Center

www.tkc.go.th



กระทรวงเทคโนโลยีสารสนเทศและการสื่อสาร



ศูนย์กลางความรู้แห่งชาติ Thailand Knowledge Center

หน้าหลัก • นักเรียน นักศึกษา นักวิจัย • ผู้ประกอบการ • ประชาชน • ลงทะเบียนใช้งาน

- ศูนย์ความรู้เรื่องต่างๆ
- คลังความรู้สาขาต่าง
- ฟิลิธกัณฑ์เสมือน
- หนังสืออิเล็กทรอนิกส์
- ชุมชนนักปฏิบัติ
- ห้องรับแขก TKC
- เกี่ยวกับ TKC



ข่าวประชาสัมพันธ์ TKC :



สารแจ้งข่าว :

- แลงข่าวการจั Conference
- งานแถลงข่าว การ Knowledge Ma

กิจกรรมที่น่าสนใจ :

- Opening Cer Launch Thailand Inte Management -KM for Inno

ล็อกอิน :

ชื่อ

รหัส

Thailand International Conference on Knowledge Management 2004

Thailand Knowledge Center
(www.tkc.go.th) the first public web portal of
knowledge management



- **Develop a knowledge hub of the country**
- **Collect digitized information and knowledge in several areas**
- **Disseminate information and knowledge to every Thai citizen**
- **Online platform for the exchange of views, experiences, expertise among youths, parents, communities, academics and experts.**
- **Encourage lifelong learning**
- **Create the nation competitiveness**



Features

- Chat on line
- Web conferencing
- Online group discussion
- Personalized calendar
- Web board
- Intelligent search engine
- Email
- notebook
- Document download and upload
- Multimedia content
- Mobile access
- Web service
- Community of practice (virtual knowledge sharing)
- Web hosting
- E learning
- Web blogs



OTEC: A Temple learning Center for community and rural people



One Temple one E learning Center (OTEC)

- The center of learning in community with target of 400 temples nation wide.
- Training the trainer in ICT
- Mosque and church
- E learning (over 70 online courses and hundreds of e books)



Goodnet



- Clean net and 200 members on voluntary basis
- Center of ICT learning and online courses
- Short term solutions for online games
 - School uniform is not allowed during school hours
 - Children under 18 years old can play maximum for 4 hrs.
- Law for long term plan
- Parents, teachers, students, psychologist, ISP, internet cafe, game operators and etc



Teacher Training

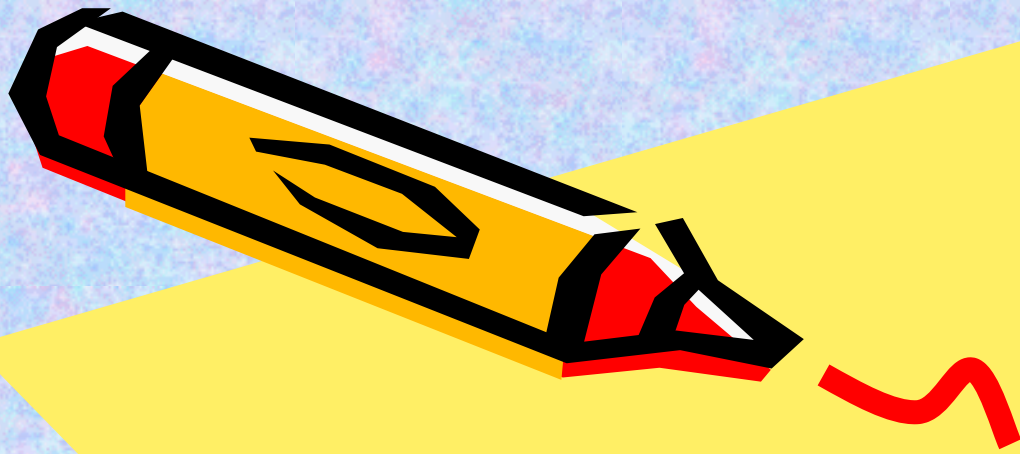
- E learning courseware- over 1000 teachers
- E learning by using game software for edutainment



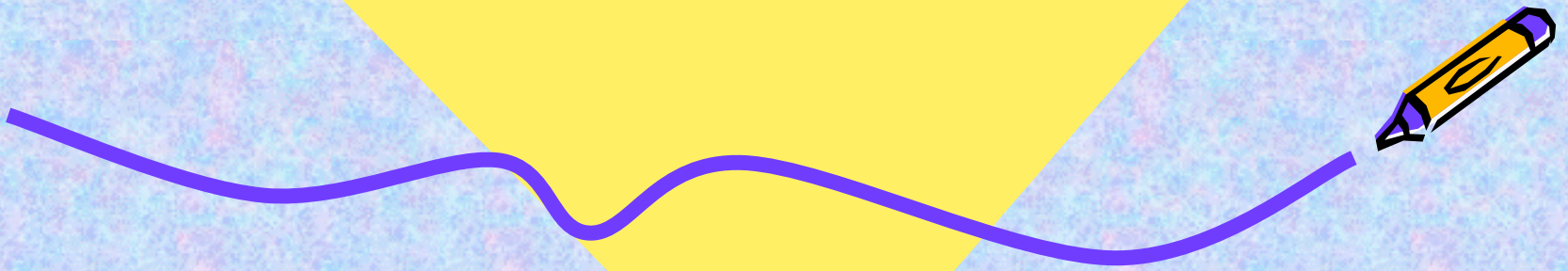
National Grid Technology Center

- **Approved by the cabinet in 2004**
- **Process of structuring**
- **Help the e learning system in the country both hardware and software**





Ministry of Education



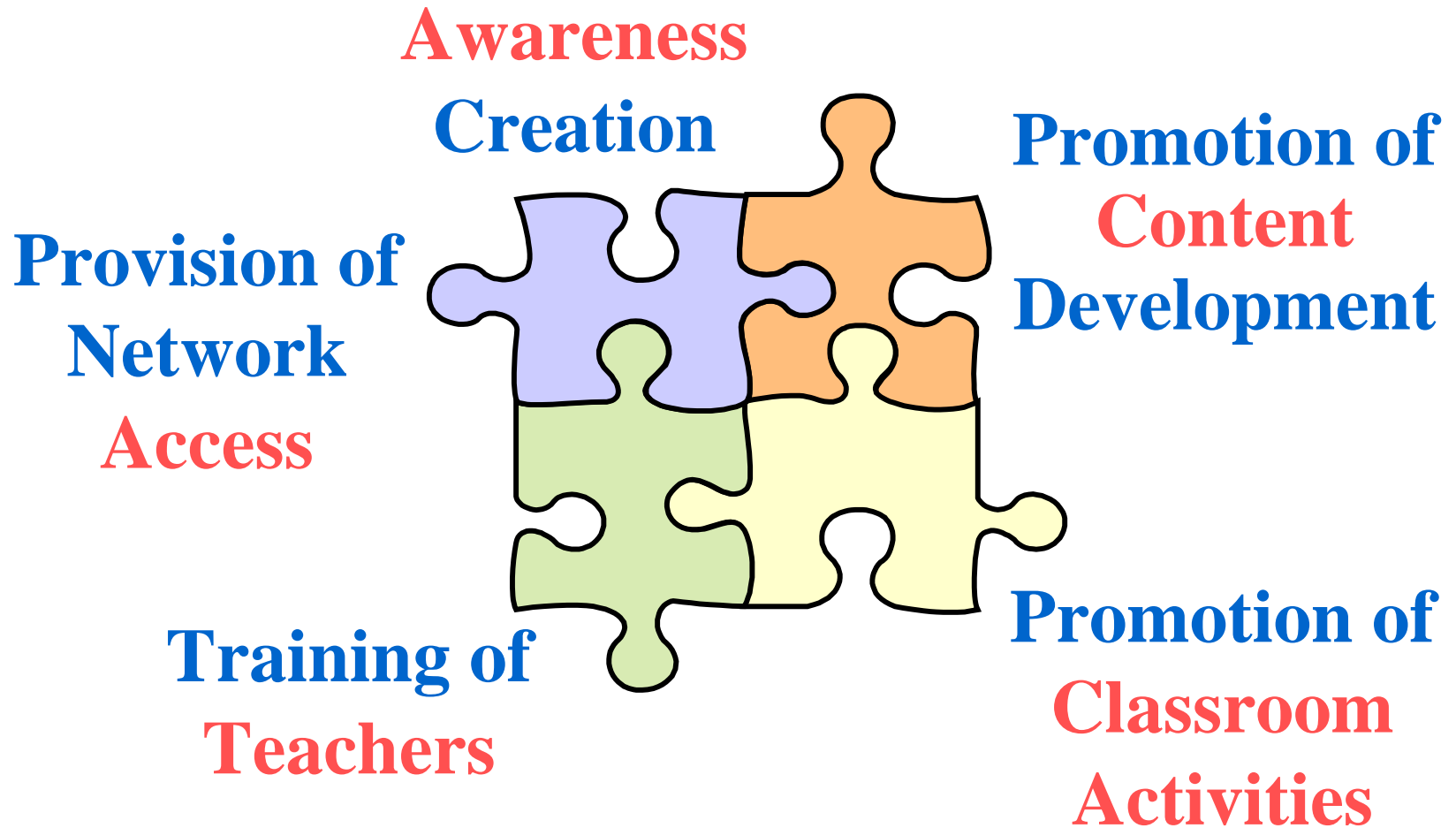
Ministry of Education

- **Schoolnet**

- **Uninet**



Components of SchoolNet Thailand



Internet Explorer window showing the URL: <http://www.school.net.th/undp.html>



หน้าการศึกษา

รายชื่อโรงเรียน

บริการให้คำปรึกษา

กิจกรรมในโครงการ

We are cited in the UNDP Human Development 2002!!

SchoolNet News



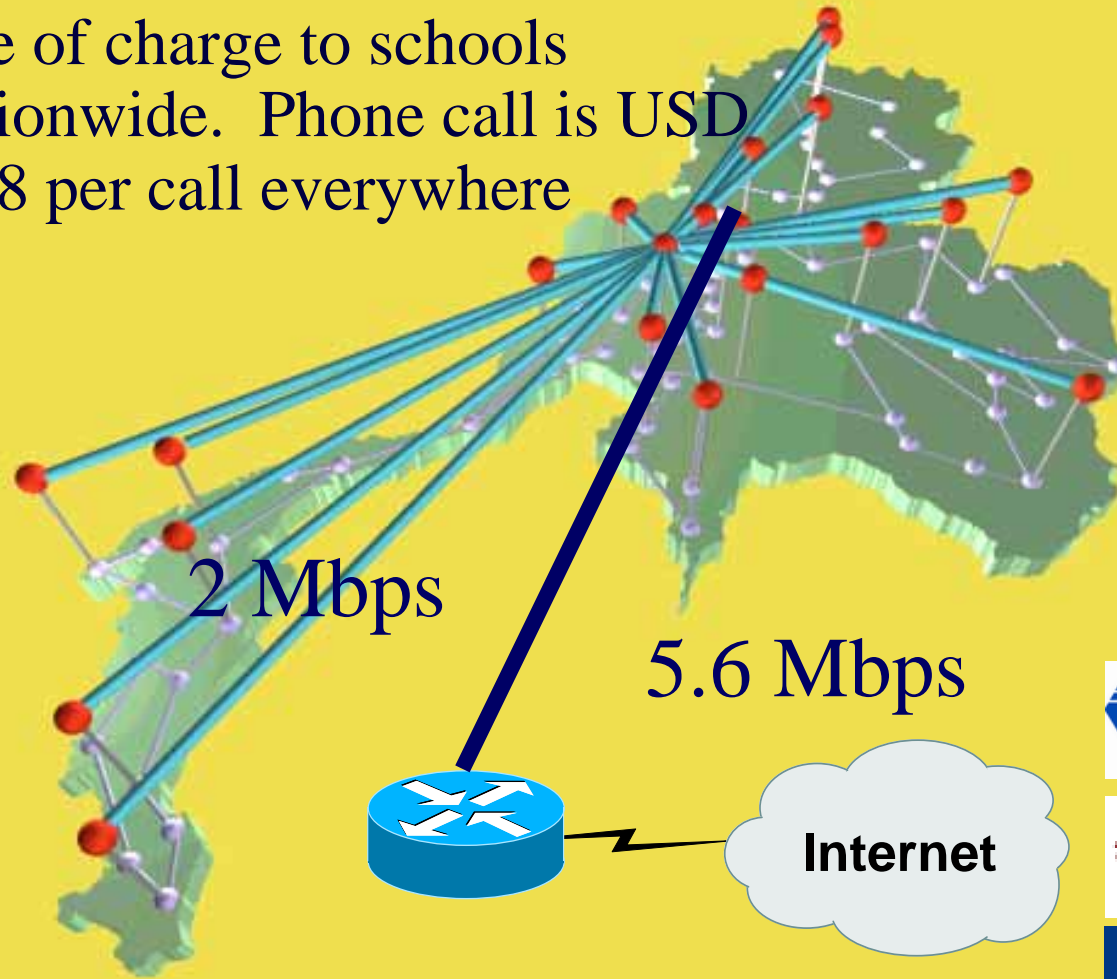
โครงการเครือข่าย SchoolNet@1509 ได้รับการยกย่องจาก UNDP

United Nations Development Programme (UNDP) กล่าวยกย่องในรายงานการพัฒนา ด้าน ทรัพยากรบุคคล 2001 (Human Development Report 2001) ที่หน้า 87 ว่าโครงการเครือข่าย คอมพิวเตอร์เพื่อโรงเรียนไทย SchoolNet@1509 ของ

Windows taskbar showing Start button, Internet Explorer icon, and system tray with time 17:13

Narrowing the Digital Divide

SchoolNet Access is available free of charge to schools nationwide. Phone call is USD 0.08 per call everywhere



CAT



TOT

Uninet

www.uni.net.th
(1997)



- Set up an ICT infrastructure connecting all universities, institutions, and campuses in the country, called 'UniNet', by establishing ATM network via **155** Mbps bandwidth fiber optics; the infrastructure will connect the networks in Bangkok to the rural provinces through digital leased lines with **2** Mbps bandwidth
- **Develop self-study centres with electronic library databases, the Internet, multimedia, video on demand; these centers will connect to the high performance network**
- **Develop social-learning and lifelong-learning systems by creating multimedia courseware, and providing knowledge databases and distance learning systems**
- **Train teachers and assistants to apply ICT in educational development**



Education Network

(EdNet)

UniNet
Bangkok

Backbone

Interuniversit

Regional Node

Regional Node

Regional Node

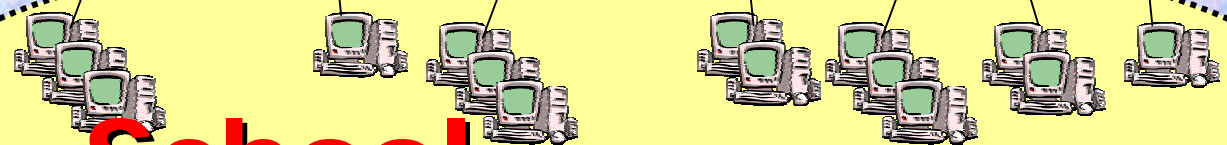
Universities

Distribution
Node

Distribution
Node

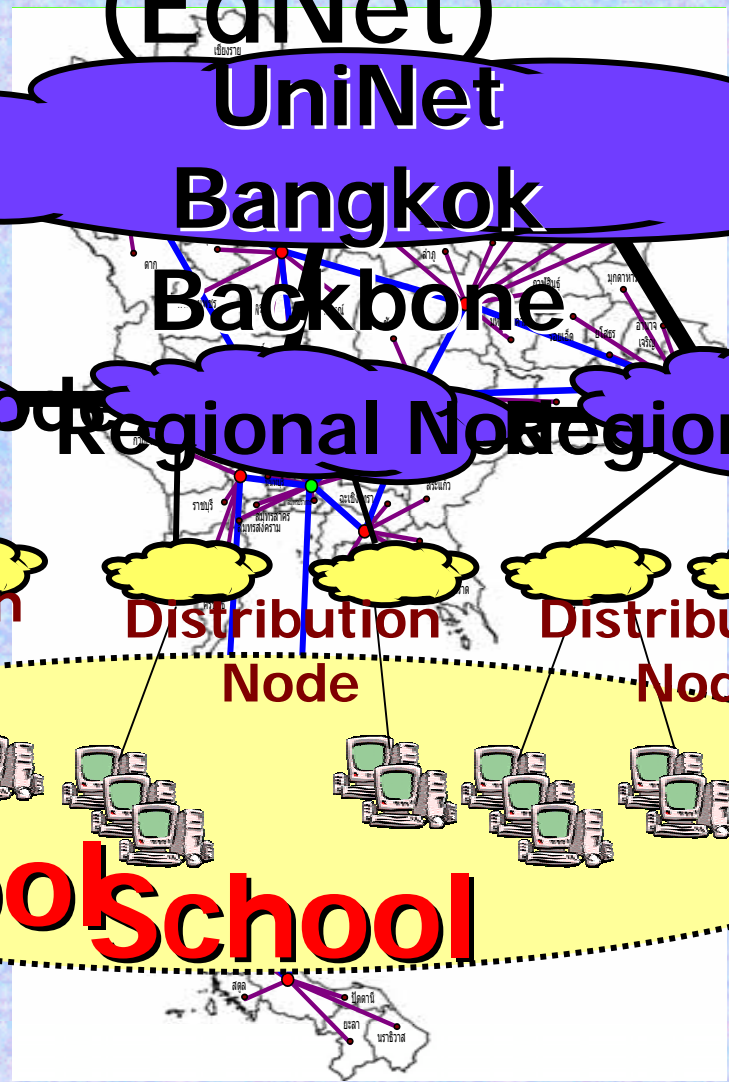
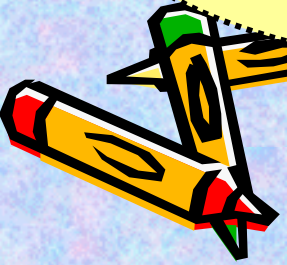
Distribution
Node

Colleges



Schools

School School

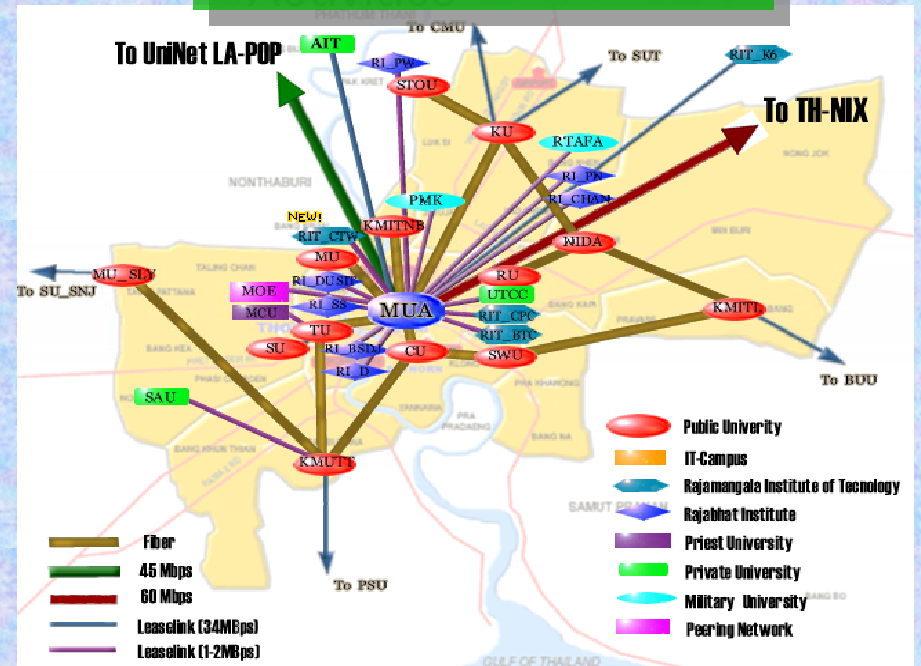
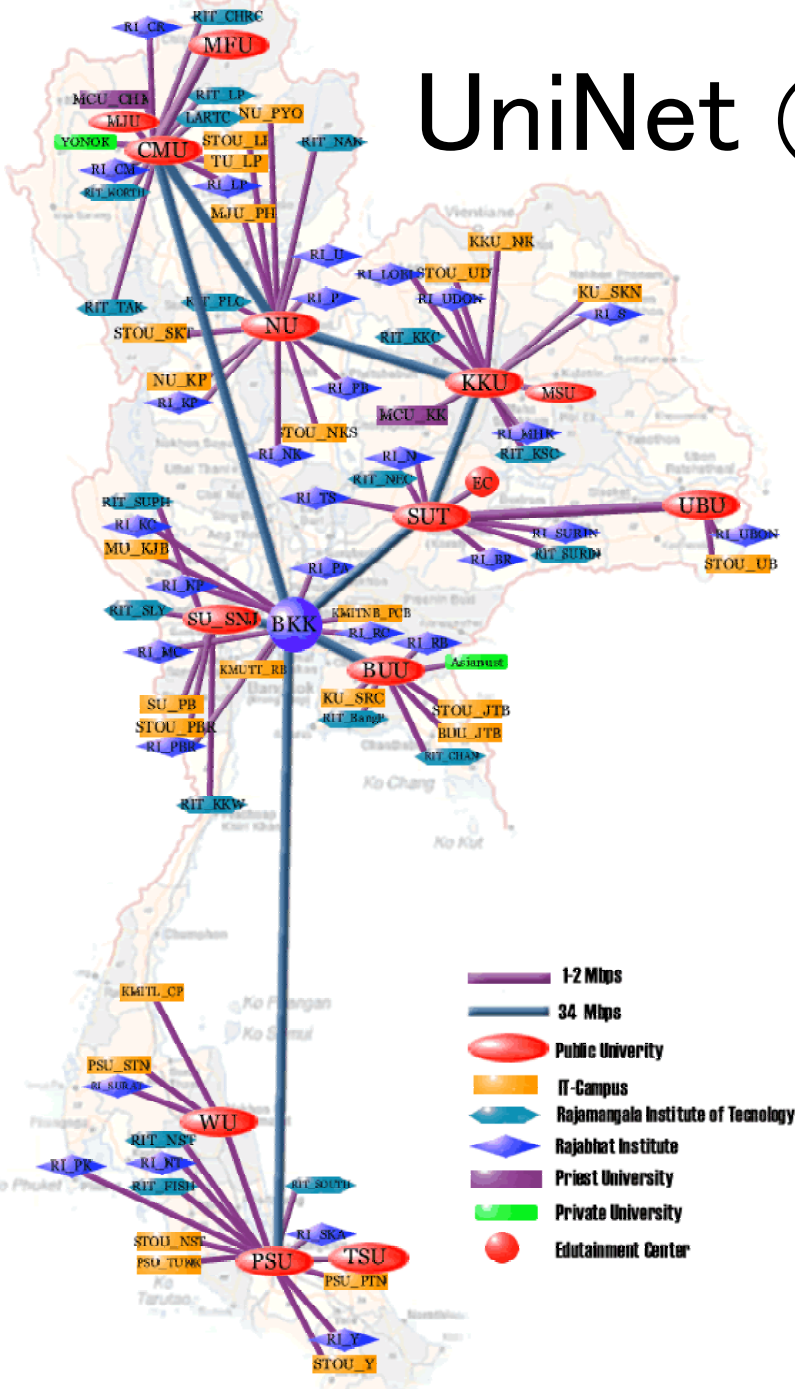


UniNet (EdNet Backbone)



Applications

- Distance Learning
- Video Conference
- Electronics Library
- Internet
- Courseware
- Research
- Internet2/APAN Activities

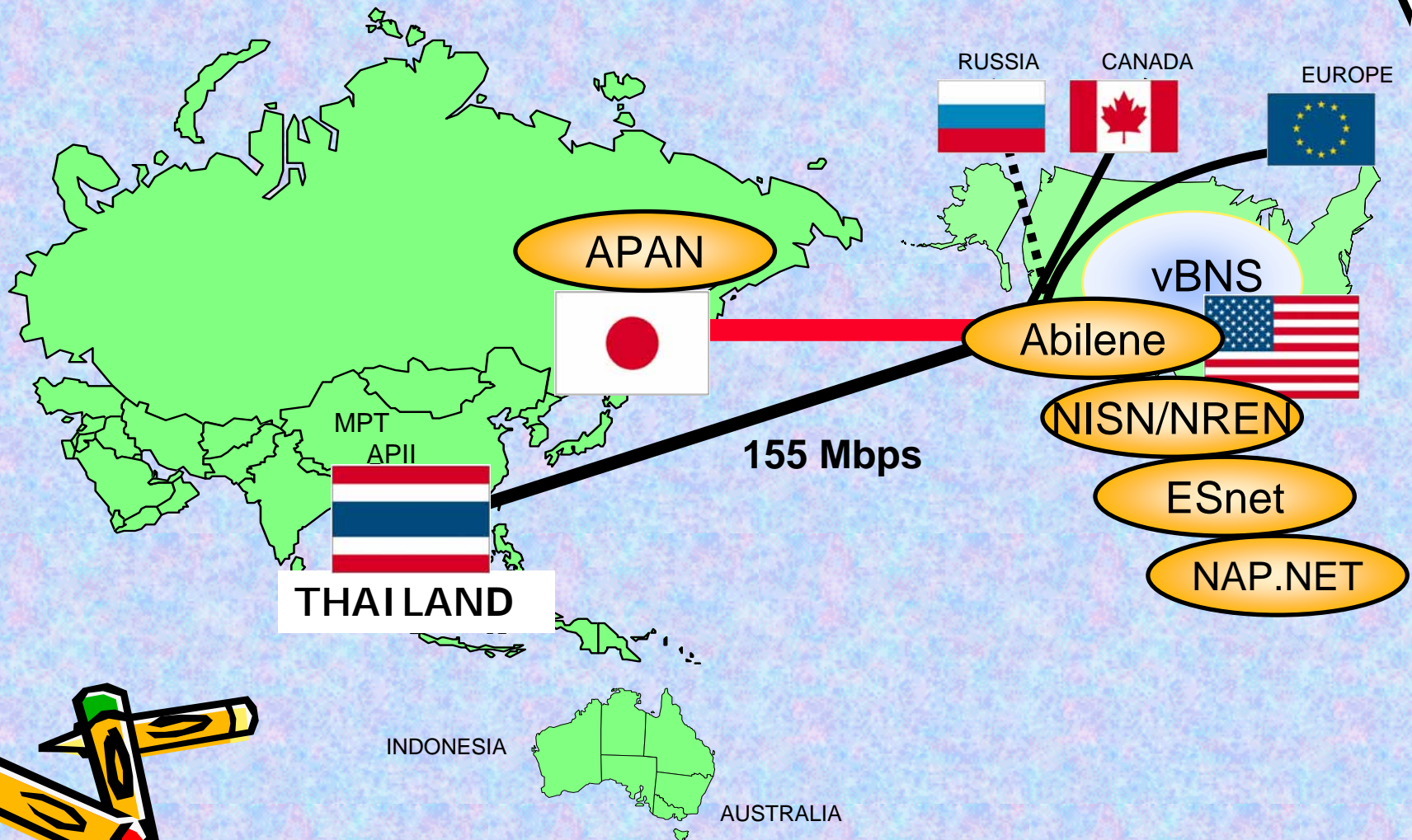


Network

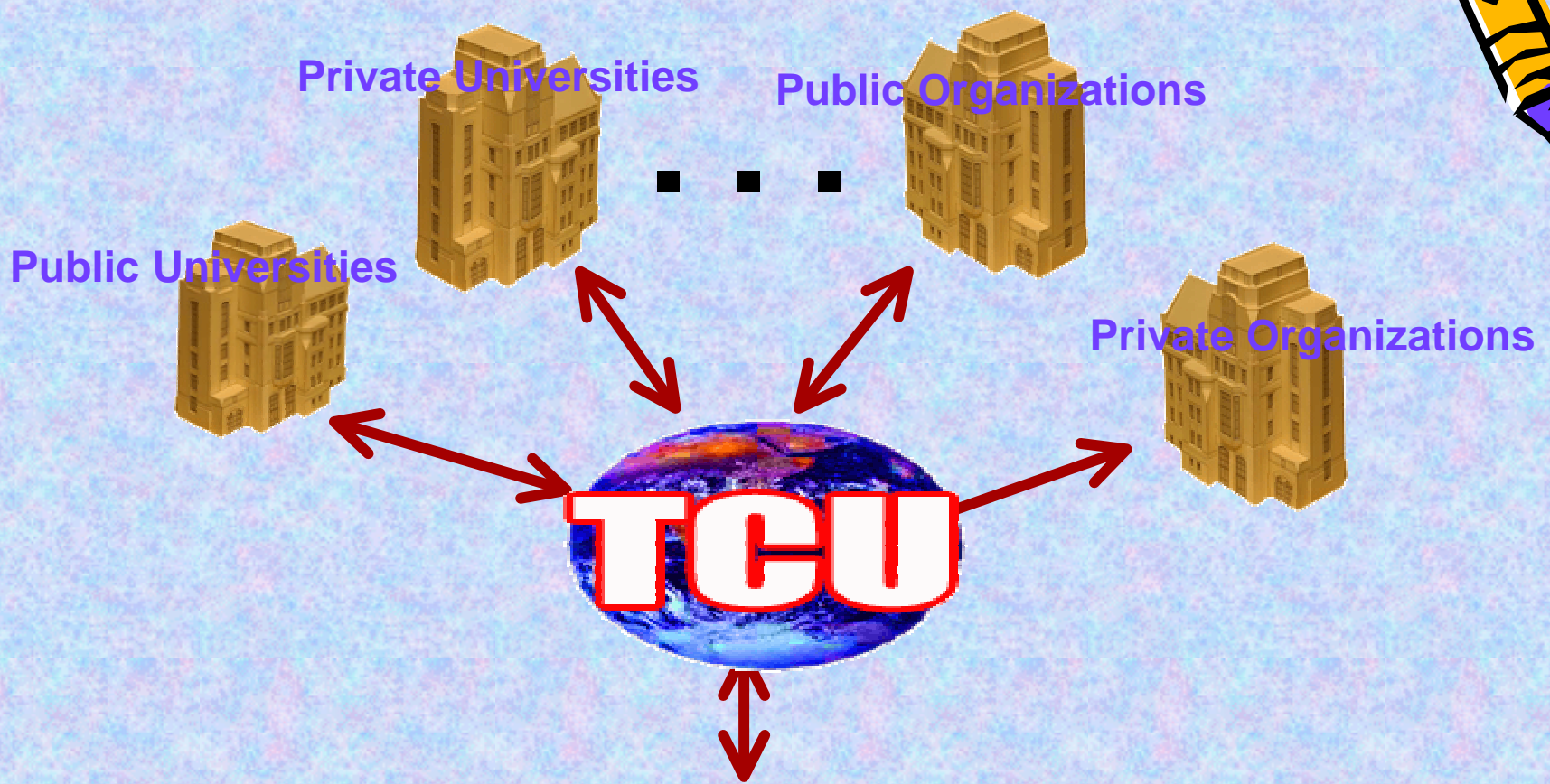
- **Bandwidth**
 - UniNet to Global Internet 155 Mbps
 - UniNet to Abilene 45 Mbps
 - Enable Multicast from UniNet to Abilene, and among NOC, CU, KU, and AIT
 - Metropolitan 622Mbps
 - Country Back Bone 155Mbps



International connection



Thailand Cyber University (www.tcu.uni.net.th)



Higher Education Crisis

Self autonomy

FTA

9 years compulsory
Education

Limited
budgets

Increase of Higher
school students

Globalization

Integrated
learning

TCU

quality
assurance

Education process
paradigm

Equality of opportunity

shortages of human resources



TCU

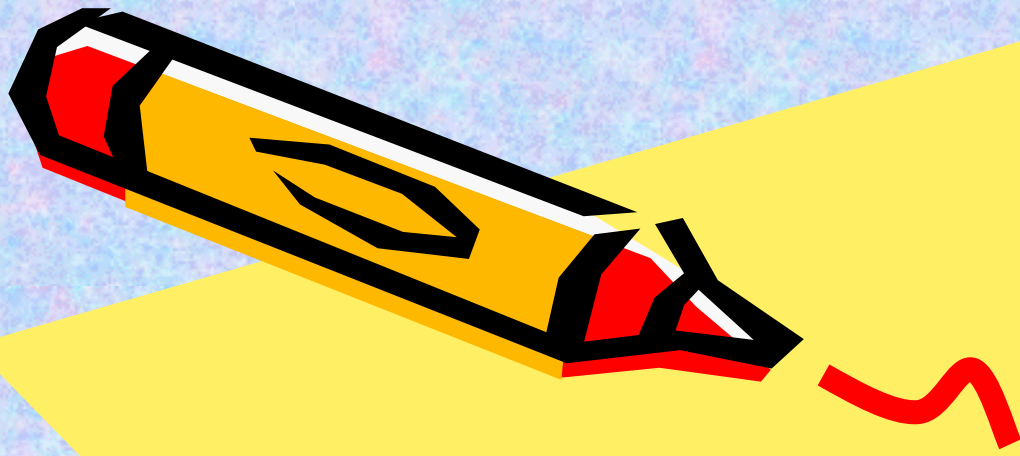
- **More than 500 courseware**
- **LMS**
- **CMS**
- **SMS**
- **E learning standard**



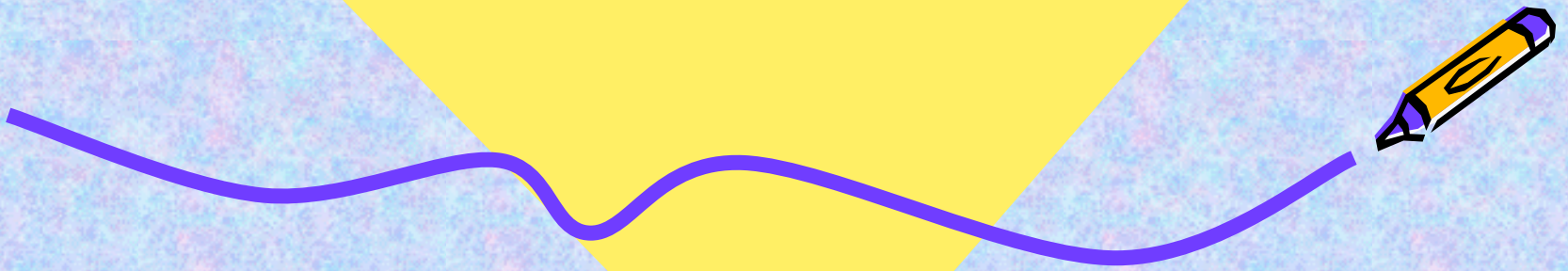
Educational Level Services

- Doctor 's Degree
- Master 's Degree
- Bachelor 's Degree
- Diploma
- Certificate (Module)
- Vocational Education
- Basic Education





Higher Education Institutions



Chulalongkorn University

- Video conference system within campus
- The Pharmaceutical Dept had provided e learning to local hospitals 200 kms from Bkk.
- Remote education project with world bank “ CU-WB knowledge management project” provided 75 courses to 2500 students (2000)
- Courses are debt rating in Asia, E finance in emerging market, discussion on globalization and asia and etc
- Remote lecture with Osaka University, Japan and Mahidol University so called “ the Cyber Debate” system or the interwise Millenium which is on line teaching in the field of Biotechnology



Asynchronous technology



- CU Flexible learning promoted by Engineering Dept . Using various technique TV conference, e mail, fax Courses are CAD/CAM, Production design and manufacture, digital management (<http://flex-learning.eng.chula.ac.th>)
- ChulaOnline (www.chulaonline.com) for CU students using WBT, stream distribution, TV conference system
- CU-KEIO university WBT Project (2001) supported by Hitachi and METI- IT Literacy and basic programming



Thammasat University

- Remote lecture with Osaka University Content provided are technical IT research which is a 2 year program using software WebCT (2002)
- Remote Lecture with Nagoya university of Technology (2001) course is management information



Sukhothai Thammathirat Open University (STOU) (www.stou.ac.th)



- Open university based on life long education to improve regional society and the quality and the ability of the life of individuals and adult education
- Provided courses via CD and e learning project “STOU Plan 2000” which tries to be a STOU Virtual University project



- English



King Mongkut's Institute of Technology, Ladkrabang (KMITL) (www.kmitl.ac.th)

- **The Faculty of Engineering and Tokai
University using TV Conferencing system**



Chiang Mai University (www.chiangmai.ac.th)

- CMU online Learning offers a basic English course.
- LMS Locally developed.
- Number of online courses



Ramkamheang University

- Servers are located in Japan, USA, Australia
- Degree and Non degree Courses
- Online registration, online learning and online test at testing centers in Thailand and other countries



Suan Dusit Rajabhat University

- The best library in Thailand
- Famous in Catering
- E learning, e publishing, e journal, e thesis

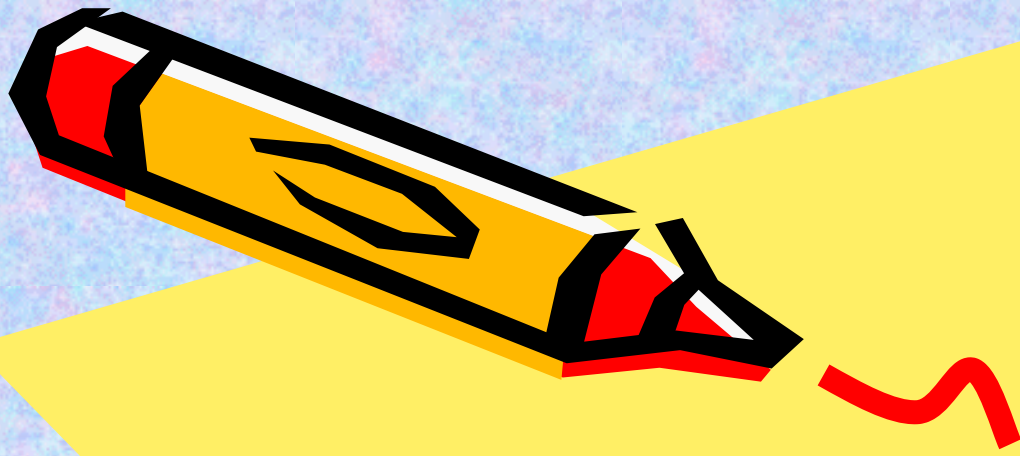


ABAC

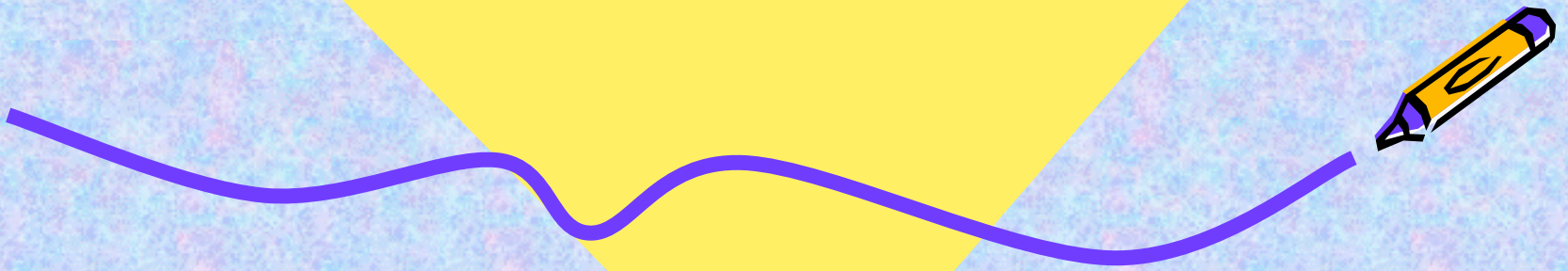
(a private University)

- Teaching learning is English .
- **“AU PLUS”** a complete e-learning system for a Master’s degree in CIS and accredited (May 06 onward) for 1000 graduate students.
- Plan to offer a Graduate level in ICT and E-Learning Methodology
- Expected to have over 100,000 e-learning students for all levels.





Ministry of Science and Technology



Ministry of Science and Technology

- **National Science and Technology Development Agency (NSTDA)**
 - NECTEC
 - TGIST
 - NOLP



National Electronics and Computer Technology Center (NECTEC)



- **Web based learning in IT courses**
- **Pilot Project IT learning (fundamental IT engineer, network engineer and database engineer) in conjunction with ITEC for IT examination**



LearnOnline

www.learn.in.th



- **Established by Thailand Graduate Institute of Science and Technology (TGIST)**
- **Online courses only for Graduate students and working people**
- **Bioinformatics, cyber tool for research, biological diversity, digital design by VHDL and etc.**



NSTDA online Project

- SCORM level 2 certified
- SCO
- LMS
- Develop online courses to several universities and organizations both public and private

