

# Current Situation of National Universities in Japan



(Date of update: September. 5, 2013)

The Japan Association of National Universities

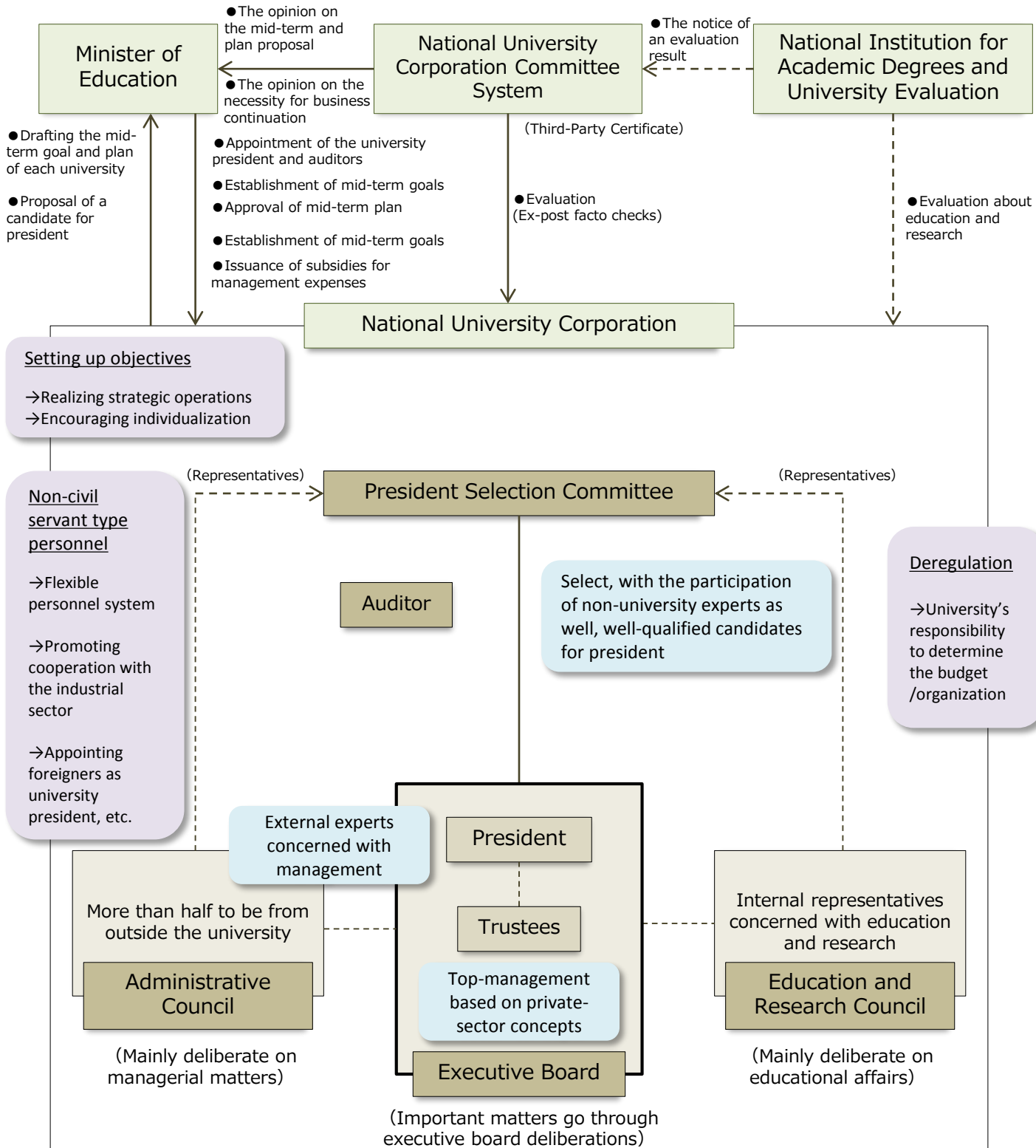
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Member Universities of the JANU

# 1. About national university corporations

## National University Corporation System



Source: Ministry of Education, Culture, Sports, Science & Technology in Japan (MEXT)

# Transformation of national universities into national university corporations

## Direction of Reform

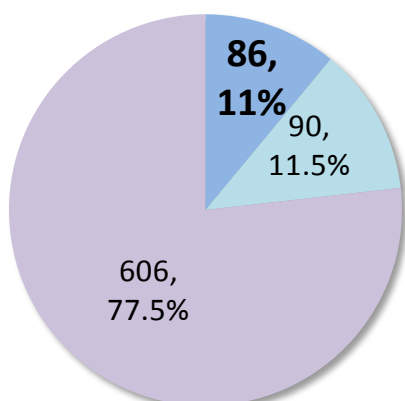
- National universities positioned as state institutions for 130 years shall obtain the status as independent "national university corporations" to the following effects:
  - (1) Further vitalization of national universities in a self-supportive environment,
  - (2) Promotion of more positive initiatives toward excellent education and characteristic studies, and
  - (3) Realization of national universities with a wide variety of characters and attractiveness.

## Reform Point

- (1) **Status of corporation for each university**
  - Friendly competition among universities is ensured for positive development of attractive education and research activities.
- (2) **Clarification of visions as a university**
  - Medium-term goals provided help respective universities clarify their philosophy and reform direction.
- (3) **Substantial expansion of discretion for universities**
  - Discretion given to universities is greatly expanded through introduction of non-public servant type faculty management and considerable deregulation of state rules and regulations.
- (4) **Establishment of a responsible management system**
  - Establishment of a management system led by the president through deployment of a board of directors including off-campus directors.
- (5) **Participation of off-campus well-informed personalities in management of the university**
  - Off-campus persons with wisdom and knowledge directly participate in management as directors or management council commissioners.
- (6) **Evaluation and all-out information disclosure**
  - Implementation of third party evaluation and thorough information disclosure help carry out accountability.

# 2. Institutions & Enrollment

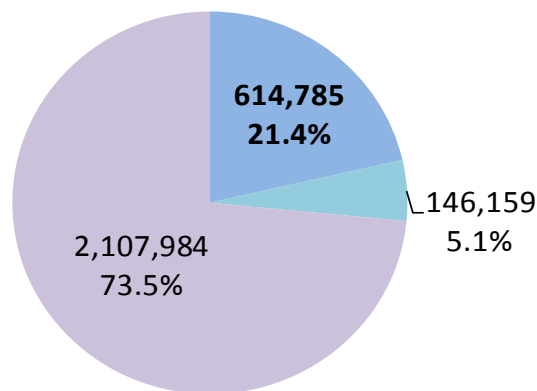
## ● Institutions JFY2013



■ National ■ Public ■ Private

Source : MEXT School Basic Survey 2013 (QE)

## ● Enrollments JFY2013



■ National ■ Public ■ Private

NOTE: including both special training course and special university course

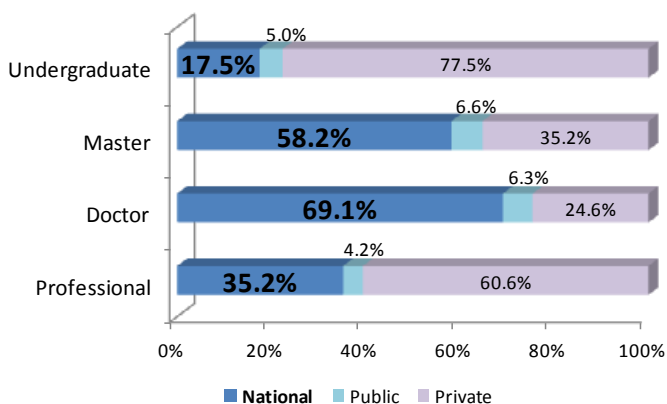
Source : MEXT School Basic Survey 2013(QE)

## ● Trend : Institutions & Enrollment

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
institutions	Total	709	726	744	756	765	773	778	780	783	782
	<b>National</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>	<b>86</b>
	Public	80	86	89	89	90	92	95	95	92	90
	Private	542	553	568	580	589	595	597	599	605	606
Enrollment	Total	2,809,295	2,865,051	2,859,212	2,828,708	2,836,127	2,845,908	2,887,414	2,893,434	2,875,828	2,868,928
	Female	1,100,839	1,124,900	1,127,474	1,126,751	1,140,755	1,158,390	1,185,580	1,200,182	1,206,134	1,216,014
	<b>National</b>	<b>624,389</b>	<b>627,850</b>	<b>628,947</b>	<b>627,402</b>	<b>623,811</b>	<b>621,800</b>	<b>625,048</b>	<b>623,304</b>	<b>618,134</b>	<b>614,785</b>
	Female	212,786	213,240	213,006	213,176	211,628	211,706	212,913	211,987	210,569	202,987
	Public	122,864	124,910	127,872	129,592	131,970	136,913	142,523	144,182	145,578	146,159
	Private	2,062,042	2,112,291	2,102,393	2,071,714	2,080,346	2,087,195	2,119,843	2,126,003	2,112,422	2,107,984

Source : MEXT School Basic Survey

## ● Students by course JFY2013



■ National ■ Public ■ Private

	Undergraduate	Master	Doctor	Professional
Total	2,562,164	162,694	73,920	18,776
Female	1,113,841	48,659	24,408	5,335
<b>National</b>	<b>447,974</b>	<b>94,668</b>	<b>51,063</b>	<b>6,609</b>
<b>Female</b>	<b>160,050</b>	<b>24,930</b>	<b>16,029</b>	<b>1,987</b>
Public	127,144	10,685	4,682	794
Private	1,987,046	57,341	18,175	11,373

Source : MEXT School Basic Survey 2013(QE)

# 3. Faculty and Staff

## ● Faculty JFY2013

	Total	National		Public	Private
		(Male)	(Female)		
Full-Time Total	178,810	63,218	9,225	13,012	102,580
President	749	86	3	84	579
Vice-President	1050	347	15	101	602
Professor	68,821	21,597	1,822	4,438	42,786
Associate Professor	42,582	18,010	2,639	3,624	20,948
Lecturer	20,291	4,908	936	1,709	13,674
Assistant professor	39,530	17,637	3,450	2,692	19,201
Assistant	5,787	633	360	364	4,790

Source : MEXT School Basic Survey 2013(QE)

## ● Staff JFY2013

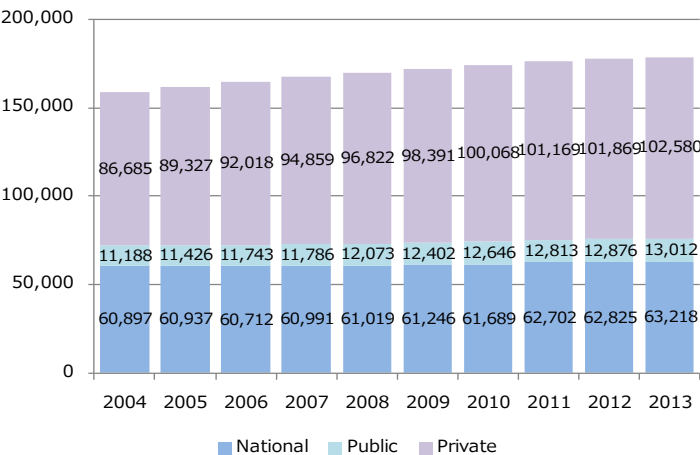
	Total	National		Public	Private
		(Male)	(Female)		
Total	219,828	71,509	43,426	14,347	133,972
Administrative	82,483	25,253	9,521	4,563	52,667
Technical	9,126	6,896	1,387	211	2,019
Medical/Nursing	119,705	38,494	32,273	9,125	72,086
Instructional	4,522	498	174	190	3,834
Others	3,992	368	71	258	3,366

Note:excluding Part-time

Source : MEXT School Basic Survey 2013(QE)

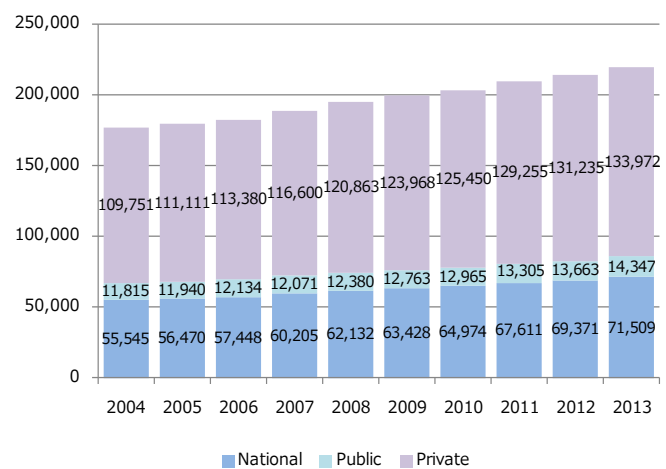
## ● Trend : Faculty and Staff 2004-2013(QE)

### Faculty



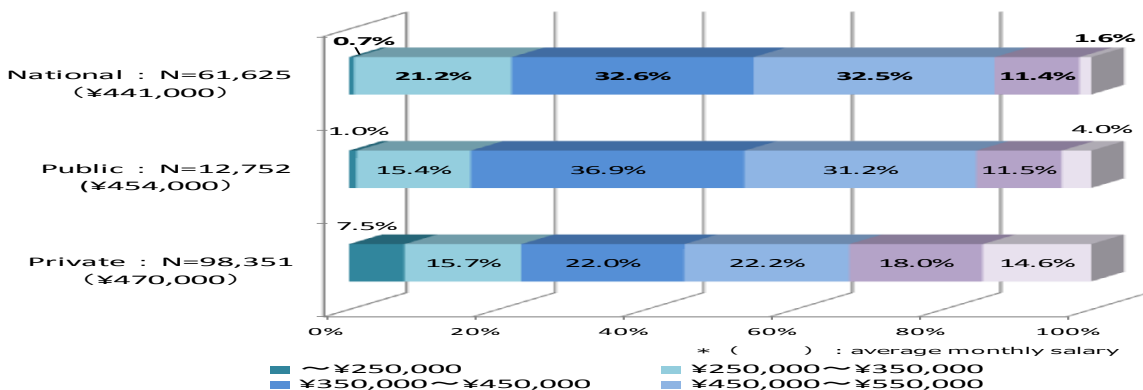
Source : MEXT School Basic Survey 2013(QE)

### Staff



Source : MEXT School Basic Survey 2013(QE)

## ● Faculty salaries JFY2010



# 4. Admission & Student life

## ● Admission data (National Universities Total)

	2012			2011			2010		
	Number of Successful Applicants	Applicants	Ratio	Number of Successful Applicants	Applicants	Ratio	Number of Successful Applicants	Applicants	Ratio
	A	B	B/A	A	B	B/A	A	B	B/A
Humanities · Social Science	20,010	85,289	4.3	20,036	90,228	4.5	20,044	91,805	4.6
Science · Engineering	31,963	133,700	4.2	31,968	133,475	4.2	31,606	125,171	4.0
Agriculture · Mercantile Marine	5,375	24,664	4.6	5,255	23,453	4.5	5,456	22,448	4.1
Medical · Dental	7,476	46,672	6.2	7,476	45,393	6.1	7,559	41,759	5.5
Pharmacy · Nursing	1,118	5,921	5.3	1,108	5,121	4.6	1,158	4,794	4.1
Education & Teacher Training	11,973	54,039	4.5	11,999	55,688	4.6	12,071	55,845	4.6
Others*	2,814	17,213	6.1	2,805	17,459	6.2	2,805	18,587	6.6
<b>Total</b>	<b>80,729</b>	<b>367,498</b>	<b>4.6</b>	<b>80,647</b>	<b>370,817</b>	<b>4.6</b>	<b>80,699</b>	<b>360,409</b>	<b>4.5</b>

Note : Others include *Information Science*, *gymnastics* and so on  
Source : MEXT Press Release (February 17, 2012)

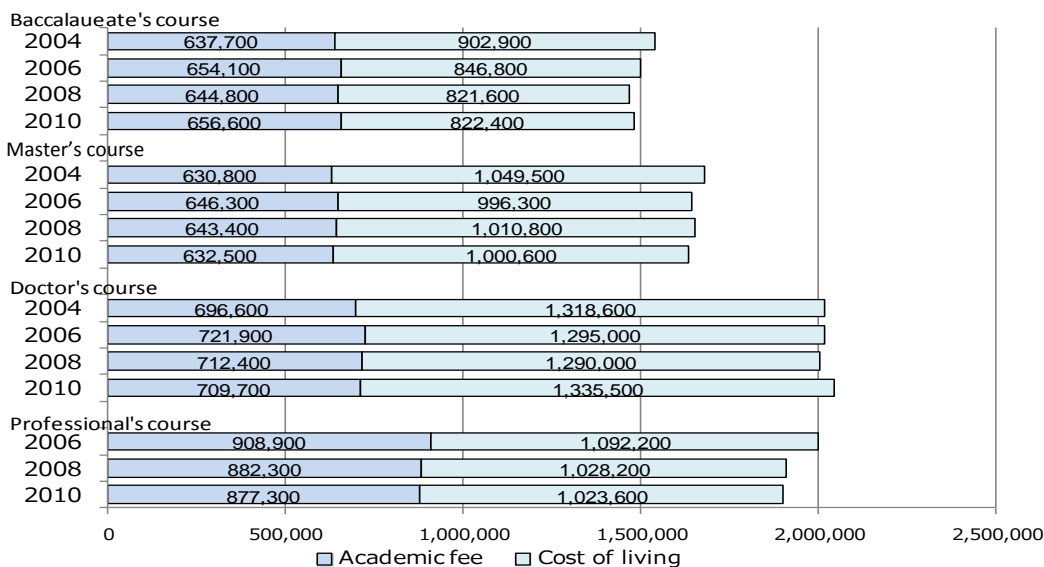
## ● Tuition

Category	Amount*(standard)
Tuition	¥535,800
Admission fee	¥282,000
Examination fee	Undergraduate ¥17,000
	Graduate ¥30,000

Note : This is the standard amount regulated by government.  
Each national university corporation can charge their own tuition amount capped 20% more or less the standard amount.

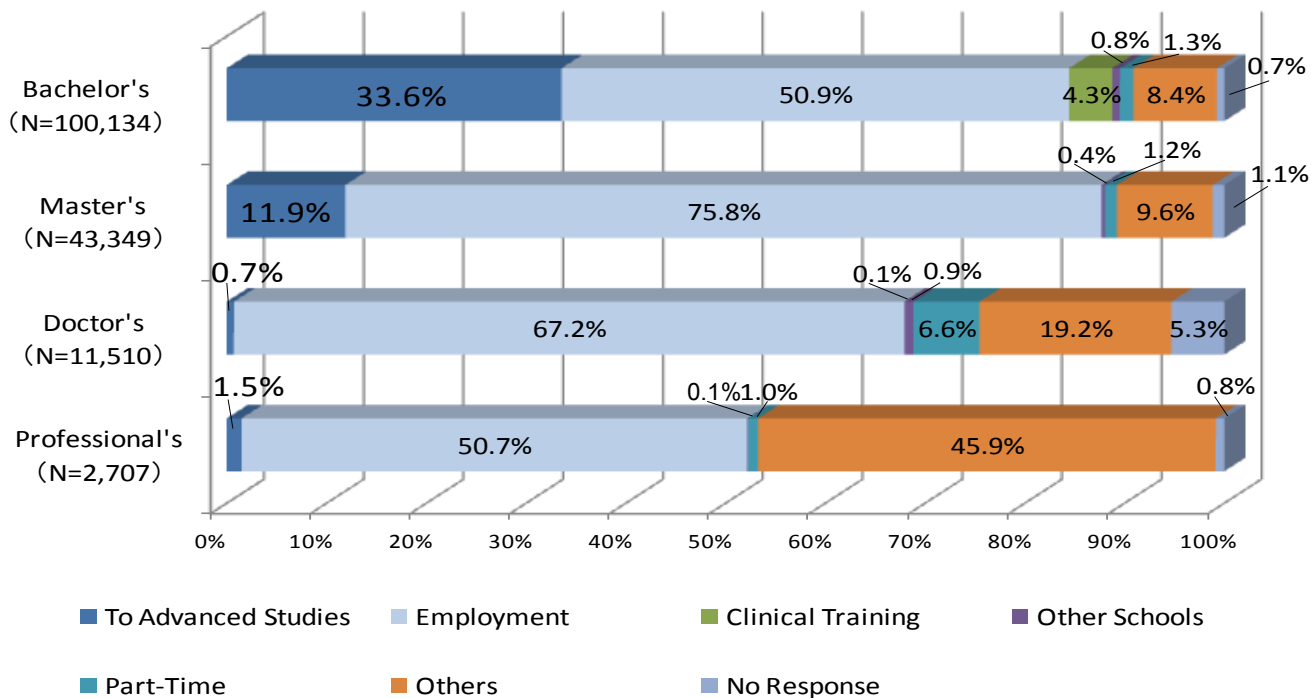
Source : MEXT Press Release (May 7, 2010)

## ● Spending



# 5. Carrier

## ●Carrier by type of course (Graduate, March 2013)



	To Advanced Studies	Employment	Clinical Training	Other Schools	Part-Time	Others	No Response	計
Bachelor's degrees	33,619	50,957	4,317	783	1,352	8,385	721	100,134
Master's degrees	5,161	32,860	—	152	510	4,168	498	43,349
Doctor's degrees	83	7,736	1	105	763	2,214	608	11,510
Professional's degrees	40	1,373	—	2	27	1,242	23	2,707

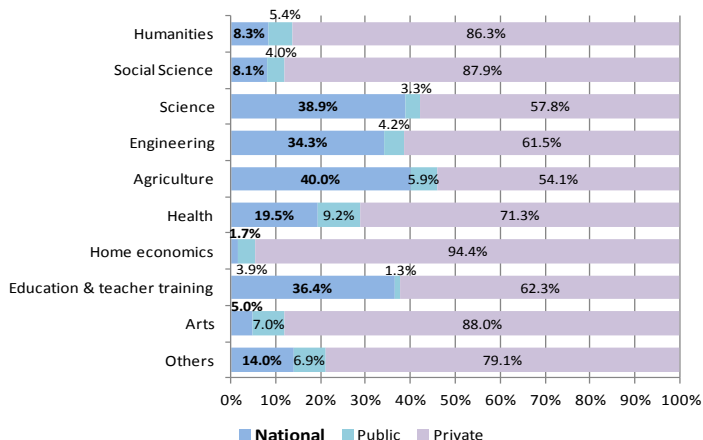
Source : MEXT School Basic Survey 2013(QE)



# 6. Education

## ● Students by field of study

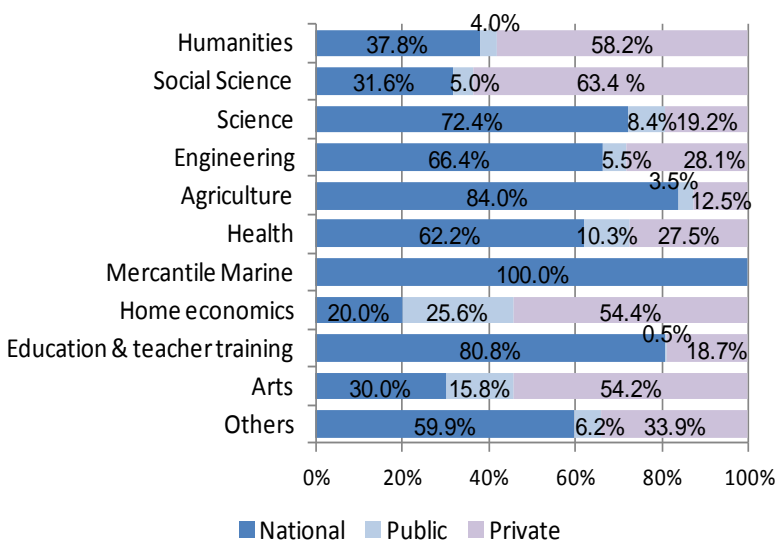
### Undergraduate JFY2013



	Humanities	Social Science	Science	Engineering	Agriculture
<b>National</b>	<b>31,334</b>	<b>68,608</b>	<b>31,298</b>	<b>133,601</b>	<b>30,273</b>
Public	20,398	34,124	2,685	16,471	4,497
Private	325,421	745,965	46,509	239,735	40,954
	Health	Home economics	Education & teacher training	Arts	Others
<b>National</b>	<b>57,215</b>	<b>1,210</b>	<b>66,871</b>	<b>3,510</b>	<b>24,065</b>
Public	27,018	2,759	2,376	4,929	11,887
Private	209,061	67,554	114,540	61,698	135,609

Source : MEXT School Basic Survey 2013(QE)

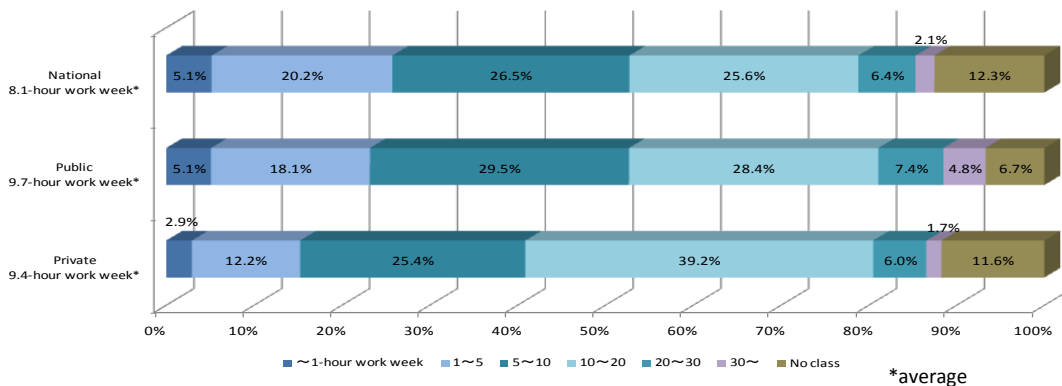
### Graduate JFY2012



	Humanities	Social Science	Science	Engineering	Agriculture	Health
<b>National</b>	<b>7,238</b>	<b>13,067</b>	<b>14,093</b>	<b>56,260</b>	<b>10,970</b>	<b>23,215</b>
Public	770	2,059	1,633	4,629	450	3,841
Private	11,148	26,266	3,747	23,778	1,635	10,268
	Mercantile Marine	Home economics	Education & teacher training	Arts	Others	
<b>National</b>	<b>75</b>	<b>252</b>	<b>11,727</b>	<b>1,519</b>	<b>16,352</b>	
Public	—	323	79	800	1,692	
Private	—	686	2,715	2,741	9,261	

Source : MEXT School Basic Survey 2012

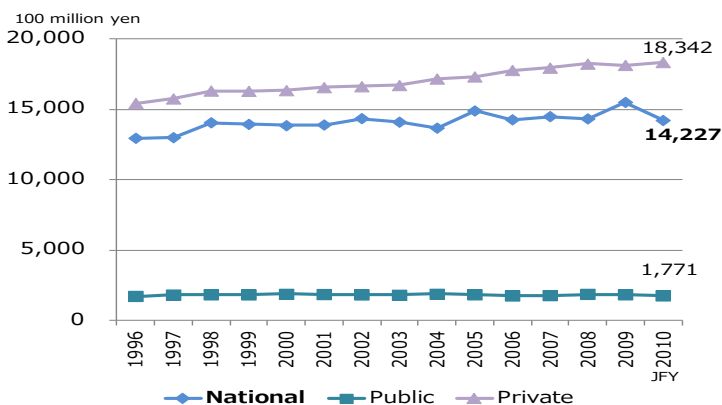
## ● Units of teaching load per week by type of Institutions JFY2010



\*average

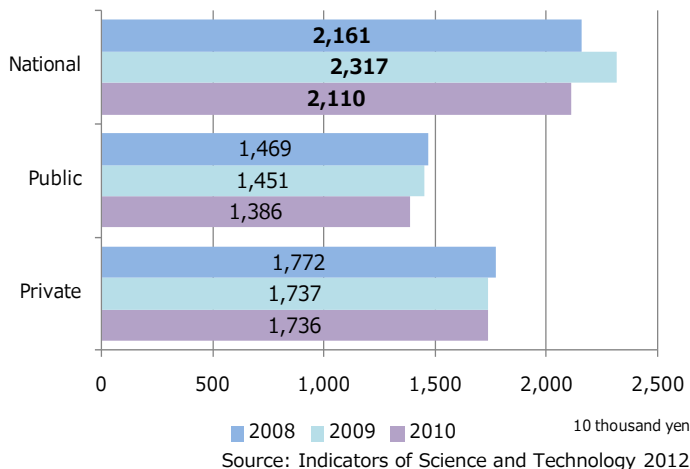
# 7. Research

## ● Universities expenditure on R&D



Source: Indicators of Science and Technology 2012

## ● R&D expenditures per teacher at universities



Source: Indicators of Science and Technology 2012

## ● R&D expenditures by organization and science JFY2010

	Total	National	Public	Private
Total	3,433,979	<b>1,422,721</b>	177,083	1,834,176
Natural sciences and engineering	2,183,807	<b>1,170,484</b>	125,975	887,347
Physical sciences	293,932	<b>241,013</b>	10,650	42,269
Engineering and	761,388	<b>465,135</b>	30,965	265,288
Agricultural	139,626	<b>92,495</b>	10,836	36,296
Medical sciences	988,861	<b>371,842</b>	73,525	543,495
Social sciences and humanities	856,274	<b>129,425</b>	37,751	689,098
Others	393,898	<b>122,812</b>	13,356	257,730

Source: Indicators of Science and Technology 2012

## ● Nobel laureates

Year	Name	Field	Educational Background	Affiliation at the time of the award
1949	Hideki Yukawa	Physics	Kyoto University	Kyoto University / Columbia University
1965	Sin-Ichiro Tomonaga	Physics	Kyoto University	Tokyo University of Education
1968	Yasunari Kawabata	Literature	The University of Tokyo	-
1973	Leo Esaki	Physics	The University of Tokyo	IBM Thomas J. Watson Research Center
1974	Eisaku Sato	Peace	The University of Tokyo	-
1981	Kenichi Fukui	Chemistry	Kyoto University	Kyoto University
1987	Susumu Tonegawa	Physiology or Medicine	Kyoto University	Massachusetts Institute of Technology
1994	Kenzaburo Oe	Literature	The University of Tokyo	-
2000	Hideki Shirakawa	Chemistry	Tokyo Institute of Technology	University of Tsukuba
2001	Ryoji Noyori	Chemistry	Kyoto University	Nagoya University
2002	Masatoshi Koshi	Physics	The University of Tokyo	The University of Tokyo
	Koichi Tanaka	Chemistry	Tohoku University	Shimadzu Corp.
2008	Yoichiro Nambu	Physics	The University of Tokyo	Chicago University
	Toshihide Maskawa	Physics	Nagoya University	Kyoto University Yukawa Institute for Theoretical Physics / Kyoto Sangyo University
	Makoto Kobayashi	Physics	Nagoya University	High Energy Accelerator Research Organization
	Osamu Shimomura	Chemistry	Nagasaki University	Boston University
2010	Akira Suzuki	Chemistry	Hokkaido University	Hokkaido University
	Ei-ichi Negishi	Chemistry	The University of Tokyo	Purdue University
2012	Shinya Yamanaka	Physiology or Medicine	Kobe University	Kyoto University / Kyoto University Center for IPS Cell Research and Application

Source: Nobel Prize HP (12/5/2012 accessed)

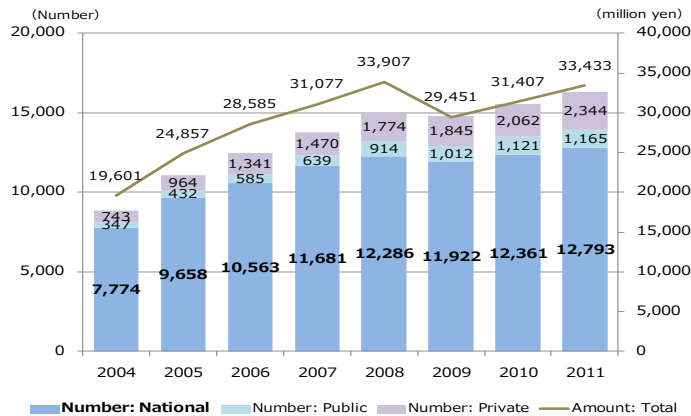
## ● WPI (World Premier International Research Center Initiative)

- AIMR on materials science : **[Tohoku University]**
- IPMU on universe : **[The University of Tokyo]**
- iCeMS on cell biology : **[Kyoto University]**
- IFRc on immunology : **[Osaka University]**
- MANA on nanotechnology : **[National Institute for Material Science]**
- I<sup>2</sup>CNER on energy issues : **[Kyushu University]**
- IIIS on Integrative Sleep Medicine: **[University of Tsukuba]**
- ELSI on Earth-Life Science Institute : **[Tokyo Institute of Technology]**
- ITbM on Transformation Bio-Molecules : **[Nagoya University]**

Source: Mext WPI Initiative HP (12/20/2012 accessed) , White Paper on Science and Technology 2012

# 8. Industry-University-Government cooperation

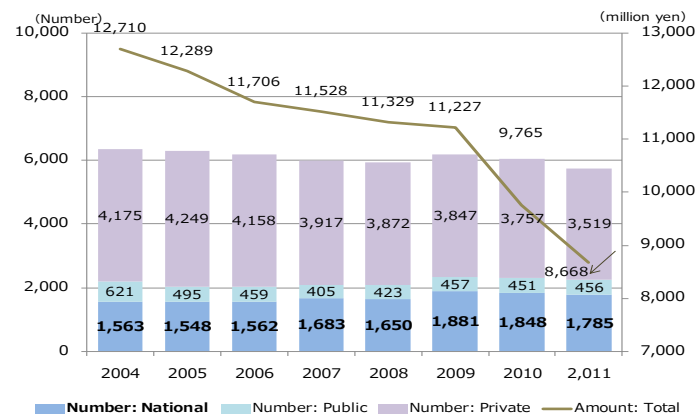
## ● Number & amount of joint research



year	National		Public		Private	
	Number	Amount	Number	Amount	Number	Amount
2004	7,774	16,230	347	613	743	2,758
2005	9,658	20,927	432	888	964	3,042
2006	10,563	23,226	585	1,309	1,341	4,051
2007	11,681	25,651	639	1,137	1,470	4,290
2008	12,286	27,857	914	1,585	1,774	4,464
2009	11,922	24,070	1,012	1,383	1,845	3,998
2010	12,361	25,468	1,121	1,446	2,062	4,493
2011	12,793	26,522	1,165	1,637	2,344	5,274

※Amount : million yen

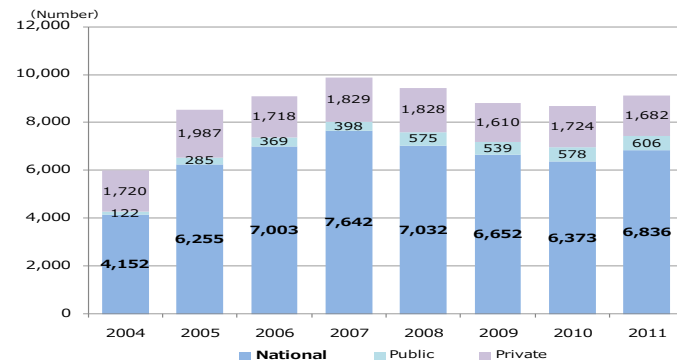
## ● Number & amount of commissioned research



year	National		Public		Private	
	Number	Amount	Number	Amount	Number	Amount
2004	1,563	4,954	621	702	4,175	7,054
2005	1,548	3,970	495	749	4,249	7,570
2006	1,562	3,857	459	819	4,158	7,030
2007	1,683	4,291	405	586	3,917	6,651
2008	1,650	4,299	423	692	3,872	6,338
2009	1,881	4,623	457	885	3,847	5,719
2010	1,848	3,793	451	622	3,757	5,349
2011	1,785	2,874	456	653	3,519	5,141

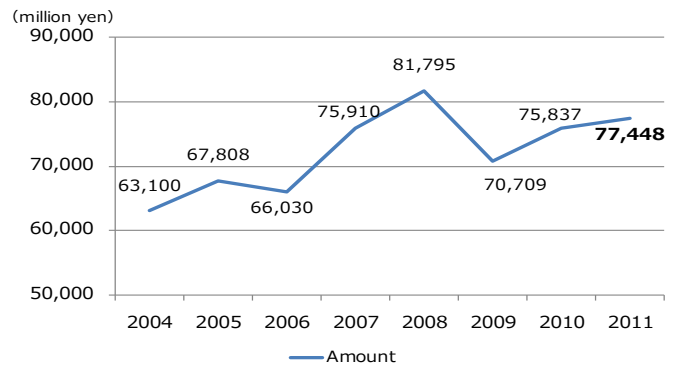
※Amount : million yen

## ● Number of patent application



Year	National		Public		Private	
	domestic	foreign	domestic	foreign	domestic	foreign
2004	3,756	396	115	7	1,214	506
2005	5,349	906	269	16	1,579	408
2006	5,650	1,353	313	56	1,319	399
2007	5,215	2,427	347	51	1,320	509
2008	5,134	1,898	435	140	1,411	417
2009	5,033	1,619	459	80	1,307	303
2010	4,670	1,703	487	91	1,333	391
2011	4,758	2,078	473	133	1,276	406

## ● Amount of contribution in national university



## ● Number and amount of clinical trial

	Number	Amount
Total	67,630	16,633
National	59,866	7,810
Public	1,089	1,463
Private	6,675	7,360

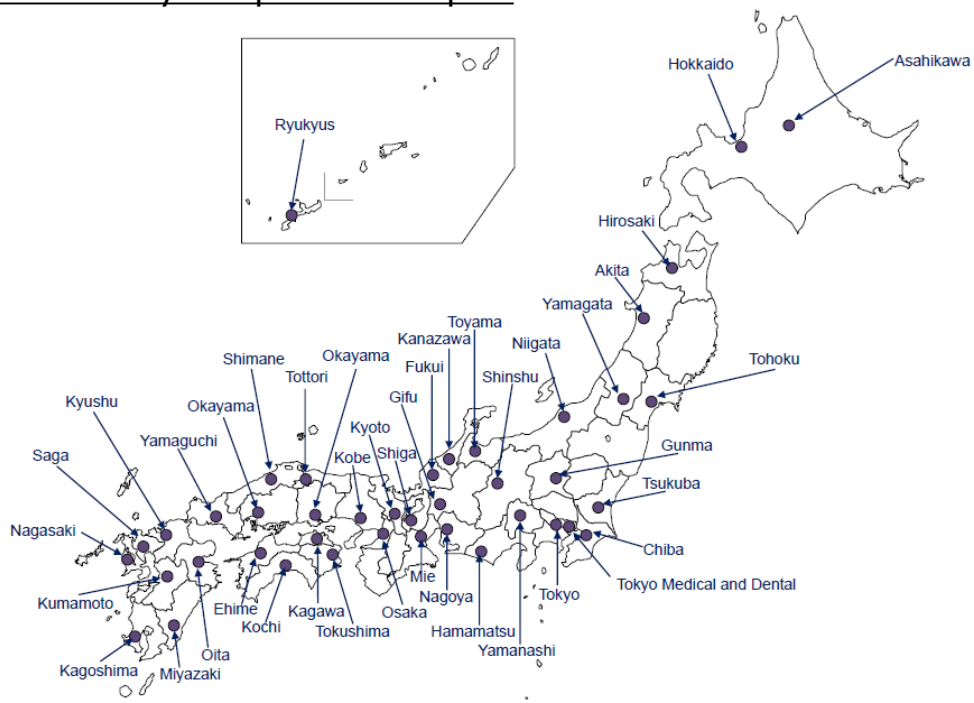
※Amount : million yen

### NOTE

- : 1 The Performance in 2009 resulted in a decrease because of worldwide recession.
- : 2 These data also include National Colleges of Technology and Inter-University Research Institute Corporation.

# 9. Medical services

## ● National university hospitals in Japan



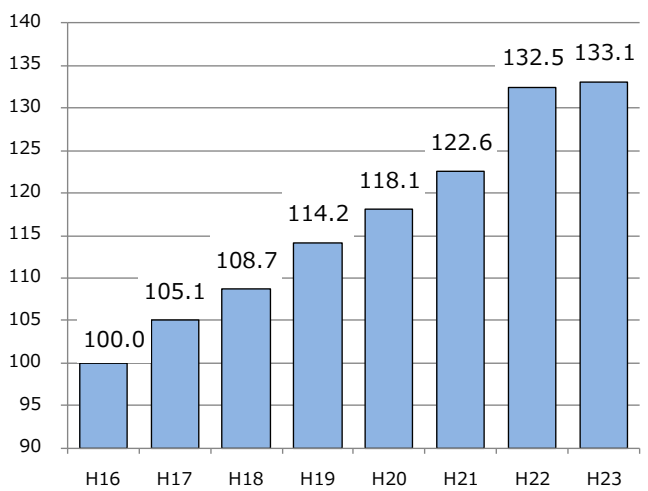
## ● University hospitals in Japan

	National	Public	Private
Number of university which has hospital	42	10	80
Number of hospital bed	32,545	7,855	51,576
Number of full-time doctor	10,405	2,607	18,418
Number of full-time nurse	26,717	6,406	43,123

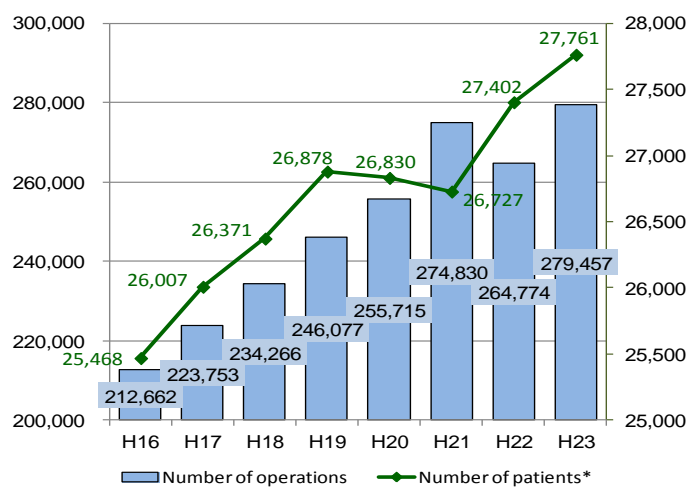
Source : National University Hospital Council on Japan "KoKuritsu Daiigaku no Kongo no Arubeki Sugata wo motomete"(March 2012)

## ● Medical income

(National University Hospitals)



## ● Number of operations and patients

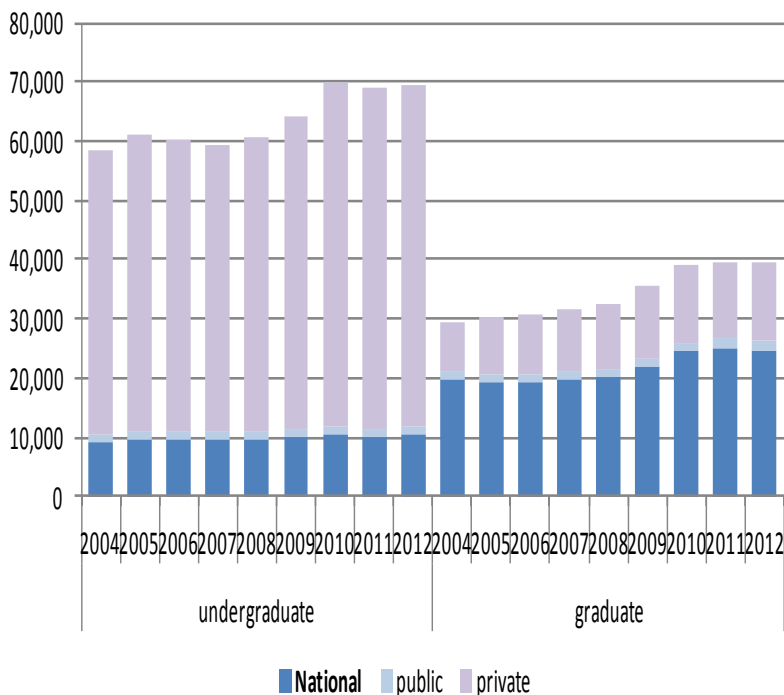


Note \* including inpatients and outpatients

Source : JANU "The Questionnaire Survey on National University Hospital 2012"

# 10. Internationalization

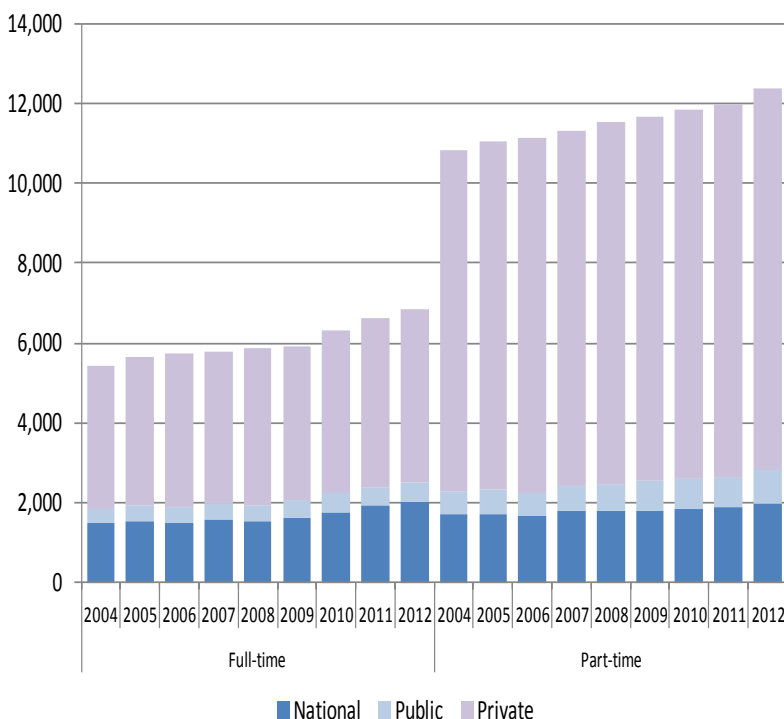
## ● International students



		National	public	private
undergraduate	2004	<b>9,084</b>	1,406	47,834
	2005	<b>9,574</b>	1,384	50,194
	2006	<b>9,668</b>	1,335	49,417
	2007	<b>9,767</b>	1,284	48,459
	2008	<b>9,674</b>	1,302	49,544
	2009	<b>9,907</b>	1,313	53,107
	2010	<b>10,362</b>	1,476	58,183
	2011	<b>9,931</b>	1,495	57,475
	2012	<b>10,293</b>	1,636	57,345
graduate	2004	<b>19,518</b>	1,302	8,694
	2005	<b>19,333</b>	1,312	9,633
	2006	<b>19,264</b>	1,347	10,299
	2007	<b>19,516</b>	1,337	10,739
	2008	<b>20,247</b>	1,316	11,103
	2009	<b>21,884</b>	1,493	12,028
	2010	<b>24,355</b>	1,614	13,128
	2011	<b>24,937</b>	1,713	13,099
	2012	<b>24,680</b>	1,680	13,281

Source : JASSO International students in Japan 2012

## ● International Scholars

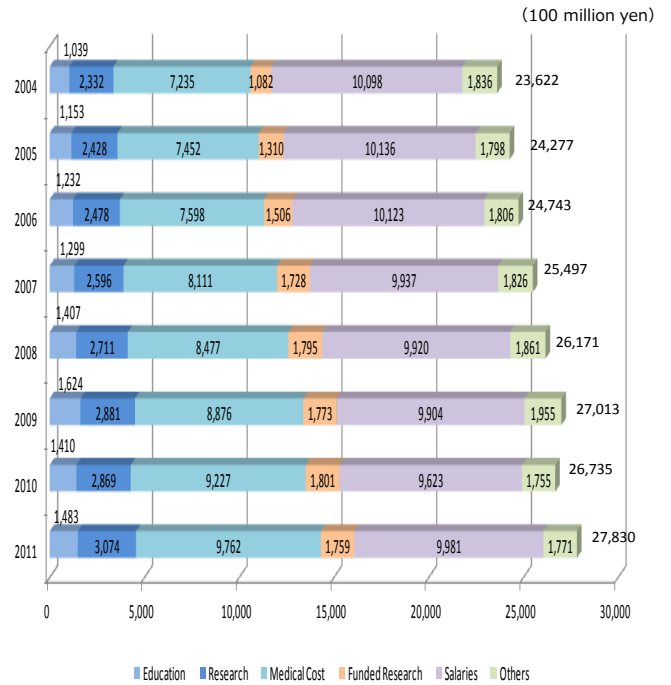
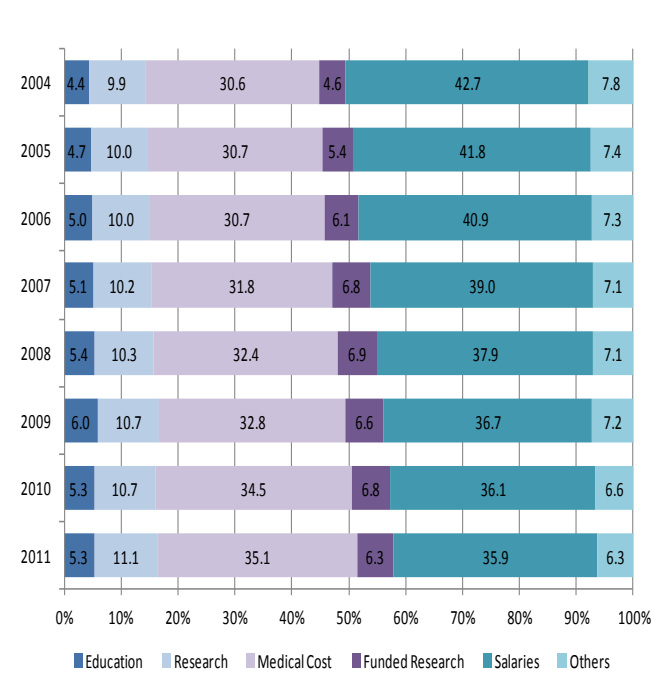


		National	Public	Private
Full-time	2004	<b>1,474</b>	347	3,609
	2005	<b>1,545</b>	375	3,732
	2006	<b>1,503</b>	381	3,851
	2007	<b>1,579</b>	378	3,806
	2008	<b>1,551</b>	386	3,938
	2009	<b>1,638</b>	436	3,857
	2010	<b>1,770</b>	462	4,060
	2011	<b>1,932</b>	448	4,223
	2012	<b>1,997</b>	485	4,353
Part-time	2004	<b>1,726</b>	577	8,531
	2005	<b>1,727</b>	605	8,713
	2006	<b>1,653</b>	599	8,908
	2007	<b>1,801</b>	630	8,885
	2008	<b>1,795</b>	666	9,099
	2009	<b>1,806</b>	729	9,134
	2010	<b>1,843</b>	770	9,258
	2011	<b>1,870</b>	779	9,353
	2012	<b>1,981</b>	827	9,553

Source : MEXT School Basic Survey 2012

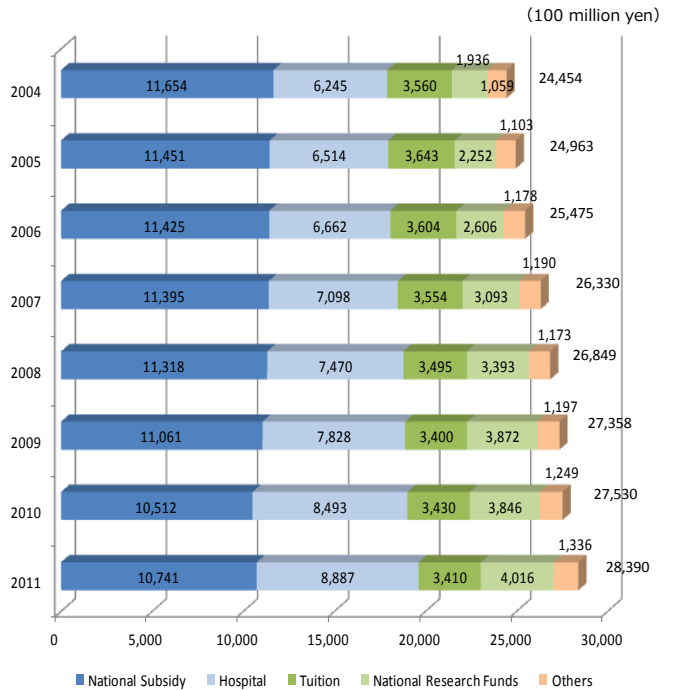
# 1.1. Finance

## ● Expenditure



Source: MEXT Press Release

## ● Revenue



Source: MEXT Press Release



# Member of JANU

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