



## HRD for Knowledge Economy - Reforming the Role of Government -

September 9, 2005

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**Republic of Korea** 



In January 2001 the Government expanded the Ministry of Education to the Ministry of **Education and Human Resources Development.** Now, HRD, which used to be an issue confined to private organizations or companies has now become a matter of great importance at a national level.

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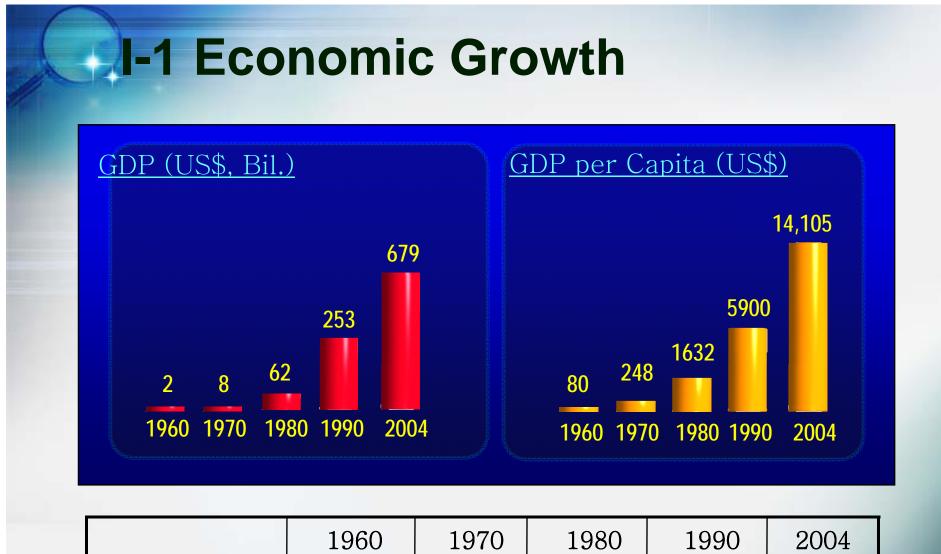
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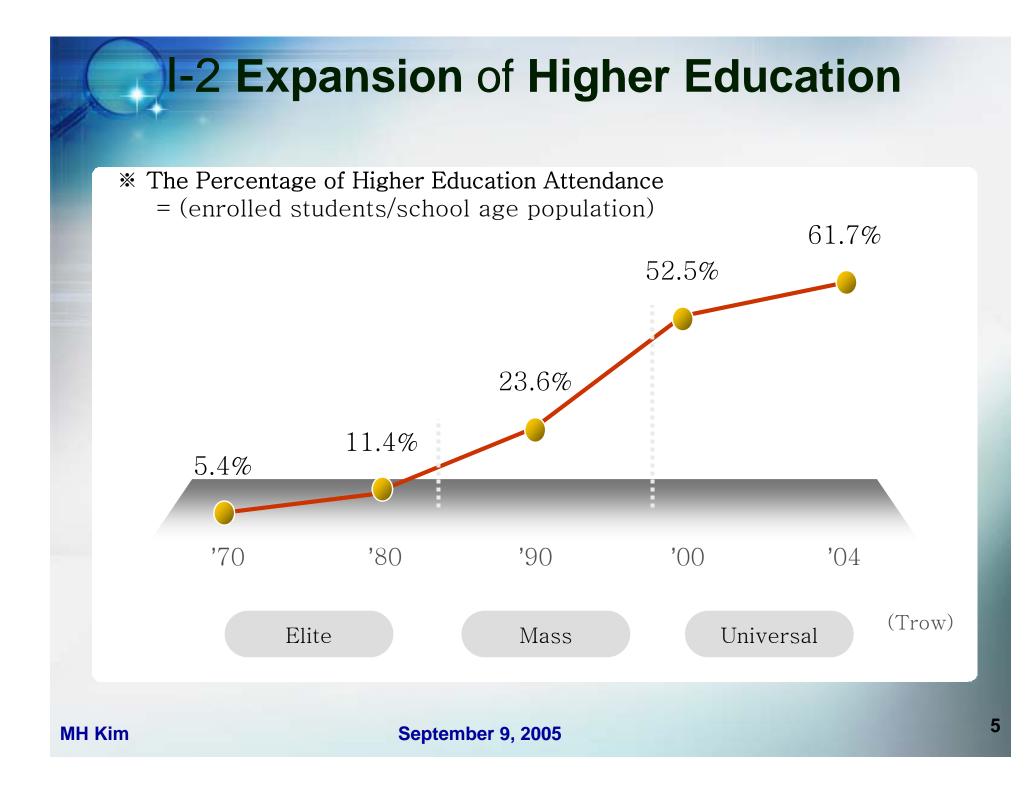
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## I. HRD & Economy



	1000	1010	1000	1000	2001
Population(1000)	25,012	32,241	38,124	42,869	48,082

World Rank: 11th in GDP (US\$679bil.), 12th in Trade Volume



### I-4 Economy and Education('60s-'70s)

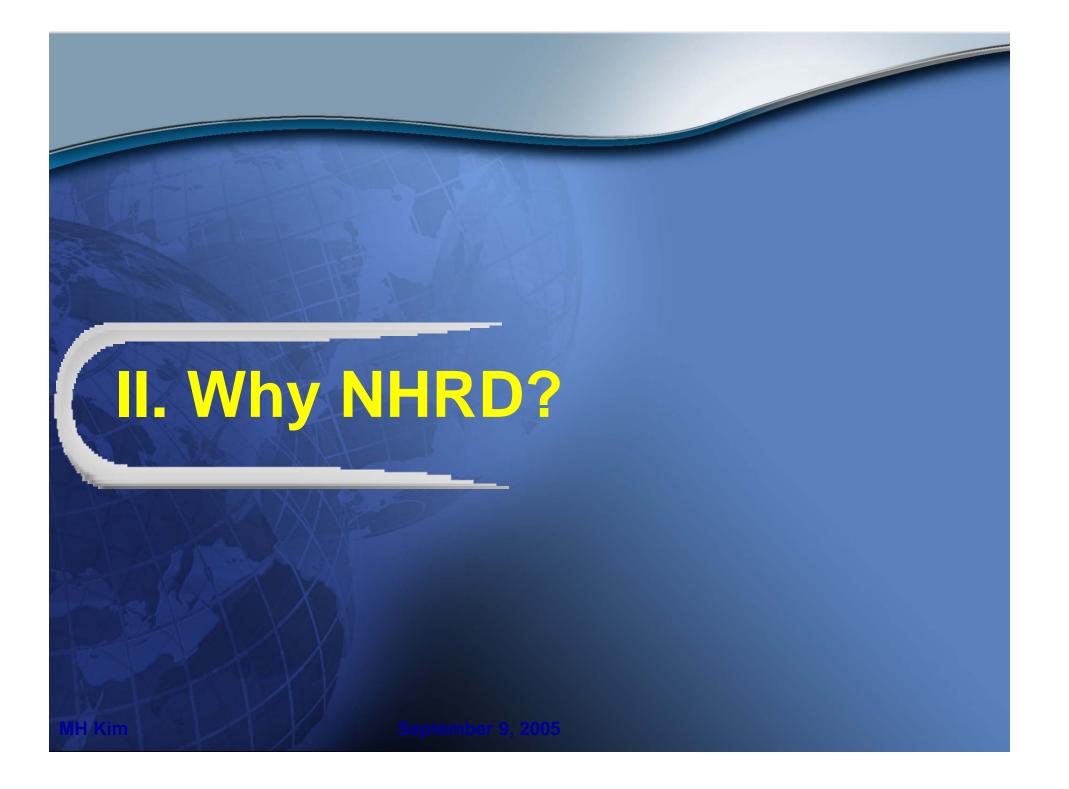
		1960s – mid-1970s
	Economy	Take-off & export-driven in '60s; export acceleration in early '70s
	Major Industry/ Exports	<ul> <li>Light manufacturing goods (clothing, textile, shoes, etc)</li> <li>Electronic goods (television, radios)</li> </ul>
	General Education	<ul> <li>Expansion of primary &amp; lower secondary education</li> <li>School equalization policy</li> </ul>
	VET/HE	<ul> <li>Emphasis on VET(late '60s)</li> <li>Separate VET track</li> <li>Limited access to university education</li> </ul>
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### I-5 Economy and Education('70s-'80s)

	mid-1970s – 1980s
Economy	Structural adjustments in late '70s: from imitation to innovation in '80s
Major Industry/ Exports	<ul> <li>Heavy &amp; Chemical industry</li> <li>Iron industry, shipyard, precision manufacture</li> </ul>
General Education	• Expansion of upper secondary education
VET/HE	<ul> <li>Strengthening Junior College &amp; Open University</li> <li>Expansion of HE (Graduation enrollment quota)</li> </ul>

## I-6 Economy and Education('90s ~)

	1990s through the present
Economy	<ul> <li>National competitiveness in early '90s;</li> <li>Knowledge-based economy in mid-'90s</li> </ul>
Major Industry/ Exports	<ul> <li>Semiconductor, Information &amp; communication technology</li> <li>Computer, Cellular phone, Memory chips</li> </ul>
General Education	<ul> <li>Establish life-long learning infra-structure</li> <li>Promote deregulation &amp; diversity</li> </ul>
VET/HE	<ul> <li>Curriculum integration &amp; School diversification</li> <li>Employment Insurance system</li> <li>Cyber university, credit bank system, etc.</li> </ul>



### II-1 Demand for Knowledge

- Korean Economy has grown 5.9% per annum for the last 40 yrs
  - **※** GNP per capita: \$87 (1962) → \$14,105(2004)
- Korean Economy has been stagnant for the last 10 yrs
  - **\*** GDP growth rate : '80s(8.3%), '90s(6.0%), '00s( 4~5%)
    - Source of Growth during the industrial era : physical capital and labor
    - Engines of growth in a knowledge-based economy : knowledge, human capital, and social capital



## II-3 Demand for Change

#### Paradigm Shift

Then	Now	
Physical Capital	Human Capital (Knowledge/Skills)	
Labor force	Knowledge/Technology	
Government-led	Led by private Companies/universities	

#### • Change in skill composition (US)

	Professional Workforce	Skilled Workforce	Unskilled Workforce
1950s	20%	20%	60%
1990s	20%	60%	20%

\*Source: 21st Century Skills for 21st Century Jobs(1999)

### **II-4 Organizational Change**

	Then	Now
Workplace organization	Function/Specialized	Network of multi/cross- functional team
	Rigid	Flexible
Job Design	Narrow	Broad
	Do one job	Do many jobs
Employee Skills	Specialized	Multi/cross-skilled
Worker autonomy	Low	High

\*Source: 21st Century Skills for 21st Century Jobs(1999)

### II-5 Demand for Educated Workforce

New jobs require workforce with enhanced skill and competence.

- Basic skills : reading, writing, computation
- Core skills : analytical, problem-solving skills,

creative thinking, self-management

- Technical skills : computer skills
- Education and training is part of a positive cycle of benefits for both employers and workers.
  - Consequently increasing their productivity, and increasing the company's competitiveness and employers' bottom lines.

# III. Current State and Problems

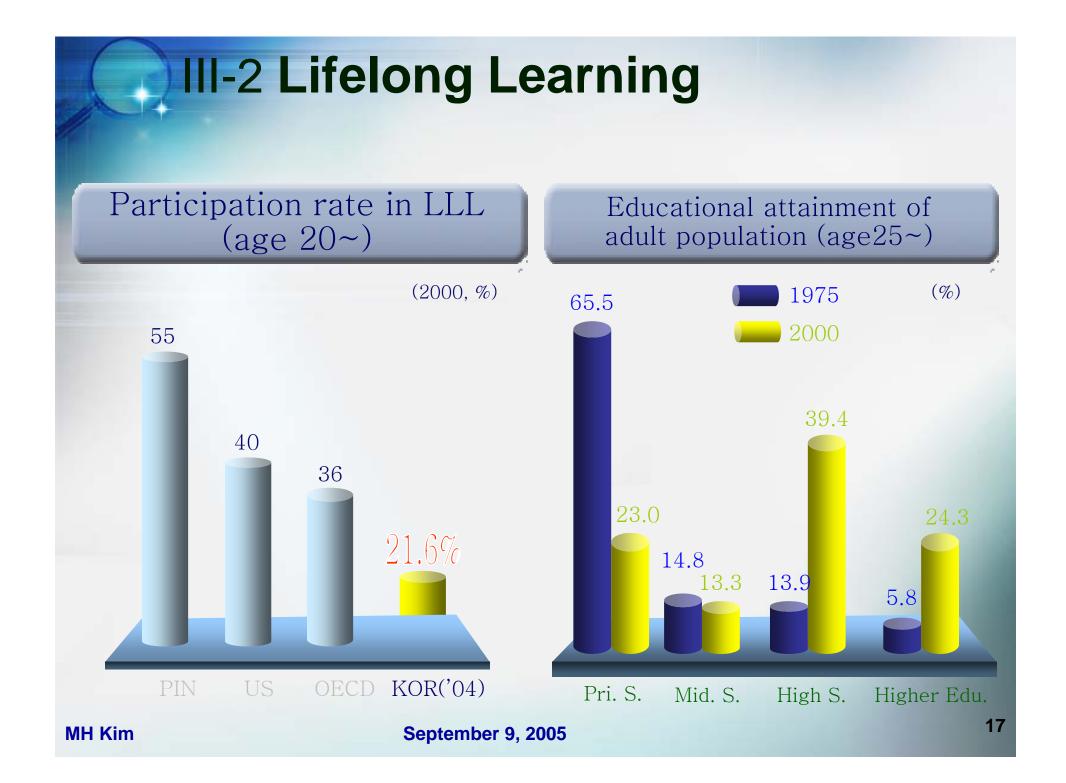
#### III-1 Student Ratio going to a higher level of Ed.

Rate of students advancing to the next level of schooling

Year	Elementary S. $\rightarrow$ Middle S.	Middle S. $\rightarrow$ High S.	General HS → Higher Ed	Vocational HS → Higher Ed	Higher Ed → Graduate school
1970	66.1%	<b>70.1%</b>	40.2%	9.6%	4.6%
2004	99.9%	98.8%	89.3%	61.9%	11.1%

Enrollment Share of Vocational High School

1970	1980	1990	2000	2003
44.6%	42.1%	34.0%	35.6%	30.3%

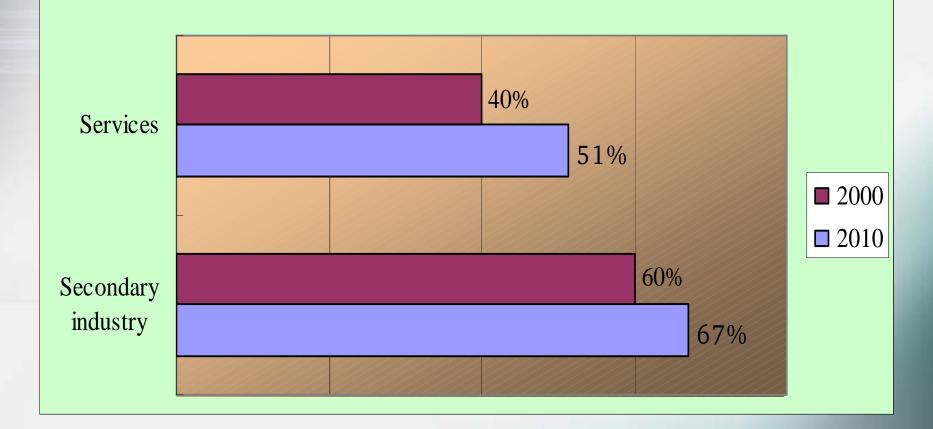


III-3	Employment 3	Share by Indu	stry Sector
Year	Agricultural /Fishery	Mining/ Manufacturing	Services/ SOC
1970	50.4%(31.3%)	14.3%(16.9%)	35.3%(51.9%)
2002	9.3%(5.0%)	19.2%(36.3%)	71.5%(58.7%)

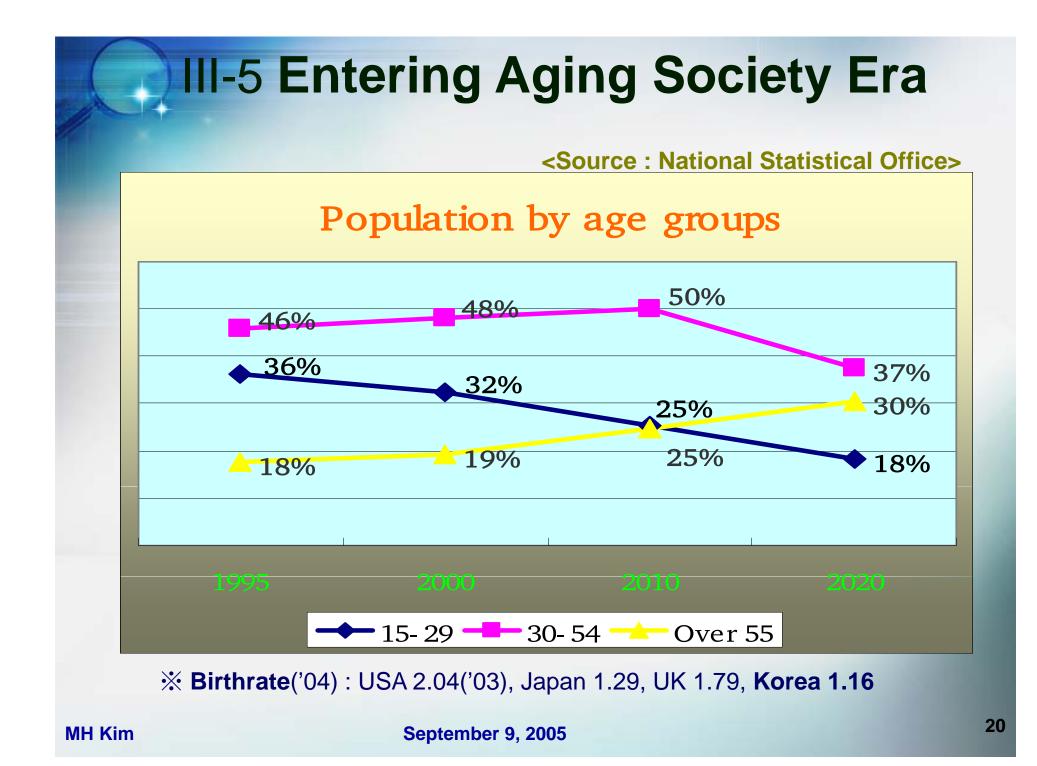
\* ( ):% of GDP

### III-4 Knowledge-based economy is accelerating

The Portion of knowledge-intensive industry

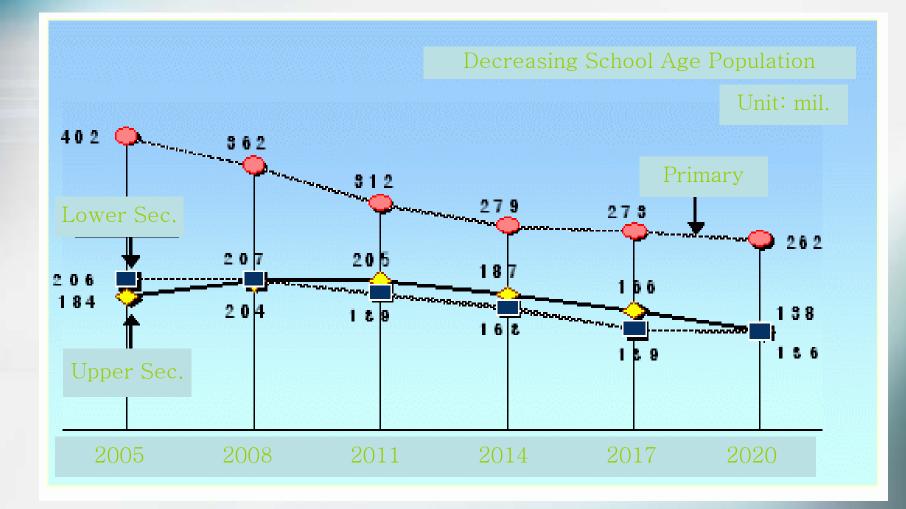


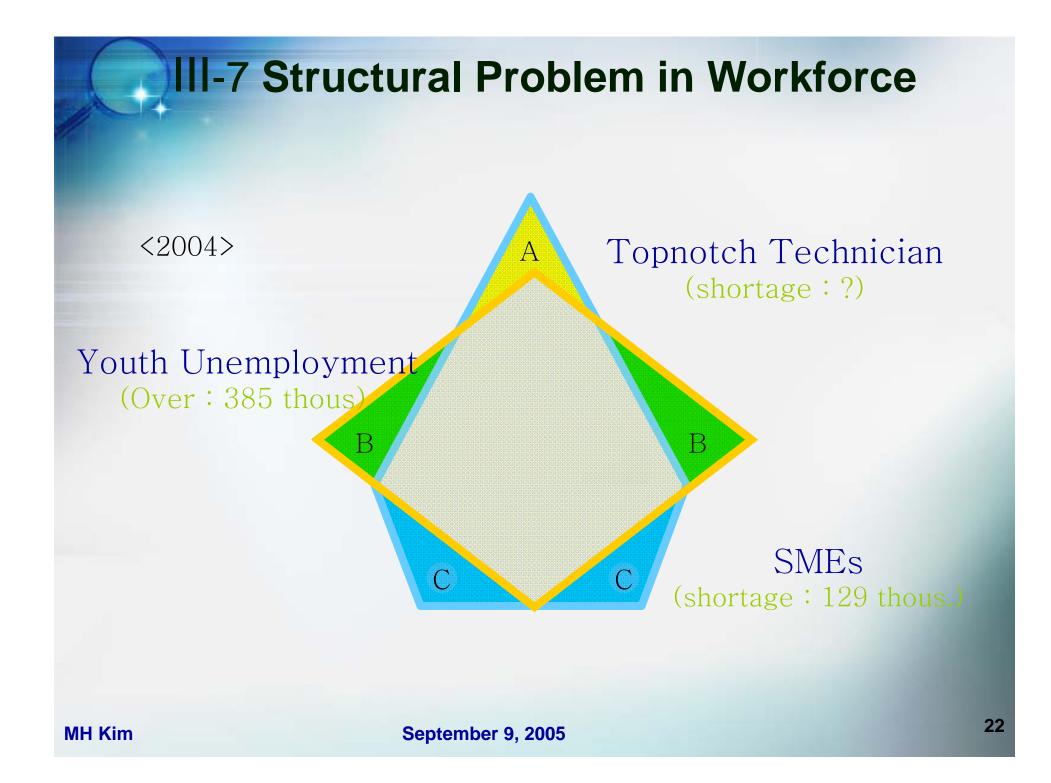
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#### **III-6 Decreasing School Age Population**

#### <Source : National Statistical Office>





## IV. Change in HRD Governance

### **IV-1 Legal Definition of HRD in NHRD**

#### Human Resources

"Human Resources" mean competencies and attributes, i.e., knowledge, skill, and attitudes, required for development of individuals, society and nation. (HRD Law § 2)

#### **Human Resources Development**

"HRD" means formation, allocation, and utilization of Human Resources along with related activities to formulate social norms and networks rendered by state, local government, educational institutions, research institutes, private companies, and others. (HRD Law § 2)

### IV-2 Goals of HRD

 Strengthening the capacity of individuals by nurturing lifelong learning and creative thinking of all citizens

 Building social trust and cohesion that is on a par with the social capital of the advanced countries.

Creating a new engine for economic growth by securing high-quality workforces

### **IV-3 Strategies** of **HRD**

- O Open System and Networking
- Adapting to the Information Age
- O Deregulation and Greater Autonomy
- Maximizing the National Human Resources Potential
- Promoting Participation of related Government Agencies and Private Sector
   \* the 2<sup>nd</sup> NHRD Strategy Plan('06-'10): 5-year National plan

#### IV-4 MOE&HRD Before Now Name MOE **MOE&HRD** Head **Minister Deputy Prime Minister(DPM)** Education, LLL, Education, Scope **Adult Education Coordinating HRD Policy**

Coordinate HRD/VET policies among different line Ministries
 Ministerial Committee on HRD (chairperson : DPM)

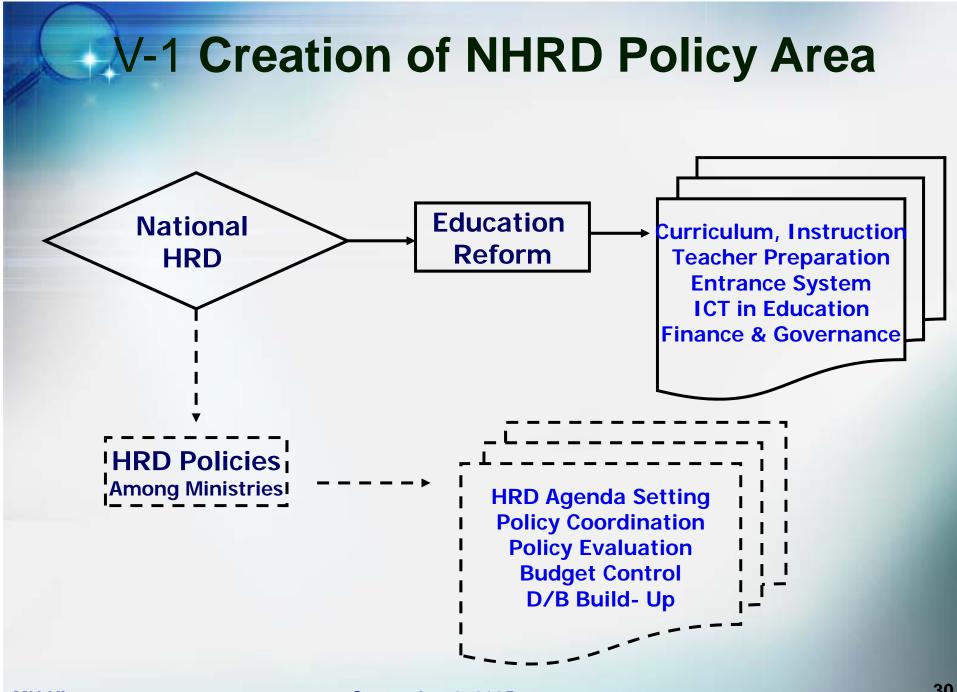
• The Committee is composed of 14 Ministers

### **IV-5 Governance** of **HRD**

#### • MOE&HRD

- Overall education and national policies
- Responsible for VE : vocational high schools, colleges and universities
- Ministry of Labor
  - Responsible for VT : vocational training institutions
- Local education authorities(LEA)
  - Cross-ministerial approach
     Policy coordination through the Committee

# V. Policy Coordination (Examples)



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### V-2 Coordination Process

Policy Issues  $\rightarrow$  Task Forces(TF)  $\rightarrow$  Planning – Implementation

- One and more Ministries raise HRD/VET issues
- DPM suggest TF to related Ministries
- The Committee accept the suggestion
- Ministry with major responsibility takes charge of TF
- Related Ministries engage early by participating in TF
- The Commission make a decision TF's plan
- If accepted, the plan is implemented by all members

### V-3 Example - Sector Councils

#### O Purpose

 Bring employers more center stage in articulating their skill needs and in delivering 'industry-oriented programs

#### Activities

- Develop industry-specific skills
- Define key sector occupational skills &qualifications
- Facilitate partnerships a/m industries, college/univ., RI
- Composition
  - Representatives from industries, academia, research institutes



V-4 How Chang	jed?	
Before Now		
Sector Councils		
3 Ministries separately tried to set up SCs	ONE SCs(10 sectors) based on 3 Minister's MOU	
Education for servicen	nan in the Army	
Very few Opportunity of Education/Training	Introducing the Accrediting system for Credits obtained during Military Service, MOU b/w MOE, MOD and others	

# VI. Future Issues

### VI-1 HRD Reforms (1)

#### **Enhance and evaluate teacher's ability**

Promote autonomy and accountability in the school system

#### • Strengthen the support system to promote LLL

- Set up ubiquitous learning system (e-Learning)
- Support LLL by financial aids(Loan, Tax Credits)

#### • Enhance quality of higher ed. up to global level

- Innovate role and function of universities as new engine for sustainable economic growth
- Expand cooperative system among industries, universities, and research institutes

### VI-2 HRD Reforms(2)

#### Innovate Vocational HS

- Expand 'Specialized HS' providing customized VET programs
- Reform Vocational HS curriculum emphasizing core competencies
- Introduce 'Comprehensive HS' providing both General and Vocational Programs

#### Work-to-School

- Reorganize colleges and universities as 'LLL Centers' for the community

- Innovate higher ed. system to help workers learn anytime, any where(ubiquitous learning system)

#### School-to-Work

- Enhance career guidance in HS
- Help students' ready-to-work through 'apprenticeship and internship'

### VI-3 Revamp the Role of Government

- O Deregulation
  - Input Control  $\Rightarrow$  Performance Control
- O Decentralization
  - Gov't-driven ⇒ School-based Management
- O Dissemination
  - No Choice  $\Rightarrow$  Choice with information
- Quality Assurance
  - Set up Quality Assurance System with School Improvement Planning and Performance Evaluation
- → Reshape Ministerial Committee on HRD
  - Role as a "Prosumer" in HRD Policies
  - Enhance the efficiency of HRD programs through evaluation

## Thank You !

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