Building A Learning Society Through e-Learning
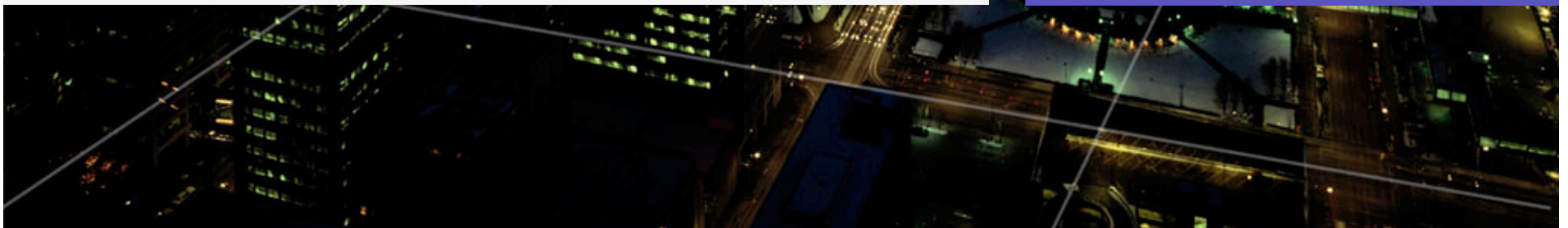
Myung-sook Pang, Ph.D.
Director of International Cooperation
and Public Relation
KERIS
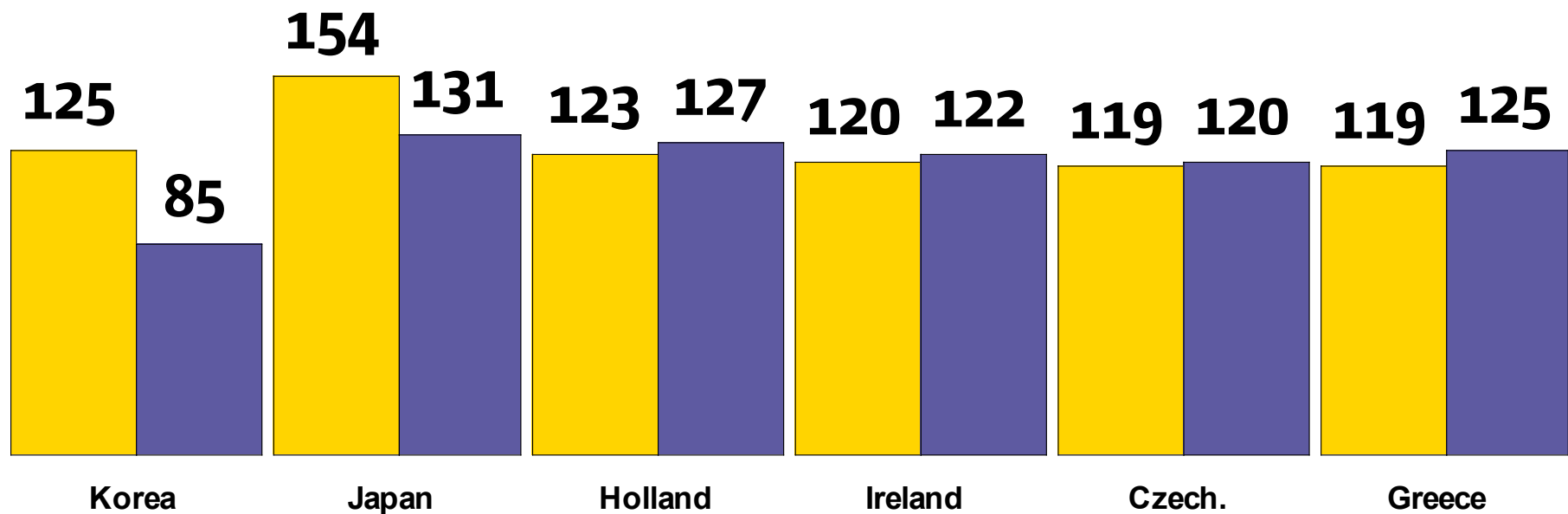
Sun microsystems

Education for the Knowledge and Information Society

- National competitiveness

  = national knowledge assets

- Private tutoring: high cost, low efficiency
  - Plan to reduce private tutoring costs
- e-Learning as a core strategy

Education for the Knowledge and Information Society

Lifestyle Changes

- "Well-being" trend for a high quality lifestyle
- Customized and individualized pattern of education

Education for the Knowledge and Information Society

Changes in the Educational Environment

- Diverse learning tools
  - Internet, satellite TV, PDA, mobile phones, etc.
  - Multimedia materials and classes in CD, Internet. etc.
- Changes in demand
  - Active student participation
  - Communication between teachers and students
- Changes in content
  - Focus on students' ability and aptitude
  - General and elective subjects

Education for the Knowledge and Information Society

Current Status

- **International competitiveness**
- **Rapid expansion of private tutoring**
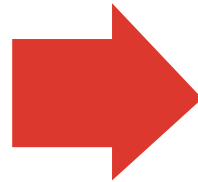
Expectations

- Innovation in education method
- Self-directed study
- Learning opportunities for the disadvantaged

Stages of Applying ICT in Education

- Initial infrastructure stage
  - National Informatization Master Plan I
  - Informatization Promotion Committee

- Cyber Korea 21
  - National Informatization Master Plan II

- e-Korea vision 2006
  - National Informatization Master Plan III
  - Broadband IT Korea

- IT 836 strategies
  - 8 new services, 3 investments in infrastructure,
  - 9 new growth engines

Stages of Applying ICT in Education

- ## Initial infrastructure Stage (1999~2000)
    - 1 PC per 1 teacher, Internet to all schools and classrooms
    - ICT literacy education
    - Educational content development for each subject

- ## Utilization Stage (2001~2003)
    - Guidelines for use of ICT 10-20%
    - Teacher training for adpating ICT into education
    - Education resources sharing system among 16 MPOEs
    - Teaching-Learning Center

- ## e-Learning Era (2004~present)
    - EBS e-Learning project
    - Cyber Home Learning System
    - National Teaching-Learning Center-EDUNET
    - e-Textbook

Current e-Learning Policies and Analysis

Background

"not E-learning but e-LEARNing"

- **International attention as a new paradigm**

  - For the right to study and innovative learning

- **e-Learning as a core driver for national competitiveness**

  - Establishment of NHRD strategy through e-Learning

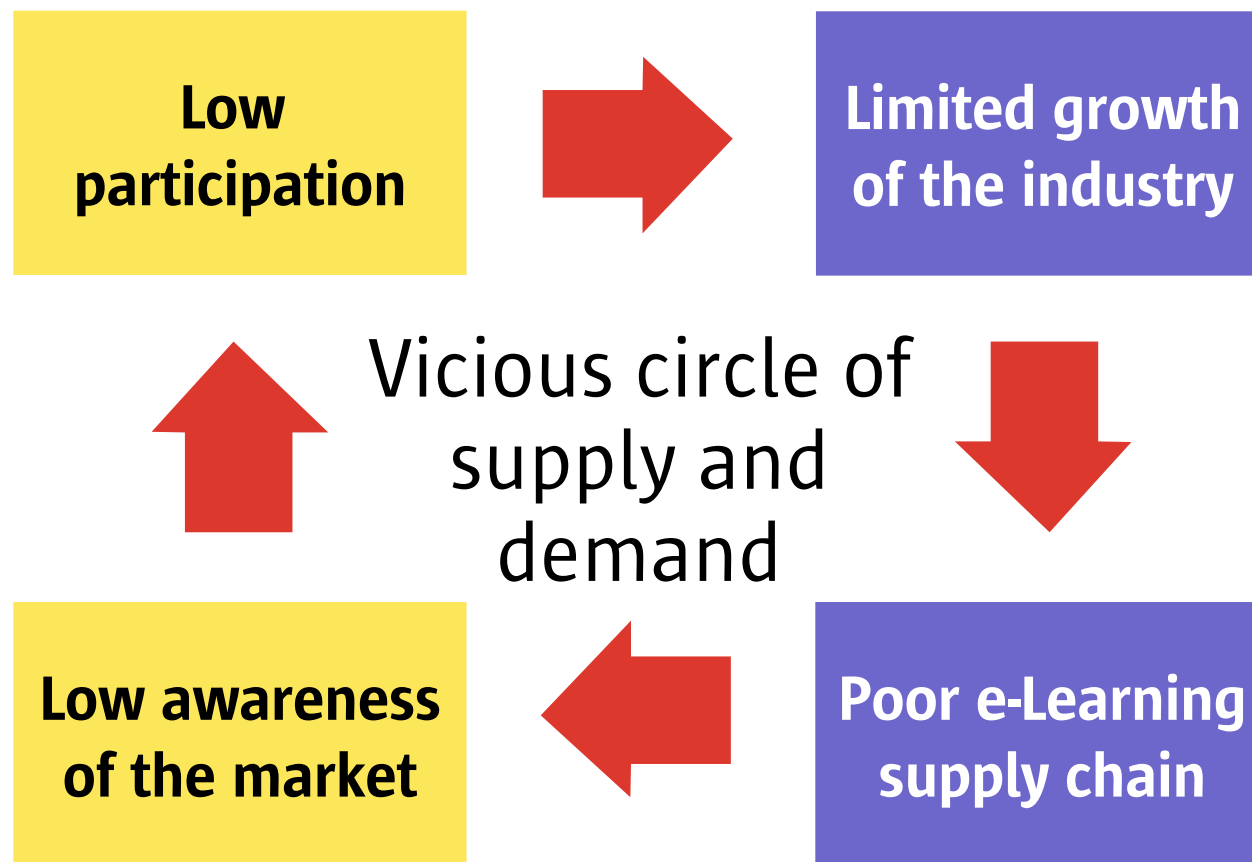 *avoid 'education against industry' view

Current e-Learning Policy and Analysis

Current e-Learning Issues

- Primary and secondary education
  - 1PC 5.8 students
  - 70.7% of schools networked to 2Mbps
  - Adapting ICT into education
  - EBS e-Learning Project, integration of TV & Internet
  - Cyber Home Learning System
- Higher education
  - Opening of education market
  - 66.9% of universities have adopted e-Learning (2002)
- Lifelong education
  - 89.9% of population use the Internet
  - Cyber university, lifelong education centers
  - Language and license related studies

Current e-Learning Policy and Analysis

Current e-Learning Issues

Low participation → Limited growth of the industry

Vicious circle of supply and demand

Low awareness of the market ← Poor e-Learning supply chain

Current e-Learning Policy and Analysis

Supplement and Reform Public Education through e-Learning

- Integration of existing programs
  - Integrate EDUNET, Cyber Home Learning System, EBSi
  - Form "e-Learning Research Center"
- Active participation
  - Active parental participation
  - "No wall in school" project thru parents, teachers, community
  - Cyber ethics and morality
- Customize for teachers
  - Strengthen teachers' ICT skills
  - Provide consultation on how to adapt ICT into education
  - Launch "Preparing Tomorrow's Teachers to use Technology"

Current e-Learning Policy and Analysis

Key HRD through e-Cluster

- e-Learning cluster
  - Cooperation between academe, industry for R&D
  - University-industry collaboration thru e-Learning centers

- Support research information system
  - e-Learning centers in universities and regional strategic industry collaboration to cultivate specialists

Current e-Learning Policy and Analysis

Key HRD through e-Cluster

- ## Establish e-teaching & learning system
  - Competitiveness of universities thru accumulated achievement record system
  - Individualized learning thru e-Learning
- ## Train e-Learning specialists
  - Knowledge in both education & IT
  - Offer e-Learning related courses at the graduate level

Current e-Learning Policy and Analysis

Employable Skills through e-Learning

- Specialization and Diversification
    - Incentive for specialized course
    - Support consultation
    - Cooperation between the R&D capabilities of government and universities
- Institutionalized support
    - Tax benefits for e-Learning
    - Accumulated achievement record system
    - Customized e-Learning according to career and job

Current e-Learning Policy and Analysis

Employable Skills through e-Learning

- Learning society
  - Use e-Learning in innovative ways
  - e-Learning as a training medium for government officials
  - e-Learning-based teacher training

Current e-Learning Policy and Analysis

Unite Provinces through e-Community

- ## Support the disadvantaged
  - Relate with other governments' projects for the disadvantaged
  - Use e-Learning to support alternative schools
- ## e-Lifelong school
  - e-Lifelong learning system for school dropouts
  - Combine with conventional education

Current e-Learning Policy and Analysis

Unite Provinces through e-Community

- ## Create an e-Community
  - Develop regional a e-Learning portals
  - Promote regional e-Learning committees
  - Regional innovation centers for education
- ## Support regional innovation industry
  - From national ICT infrastructure to learning infrastructure
  - Cooperate with e-Learning projects of other organizations
  - Promote e-Learning based on a lifelong learning society

ICT Policy Implementation

Globalization of e-Learning

- ## Korea as Asia's e-Learning hub
  - Support international training
  - Share available resources
  - Provide international seminars and consultations
  - Train unemployed IT workers
  - APEC ICT model school network
  - Join e-Learning community programs

ICT Policy Implementation

Globalization of e-Learning

Support Cyber University Going Abroad

- **Export content**
- **Strategic alliance with general universities to enter other markets**

World-class Korean Language through e-Learning

- **Systematic Korean language training**
- **Support other nationalities studying Korean**

ICT Policy Implementation

System for Implementation of e-Learning

- ## MOE&HRD overseeing national policy
  - More macroscopic policy basis : NHRD
  - Securing budgets and designing policy
- ## MPOEs implementing education policy
  - Enacting policies at the metropolitan and provincial level
- ## KERIS responsible for e-Learning in Korea
  - Promote lifelong learning society and NHRD system
  - Support for planning and implementation of MOE&HRD and 16 MPOEs
  - ICT services in education for the public
    - *EDUNET, RISS, NEIS

ICT Policy Implementation

Six Successful Factors

- Firm support and involvement of top educational administrators
  - Designate specialists as Chief Information Officer (CIO)
- Capability of organizations
  - Efficient assignment of roles to each organization
  - Systematic organizational structure
    - *MOE&HRD, KERIS, 16 MPOEs
- User-oriented policy
  - Teacher- and student-centered policy
  - Provide and expand ICT training for teachers
  - Promotion of national content and compensation

ICT Policy Implementation

Six Successful Factors

- Monitoring and evaluation system
  - Consolidate laws and regulations
  - Systematic evaluation

- Collaboration
  - Expansion and reorganization of MOE&HRD
  - Coordination of e-Learning policy through national HRD council

- Appropriate budget allocation
  - Sufficient budget allocation and effective implementation
  - Preserve initial investment as well as administrative budget

Support for the Success

Learning Society

- Construction of e-Learning
- Sustained investment
- Revision of laws and regulations
- National HRD policy

Building A Learning Society Through e-Learning

jean@keris.or.kr