# Development and Future Prospects of the Tertiary Education E-Learning Program in Taiwan

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**Computer Center, Minister of Education**

**Taiwan**

**Apr. 28, 2010**

# Outline

- **About Taiwan & Her Educational Overview**
- ICT Application Overview
- e-Learning Implementation in Tertiary Education
- Vision of e-Learning
- Future Prospects
- Conclusion

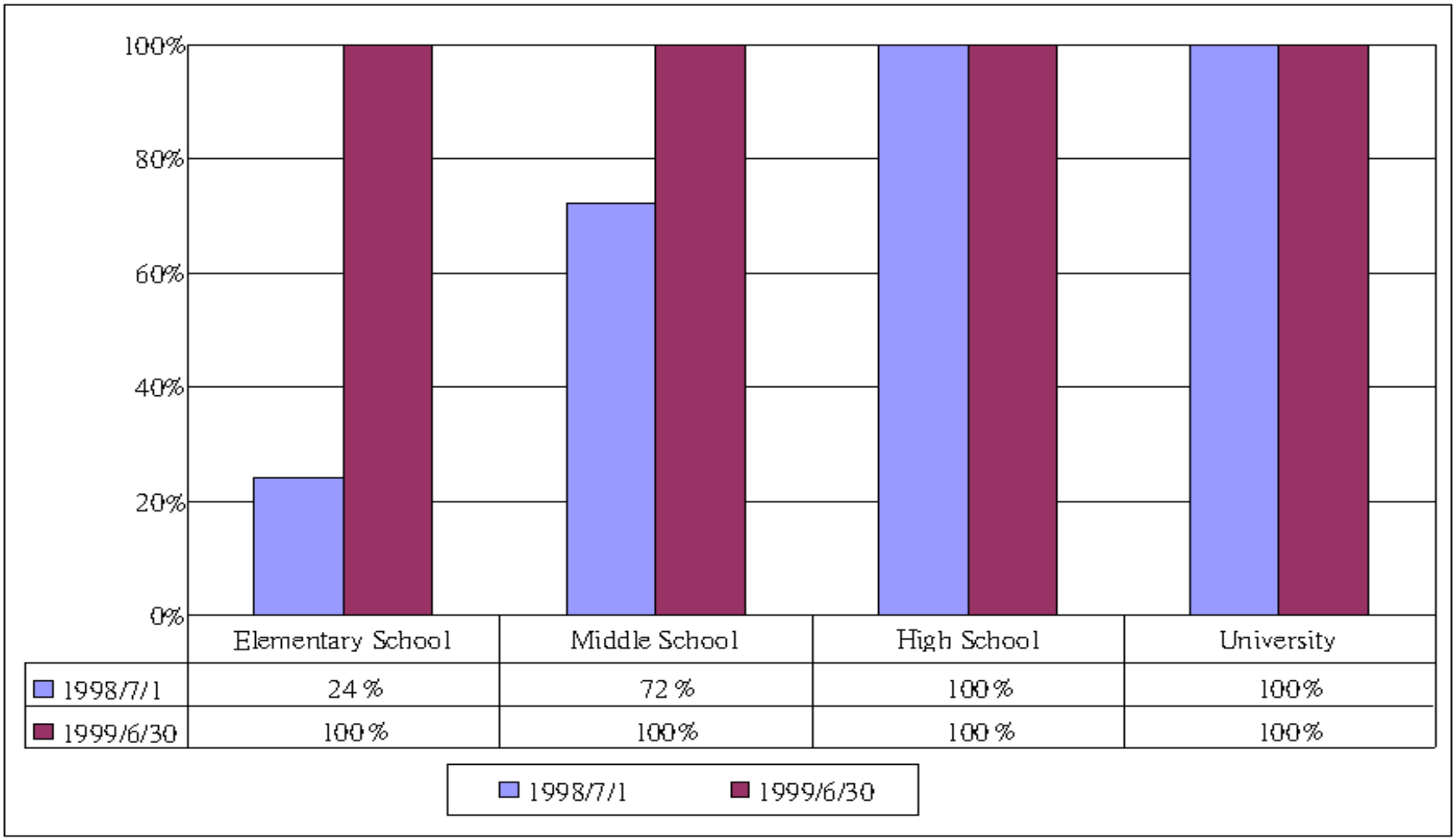
# About Taiwan

- **Area :36,000 square km**
  - Population: 23 m
  - Capital: Taipei City
  - GDP: USD16,768

# Educational Overview(1/2)

- **More than 5,000,000 students and 270,000 teachers in total**
- **Compulsory education**
  - 6 years elementary
  - 3 years secondary
  - connected and integrated into a 1st-9th grade Curriculum
- **Statistics as of school year 2007~2008**
  - Schools(k-12): 3,868
  - Universities and colleges: 173

# Educational Overview(2/2)




**100% schools connected to internet in 1999**

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# ICT Polices and Projects (2/3)

- **1994.8 National Information Infrastructure (NII) project**
  - 32 public and private colleges and universities participated in the Experimental Project of Distance Learning.
- **1997.6 Mid-term development Plan for Distance Learning**
- **2006.3 Announced “Notices to Application of e-Learning Certification Process“**
  - e-Learning accreditation was implemented.

# ICT Polices and Projects (3/3)

- **2006.9 Announced “Guidelines to the Implementation of Distance Learning at Universities “**
  - College students can take distance course credits up to half of their total graduation credits.
  - The e-Learning continuing master's degree programs have been approved. All its on-line courses must be accredited.
- **2009.4 Announced “Operation Directions Regarding Certification for On-line Learning Master Courses”**
  - Normally and formally accept all colleges and universities application.

# ICT Polices and Projects (1/3)

1997-2007

**ICT Education Infrastructure**

2001-2005

**Master Plan for ICT Edcation**

2002-2007

**Challenging 2008 ：National Development Project — Building an e- Learning System for All**

2008-2011

**Whitepaper for ICT Education**

2008-2012

**Digital Education and e-Learning Project**

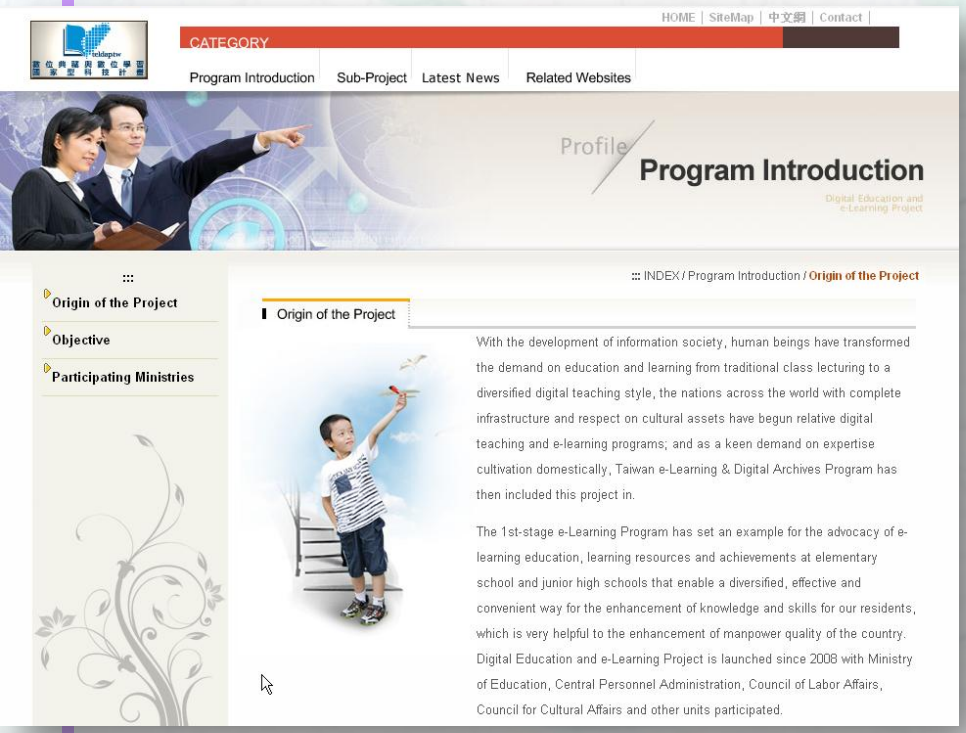
Continuous and rapid progress of e Learning

# Digital Education and e-Learning Project (DEELP)

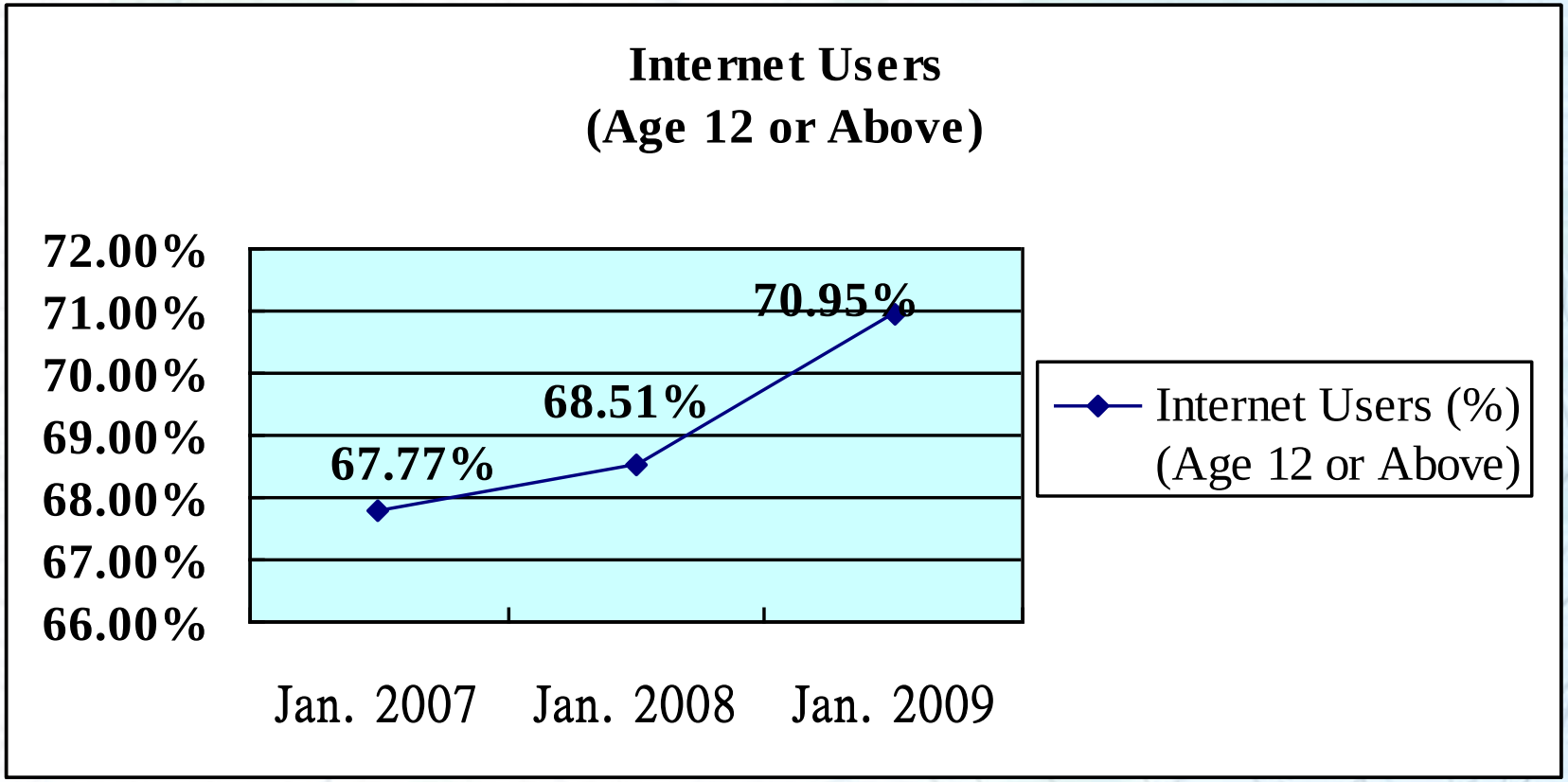
| Title of sub-project | Participating ministries, committees, or agencies |
|---|---|
| Sub-project 1：<br>Training Programs for ICT Technologies Project | Ministry of Education |
| Sub-project 2：<br>Develop e-Learning materials for Senior High Schools and Vocational Schools Project | |
| Sub-project 3：<br>Develop e-Learning general knowledge Curricula for Higher Education Project | |
| Sub-project 4：<br>Integrate Digital Archives into Teaching Project | |
| Sub-project 5：e-learning for Labors | Council of Labor Affairs |
| Sub-project 6：e-learning for Civil servants | Central Personnel Administration |
| Sub-project 7：e-Learning for Arts and Culture Project | Council for Cultural Affair |

# The portal of the DEELP

- http://learning.teldap.tw

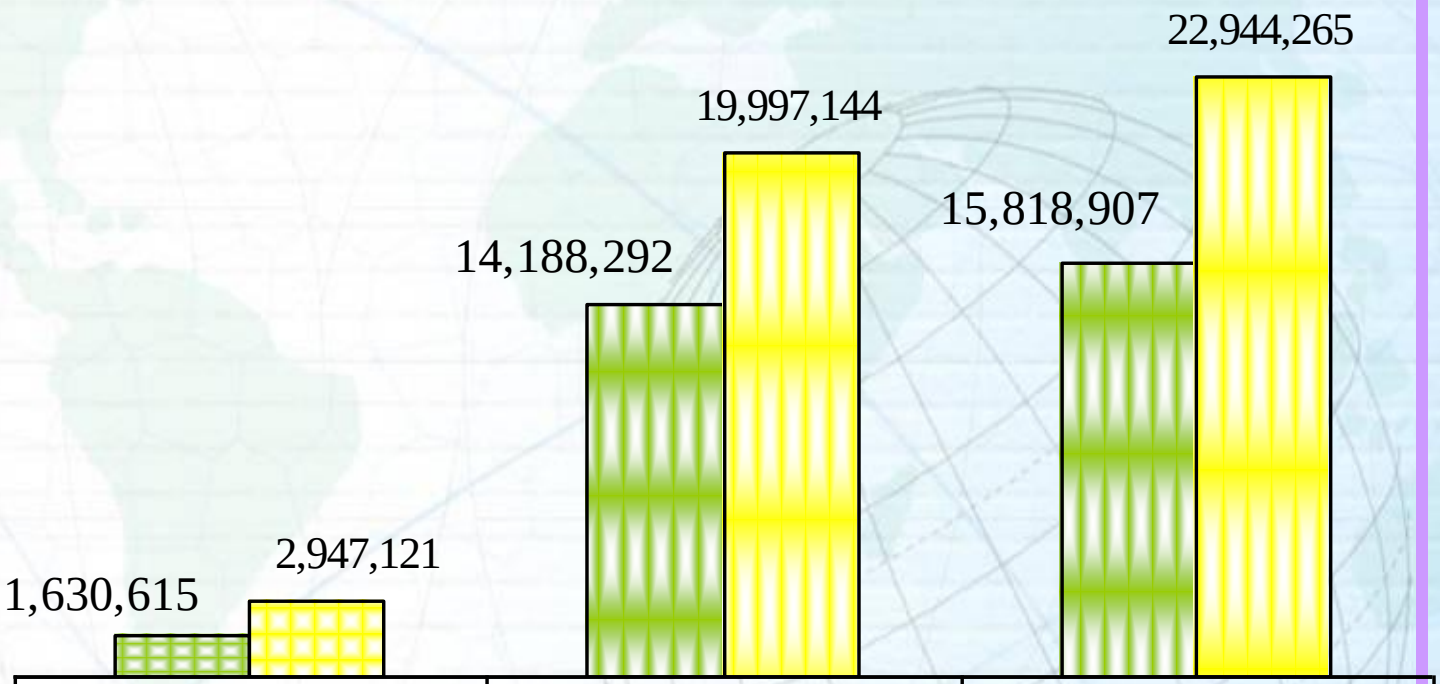


# Population of Internet Users in Taiwan




(Taiwan Network Information Center, JULY. 2009)

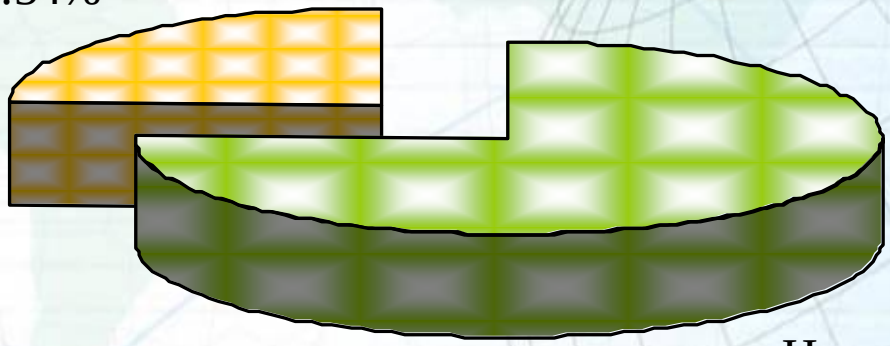
# Estimated Population of Internet Users in Taiwan




| | Age Under 12 | Age 12 or Above | Age 0-100 |
|---|---|---|---|
| Internet Users | 1,630,615 | 14,188,292 | 15,818,907 |
| Total Residents | 2,947,121 | 19,997,144 | 22,944,265 |

# Percentages of Households in Taiwan with Internet Access

Households without Internet Access, 24.54%



Households with Internet Access, 75.46%

(Taiwan Network Information Center, Jan. 2009)

# Taiwan e-readiness Summary

- **E-Government Performance (Brown University): Taiwan ranked 1st in 2002, 2004, 2005**
- **Digital Opportunity Index (DOI)(ITU): Taiwan ranked 7th in the DOI (July 2006-2007)**
- **Global Competitiveness Report 2006-2007 (WEF): Taiwan ranked 13th worldwide amongst 117 countries surveyed**
- **Global Information Technology Report 2006-2007 (WEF): Taiwan ranked 13th worldwide in Networked Readiness Index (NRI)**

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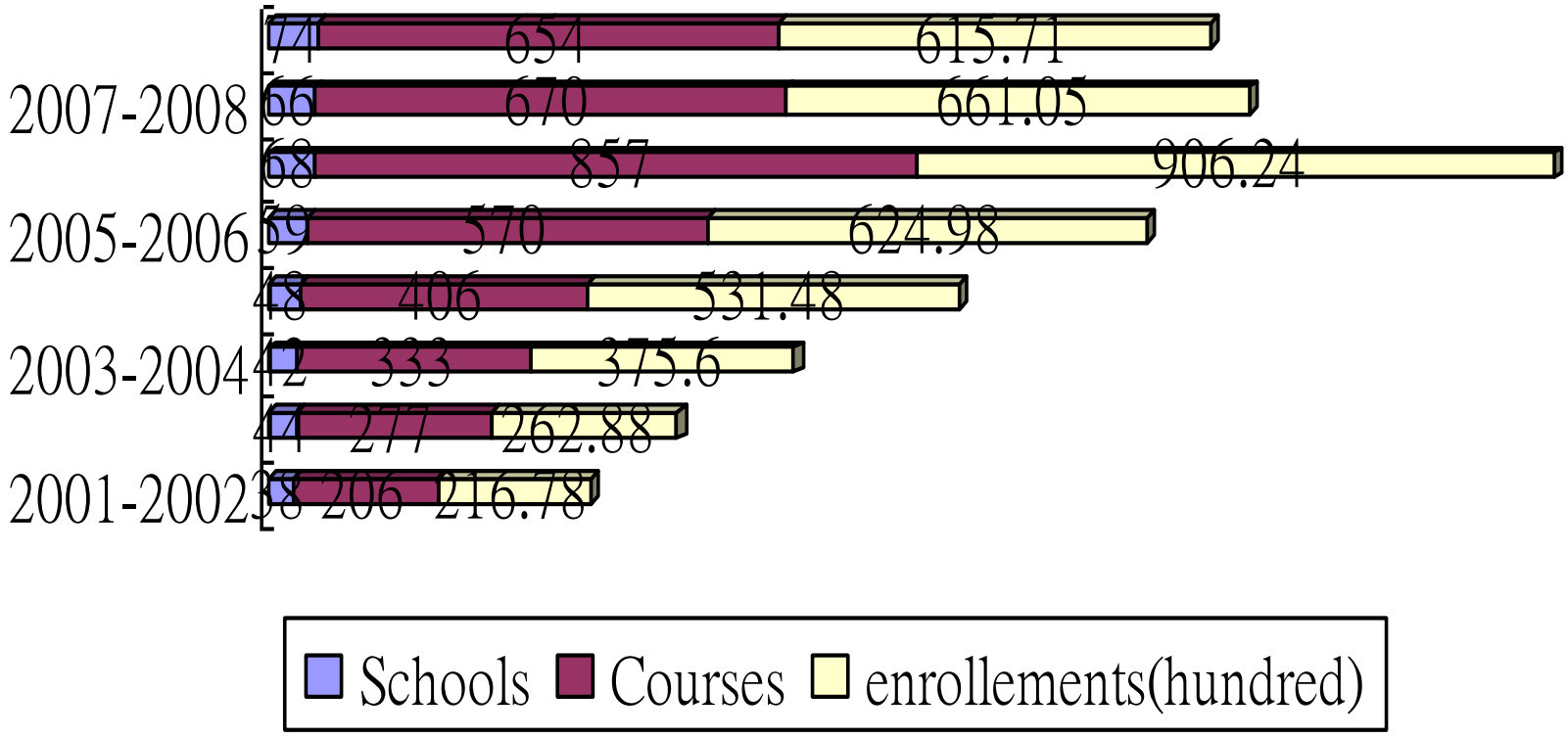
# chart of 2001~2009 school years e-Learning courses in colleges and universities



# Accreditation(1/2)

- Establishing e-Learning accreditation, accepting in-service Master degree program applications from schools, facilitating equal development of e-Learning quality and quantity for tertiary education.
- Drawing up a set of indicator as reference for teacher in colleges and universities to deliver e-Learning course.

# Accreditation(2/2)

- **From 2006 to 2010**
  - program accredited: 6 schools and 8 programs have been approved.
    - Including National Chengchi University, National Chung Cheng University, National Sun Yat-sen University, Tamkang University, Chinese Culture University, Feng Chia University.
  - course material accredited: 49 sets of teaching materials have passed the certification process.
  - course accredited: 99 courses have passed the certification process.

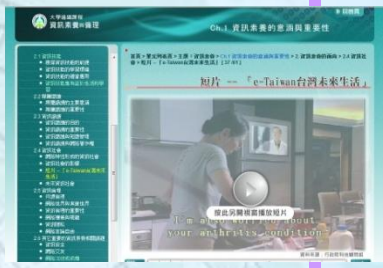
# Distant Learning Program Accreditation Web http://ace.moe.edu.tw

# Resources(1/4)

- **Developing high-quality demonstrative e-Learning general course to provide as a reference to the implementation of e-courses among local colleges and universities.**
- **Subjects including:**
  - Environment and Sustainability
  - Information Ethics
  - Library Information Implementation
  - Information Law
  - Life and Cultural
  - Health and Living
  - Chinese e-Teaching

# Resources(2/4)

- **Environment and Sustainability**
  - 100hrs self-learning materials, 18units teaching materials
- **Information Ethics**
  - 36hrs self-learning materials, 18units teaching materials
- **Library Information Implementation**
  - 36hrs self-learning materials, 18units teaching materials
- **Information Law**
  - 36hrs self-learning materials, 18units teaching materials
- **Life and Cultural**
  - 36hrs self-learning materials, 18units teaching materials
- **Health and Living**
  - 36hrs self-learning materials, 18units teaching materials
- **Chinese e-Teaching**
  - 54hrs self-learning materials

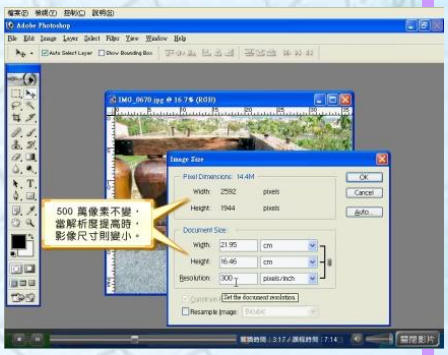


# Resources(3/4)

- **Developing high-quality e-Learning course to provide as a reference to the implementation of e-courses among local colleges and universities.**

# Resources(4/4)

- **Subjects including:**
  - Planning and Managing of an e-Learning Project
  - Introduction of e-Learning and its Importance
  - Arrangement and Evaluation of e-Teaching
  - Implementation of e-Teaching and Supporting Services
  - Designing e-Teaching Materials
  - Producing and Evaluating e-Teaching Materials
- **Each subject contains 18hrs self-learning materials**



# e-Learning Talents Cultivation(1/3)

- **In order to cultivate e-Learning implementation team in colleges and universities, M.O.E. holding E-Training Planner, E-Instructional Designer, and E-Multimedia Developer training courses.**
  - From 2004 to 2009, totally providing 11 times training courses, within 131 schools, 523 personnel enrollments.
  - Including almost 78% colleges and universities.

iCAN5

字型大小切換 小 中 大

育亭助教 | 身分：助教 回首頁

97數位訓練規劃師

快速功能區

課程進度

編輯模式

- 第一週 上課教材與補充資料
- 第二週 議題討論：ISD教學系統發展及教學策略設計
- 模組二：數位教學設計通論
  - 第 3 週
    - 第三週 上課影音：張瓊穗老師
    - 第三週 上課教材與補充資料
    - 第三週 線上作業
    - 第三週 議題討論：教案與教材設計發展
  - 第 4 週
    - go2school終身數位學習網
    - Macromedia Authorware Player Download Center
    - National Food Service Management Institute
    - Nobelprize-Educational Games
    - 第四週 上課影音：許巧齡老師
    - 第四週 上課教材與補充資料參考檔案
    - 第四週 議題討論：虛實混成課設計與教材模式
    - 華文師資培訓學苑
    - 資訊融入華語文教學教案製作
  - 第 5 週
    - 第5週 非同步教材：張淑萍老師
    - 第五週 上課教材與補充資料 參考檔案
    - 第五週 議題討論：國外案例分析

課程功能

常用功能

我的課程

我的同學

97數位訓練規劃師 > 討論 > 心得討論 > 討論主題列表 使用說明

新增主題 封存 平版模式 草稿區 追蹤 排序：發表時間 討論區：第二週 議題討論：ISD教學系統發展及教學策略設計 (117) 跳頁：1 / 1

| 主旨 | 回覆 | 作者 | 最後回覆 | 點閱 |
|---|---|---|---|---|
| 後學自己製作的Camtasia 4.0 的講義~ | | 方素貞 | 2008/11/23 下午 01:16 | 18 |
| Rapid e-learning Tool-Camtasia | 3 | 楊其微 | 2008/11/20 下午 09:29 | 32 |
| Re : Rapid e-learning Tool-Camtasia | | 鄭寶梅 | 2008/11/15 下午 11:24 | 19 |
| Re : Rapid e-learning Tool-Camtasia | | 邊瑞芬 | 2008/11/15 下午 08:32 | 19 |
| 加州大學柏克萊分校利用Google Video免費提供大學課程 | 4 | 李麗君 | 2008/11/16 下午 07:15 | 52 |
| EL9701021回應ISD教學系統發展及教學策略設計 | 2 | 曾孟如 | 2008/11/14 下午 08:13 | 38 |
| 哪些教學內容適合發展成數位課程 | | 林大鈞 | 2008/11/14 下午 05:23 | 51 |
| 請問張老師有關"當ADDIE遇上數位課程規劃"以及"當ADDIE遇上數位教 | | 李維倫 | 2008/11/14 上午 12:22 | 44 |
| 簡單的Movie Maker 講義 | 10 | 張宏宇 | 2008/11/19 下午 02:28 | 62 |
| 請問淑萍老師，不同的教材種類，開發成本如何估算(如每小時多少費F | | 王信文 | 2008/11/13 上午 08:27 | 47 |
| 幾個不錯的數位學習網站el9701044 | 1 | 蘇震榮 | 2008/11/13 下午 05:13 | 56 |
| 請問第二週的上課錄影何時才能開放線上收看? | 2 | 喻明 | 2008/11/13 上午 06:33 | 38 |
| 模擬式教材網址有誤喔 | 1 | 陳紆芳 | 2008/11/11 下午 06:51 | 45 |
| 提供一個模擬課程的網址 | 2 | 張芳菁 | 2008/11/14 下午 07:53 | 79 |
| 第二週討論議題|哪些教學內容適合發展成數位課程? | 61 | 佳儀導師 | 2008/12/20 下午 03:21 | 197 |
| 參考資料 | 11 | 陳弘正 | 2008/11/15 上午 12:19 | 83 |
| SCORM教材 | | 楊其微 | 2008/11/8 下午 12:55 | 99 |

主題發表者 :李麗君

評分 取消

刪除 回應 追蹤 推薦 編輯

標題 :加州大學柏克萊分校利用Google Video免費提供大學課程

Here is one of my collections for the free e-learning course

You may be interested to take a look.

eL9701012 Li-Chun

# e-Learning Talents Cultivation(2/3)

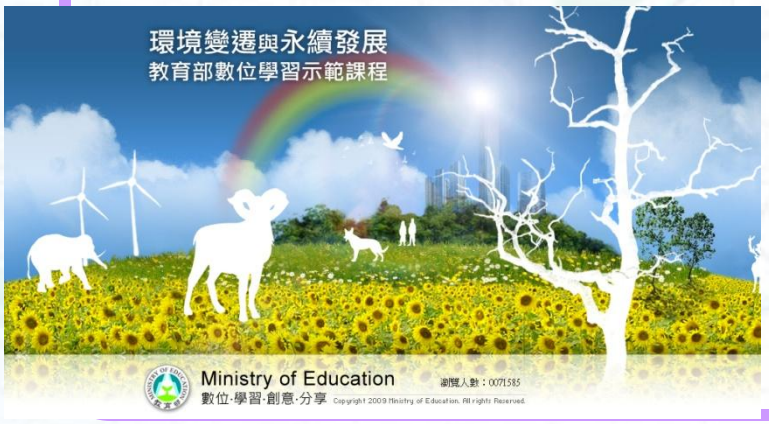
- **In order to cultivate Chinese language teachers with e-teaching capability, M.O.E. holding training courses, which were based on two core philosophies including ”Teaching Chinese as a Second Language” and “Digital Information Capability”.**
  - From 2008 to 2010, providing training to more than 1,300 Chinese teachers.

# e-Learning Talents Cultivation(3/3)

- In order to broaden and deepen e-Learning implement in colleges and universities, M.O.E. held several kind of seminars for personnel in colleges and universities, including professional skill training, peer observation, and peer sharing, etc.
- From 2008 to 2009, totally cultivating 177 personnel within 56 schools.

# Intercollegiate Collaboration(1/2)

- **The curriculum of “Environment and Sustainability”**
  - http://environment.edu.tw/
  - Within 22 schools, 24 teachers using course materials in class, with more than 2,000 enrollments.



# Intercollegiate Collaboration(2/2)

- **“OpenCourseWare” Program**
  - http://tocwc.nctu.edu.tw/
  - Organize Taiwan OpenCourseWare Consortium, and inviting interest groups of teachers to share resources and experiences within 17 schools.
  - Authorizing 273 open course wares to member of consortium.

台灣開放式課程聯盟
TAIWAN OPEN COURSEWARE CONSORTIUM

簡体中文 | English | 聯絡我們 | 回首頁

- 最新消息
- 關於聯盟
- 會員服務
- 授權條款
- 相關連結
- 常見問答
- 討論區
- 回首頁

Member Service 會員服務

FAQ 常見問答

OpenCourseWare 開放式課程

BBS 討論區

Contact Us 聯絡我們

## 關於聯盟 ABOUT TOCWC

台灣開放式課程聯盟(Taiwan OpenCourseWare Consortium, TOCWC)包含國立中山大學、國立中央大學、國立中興大學、國立交通大學、國立成功大學、國立東華大學、長榮大學、東吳大學、國立政治大學、國立清華大學、輔仁大學、臺北醫學大學、國立臺灣大學、國立臺灣師範大學、國立臺灣海洋大學、國立臺灣科技大學、國立台灣藝術大學等17所學校。

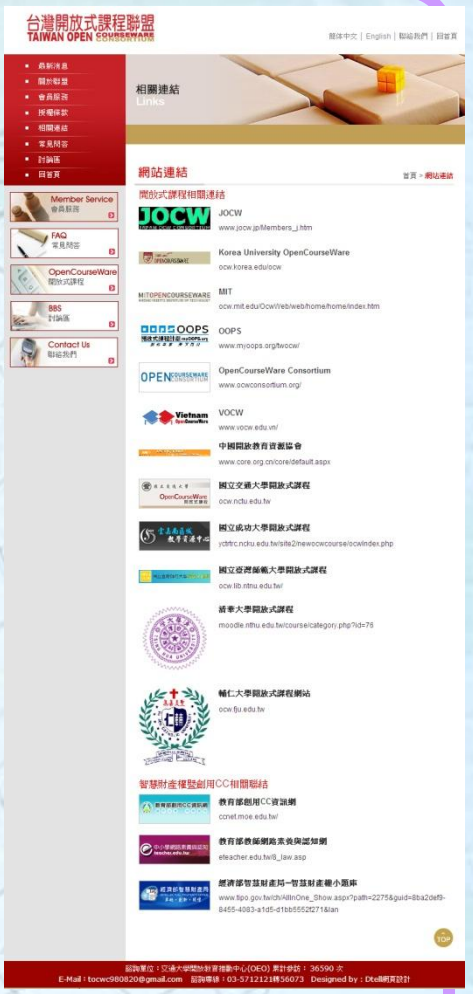
聯盟本著「開放、共享、共構、共榮」的理念推動開放式課程(OCW)，藉由發佈台灣高品質的優秀教育資源並與國內外學生與自學者共享，更加強教學資源的互補，以及增進規模經濟的發揮，進而永續經營，創造資源共享、優秀人才培育與國際競爭力提昇的最大效益。

## 最新消息 HOT NEWS

2010-02-04 OCWC Conference 2010第五屆年度會議報名開始!!!
2010-01-28 OCWC網站問卷(即日起至1/31止)
2010-01-18 中研院後設資料組-個案分析時程表
2009-12-29 12月28日中研院後設資料專業培訓課程(上)
2009-12-29 12月28日中研院後設資料專業培訓課程(下)

+ 更多訊息

諮詢單位：交通大學開放教育推動中心(OEO) 累計參訪： 36585 次
E-Mail：tocwc980820@gmail.com 諮詢專線：03-5712121轉56073 Designed by：Dtell網頁設計



# Service of e-Learning Platform

- **To integrate e-Learning resources of M.O.E., which combines aspects of curriculum, teaching, and learning.**
  - https://ups.moe.edu.tw/
  - Now providing 81 self-learning on-line courses.
  - In Taiwan, our service targets include rural areas residents, teacher of elementary and secondary schools, Chinese language teachers, and people who interest in e-Learning.

下載區 | 教育部 | 網站導覽
E-Learning Service Center
教育部 | 數位學習服務平台
Ministry of Education
E-LEARNING...
Welcome!!
帳號：
密碼：
登入
清除
加入會員
查詢密碼
以訪客身份登入
最新消息 News
課程總覽 Course
熱門課程 Popular
操作手冊 Manual
常見問題 Questions
聯絡我們 Service
最新消息
公告日期
公告標題
2010/02/02 平台目前已建置81門自學課程
2010/01/08 新建置42門一般民眾課程
2009/11/10 目前平台已建置21門自學課程
2009/11/09 新增1門「國中小英文千字e學習」此課程
2009/11/07 新增9門國民中小學教師資訊課程
2009/11/06 新增11門大專院校課程
欲觀看有對外公開之課程內容，請按左上方訪客進入。
今日人氣:共 34人
本月人氣:共 1939人
累計人氣:共 47555人
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瀏覽建議Suggestion

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# Vision of e-Learning

- With e-Learning environment and mechanism to Enhance the teaching effectiveness of universities and colleges, and to develop innovative teaching.
- To reinforce information literacy of teachers and students by e-Learning, and gradually cultivate the habit of lifelong learning.
- To encourage intercollegiate collaboration, and to promote e-Learning resources sharing between schools.
- To promote the international e-Learning service, and to enhance international competitiveness in e-Learning services。

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# Future Prospects(1/2)

- **Creating high quality environment and mechanism of e-Learning in colleges and universities, and providing multiple methods of learning and innovative education development.**
- **Cultivating e-Learning implement talents, and enhancing e-Learning implement support teams in universities and colleges.**

# Future Prospects(2/2)

- Organizing mechanism of intercollegiate collaboration, to promote e-Learning resources sharing and knowledge exchanging.
- Broadening Chinese e-Learning market, to let Chinese-native students obtain Taiwan's colleges and universities degrees.
- Developing high quality on line teaching materials and curriculums, to provide to non-Chinese-native people learning by e-Learning.

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# Conclusion

- **Founded on e-Learning basement, continued promoting:**
  - Modify e-Learning related policies.
  - Practice e-Learning accreditation, provide high quality education services.
  - Encourage intercollegiate collaboration mechanism.
  - Cultivate e-Learning talents.
  - Maintain service of e-Learning platform.

# Thanks for Your Attention!!

http://www.edu.tw