Seminar on higher education at the King Faisal Centre for Research and Islamic Studies, Riyadh, Kingdom of Saudi Arabia, 29 January 2005.

Higher Education in Japan - The past, the present and the future -



Research Institute for Higher Education (RIHE)

Jun Oba Research Institute for Higher Education Hiroshima University, Japan

oba@hiroshima-u.ac.jp

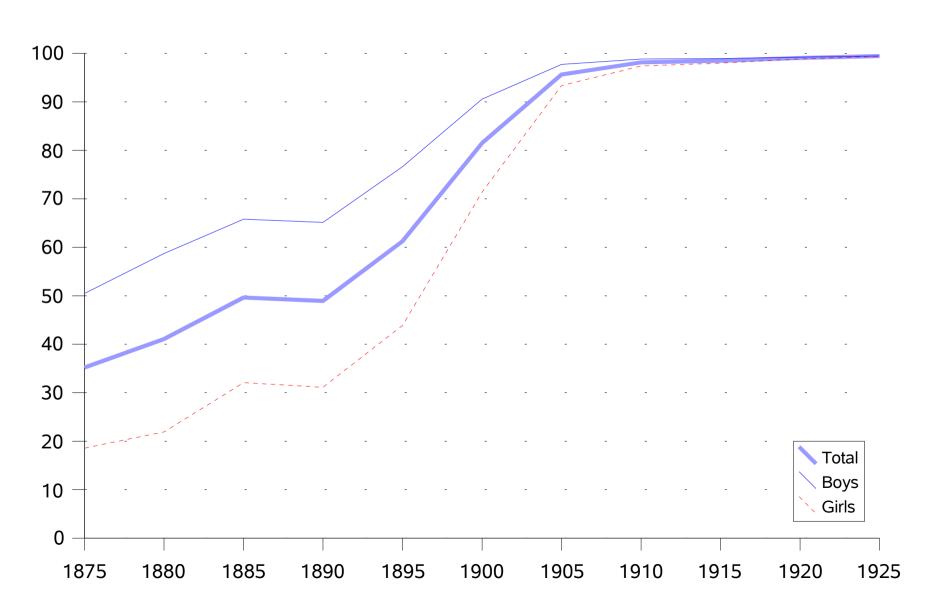
Contents

- I Education system in Japan
- II Higher education in Japan History
- III Higher education reform in Japan Towards the future
 - 1. The University Council and the deregulation in higher education
 - 2. Diversification of higher education institutions and their programmes
 - 3. Development of human resources in knowledge society
 - 4. Internationalisation of higher education

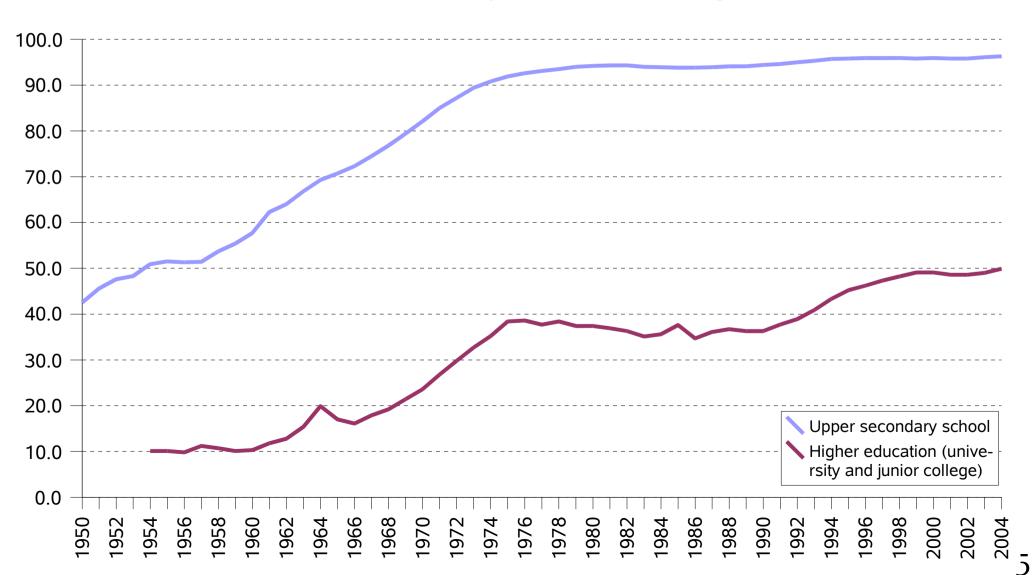
I Education system in Japan

- 1. Development of the modern education system
- Development of *Terakoya* in the Edo period
- Introduction of a modern education system after the Meiji Restoration (1868) - Education System Order (*Gakusei*)
- Generalisation of elementary education for boys and girls at the beginning of the 20th century

Percentage of children in full time elementary education between 1875 and 1925

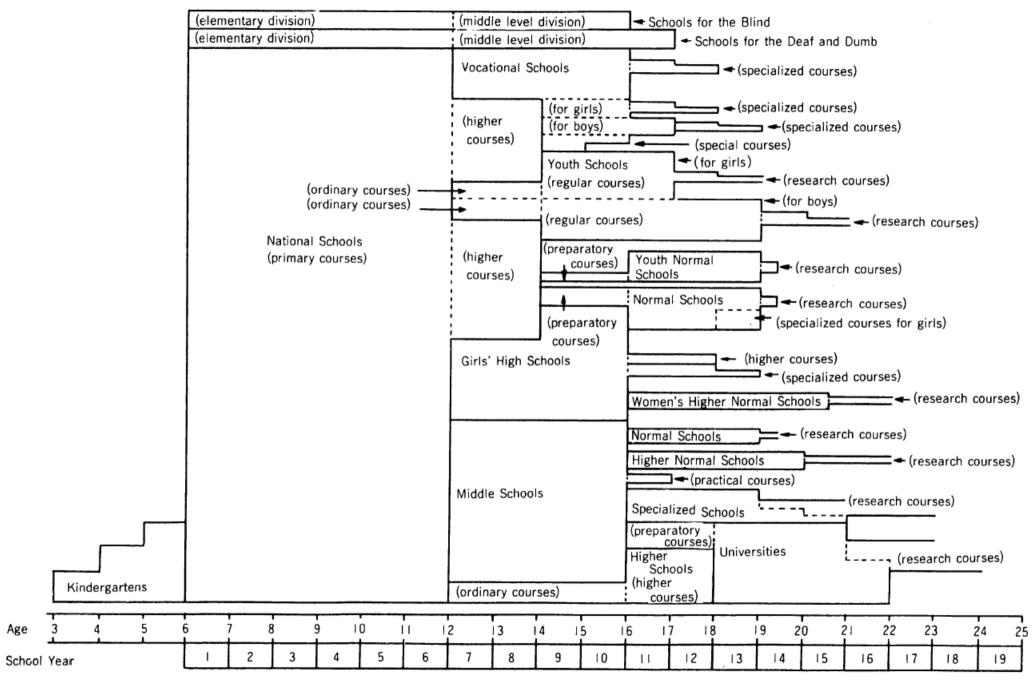


Percentage of students enrolling in upper secondary schools and higher education institutions (universities and junior colleges)



2. Organisation of the school system

- A number of amendments and revisions to the system under the *Gakusei* (School System Order)
- Characteristics of the pre-war school system:
 - a relatively short period of compulsory education, common to all;
 - a multiple track system after that period

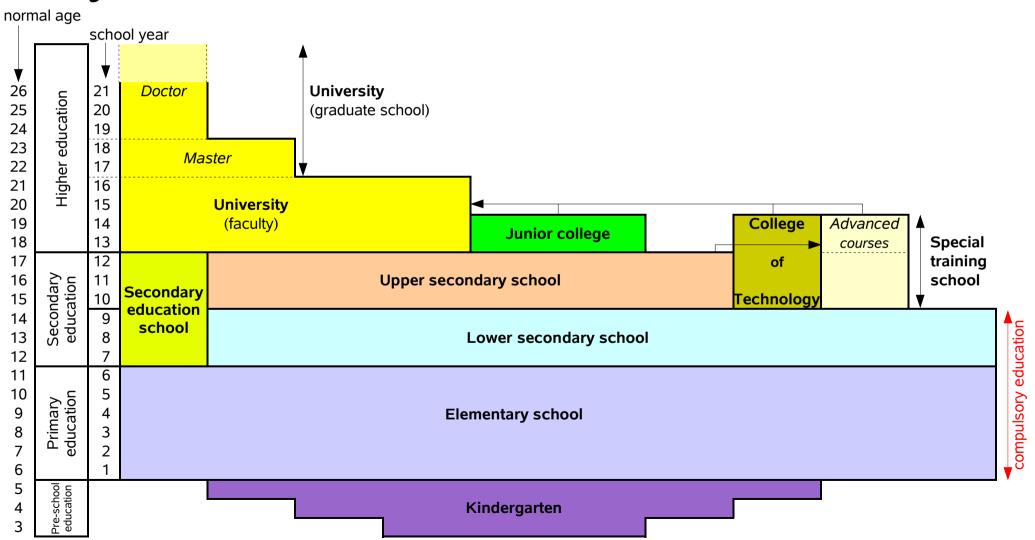


Organisation of the school system in 1944

After World War II

- Entire revision under the occupation
- Nine-year compulsory education
- Unified into a single track system
 - universities being open to every graduate of an uppersecondary school
 - abolition of distinction among higher education institutions

Organisation of the present school system



Number of schools, students and teachers as of 1st May 2004

	Number of schools (private)	Number of students (private)	Number of teachers* (private)
Kindergarten	14,061	1,753,396	109,853
	(8,363)	(1,390,001)	(83,789)
Elementary school	23,420	7,200,929	414,887
	(187)	(69,300)	(3,480)
Lower secondary school	11,102	3,663,512	249,801
	(709)	(236,006)	(12,840)
Upper secondary school	5,429	3,719,048	255,629
	(1,329)	(569,454)	(60,107)
Secondary education school	18	6,051	470
	(9)	(3,355)	(247)
Special education schools (for handicapped children)	999	98,796	62,255
	(12)	(815)	(259)

^{*} full-time only

	Number of schools (private)	Number of students (private)	Number of teachers* (private)
College of technology	63	58,681	4,474
	(3)	(2,296)	(158)
Junior college	508	233,749	12,740
	(451)	(214,264)	(11,082)
University	709	2,809,323	158,756
	(542)	(2,062,065)	(86,683)
Special training school	3,443	791,540	40,675
	(3,228)	(761,735)	(37,902)

^{*} full-time only

A very good performance in primary and secondary education

- Ranking in the OECD's PISA 2000
 - first group for mathematics and science
 - second group for reading
- PISA 2003
 - still in the same groups as the PISA 2000
 - Japan slightly lowered its ranking by country.

PISA 2000: Top 10

	Reading	Mathematics	Science
1	Finland	Japan	South Korea
2	Canada	South Korea	Japan
3	New Zealand	New Zealand	Finland
4	Australia	Finland	UK
5	Ireland	Australia	Canada
6	South Korea	Canada	New Zealand
7	UK	Switzerland	Australia
8	Japan	UK	Austria
9	Sweden	Belgium	Ireland
10	Austria	France	Sweden

PISA 2003: Top 10 and Japan

	Reading	Mathematics	Problem-solving
1	Finland	Finland	South Korea
2	South Korea	Japan	Hong Kong
3	Canada	Hong Kong	Finland
4	Australia	South Korea	Japan
5	Lichtenstein	Lichtenstein	New Zealand
6	New Zealand	Australia	Macao
7	Ireland	Macao	Australia
8	Sweden	Holland	Lichtenstein
9	Holland	Czech Republic	Canada
10	Hong Kong	New Zealand	Belgium

14 <mark>Japan</mark>

II Higher education in Japan - History

- 1. Foundation of modern higher education institutions
- Establishment of the University of Tokyo (later Imperial University, then Tokyo Imperial University) by the government in 1887
- Other imperial universities in major cities

- Characteristics of these institutions
 - Governmental institutions
 - Organised on the continental European model (especially Germanic)
 - Bureaucratic system with quasi-autonomous academic units (faculties)

Other institutions

- Governmental institutions other than imperial universities
- Local public institutions
- Private institutions
- Specialised School Order in 1903
- University Order in 1918
 - acknowledgement of the university status to non-governmental institutions

Number of higher education institutions as of 1943

	Universities [imperial universities]	Specialised Schools	Total
Governmental (national)	19 [7]	58	77
Local public	2	24	26
Private	28	134	162
Total	49 [7]	216	275

Characteristics of pre-war higher education

- Well-organised bureaucratic administration system in governmental institutions
- Coexistence of the three sectors of higher education institutions governmental (national), local public and private
- Absolute priority to the national institutions, especially the imperial universities

After the war (as of 1949)

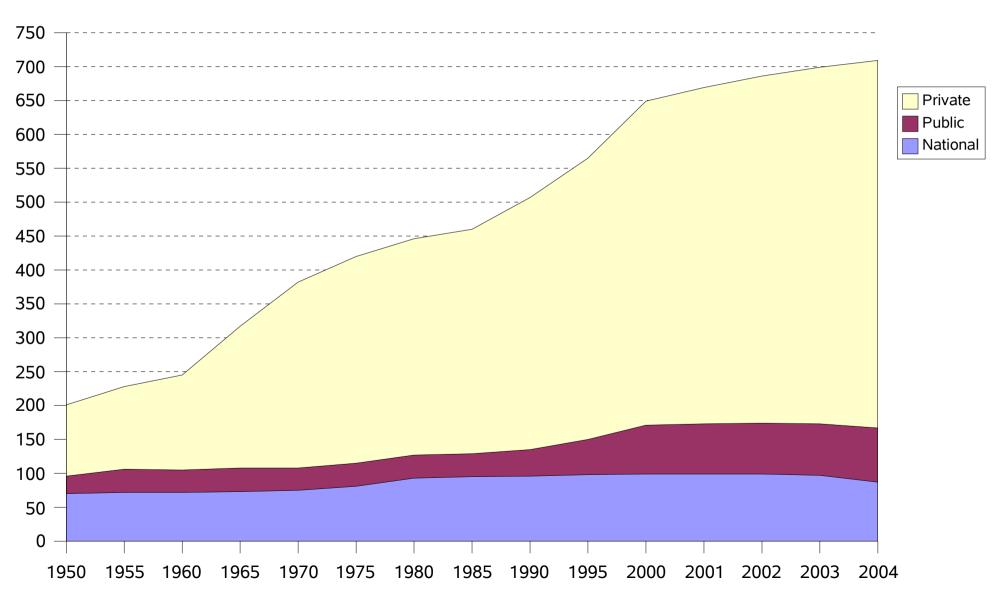
- 70 national universities without difference in legal status among them
- 17 local public universities
- 81 private universities
- Junior colleges (regarded as provisional)

2. The expansion of higher education and its decline

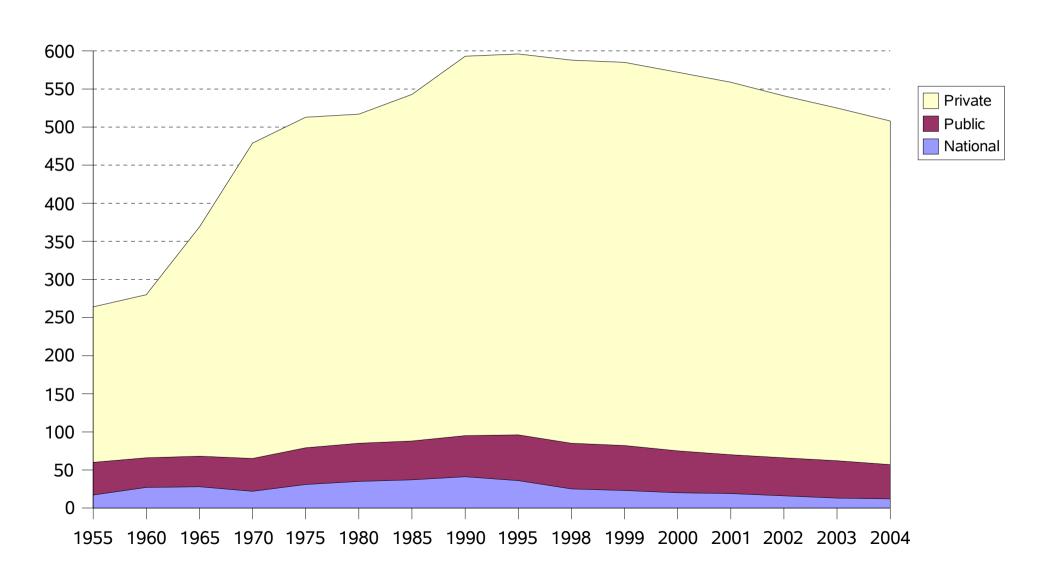
- Rapid growth of higher education in the 1960s and early 1970s
- Number of institutions
 - 1960 : 245 universities and 280 junior colleges
 - 1975 : 420 universities and 513 junior colleges
- Multiplication of students from 1960 to 1975
 - Universities: 2.77 times
 - Junior colleges : 4.28 times

- Enrolment ratio (of the age cohort)
 - 10.3% in 1960
 - 38.4% in 1975

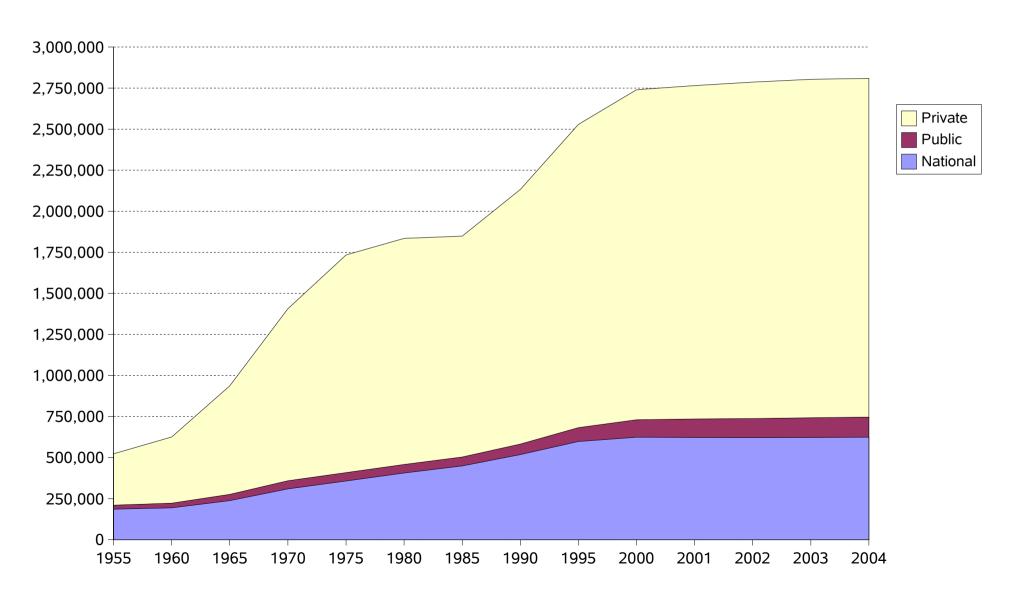
Number of universities by sector



Number of junior colleges by sector



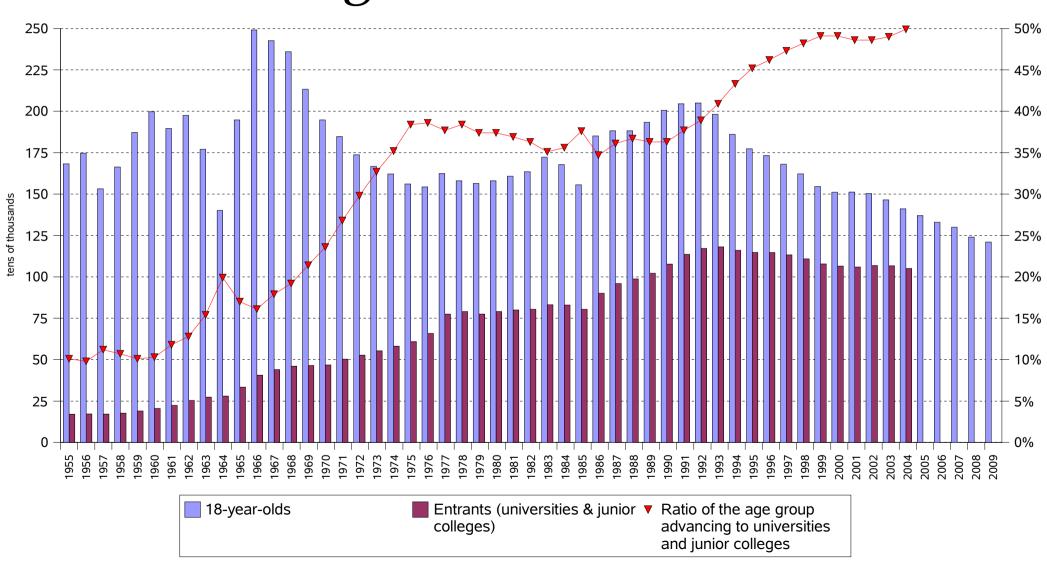
Students enrolment in universities



Second expansion in the 1980s and early 1990s

- Number of universities
 - 1980 : <u>446 universities</u> (93 national, 34 public and 319 private)
 - 1995 : <u>565 universities</u> (98 national, 52 public and 415 private)
 - 2004 : <u>709 universities</u> (87 national, 80 public and 542 private)

Trends in 18-year-old population and access to higher education



III Higher education reform in Japan– Towards the future

- 1. The University Council and the deregulation in higher education
- Discussion at the National Council on Educational Reform (*Rinjikyoikushingikai*)
- Establishment of the University Council in 1987

- Progress in scientific research and changes in human resources;
- Rise in the percentage of students continuing to higher education and diversification of students;
- Growing need for lifelong learning and rising social expectations of universities.

Abolition of subject areas

- structure curricula reflecting their own educational ideals and objectives
- no definition of subject areas, such as general education and specialised education
- no requirement on obtaining a certain number of credits in each subject area (acquisition of a minimum total number of credits only)

1998 Report "A Vision for the University of the 21st Century and Future Reform Measures : Distinctive Universities in a Competitive Environment"

- Improve the quality of education and research with the purpose of nurturing the ability to investigate issues;
- Secure university autonomy by making the educational and research system structure more flexible;
- Establish university administration and management with responsible decision-making and implementation; and
- Individualise universities and continuously improve their education and research by establishing multiple evaluation systems.

2002 revision of the School Education Law

- More flexibility for a reorganisation of faculties and departments
- Introduction of a continual third-party evaluation system

2. Diversification of higher education institutions and their programmes

- Universal phase
 - Enrolment ratio : 49.1% in 1999
 - Over 50% in 1987, if non-university sector included

cf. Three phases of higher education system defined by M. Trow

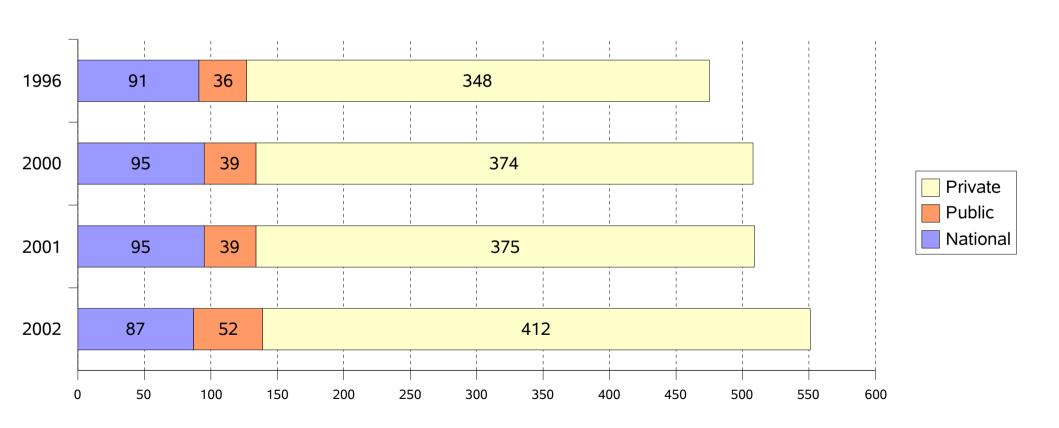
	Elite	Mass	Universal
Enrolment ra- tio	Under 15%	Between 15 and 50%	Over 50%
Attitude to- wards access	Privilege	Right	Obligation

- Definite abandonment of the planned higher education policy
- Acceleration of diversification of higher education institutions

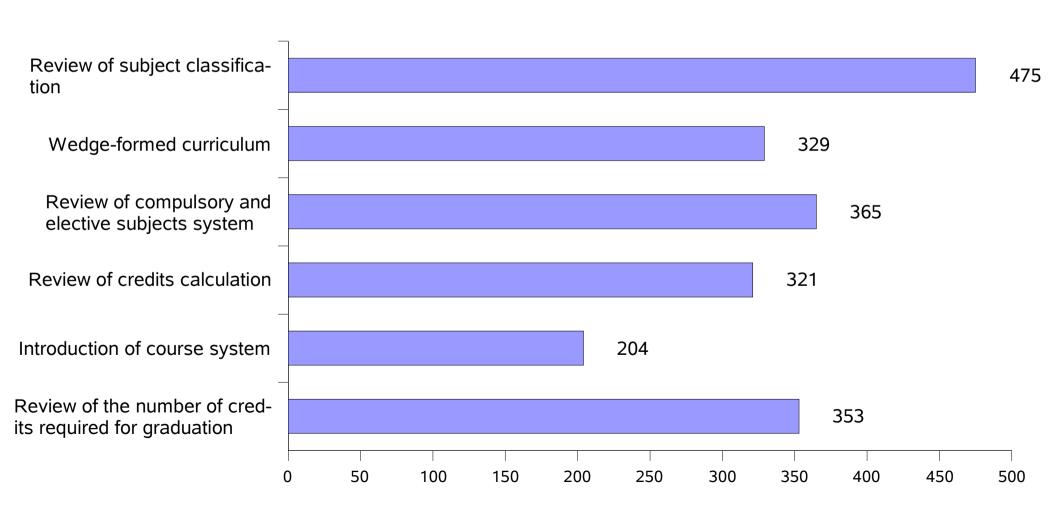
Incorporation of national universities in 2004

- Change in the status of the governmental institutions
- Legal personality and more autonomy
- Non-public servant status for staff
- Participation of external people in university administration

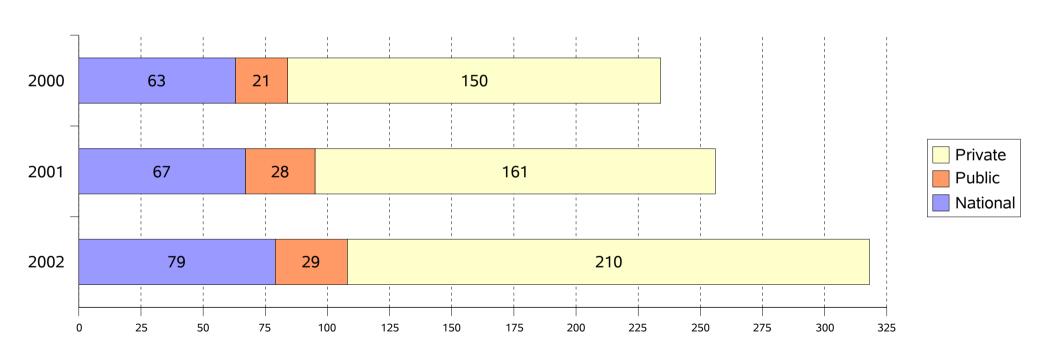
Number of universities that implemented curriculum reform



Implementation of curriculum reform in universities (2001)



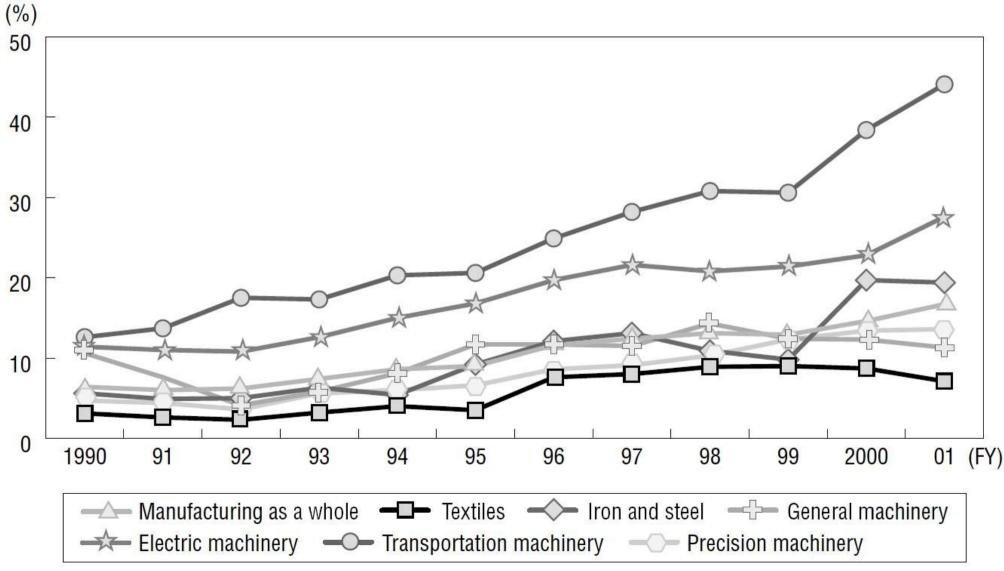
Number of universities that open classes taught in foreign language



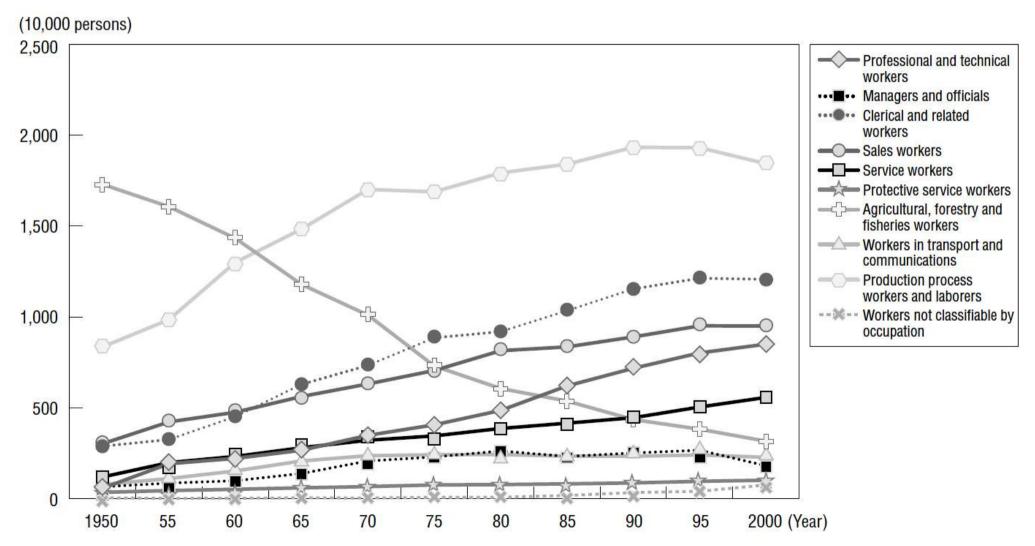
3. Development of human resources in knowledge society

- Knowledge: key to the development
- Lifelong learning
- Adult students

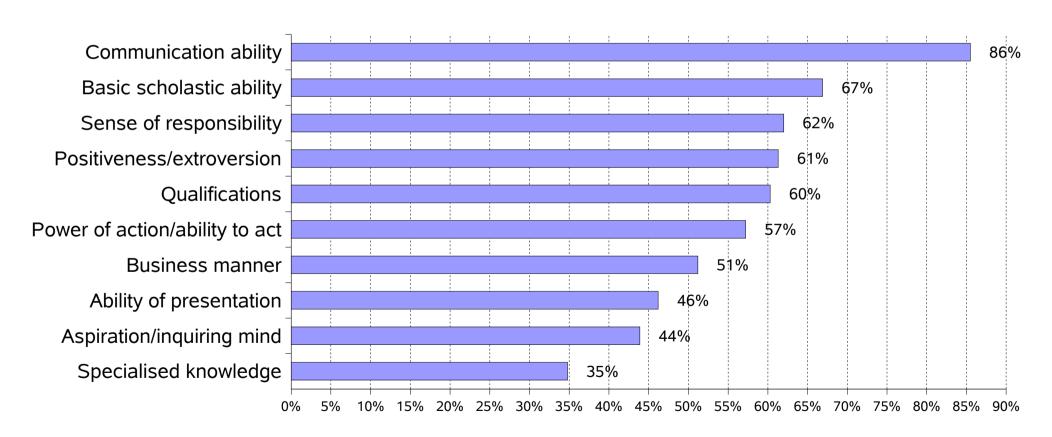
Japan's foreign production ratio by industry



Number of employees by occupational classification

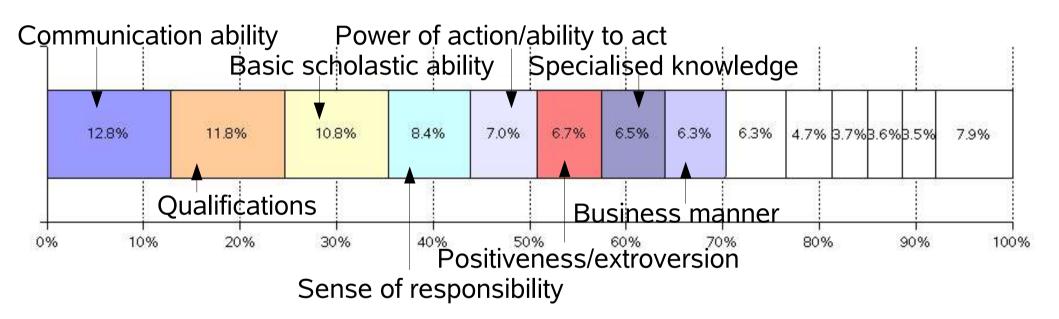


Factors regarded as most important by employers for recruitment



Source: Ministry of Health and Labour (2004)

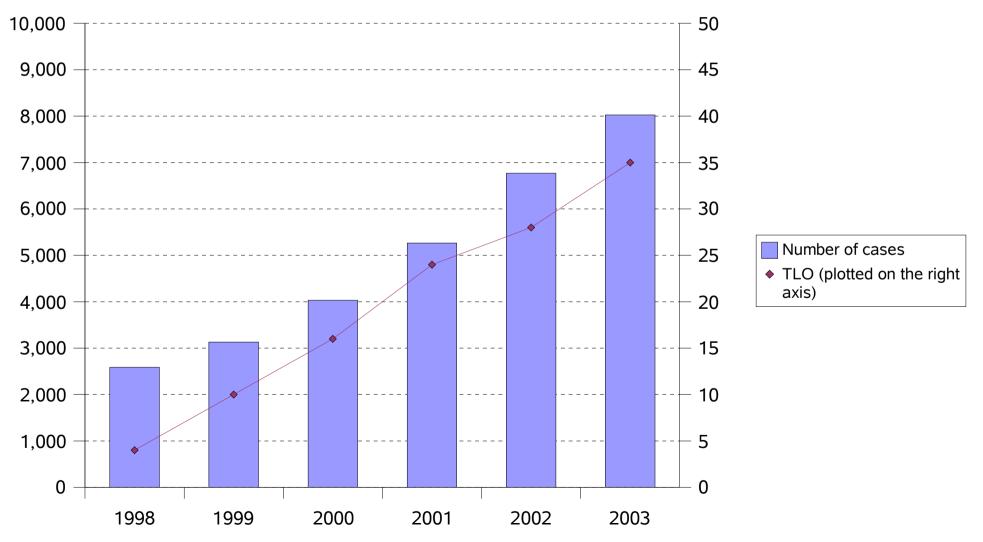
Factors contributing to employment as percentage



Remaining factors (from left to right)

Ability of presentation	6.3%
Aspiration/inquiring mind	4.7%
Problem-finding ability	3.7%
Professionalism/attitude toward work	3.6%
Flexibility/adaptability to environment	3.5%
Other factors	7.9%

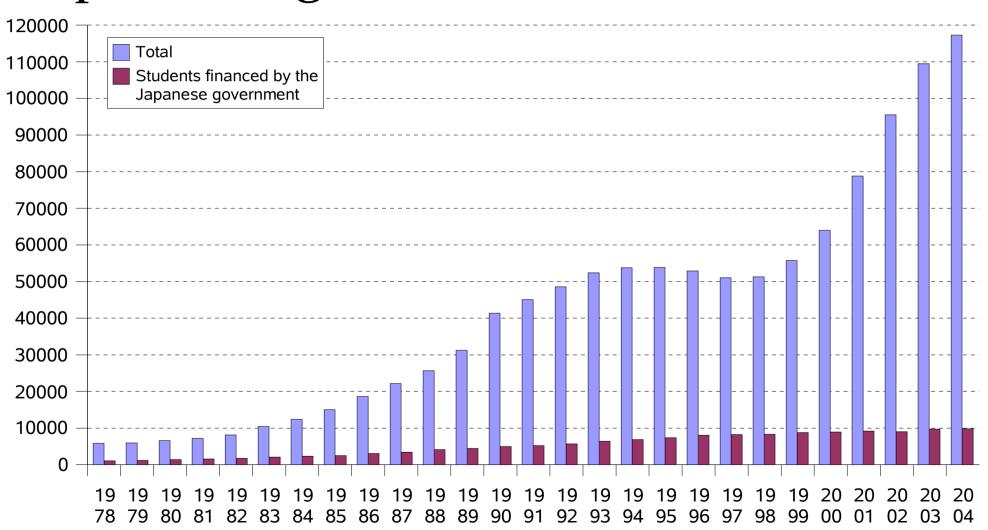
Number of cases of co-operative research implemented between national universities and the industry / Number of the TLO recognised by the Government



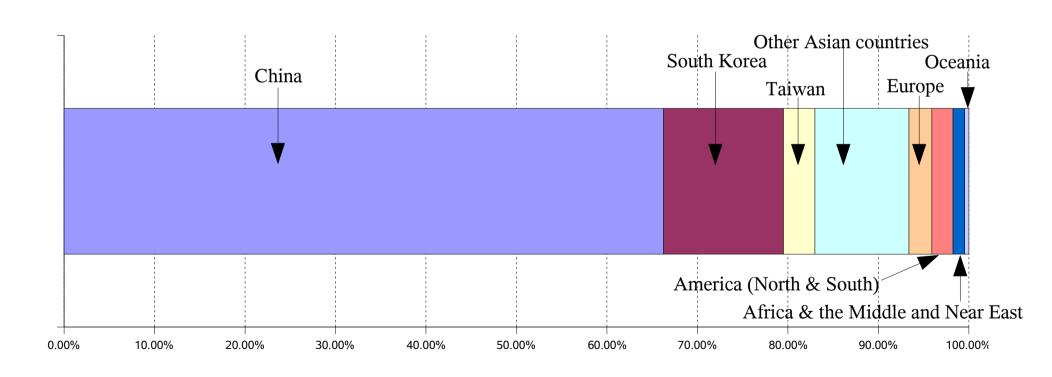
4. Internationalisation of higher education

- Nakasone Plan in 1987
 - More than 100,000 international students in Japan before 21st century

Number of international students in Japanese higher education institutions



Breakdown of the international students by their region of origin (2004)



- Revision of the legislation concerning the foreign universities in Japan
 - Temple University Japan (USA)

Closing remarks

- Three major factors for HE reform
 - diversification in students
 - changes in the demand for human resources
 - increased reliance of industry on academic research activities
- Deregulation of higher education
 - diversification of institution
 - increased autonomy
 - more responsiveness to society

- Differentiation of HE institutions
- Continual university reform by academics