

Topic 6

The Use of IP Statistics by IP Offices to Plan Their Activities



- Survey on IP Activities -

Increased importance of IP in economic activities

Intensified and diversified IP transactions

To quantitatively understand the activities as statistical information

The Survey of IP-Related Activities

(Conducted since FY2002)

- To know the state of activities of in-house IP departments
- To survey the number of personnel in the IP department and the cost required for activities
- To quantitatively know the state of activities of in-house IP departments which are the key players utilizing IP rights in Japan

- To know the extent that the industrial property system is being used
- To survey prospects for filing applications and requesting examinations of companies, etc.
- To use the results as data for improving the examination system in response to the changes in filings/requesting examinations in the future; as well as know the strategy for filing patent applications by each industry

- To know the state of enforcement of industrial property rights
- To survey the number of industrial property rights owned, rights enforced, rights licensed, rights bought and sold; as well as to survey income and expenditure for licensing conducted by IP departments
- To quantitatively know the extent that companies use industrial rights

Provide information to industries

- ✓ To enhance IP management activities in companies, etc.
- ✓ To use as basic data for formulating IP strategies in companies, etc.
- ✓ To support achieving appropriate IP transactions

Reflect the results into JPO initiatives

- ✓ To validate the IP policies of Japan
 - ✓ To consider how to carry out future initiatives
- The following actions will be taken based on statistical information:
- ✓ Formulating policy for examination/appeal trial processing
 - ✓ Establishing examination/appeal trial system
 - > Expedite examination/appeal trial processing

Enliven the economy/industry

Survey Targets

This survey targeted Japanese individuals, corporations and public organizations who had filed 5 or more of any patent, utility model, design or trademark applications in 2013.

Period of Survey

2015/09/01 – 2015/09/30

Details of the Survey:

Questionnaires sent by postal service mail and online

Number of survey targets: 6,030

Total responses: 3,274 (online: 1,169)

Response rate: 54.3% (rate for online: 35.7%)

1. Information on IP Departments

- Number of IP Staff
 - Number of in-house patent attorneys
 - Number of Staff for Standardization
- IP Activities Costs
 - Filing costs
 - Compensation costs
 - Labor costs, etc.

2. Utilization of Industrial Property Rights System

- Number of inventions, devices and creations filed
- Number of domestic and foreign filings and estimations by industry

3. Use of Industrial Property Rights

- Number of patent rights owned, used, etc.
- Licensing Balance related to Intellectual Property Rights, etc.

Example of Survey Sheet (1)

I. Activities of the Intellectual Property Department

Q. I-1. Enter the number of persons in charge of intellectual property (including those concurrently assuming other positions) in the latest fiscal year.

Number of persons in charge	Persons	<input type="checkbox"/> There is no person in charge of intellectual property.
Number of in-house patent attorneys	Persons	
Number of staffs for standardization	Persons	

Q. I-2. Enter costs for intellectual property activities in the latest fiscal year.

Costs for intellectual property activities	(Yen in millions)				<input type="checkbox"/> No costs are incurred for intellectual property activities.
Application costs					
Compensation costs					
Labor costs					
Other costs					

*The total of amounts entered for the items in Q I-3 matches with the amount entered for the application costs in Q I-2.

Q. I-3. Specify the breakdown of the application costs stated in Q. I-2.

* In the case of absence of cost, entry is not required.

			(Yen in millions)			
Patent rights	Domestic applications	Application and examination costs				
		Maintenance fees				
	Foreign applications	Application and examination costs				
		Maintenance fees				
Utility model rights	Domestic applications	Application and examination costs				
		Maintenance fees				
	Foreign applications	Application and examination costs				
		Maintenance fees				
Design rights	Domestic applications	Application and examination costs				
		Maintenance fees				
	Foreign applications	Application and examination costs				
		Maintenance fees				
Trademark rights	Domestic applications	Application and examination costs				
		Maintenance fees				
	Foreign applications	Application and examination costs				
		Maintenance fees				

Example of Survey Sheet (2)

II. Utilization of the Industrial Property Rights System

Q. II-1. Did your company have any invention, device or creation reported in [calendar 2014](#)?

● Actual results of notifications of invention (patent) and device (utility model) in 2014.

Number of notifications	=	Number of notifications applied	+	Number of notifications not applied	<input type="checkbox"/> No notification of invention or device.
					Number of notifications treated as trade secret or know-how
					Number of notifications made public without application

● Actual results of creation (design) in 2014.

Number of notifications	=	Number of notifications applied	+	Number of notifications not applied	<input type="checkbox"/> No notification of creation.

Q. II-2. Domestic and foreign applications filed by your company in [calendar 2014](#) and estimated applications in 2015 and 2016 are asked by type of industrial property rights.

*For joint applications, specify your share.

(For instance, if you share 30/100 for one application, specify 0.3 as the number of applications.)

Q. II-2-1. Enter actual results and estimated applications for patent or examinations requested.

● Actual results and estimated domestic applications

	Results for 2014	Estimate for 2015	Estimate for 2016
Number of applications <input type="checkbox"/> None			
Number of examinations requested <input type="checkbox"/> None			
No. of accelerated examinations proposed <input type="checkbox"/> None			

● Actual results and estimated international applications

	Results for 2014	Estimate for 2015	Estimate for 2016
No. of applications (PCT) <input type="checkbox"/> None			
Selecting JPO as the International Search Authority			
Not selecting Japan as the designated country			

● Actual results and estimated foreign applications

	Results for 2014	Estimate for 2015	Estimate for 2016
Number of applications <input type="checkbox"/> None			
U.S.A.			
EPC applications			
Europe			
Asia			
Other areas			

Example of Survey Sheet (3)

III. Exploitation of Industrial Property Rights

Q. III-1. Enter the status of domestic and foreign industrial property rights owned by your company
as of the end of the latest fiscal year.

*For jointly owned rights, specify your share.

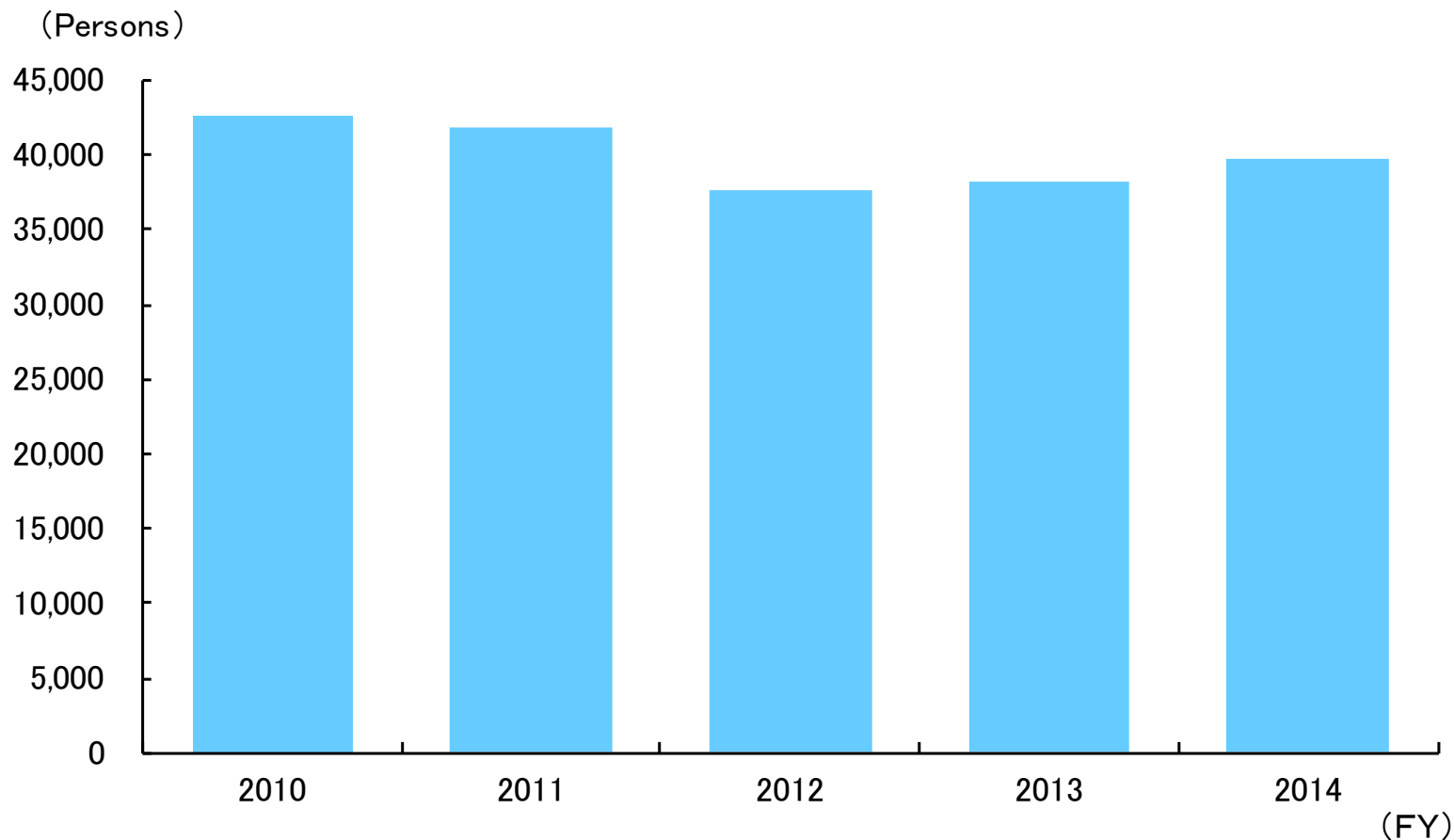
(For instance, if you share 30/100 for jointly owned rights, specify 0.3 as number of rights.)

The term "your company" does not include any company within the Corporate Group.

	Patent rights		Utility Model rights	
	Number of domestic rights <input type="checkbox"/> None	Number of foreign rights <input type="checkbox"/> None	Number of domestic rights <input type="checkbox"/> None	Number of foreign rights <input type="checkbox"/> None
Number of rights owned (A+B)				
Number of rights used (A)				
Number of rights exploited by owner				
Number of rights licensed to other companies				
No. of rights licensed to other companies under a cross-license				
No. of rights licensed to other companies in consideration of royalties				
Number of rights unused (B)				
Number of rights for defensive purposes				
Number of rights available for releasing				
	Design rights		Trademark rights	
	Number of domestic rights <input type="checkbox"/> None	Number of foreign rights <input type="checkbox"/> None	Number of domestic rights <input type="checkbox"/> None	Number of foreign rights <input type="checkbox"/> None
Number of rights owned(A+B)				
Number of rights used (A)				
Number of rights exploited by owner				
Number of rights licensed to other companies				
No. of rights licensed to other companies under a cross-license				
No. of rights licensed to other companies in consideration of royalties				
Number of rights unused (B)				
Number of rights for defensive purposes				
Number of rights available for releasing				

Result: Number of IP Staff (1)

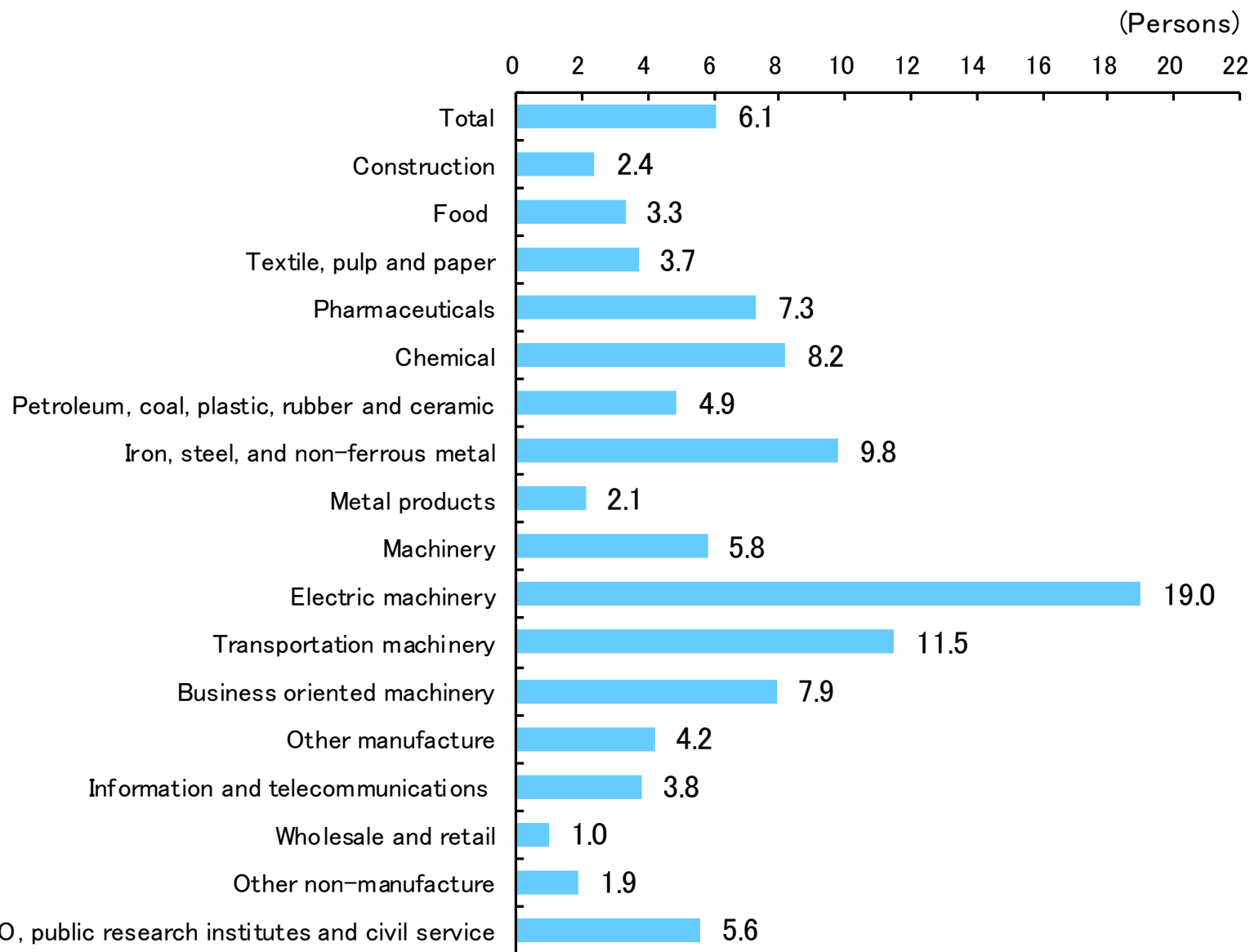
Changes in the Number of IP Staff (Overall estimate)



	FY2010	FY2011	FY2012	FY2013	FY2014	Comparison from previous fiscal year (%)
Number of Intellectual Property Staff	42,617	41,837	37,670	38,256	39,746	3.9%

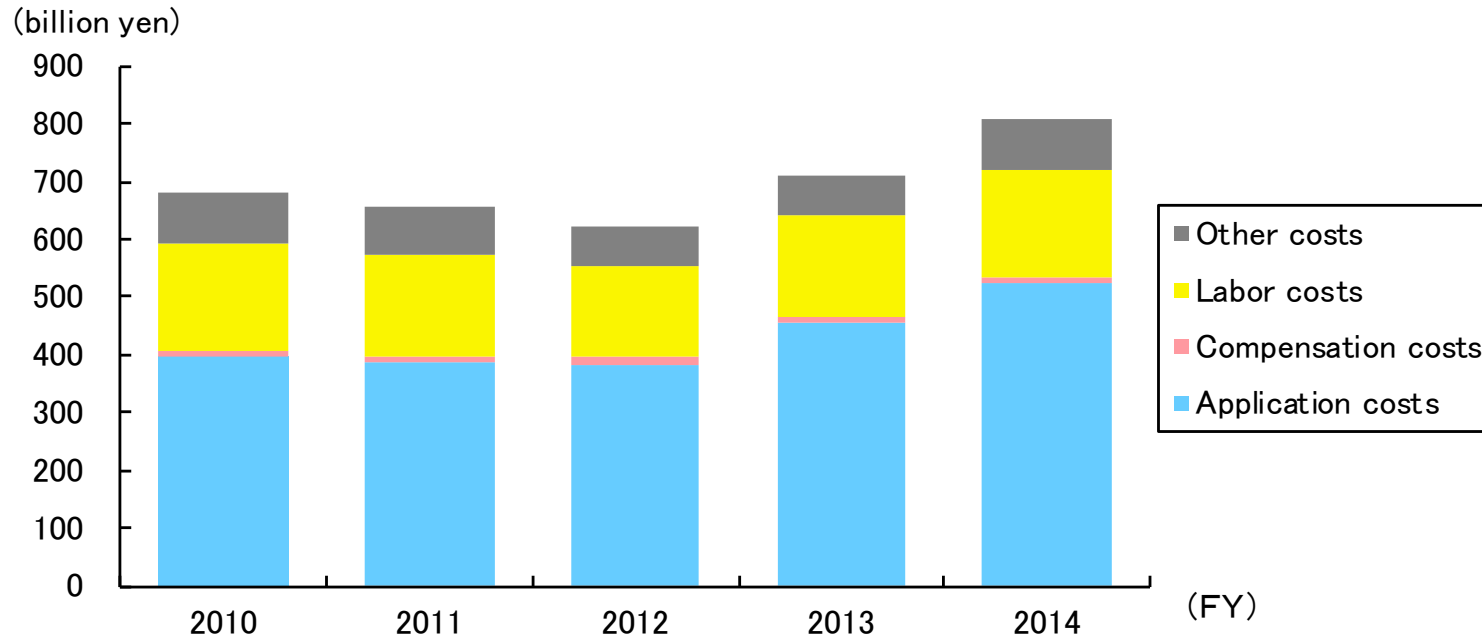
Result: Number of IP Staff (2)

Number of IP Staff by Industry (Average FY2014)



Result: IP Activities Costs (1)

Changes in Costs for IP Activities (Overall estimate)

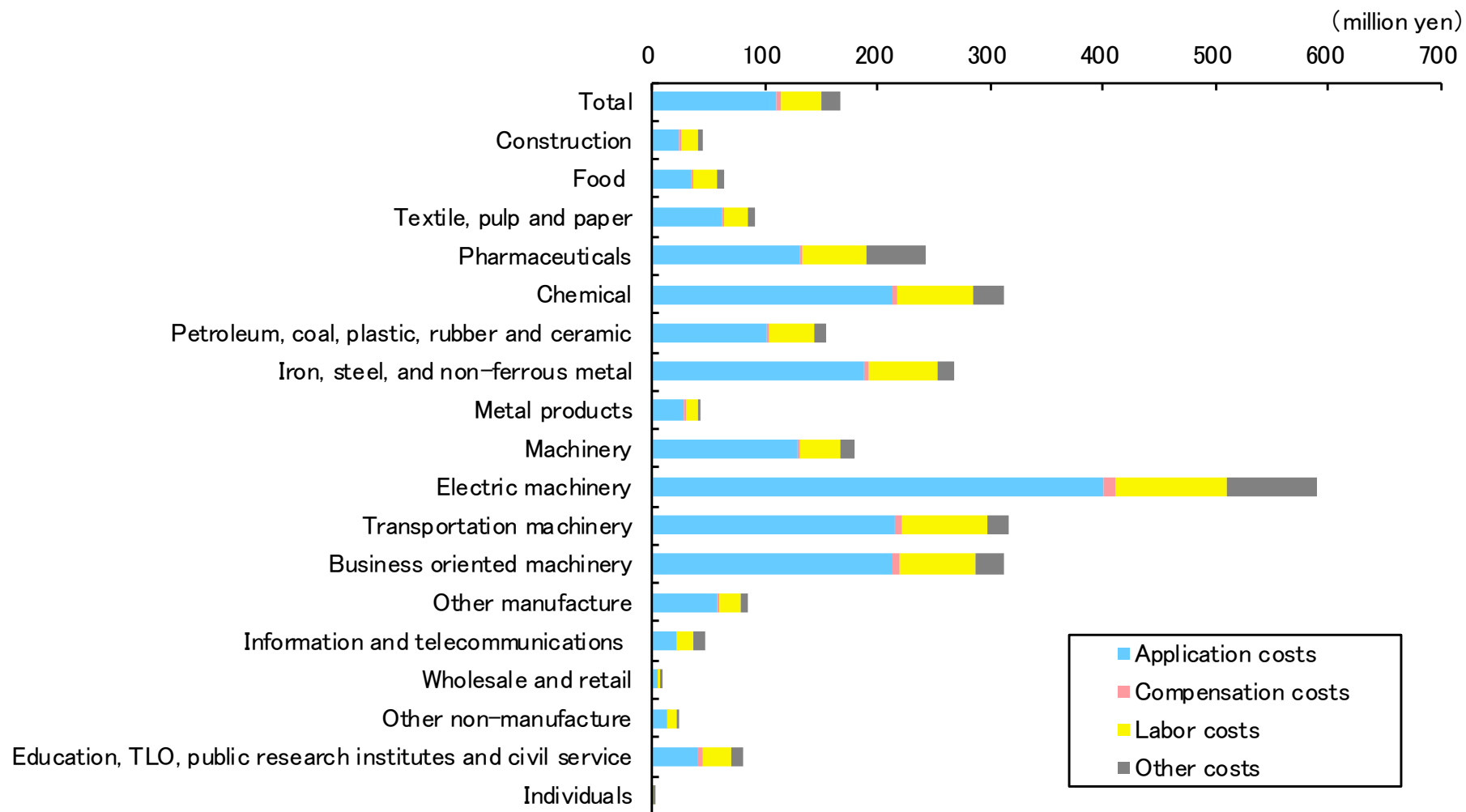


Note: Above chart shows the total value of “Application costs,” “Compensation costs,” “Labor costs” and “Other costs.”

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Comparison from previous year (%)
Intellectual Property Activities Costs (million yen)	674,083	653,503	622,232	710,342	809,434	13.9%
Application costs	395,510	385,978	383,546	454,673	523,061	15.0%
Compensation costs	13,267	13,133	11,836	12,243	13,479	10.1%
Labor costs	181,895	176,287	156,397	172,941	182,244	5.4%
Other costs	88,574	83,498	70,479	70,925	91,390	28.9%

Result: IP Activities Cost (2)

IP Activities Costs by Industry (Average, FY2014)



Note: the chart above shows the total of “Application costs,” “Compensation costs,” “Labor costs” and “Other costs.”

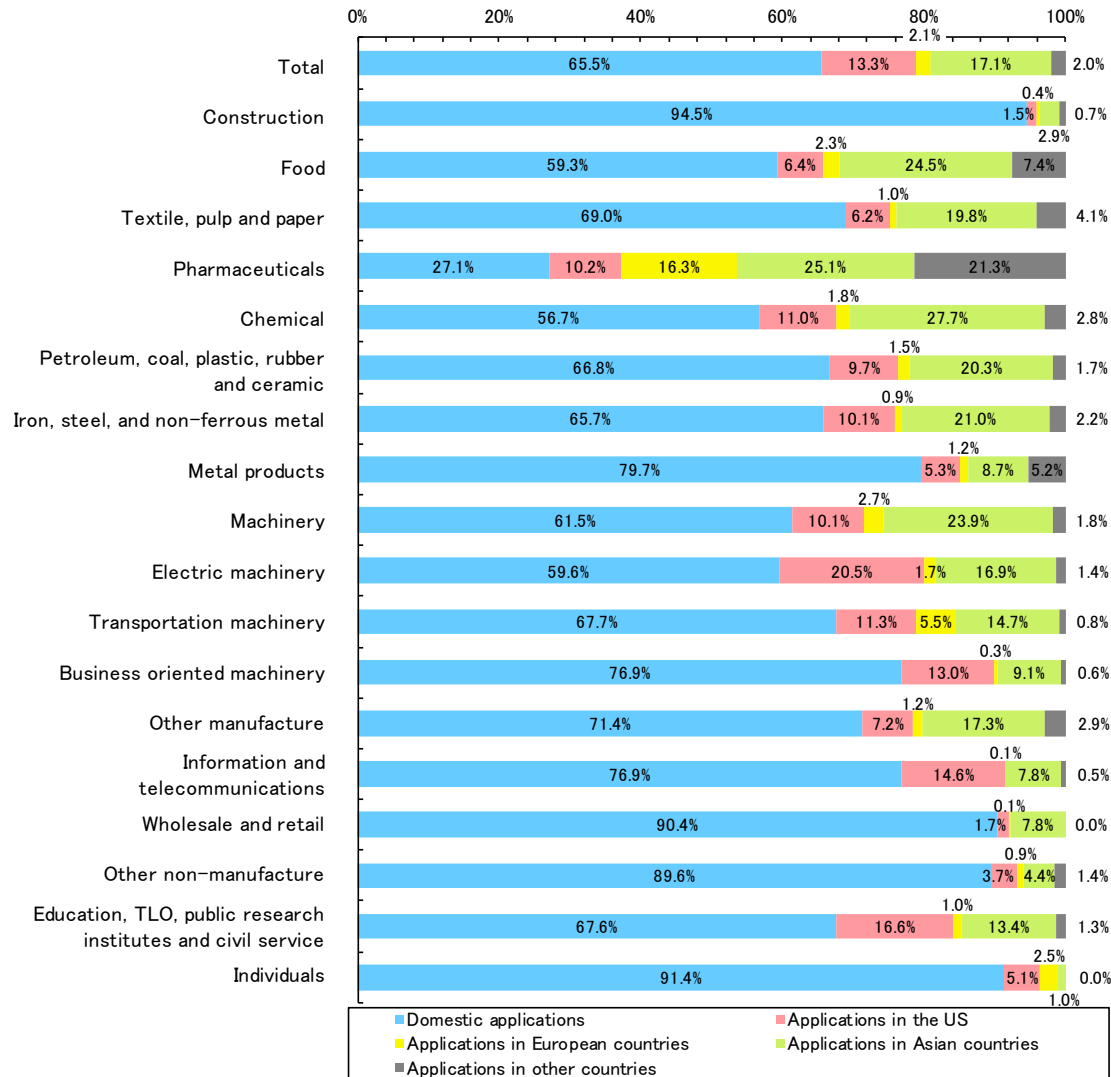
Changes in the Number of Domestic Patent Filings by Industry (Overall estimate)

	Number of target population	2014	2015 (provisional value)		2016 (forecast value)		Average rate of change (14-16)
		Number of applications	Number of applications	Rate of change (y/y)	Number of applications	Rate of change (y/y)	
Total	57,657	265,959	258,836	-2.7%	261,395	1.0%	-0.9%
Construction	2,248	5,350	5,519	3.2%	5,436	-1.5%	0.8%
Food	2,785	3,094	3,179	2.7%	3,116	-2.0%	0.4%
Textile, pulp and paper	1,347	3,958	3,945	-0.3%	4,124	4.5%	2.1%
Pharmaceuticals	376	1,918	1,883	-1.8%	1,901	0.9%	-0.5%
Chemical	1,075	23,906	23,878	-0.1%	24,100	0.9%	0.4%
Petroleum, coal, plastic, rubber and ceramic	1,770	16,515	17,004	3.0%	17,288	1.7%	2.3%
Iron, steel, and non-ferrous metal	379	12,973	12,189	-6.0%	12,310	1.0%	-2.6%
Metal products	1,411	4,464	4,539	1.7%	4,482	-1.3%	0.2%
Machinery	2,265	18,520	18,047	-2.6%	18,450	2.2%	-0.2%
Electric machinery	1,980	70,241	65,839	-6.3%	66,387	0.8%	-2.8%
Transportation machinery	586	26,230	26,136	-0.4%	27,189	4.0%	1.8%
Business oriented machinery	788	27,101	25,515	-5.9%	24,507	-4.0%	-4.9%
Other manufacture	1,957	14,253	14,406	1.1%	14,625	1.5%	1.3%
Information and telecommunications	2,863	7,093	7,482	5.5%	8,318	11.2%	8.3%
Wholesale and retail	11,460	6,608	6,373	-3.6%	6,646	4.3%	0.3%
Other non-manufacture	7,689	5,827	5,960	2.3%	5,920	-0.7%	0.8%
Education, TLO, public research institutes and civil service	844	13,748	13,588	-1.2%	13,612	0.2%	-0.5%
Individuals	15,834	4,160	3,355	-19.4%	2,982	-11.1%	-15.3%

Changes in the Number of Domestic Requests for Examination by Industry (Overall estimate)

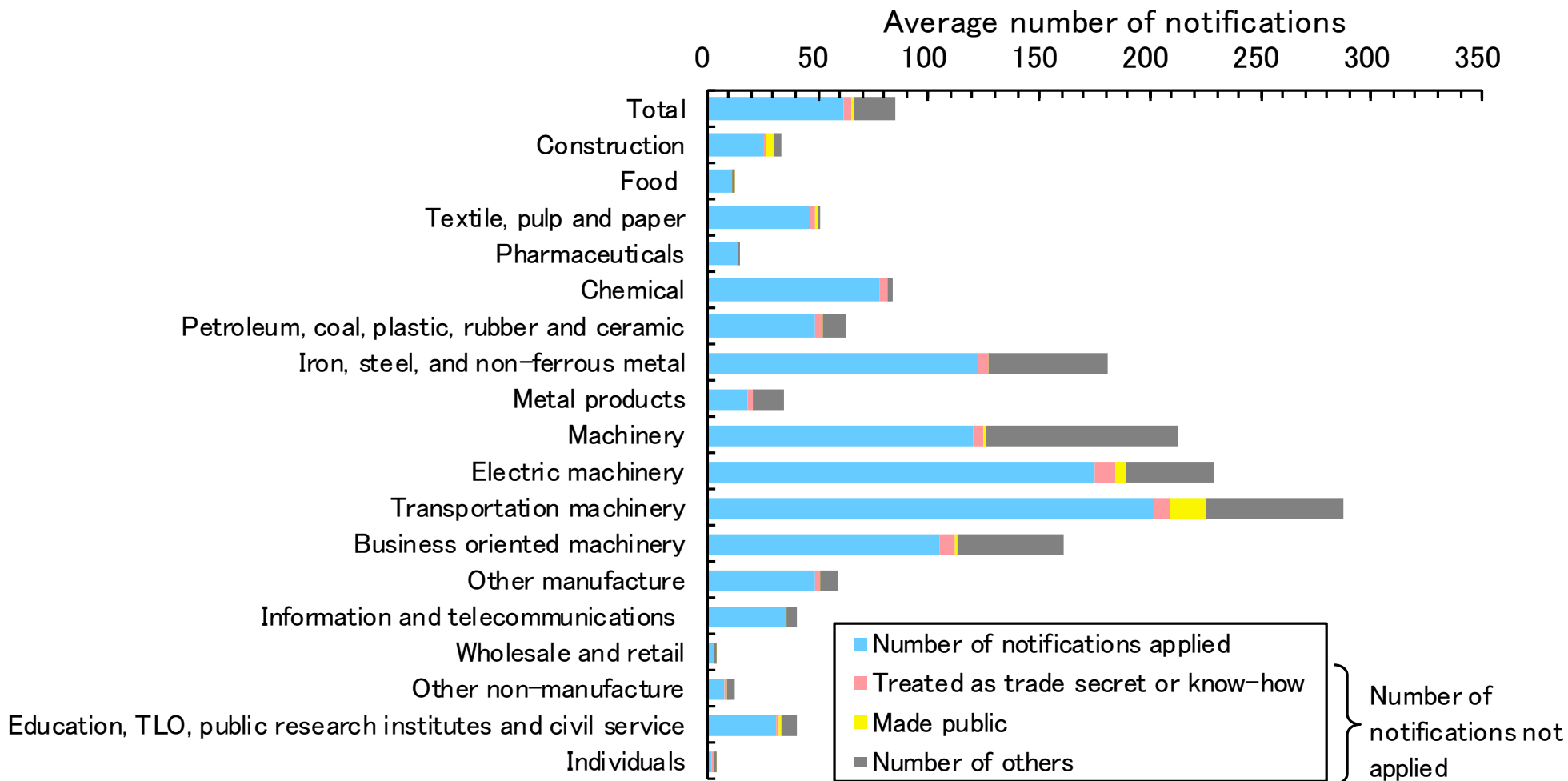
	Number of target population	2014	2015 (provisional value)		2016 (forecast value)		Average rate of change (14-16)
		Number of requests for examination	Number of requests for examination	Rate of change (y/y)	Number of requests for examination	Rate of change (y/y)	
Total	57,657	191,912	187,956	-2.1%	190,451	1.3%	-0.4%
Construction	2,248	4,001	4,319	7.9%	4,404	2.0%	4.9%
Food	2,785	1,758	1,758	0.0%	1,920	9.2%	4.5%
Textile, pulp and paper	1,347	2,308	2,270	-1.6%	2,299	1.3%	-0.2%
Pharmaceuticals	376	1,208	1,098	-9.0%	1,175	6.9%	-1.4%
Chemical	1,075	17,916	17,238	-3.8%	17,667	2.5%	-0.7%
Petroleum, coal, plastic, rubber and ceramic	1,770	11,498	11,777	2.4%	12,155	3.2%	2.8%
Iron, steel, and non-ferrous metal	379	9,625	8,899	-7.5%	8,966	0.8%	-3.5%
Metal products	1,411	3,490	3,531	1.2%	3,447	-2.4%	-0.6%
Machinery	2,265	12,606	13,440	6.6%	13,270	-1.3%	2.6%
Electric machinery	1,980	51,608	51,308	-0.6%	50,896	-0.8%	-0.7%
Transportation machinery	586	16,344	16,829	3.0%	17,588	4.5%	3.7%
Business oriented machinery	788	23,871	20,159	-15.6%	19,887	-1.3%	-8.7%
Other manufacture	1,957	9,804	10,014	2.1%	10,393	3.8%	3.0%
Information and telecommunications	2,863	6,794	6,298	-7.3%	7,076	12.4%	2.1%
Wholesale and retail	11,460	3,234	3,234	0.0%	3,232	-0.1%	0.0%
Other non-manufacture	7,689	4,079	4,228	3.6%	4,434	4.9%	4.3%
Education, TLO, public research institutes and civil service	844	9,433	9,587	1.6%	9,795	2.2%	1.9%
Individuals	15,834	2,336	1,968	-15.7%	1,844	-6.3%	-11.1%

Ratio of Domestic and Foreign Patent Filings by Industry (Overall estimate, 2014)



Result: Mode of IP Protection

The Numbers of Filings for Inventions and Devices, Trade Secrets, and Sharing of Expertise (average, FY2014)



Note: Above chart shows the total value of “Number of notifications applied” and “Number of notifications not applied.”

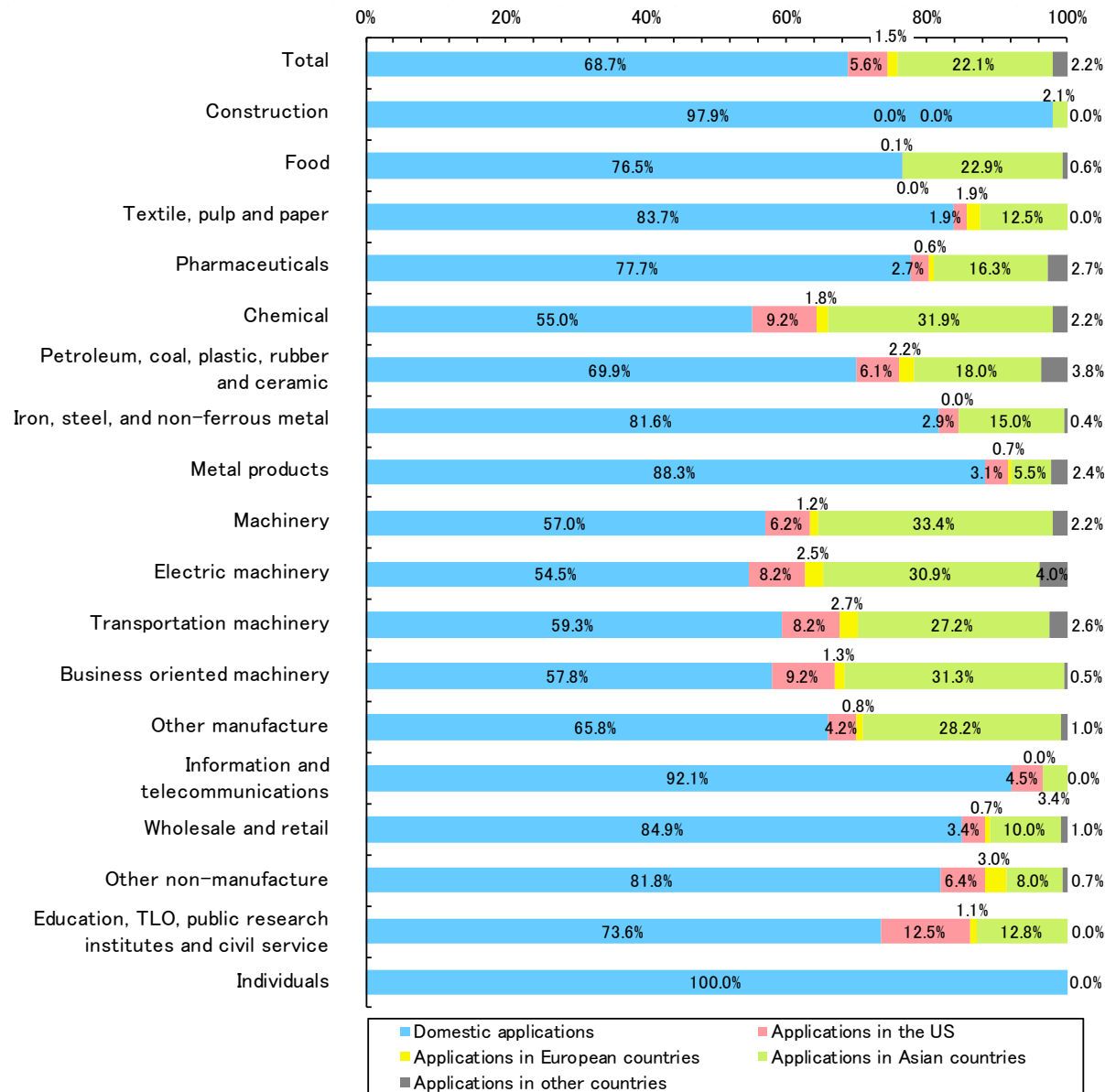
Result: Domestic Designs

Changes in the Number of Filings to Register Domestic Designs (by industry) (Overall estimate)

	Number of target population	2014	2015 (provisional value)		2016 (forecast value)		Average rate of change (14-16)
		Number of applications	Number of applications	Rate of change (y/y)	Number of applications	Rate of change (y/y)	
Total	57,657	24,868	24,802	-0.3%	23,571	-5.0%	-2.6%
Construction	2,338	577	673	16.6%	594	-11.7%	1.5%
Food	2,674	519	406	-21.8%	362	-10.8%	-16.5%
Textile, pulp and paper	1,322	688	703	2.1%	647	-8.0%	-3.0%
Pharmaceuticals	409	427	427	0.1%	336	-21.4%	-11.3%
Chemical	1,196	889	1,173	31.9%	972	-17.1%	4.6%
Petroleum, coal, plastic, rubber and ceramic	1,856	2,634	2,693	2.2%	2,645	-1.8%	0.2%
Iron, steel, and non-ferrous metal	422	907	973	7.4%	884	-9.2%	-1.3%
Metal products	1,448	1,931	2,014	4.3%	1,911	-5.1%	-0.5%
Machinery	2,510	1,655	1,830	10.6%	1,708	-6.6%	1.6%
Electric machinery	2,185	4,381	4,372	-0.2%	4,367	-0.1%	-0.2%
Transportation machinery	662	1,296	1,369	5.6%	1,368	-0.1%	2.7%
Business oriented machinery	876	704	870	23.5%	808	-7.1%	7.1%
Other manufacture	1,938	3,013	2,790	-7.4%	2,686	-3.7%	-5.6%
Information and telecommunications	2,827	367	439	19.7%	409	-6.8%	5.6%
Wholesale and retail	10,876	2,964	2,102	-29.1%	2,095	-0.3%	-15.9%
Other non-manufacture	7,440	523	661	26.3%	484	-26.8%	-3.9%
Education, TLO, public research institutes and civil service	844	121	98	-19.5%	85	-12.5%	-16.1%
Individuals	15,834	1,272	1,210	-4.9%	1,210	0.0%	-2.5%

Result: Domestic/Foreign Design Filings

Ratio of Domestic/Foreign Design Filings by Industry (Overall estimate, 2014)



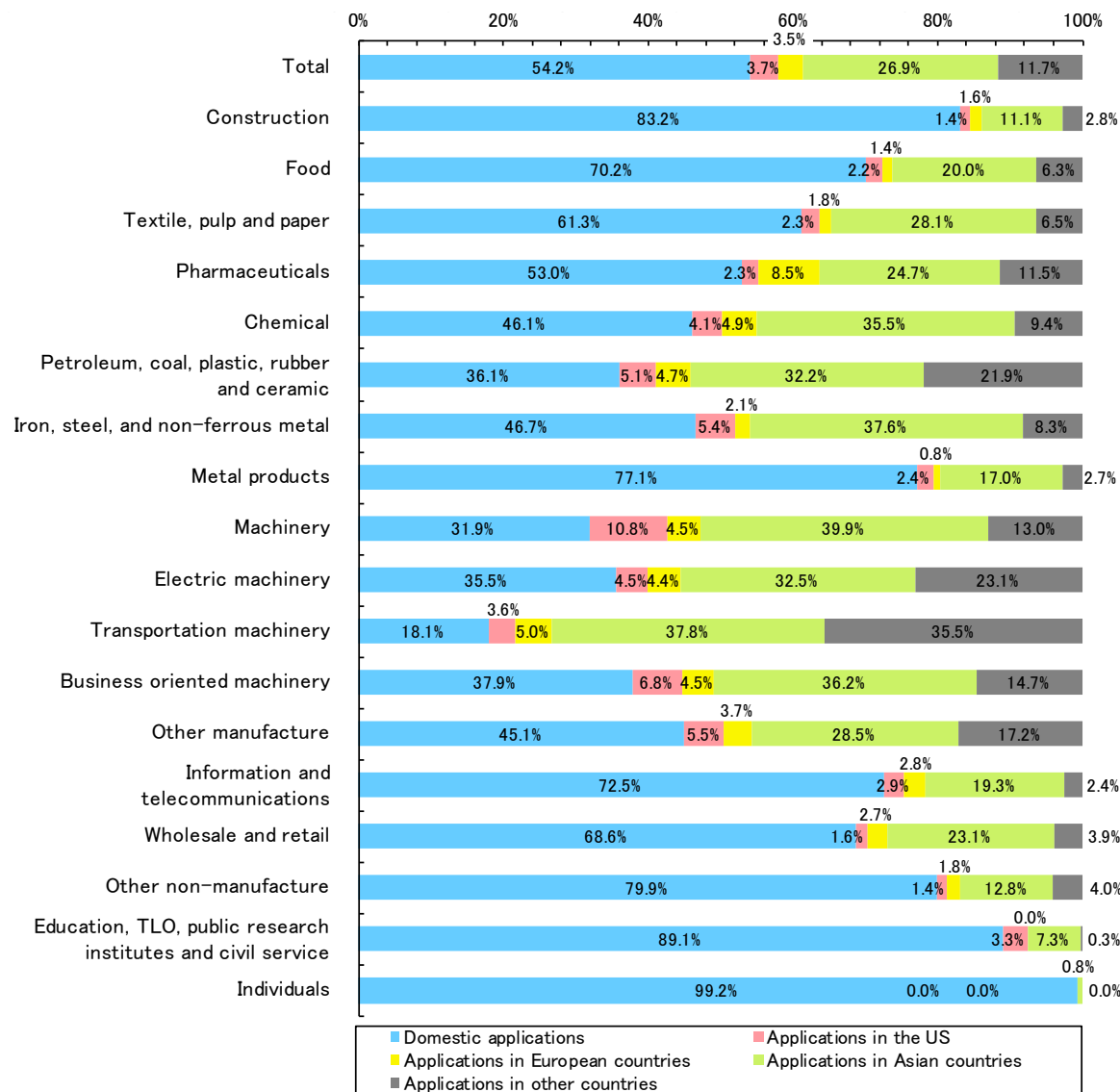
Result: Domestic Trademark Registration

Changes in the Number of Filings to Register Domestic Trademarks by Industry (Overall estimate)

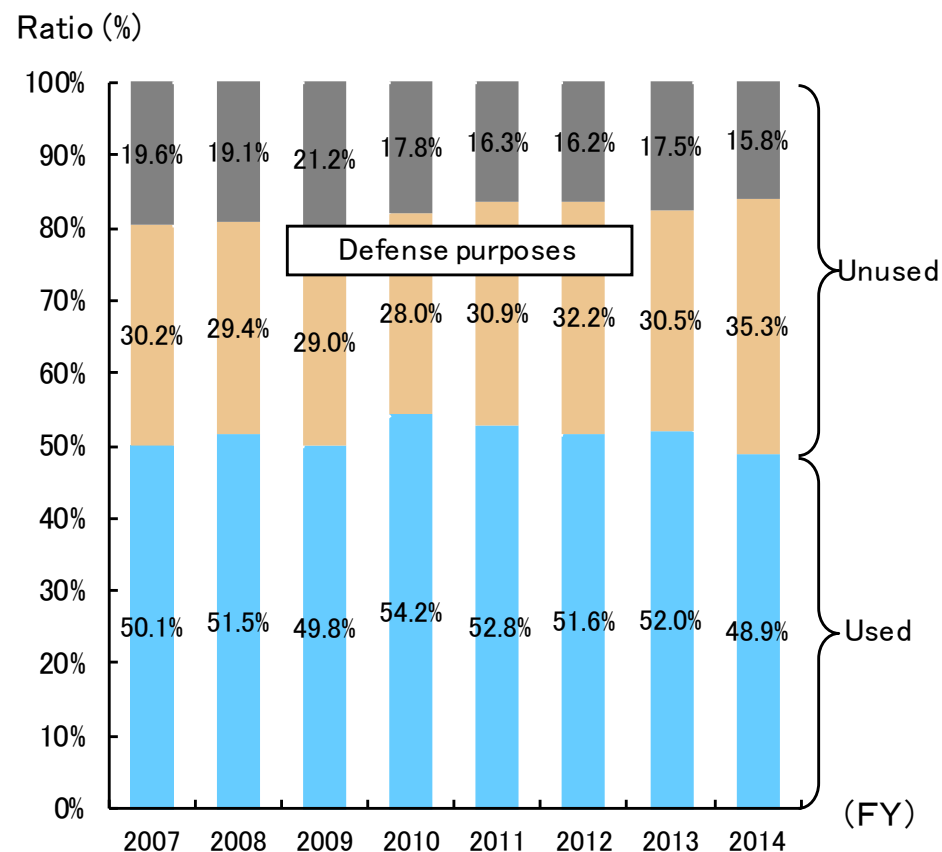
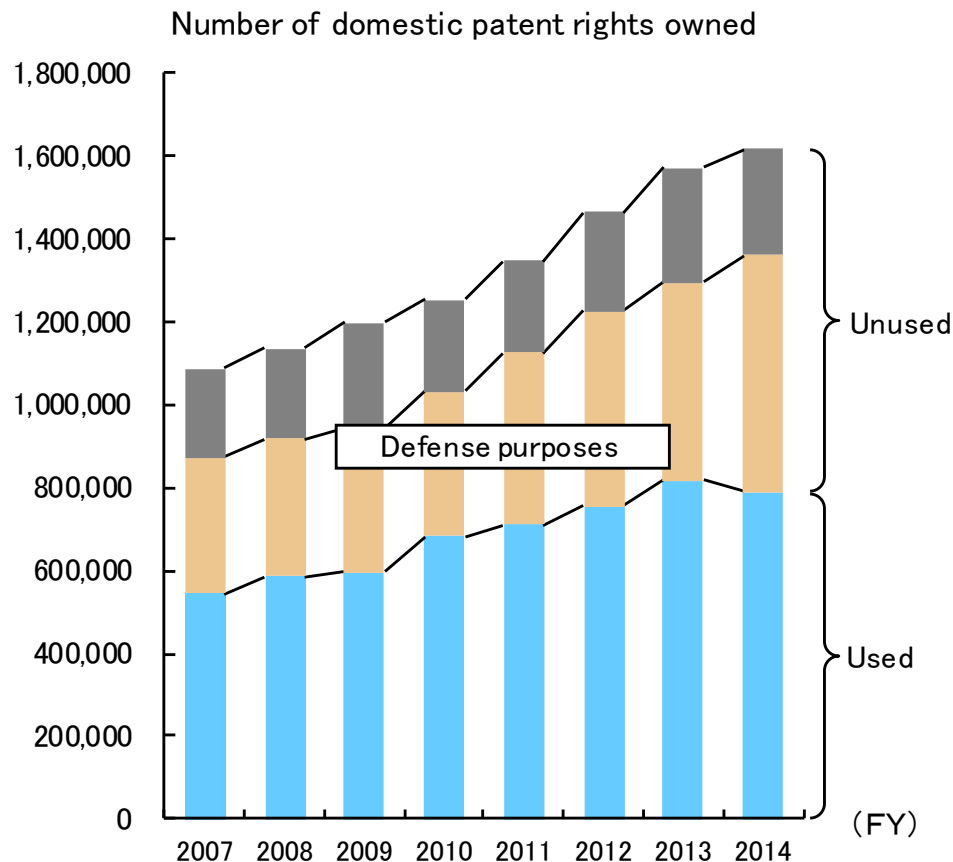
	Number of target population	2014	2015 (provisional value)		2016 (forecast value)		Average rate of change (14-16)
		Number of applications	Number of applications	Rate of change (y/y)	Number of applications	Rate of change (y/y)	
Total	57,657	100,053	117,956	17.9%	106,109	-10.0%	3.0%
Construction	2,267	2,901	3,673	26.6%	3,355	-8.7%	7.5%
Food	2,717	9,414	11,966	27.1%	11,116	-7.1%	8.7%
Textile, pulp and paper	1,328	2,769	3,517	27.0%	3,254	-7.5%	8.4%
Pharmaceuticals	385	4,409	6,558	48.7%	5,471	-16.6%	11.4%
Chemical	1,131	9,509	12,698	33.5%	12,195	-4.0%	13.2%
Petroleum, coal, plastic, rubber and ceramic	1,820	4,429	6,133	38.5%	5,025	-18.1%	6.5%
Iron, steel, and non-ferrous metal	409	1,022	1,290	26.3%	1,152	-10.7%	6.2%
Metal products	1,423	2,585	3,299	27.6%	2,930	-11.2%	6.5%
Machinery	2,348	3,592	4,561	27.0%	3,443	-24.5%	-2.1%
Electric machinery	2,122	6,387	8,597	34.6%	7,860	-8.6%	10.9%
Transportation machinery	643	1,677	1,938	15.6%	1,984	2.4%	8.8%
Business oriented machinery	836	2,233	3,357	50.3%	2,985	-11.1%	15.6%
Other manufacture	1,929	7,396	9,201	24.4%	8,467	-8.0%	7.0%
Information and telecommunications	2,851	5,938	7,008	18.0%	6,149	-12.3%	1.8%
Wholesale and retail	11,191	19,909	20,778	4.4%	19,478	-6.3%	-1.1%
Other non-manufacture	7,579	9,260	9,602	3.7%	7,901	-17.7%	-7.6%
Education, TLO, public research institutes and civil service	844	1,265	1,091	-13.7%	784	-28.1%	-21.3%
Individuals	15,834	5,359	2,688	-49.8%	2,559	-4.8%	-30.9%

Result: Domestic/Foreign Trademark Filings

Ratio of Domestic and Foreign Trademark Filings by Industry (Overall estimate, 2014)



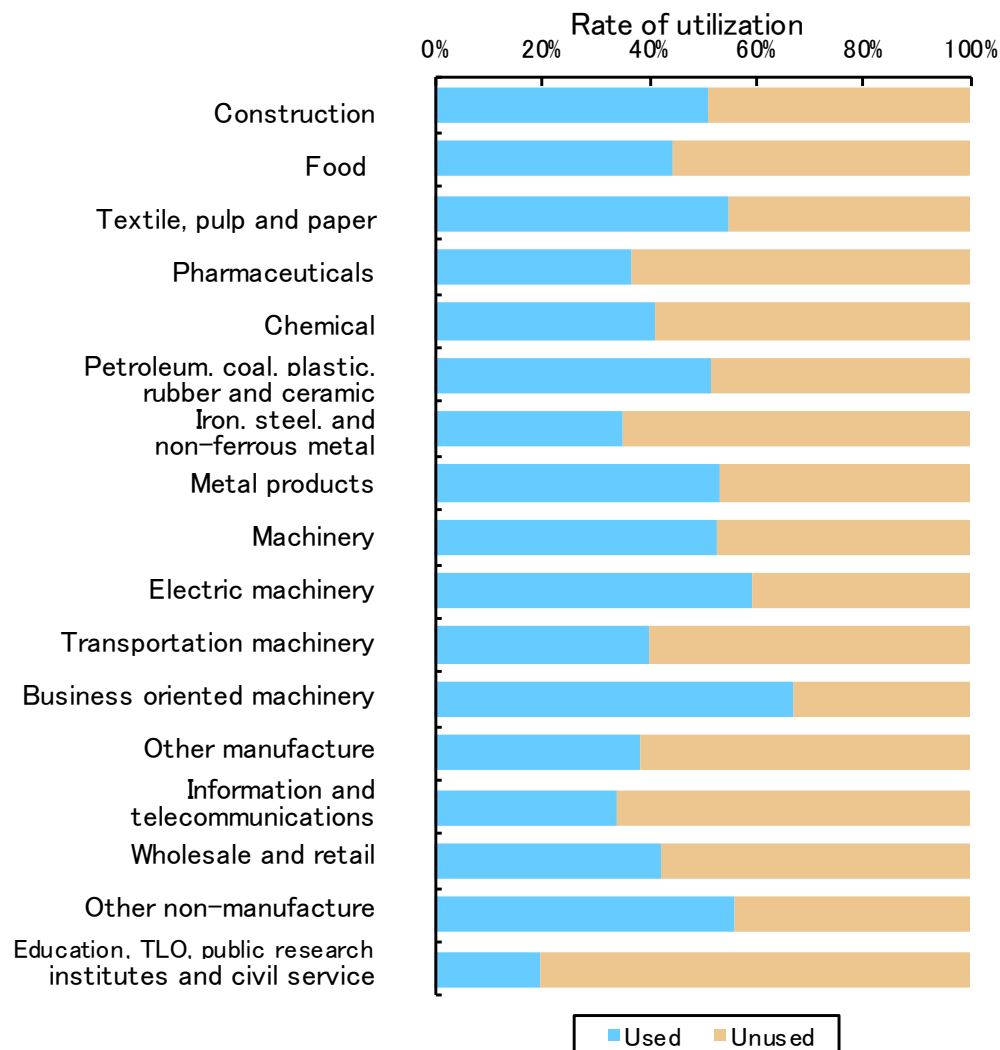
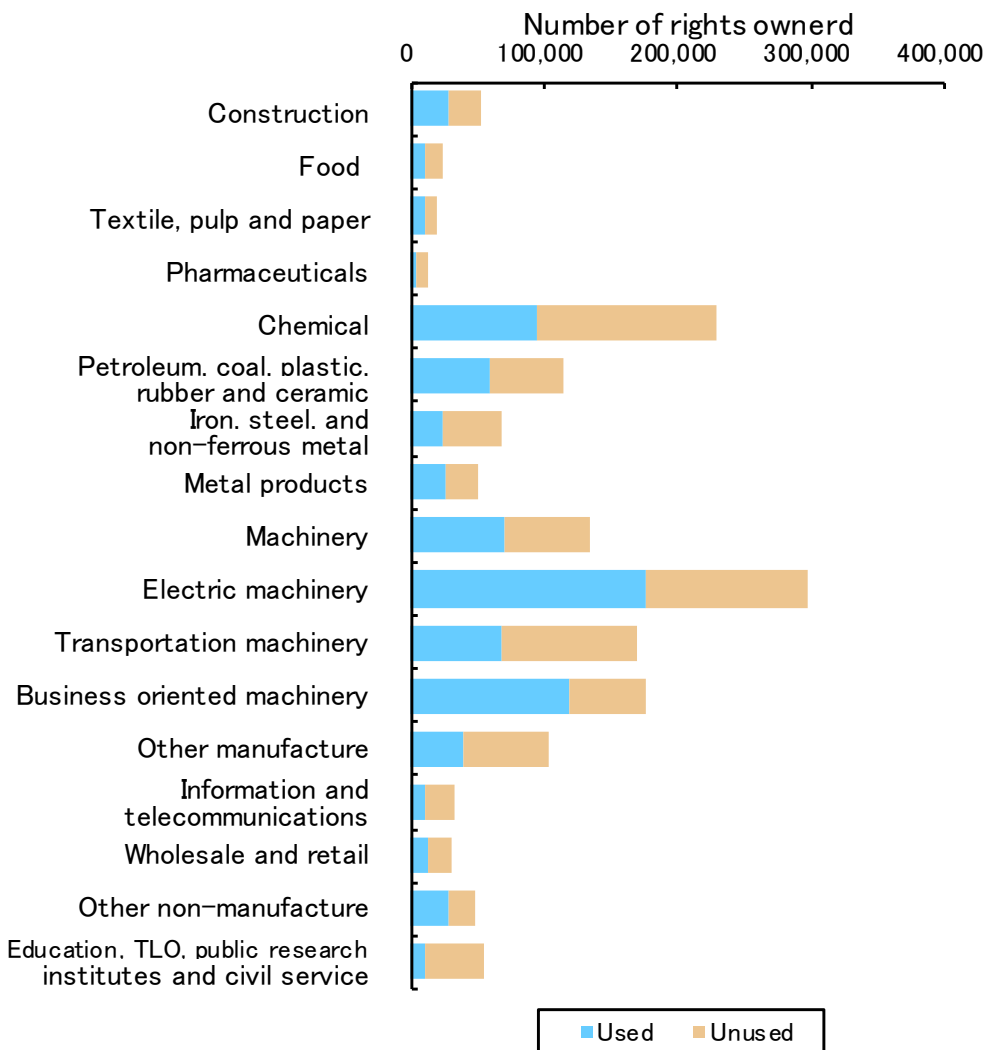
Changes in Domestic Patent Rights Owned (Overall estimate)



	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
Number of domestic patent rights owned	1,086,802	1,136,566	1,199,184	1,255,489	1,346,804	1,464,176	1,570,897	1,616,472
Number of patent rights used	544,785	584,994	597,519	681,059	711,773	755,209	816,825	790,752
Number of patent rights unused	542,017	551,572	601,665	574,430	635,031	708,967	754,072	825,720
Number of defense purposes patents	328,467	334,564	348,028	350,946	415,630	471,041	479,029	569,938

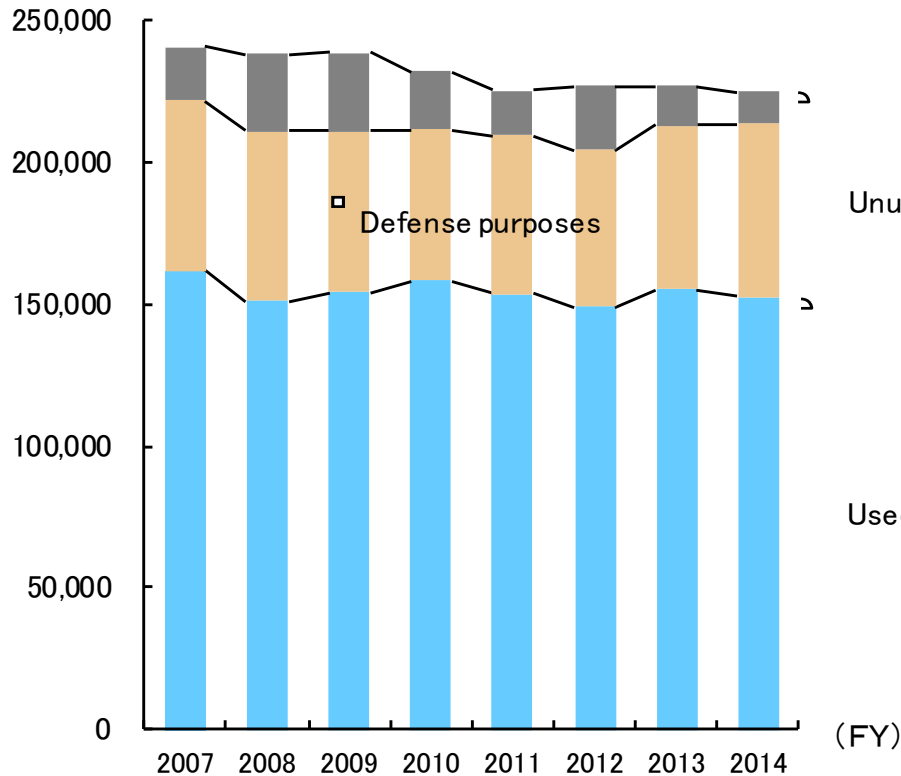
Result: Utilization of Domestic Patent Rights

Number of Domestic Patent Rights Owned by Industry (Overall estimate, FY2014)

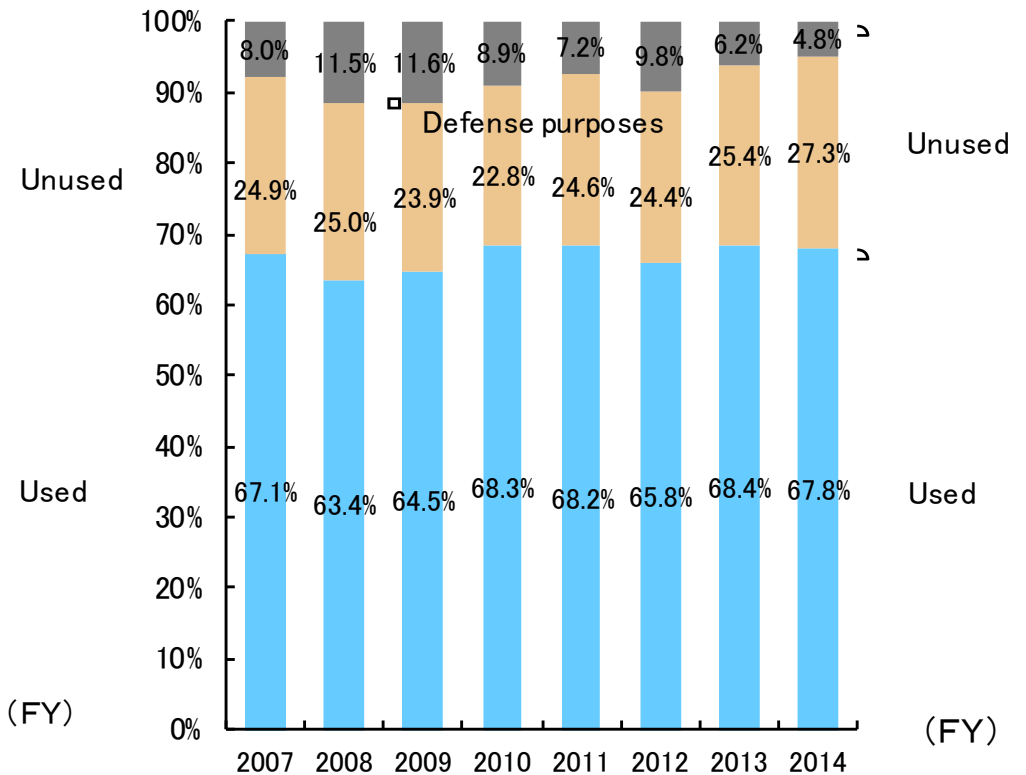


Changes in Ownership of Domestic Design Registrations (Overall estimate)

Number of domestic design registration owned

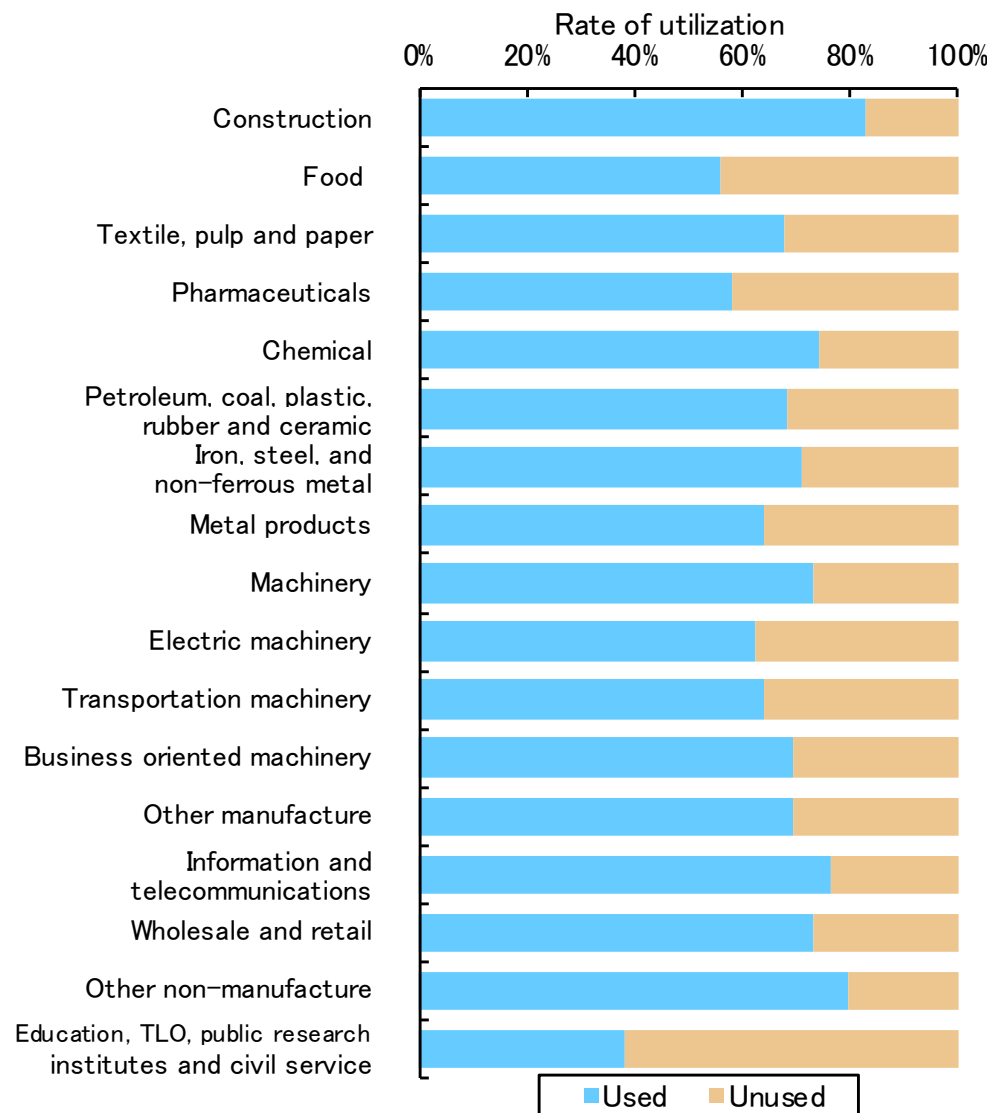
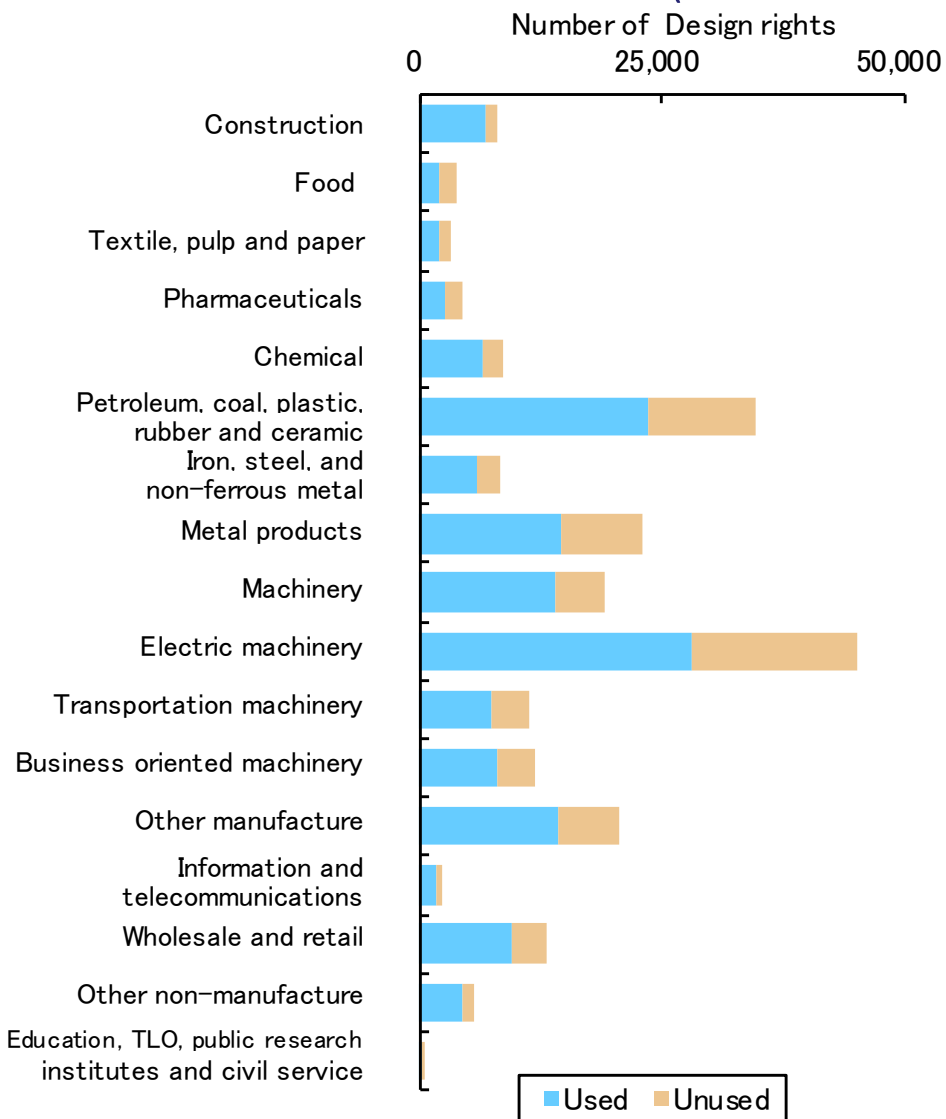


Ratio (%)

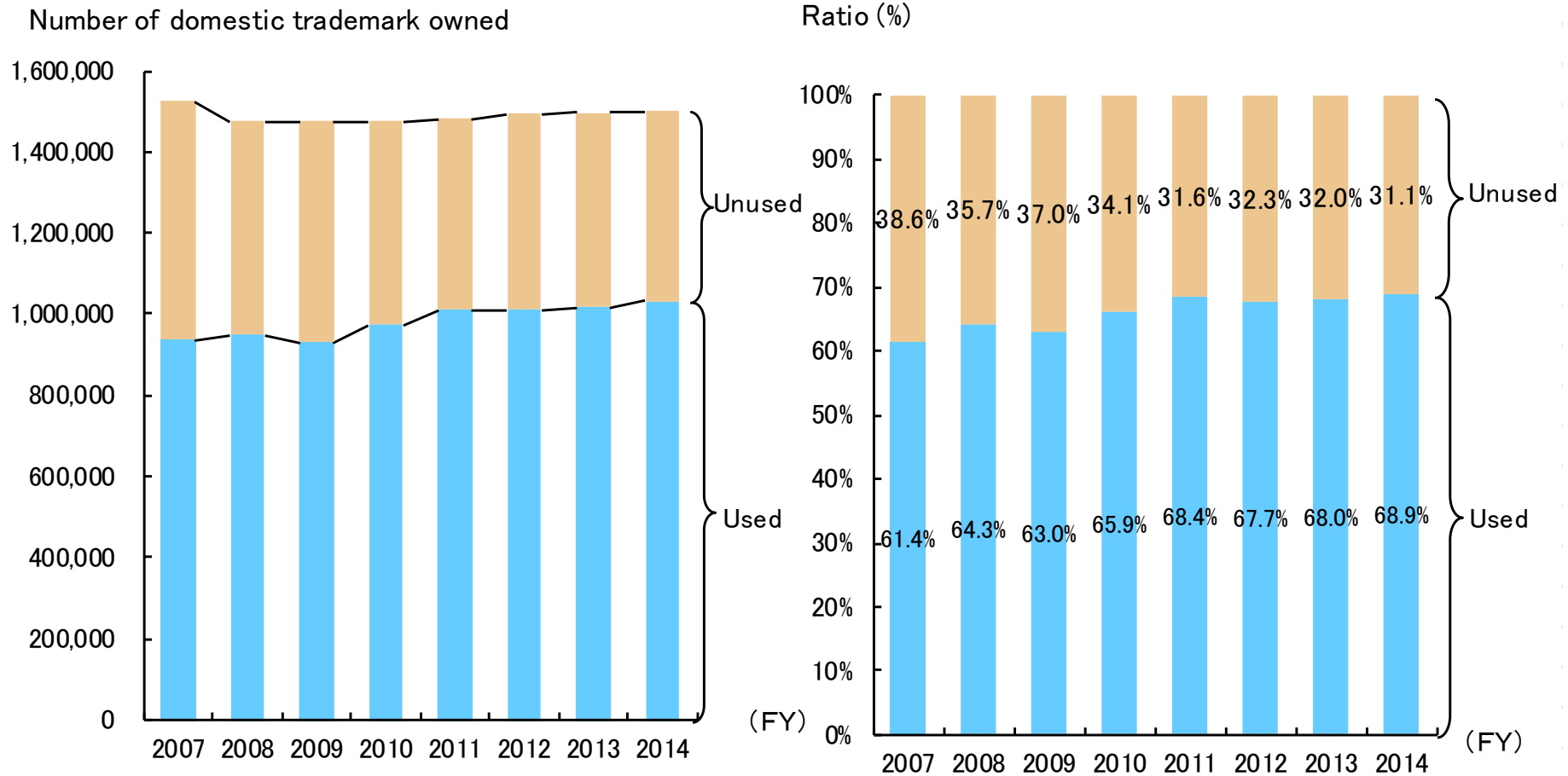


	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
Number of domestic design registration owned	240,737	238,136	238,473	231,861	225,402	226,483	226,939	224,464
Number of design registration used	161,536	151,062	153,913	158,277	153,738	149,119	155,184	152,291
Number of design registration unused	79,201	87,074	84,560	73,584	71,664	77,364	71,755	72,173
Number of defense purposes patents	59,937	59,596	56,994	52,976	55,358	55,185	57,710	61,319

Number of Domestic Design Rights Owned (by Industry) (Overall estimate, FY2014)

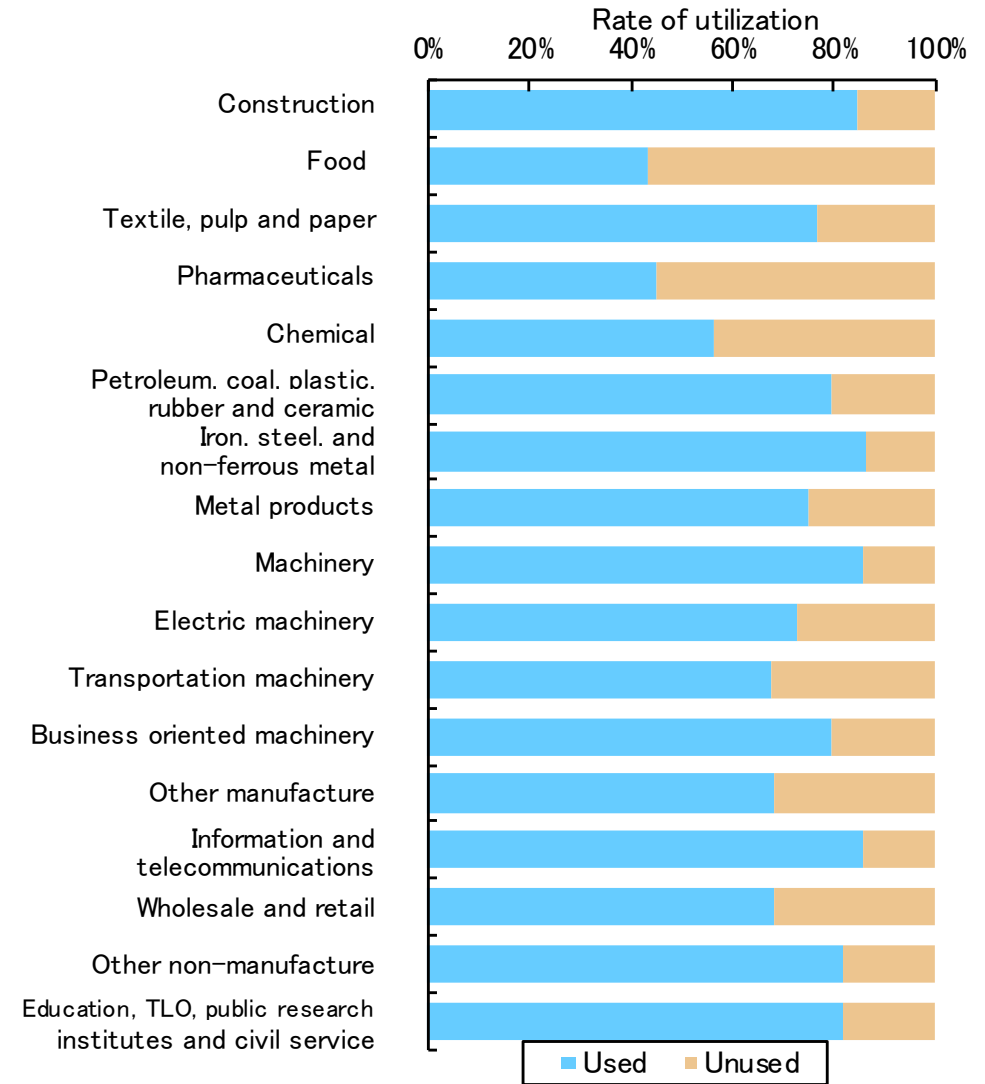
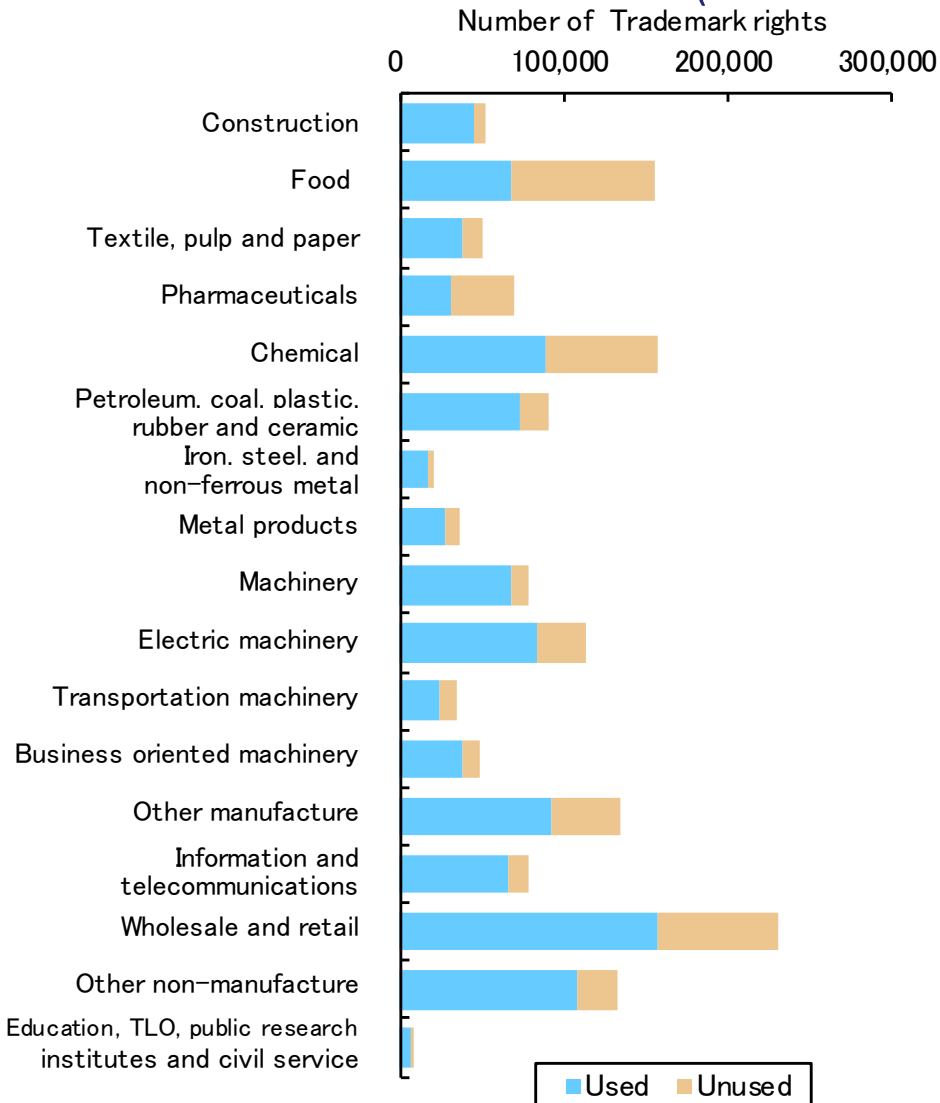


Changes in Domestic Trademarks Owned (Overall estimate)



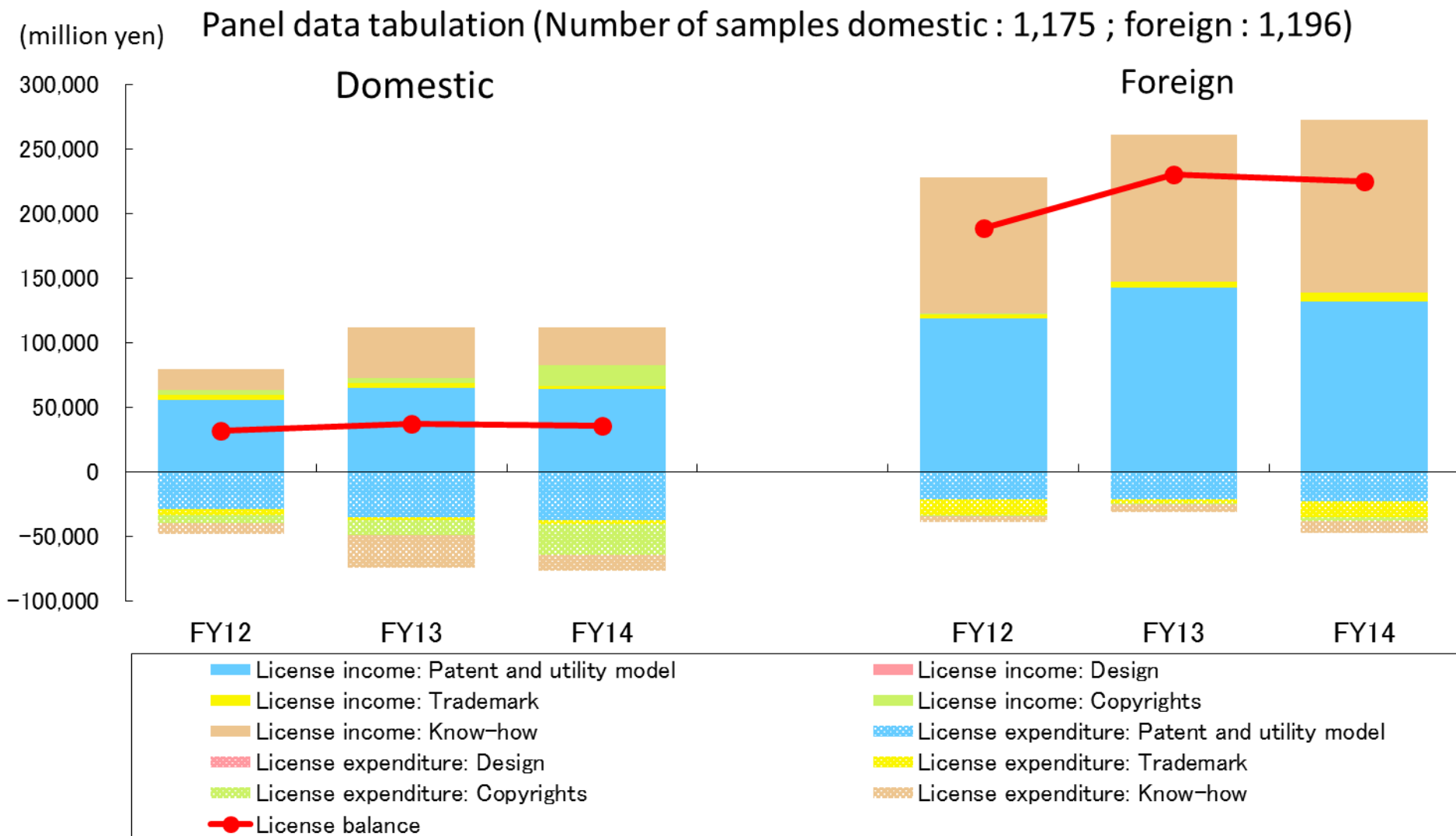
	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
Number of domestic trademark owned	1,525,765	1,475,855	1,474,062	1,475,649	1,480,363	1,492,366	1,497,283	1,499,475
Number of trademark used	936,783	948,700	929,219	972,645	1,011,983	1,009,603	1,017,728	1,033,468
Number of trademark unused	588,982	527,155	544,843	503,004	468,380	482,763	479,555	466,007

Number of Domestic Trademark Rights Owned (by Industry) (Overall estimate, FY2014)



Result: Licensing Balance (1)

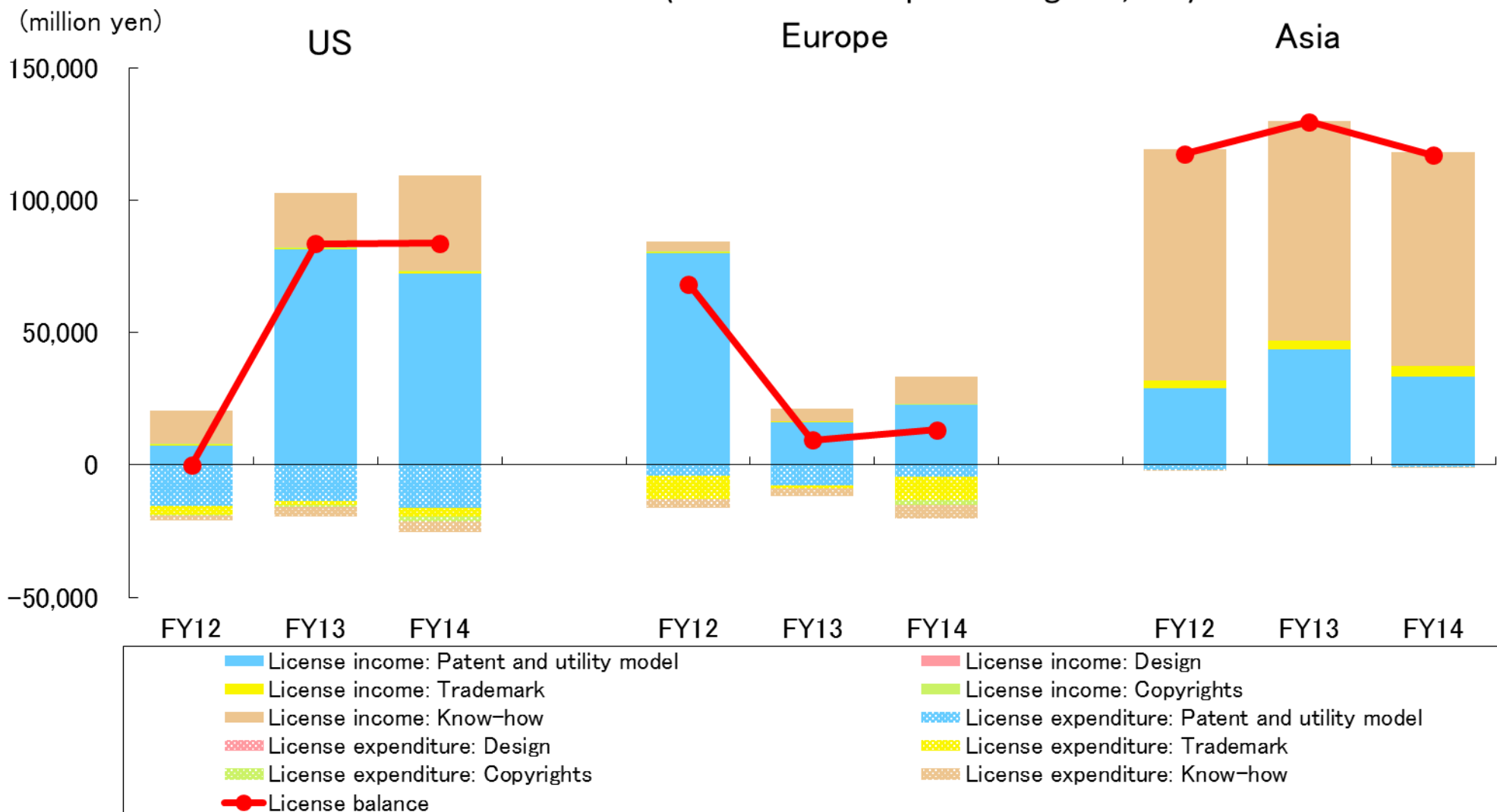
Licensing Balance in terms of Domestic and Foreign Corporations (by IP Right) (Panel data tabulation)



Result: Licensing Balance (2)

License Balance by Country and by IP Right

Panel data tabulation (Number of Samples foreign : 1,196)



Case Example: Using IP Activity Survey

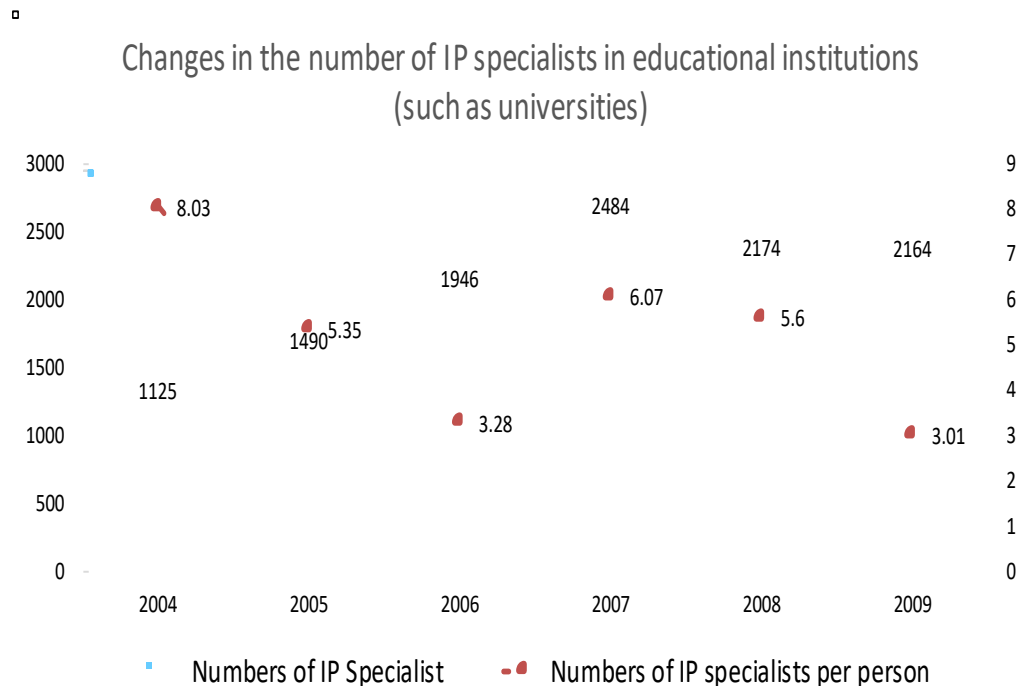
The Expert Panel organized by the Secretariat of Intellectual Property Strategy Headquarters, Cabinet Secretariat, and held in February 2013 recognized that it was important to develop IP human resources of companies, etc. based on the results of IP activity survey.



✓ Decrease in the number of IP human resources of companies, etc.



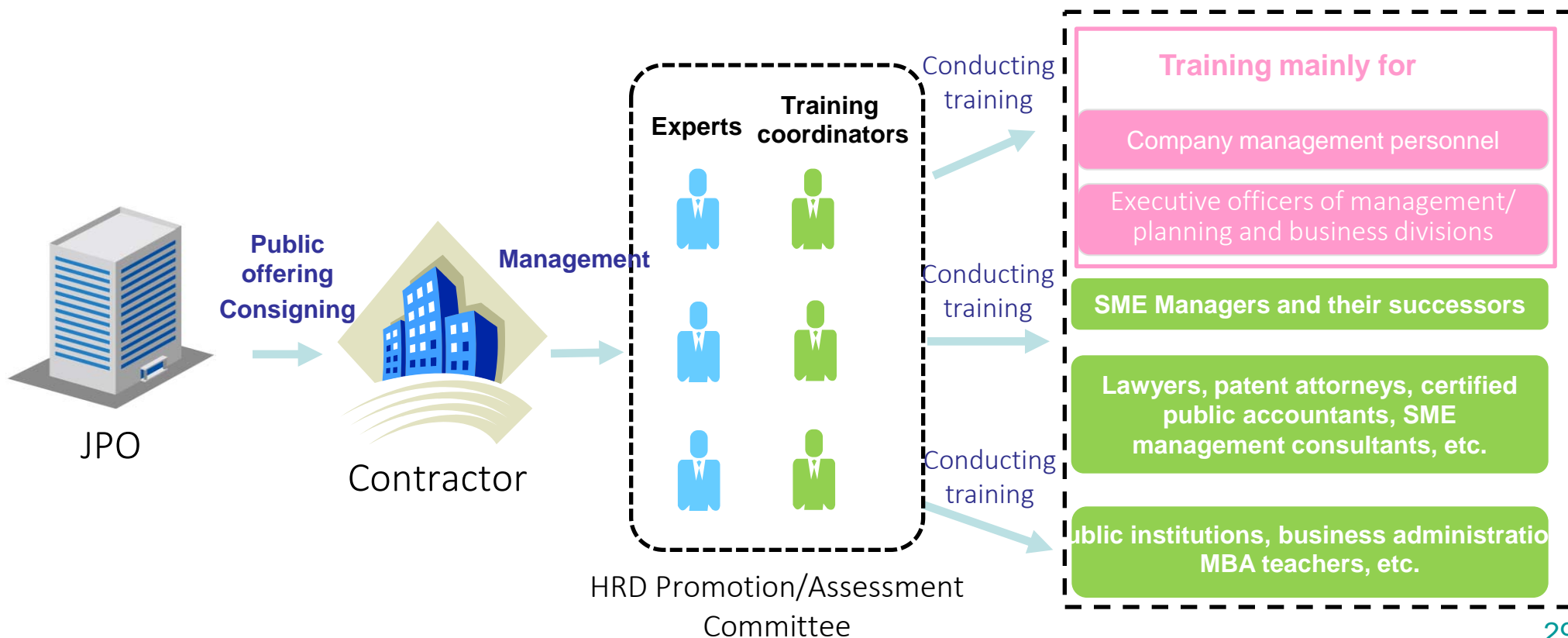
Source: The 2011 Survey Report on IP Activities



Source: The 2010 Survey Report on IP Activities

- Program for Promoting Global IP Management HR Development -

- For company management personnel, executive officers of planning/research division and so on, the JPO formulates training themes every year (3 to 5 themes per year and 12 themes in total are planned), develops training materials for each theme, and conducts a review training program (once a year).
- The HRD Promotion/Assessment Committee comprised of outside experts discusses issues of skills, knowledge, necessary curricula, etc., which are required for the global IP management personnel.



WIPO Sub-Regional Workshop on the Development and Effective Use of Intellectual Property Statistics
for ARIPO Member States, in Harare, September 14 to 16, 2016

Thank you!

