



# Goals, Current Progress and Prospects of e-Learning Promoted by Ministry of Education, Taiwan

Computer Center, Ministry of Education, Taiwan



## Outline

- Goals of Promotion
- Overall Framework of Promotion
- Current Progress of Promotion
- Future Prospects

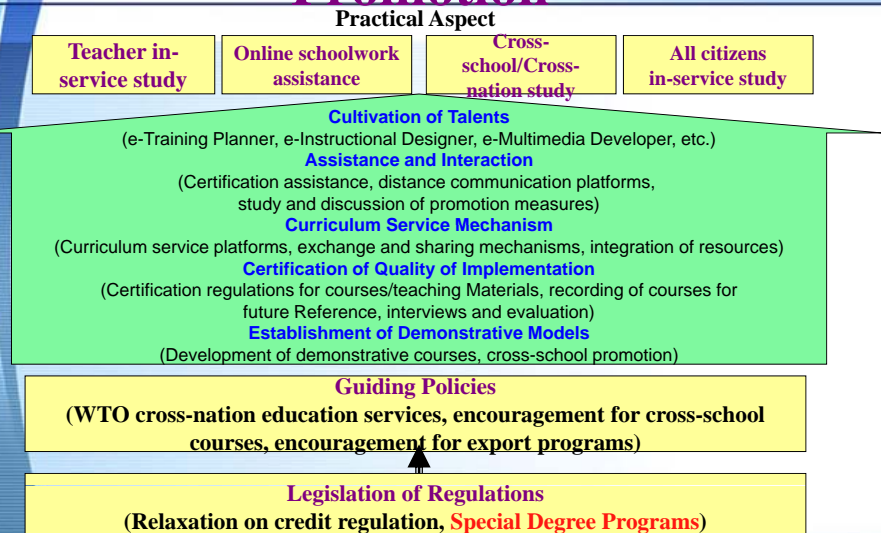


## Goals of Promotion

- Use of e-Learning to enhance the ability of university and college teachers and students to apply information technology as well as to cultivate the habit of life-long learning
- Use of e-Learning to upgrade the efficiency of education in universities and colleges as well as to develop innovative education
- Overall development of environments for sharing of e-Learning resources in universities and colleges as well as balanced distribution of educational resources
- Establishment of quality e-Learning environments and systems as well as provision of diversified learning channels
- Reinforcement of Taiwan's international competitiveness in e-Learning education services in response to Taiwan's WTO entry

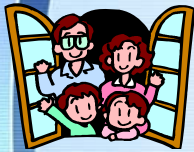


## Framework of e-Learning Promotion





## Current Progress of Promotion

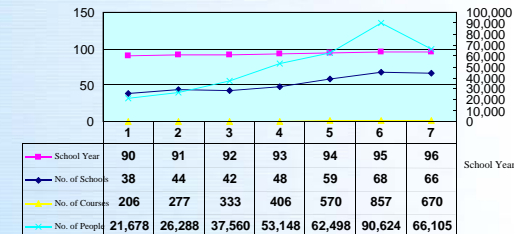


- Establishment of e-Learning development mechanisms in universities and colleges
  - Opening of e-Learning courses
  - Initiation of distance in-service master's degree programs
  - Promotion of quality certification for e-Learning courses and teaching materials
  - Promotion of demonstrative course materials and teaching application
  - Cultivation of talents for e-Learning projects
- Development of Digital Curriculum Services and Teaching Resources
  - Management and promotion of e-Learning service platforms
  - Development of quality e-Learning content
- Promotion of e-Learning Application Services
  - Provision of online in-service study for teachers in remote areas and offshore islands
  - Promotion of online schoolwork assistance in remote areas
  - Promotion of online learning interaction



## Opening of e-Learning Courses

Since 2006, college students can take distance learning course credits up to half of total graduation credits, while trial master's degree programs for in-service study as well as certification of teaching materials and courses have been initiated to ensure balanced development between quality and quantity of e-Learning in higher education. In the past three years, over 60 schools have opened e-Learning courses. More than 2,500 credited courses accumulated, 300,000 people enrolled.



Growth in e-Learning in Universities and Colleges



## Initiation of Distance In-Service Programs for Master's Degrees

- Promulgation of the " Guidelines to the Implementation of Distance Learning at Universities " in 2006
  - Permission for university and college departments and graduate schools of specific disciplines to establish trial online in-service master's degree programs
  - 9 trial programs in 6 schools permitted between 2006 to 2008
- The " Guidelines to the Implementation of Distance Learning at Universities " revised in 2009 and changed into regular administrative regulations



## Promotion of Quality Certification for e-Learning Courses and Teaching Materials

- Registration of distance learning courses for reference and evaluation
- Initiation of certification of university and college e-Learning credit courses and teaching materials since 2006
  - 77 courses and 41 teaching materials certified between 2006 to 2008
  - [Online Application Website](#)
- Revision of certification indexes and standards in 2009
- Provide certification service and consultation for 15 schools in 2009
- Promotion of cross-school cooperation mechanisms



## Development of Demonstrative Course Materials and Teaching Application

- Completion of standard operating procedure manual for developing e-Learning Courses
- Development of demonstrative e-Learning course - in environmental science
  - Completion of 28 units of digital teaching materials, including 20 environmental concepts, 4 learning strategies and 4 exploratory modules
  - Completion e-Learning materials and courses for 18-week general education programs and get certification.
  - Dismantling of around 1,000 teaching materials as downloadable components for teachers throughout the country
- Implementation and Promotion of e-Learning demonstrative general courses for environmental education
  - Enrolment of 2,000 people through access authority application for the course offered by 22 schools
  - Attendance of 1,000 person-times at seminars conducted for university, high school and elementary school teachers



## Cultivation of Talents for e-Learning Projects

- Training of Seed specialists to form support teams for e-Learning
  - Enhancement of ability of university and college e-Learning specialists to plan and develop courses and teaching, as well as teaching and media design to strengthen the e-Learning support team in every school
  - Training Courses for " e-Training Planner " " e-Instructional Designer "and" e-Multimedia Developer "
  - Promotion and application of digital teaching materials made from training courses
- Training of Chinese language teachers with ICT teaching capacity
  - Training of Chinese language teachers in applied ICT for digital teaching



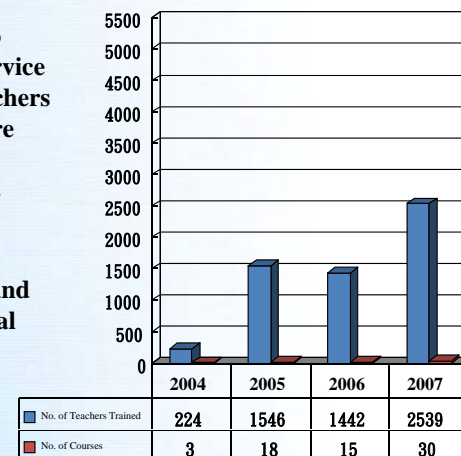
## Development of Digital Curriculum Services and Teaching Resources

- Management and promotion of e-Learning service platforms
  - Establishment and management of an e-Learning platform as the platform for university and college general education courses as well as courses from all high and elementary schools and digital opportunity centers in remote areas
  - Provision of MOE's e-Learning materials from outsourced production for online access by the public
- Development of quality e-Learning content and teaching models
  - University and college digital general education courses
  - ICT-integrated teaching in senior and vocational high schools
  - Integration of Digital Archives contents for junior high and elementary schools



## Online In-Service Study for Teachers in Remote Areas and Offshore Islands

- Use of blended non-synchronized e-Learning to provide more diverse in-service study opportunities for teachers in remote areas and offshore islands
- Contents including 3 major categories - "Information-integrated Teaching", "Information Technology and Management" and "General Education Courses"

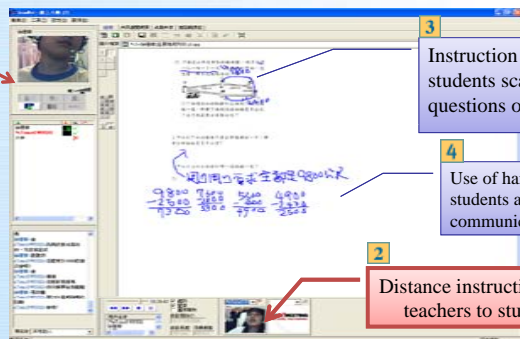




## Promotion of Online Shcoolwork Assistance in Remote Areas

1. Cultivation of university students to participate in social Service, care for social minorities and cherish life through online service learning; training of high and elementary school students to familiar with computer network technologies, expand learning and communication opportunities.
2. 716 junior high and elementary school students from 51 schools assisted by 709 university and college students from 16 schools between 2006 to 2008.

1  
Conversations between students and Teachers through webcams, earphones and microphones



3  
Instruction provided after students scan and paste questions on the screen

4  
Use of handwriting pads by both students and teachers to communicate.

2  
Distance instruction from teachers to students



## Promotion of International Online Learning Interaction

- Objectives:
  - Training of teachers to promote information-integrated English teaching through online learning
  - Assistance to Taiwanese junior high and elementary school students to participate in international interaction and communication events through the internet as well as guidance to help students learn about the outside world and expand their international perspective
  - Encouragement for sharing of learning modes and customs in different countries through virtual as well as physical interaction
- Implementing Approaches:
  - Holding seminars on "Information-integrated English Teaching Modes"
  - Hosting international cooperative learning competitions
  - Holding "International Interaction Camps for Students"
  - Producing units of "Themed Exploratory Learning Activity" as teaching materials



## Future Prospects

- Continued training of talents for e-Learning projects in universities and colleges as well as perfection of software environments for e-Learning in universities and colleges
- Continued assistance to universities and colleges to open distance learning programs as well as to guide students to develop the habit and ability to pursue life-long learning
- Continued development and promotion of core materials for digital courses and establishment of regular digital teaching models
- Research and establishment of related incentive and funding measures and mechanisms as well as guidance for school of all levels to upgrade their readiness for e-Learning



## End

**Thanks for your attention!!!**