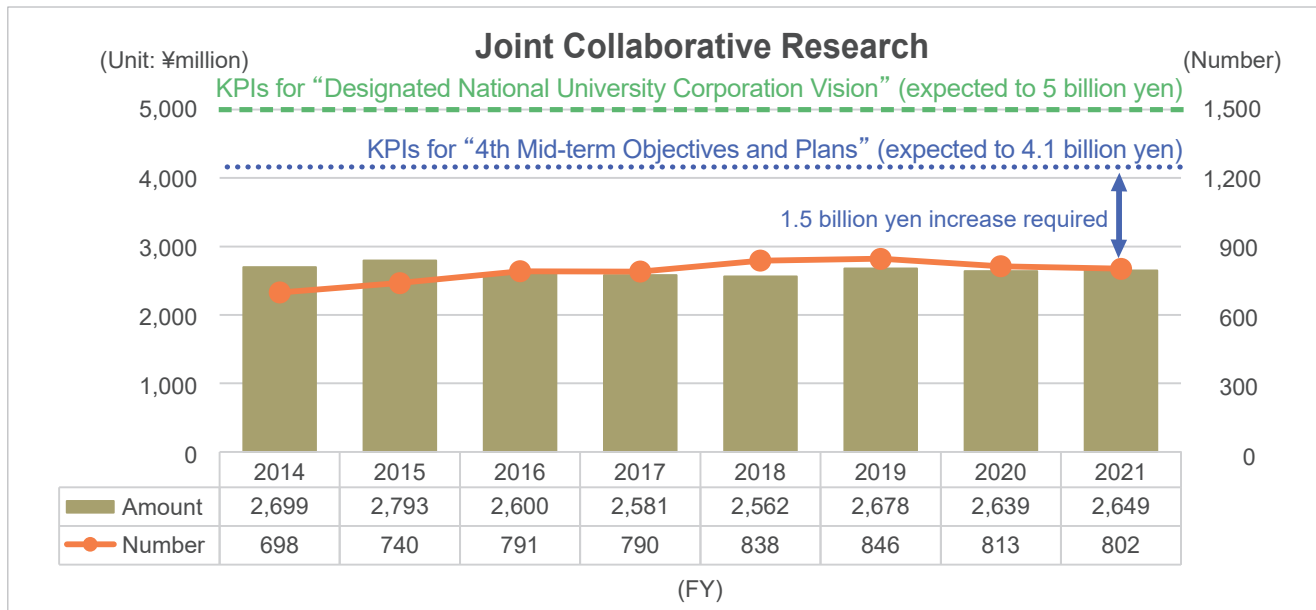


11. Industry-University-Government Collaboration

11-1. Joint Collaborative Research

11-1-1. Joint Collaborative Research (Overall)

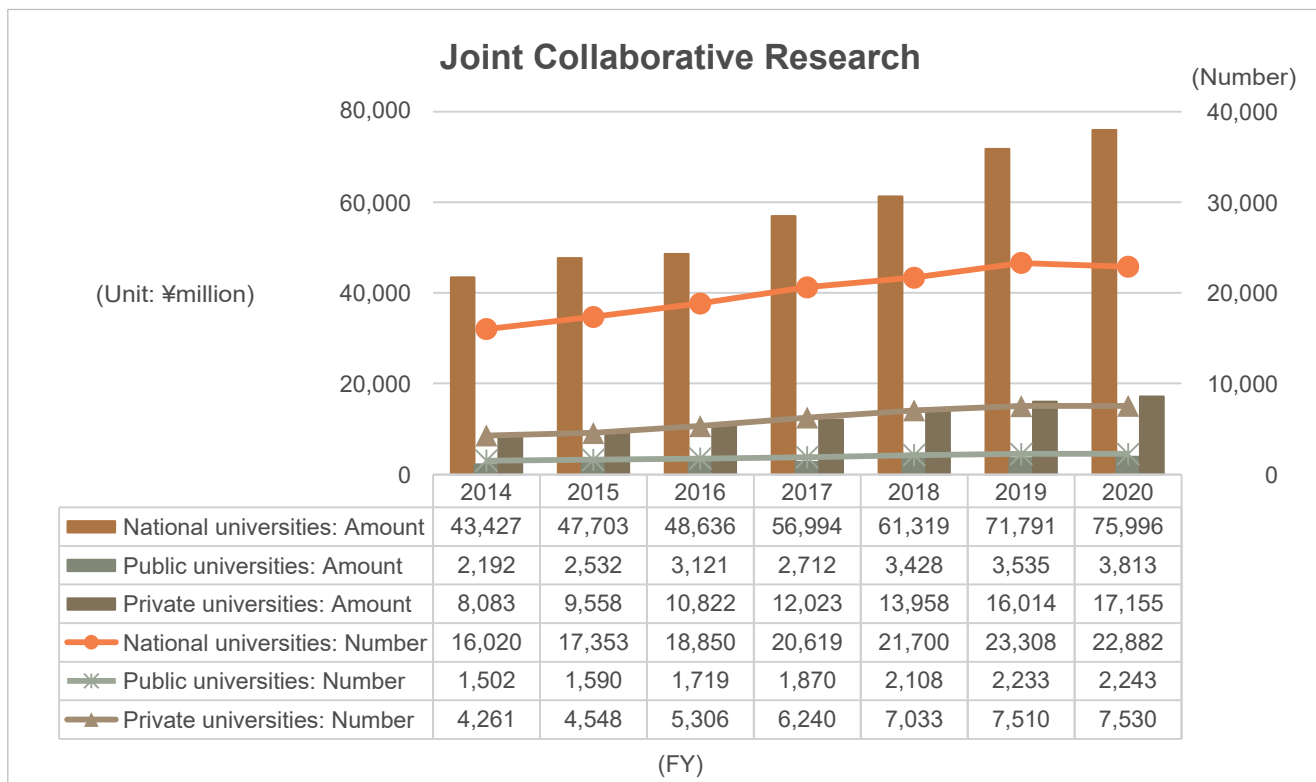
◆Kyushu University◆ ★Key Performance Indicators (KPI) for the Designated National University Corporations



• Under ¥1 million, sums are rounded down.

Source: Kyushu University Information

◆Nationwide◆



• The data does not include junior colleges, vocational schools, technical colleges or research institutions.

• Under ¥1 million, sums are rounded down.

Source: MEXT, Implementation of Industry-University Cooperative Research, etc. at Universities, Individual Results (Data by Institution), Form 2 "Joint Research"

11-1-1. Joint Collaborative Research (Overall) (Continued)

◆Comparisons with Other Universities◆

Number of Joint Collaborative Research Projects with the Private Sector Nationwide: National, Public, and Private Universities

Income from Joint Collaborative Research with the Private Sector Nationwide: National, Public, and Private Universities

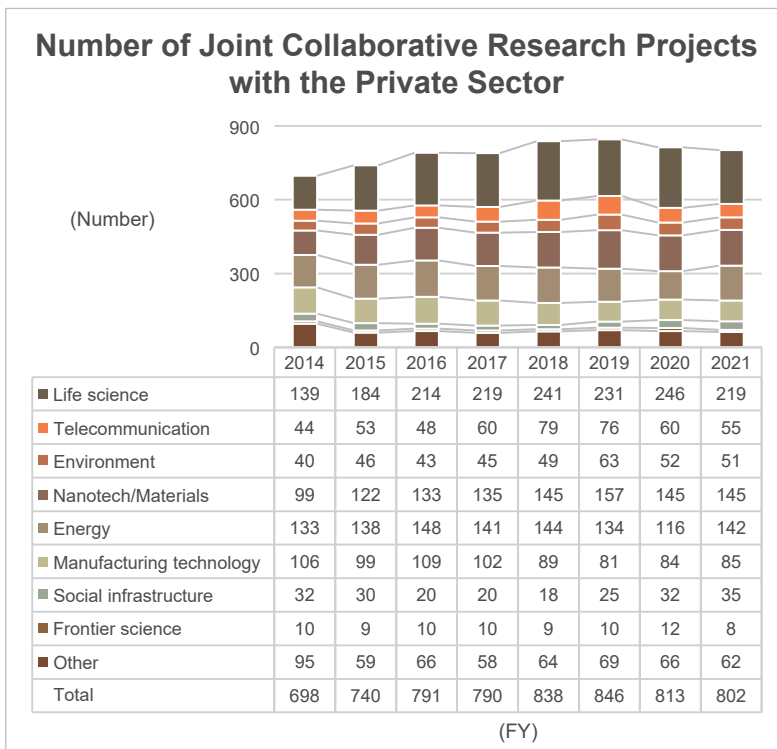
Income per Project from Joint Collaborative Research with the Private Sector Nationwide: National, Public, and Private Universities

(Unit: million)			(Unit: ¥1,000)						
Rank	University	Number	Rank	University	Income	Rank	University	Income per project	Number
1	The University of Tokyo	1,977	1	The University of Tokyo	13,249	1	Kitasato University	9,042	59
2	Osaka University	1,382	2	Osaka University	9,014	2	Kyoto University of Advanced Science	8,971	11
3	Tohoku University	1,306	3	Kyoto University	5,935	3	Fujita Health University	8,586	30
4	Kyoto University	1,300	4	Tohoku University	5,171	4	Juntendo University	7,396	199
5	Keio University	734	5	Nagoya University	3,983	5	Saitama Institute of Technology	7,046	12
6	Kyushu University	716	6	Keio University	3,241	6	The University of Tokyo	6,702	1,977
7	Tokyo Institute of Technology	695	7	Tokyo Institute of Technology	2,702	7	Osaka University	6,523	1,382
8	Hokkaido University	636	8	Kyushu University	2,118	8	Nagoya University	6,436	619
9	Nagoya University	619	9	Hokkaido University	2,005	9	St. Luke's International University	5,758	15
10	Kobe University	586	10	University of Tsukuba	1,497	10	Tokyo Medical University	5,688	45
						⋮			
						34	Kyushu University	2,959	716

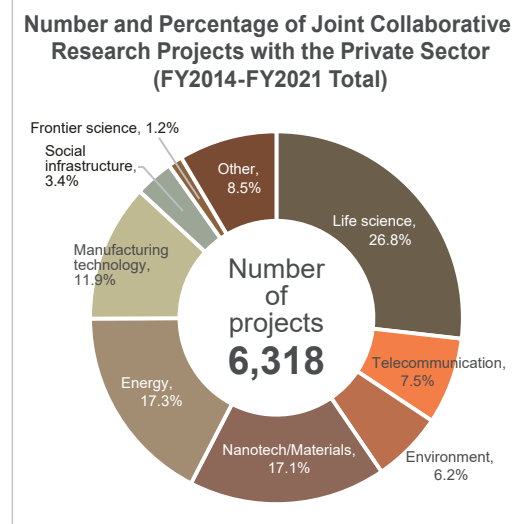
- “The amount of joint research expenses shared with private companies” is rounded down to under ¥1 million.
- “Income per Project from Joint Collaborative Research with the Private Sector” does not include institutions with less than 10 projects.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities, Individual Results (Data by Institution), Form 2 “Joint Research”*

11-1-2. Joint Collaborative Research (by Field)



◆Kyushu University◆



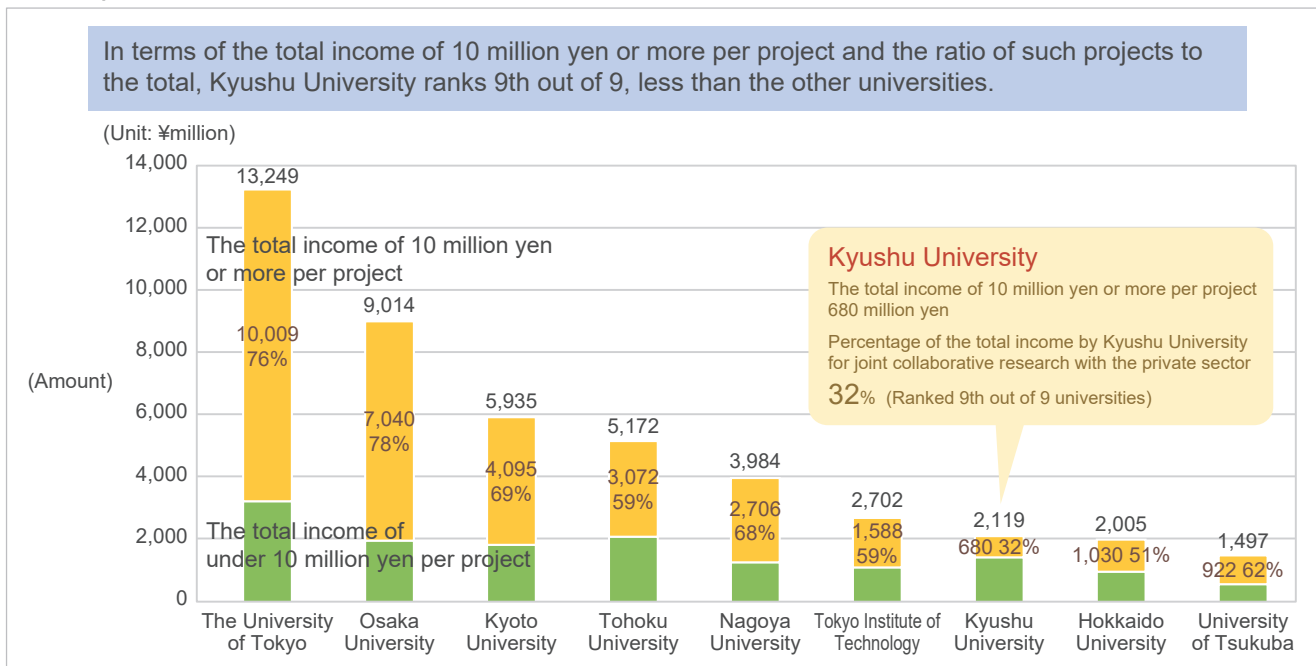
- In this study, “joint collaborative research” refers to research jointly by a university or similar institution and industry and private organizations, etc., in which necessary project expenses incurred by the university, etc. are covered by the private organization, etc.

Source: *Kyushu University Information*

11-1-2. Joint Collaborative Research (by Field) (Continued)

Reference: Joint Collaborative Research with the Private Sector, Income, Breakdown of Amounts by Size (FY2020)

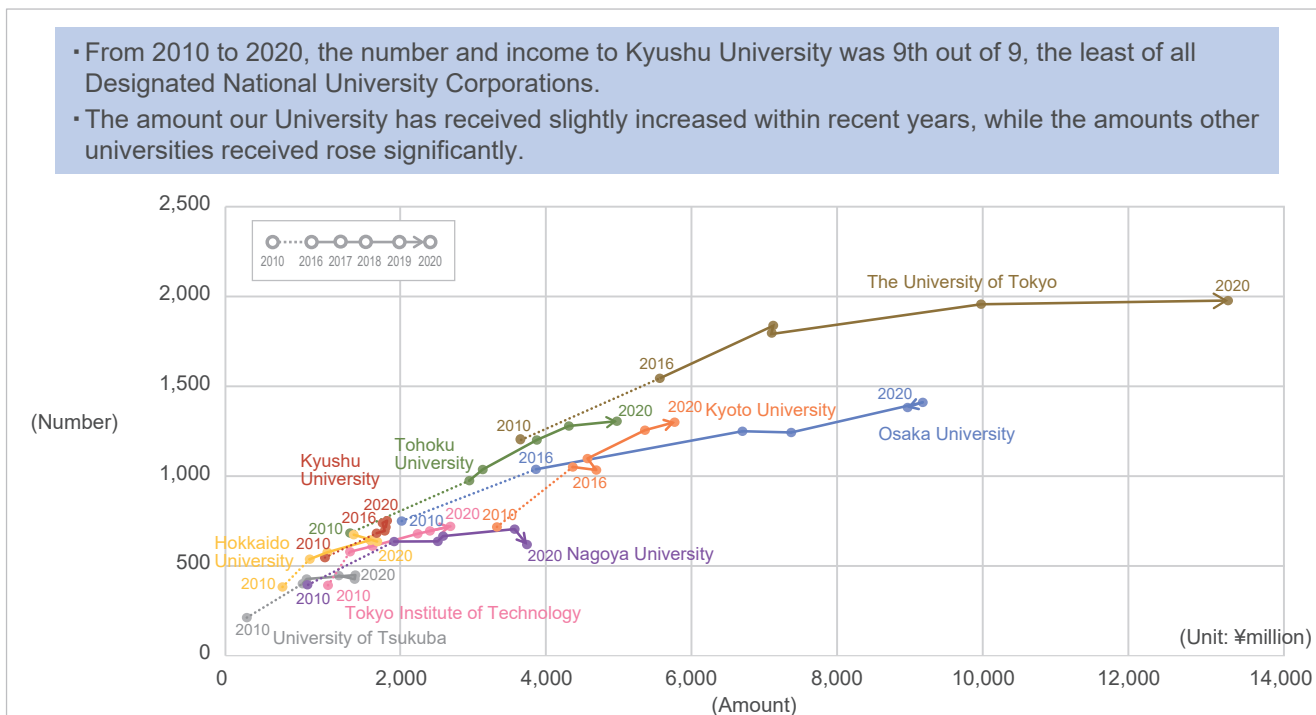
◆ Comparisons with Other Universities ◆



• This data is compared with nine Designated National University Corporations (excluding Hitotsubashi University and Tokyo Medical and Dental University) as well as Hokkaido University.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities* (FY2020)

Reference: Number of Joint Collaborative Research Projects with the Private Sector/Acceptance Trends Over Time (FY2010-FY2020)



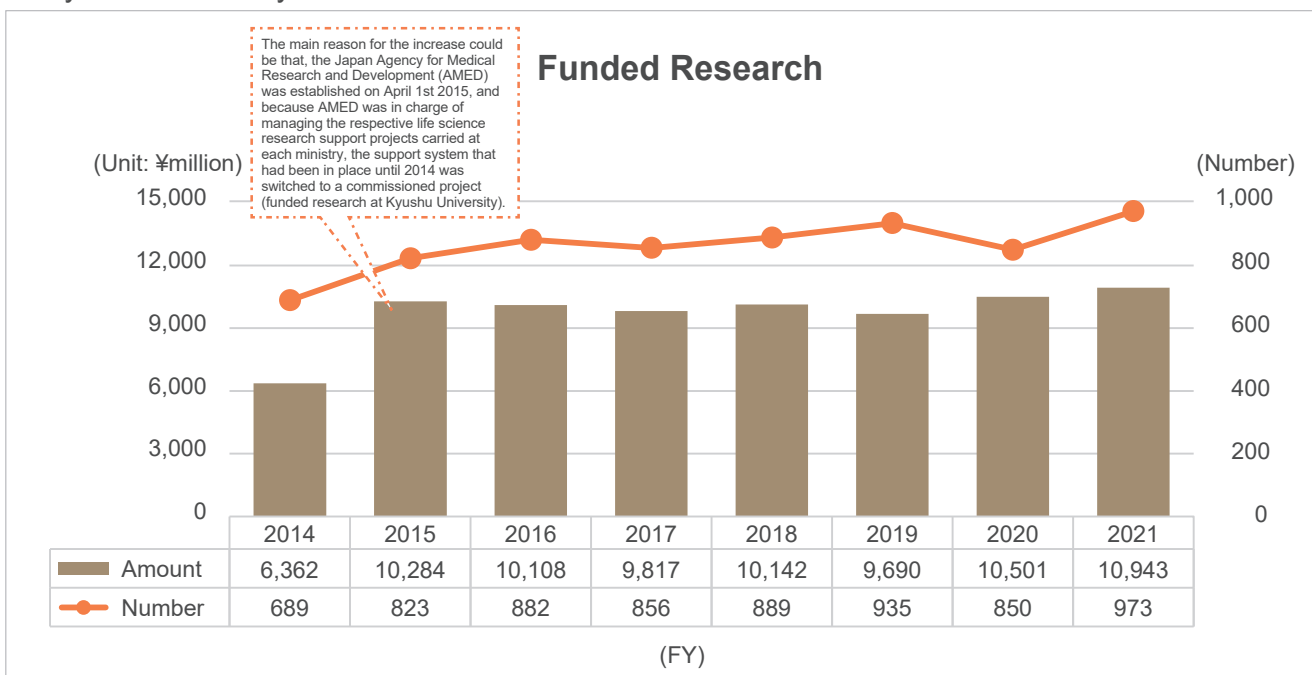
• This data is compared with nine Designated National University Corporations (excluding Hitotsubashi University and Tokyo Medical and Dental University) as well as Hokkaido University.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities* (FY2010-FY2020)

11-2. Funded Research

11-2-1. Funded Research (Overall)

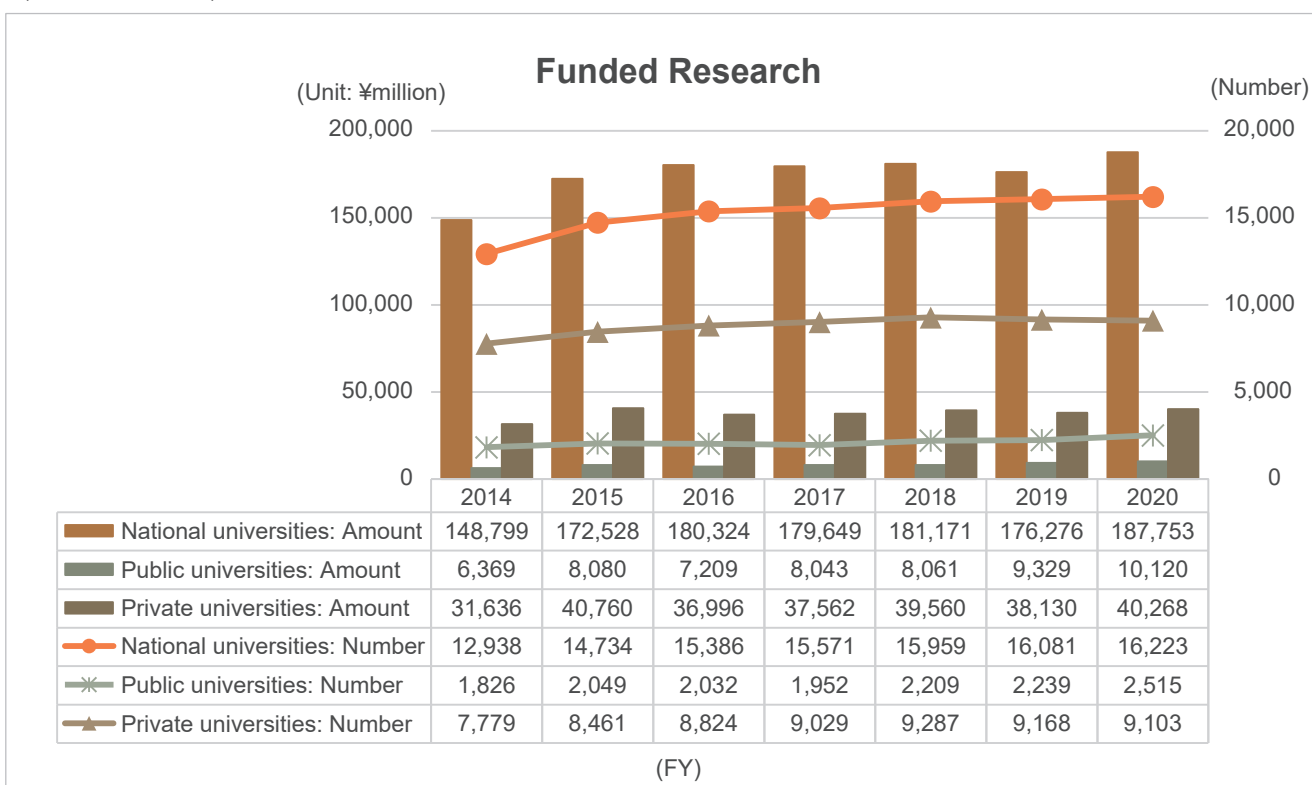
◆Kyushu University◆



• Under ¥1 million, sums are rounded down.

Source: *Kyushu University Information*

◆Nationwide◆



• The data does not include junior colleges, vocational schools, technical colleges or research institutions.

• Under ¥1 million, sums are rounded down.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities, Individual Results (Data by Institution), Form 3-1 "Funded Research"*

11-2-1. Funded Research (Overall) (Continued)

◆ Comparisons with Other Universities ◆

Number of Research Projects Funded by the Private Sector Nationwide: National, Public, and Private Universities

Income from Research Funded by the Private Sector Nationwide: National, Public, and Private Universities

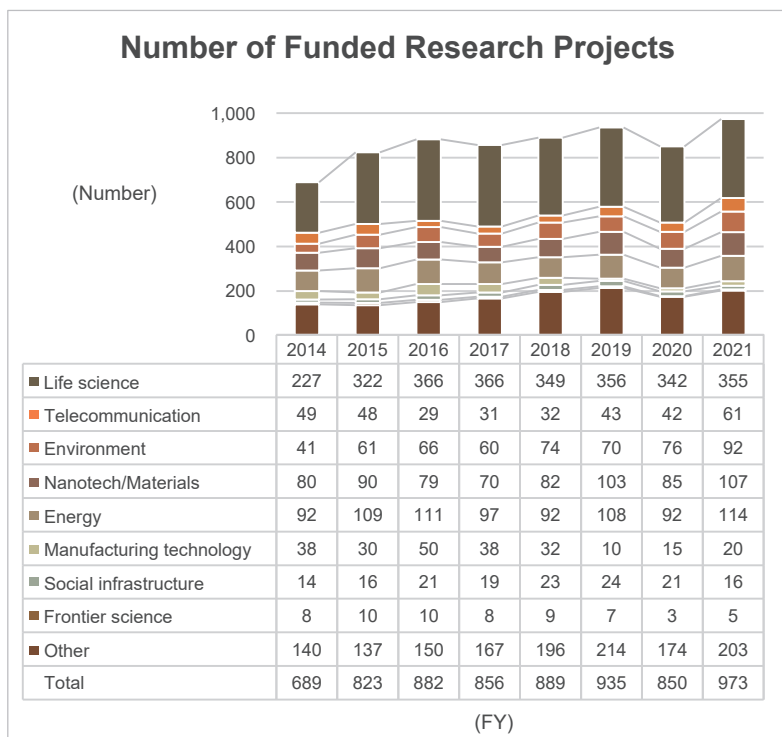
Income per Project from Research Funded by the Private Sector Nationwide: National, Public, and Private Universities

(Unit: ¥1,000)			(Unit: ¥1,000)			(Unit: ¥1,000)			
Rank	University	Number	Rank	University	Income	Rank	University	Income per project	Number
1	Kindai University	312	1	Waseda University	725,924	1	Kansai University	7,862	38
2	Ritsumeikan University	203	2	Keio University	605,832	2	Nagoya University	6,741	85
3	Waseda University	178	3	Nagoya University	572,956	3	Yokohama National University	5,542	14
4	Keio University	174	4	Osaka University	541,229	4	Yokohama City University	5,303	72
5	Nihon University	171	5	Kyoto University	488,502	5	Kyoto University	5,036	97
6	Osaka University	169	6	The University of Tokyo	460,358	6	Nagoya Institute of Technology	4,850	18
7	Takushoku University	161	7	Kyushu University	395,528	7	University of Tsukuba	4,839	42
8	Juntendo University	160	8	Nihon University	389,328	8	Kanagawa Institute of Technology	4,331	10
9	The University of Tokyo	159	9	Yokohama City University	381,783	9	University of the Ryukyus	4,114	30
10	Nagasaki University	137	10	Nara Medical University	321,931	10	Wakayama Medical University	4,100	51
11	Kyushu University	122	(2020)			:			
11	Osaka City University	122	(2020)			14	Kyushu University	3,242	122

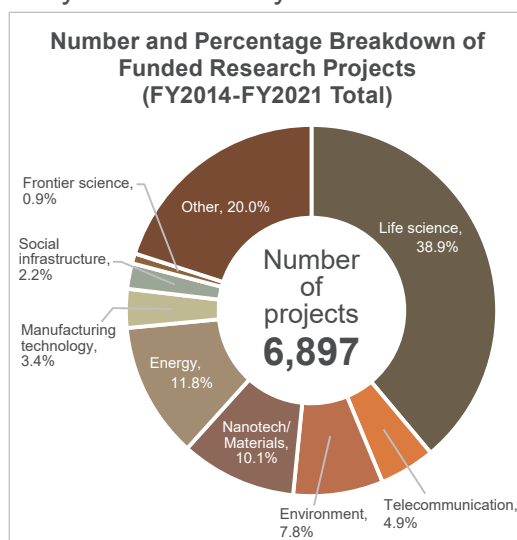
• “Income per Project from Research Funded by the Private Sector” does not include institutions with less than 10 projects.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities, Individual Results (Data by Institution), Form 3-1 “Funded Research”*

11-2-2. Funded Research (by Field)



◆ Kyushu University ◆

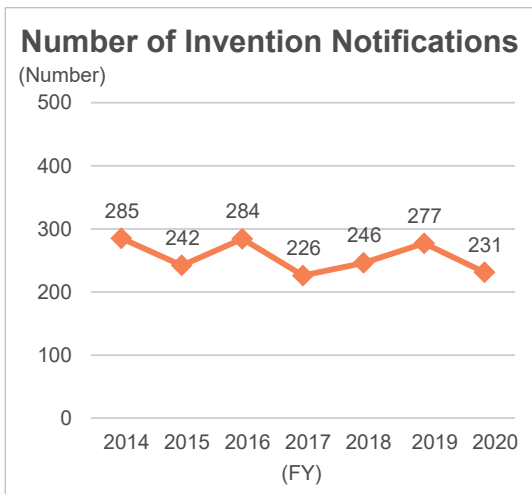


• In this study, “funded research” refers to research to a university by a private sector company, etc., in which, in most cases, the university, etc. alone conducts the research and development, with the expenses incurred being covered by the private organization, etc.

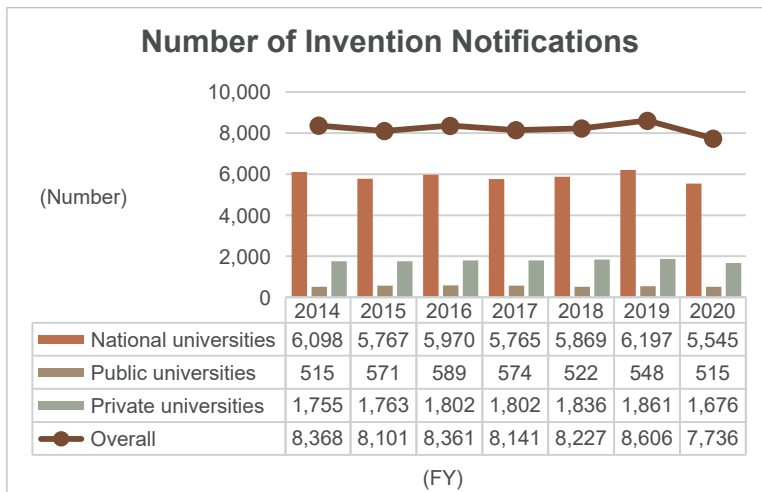
Source: *Kyushu University Information*

11-3. Intellectual Property

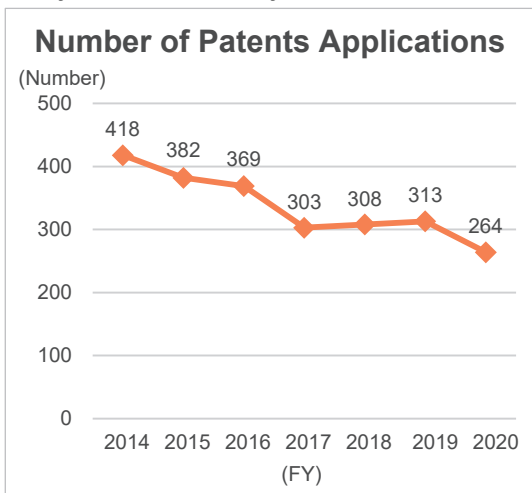
◆ Kyushu University ◆



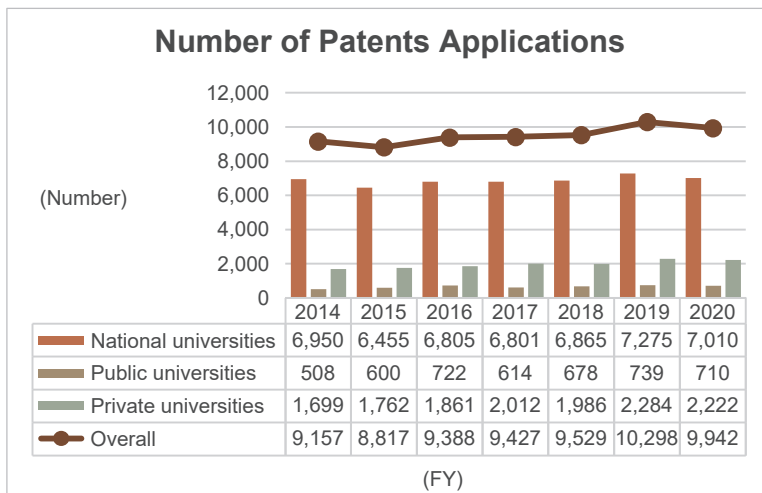
◆ Nationwide ◆



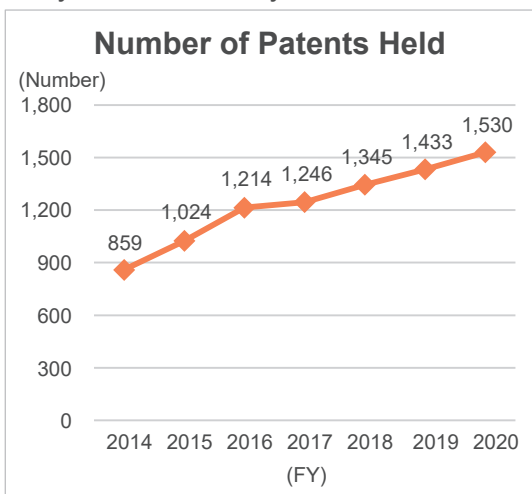
◆ Kyushu University ◆



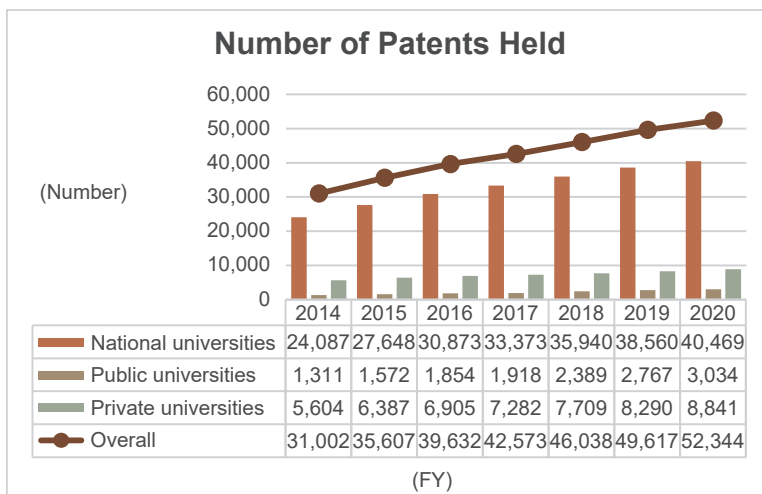
◆ Nationwide ◆



◆ Kyushu University ◆



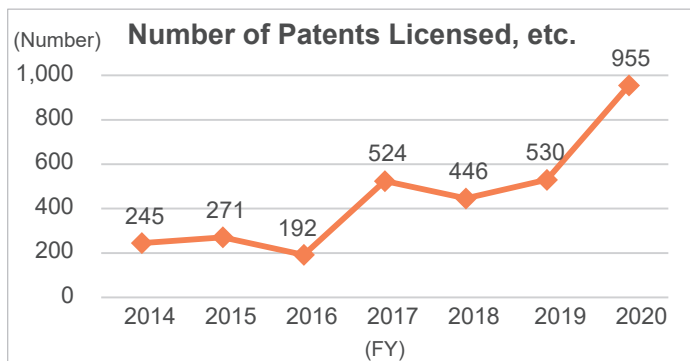
◆ Nationwide ◆



Source: Kyushu University Number of Invention Notifications: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*, Individual Results (Data by Institution), Form 4 "Status of Inventions"
 Number of Patents Applications, Number of Patents Held: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*, Individual Results (Data by Institution), Form 5 "Patent Acquisition and Management Status, Patent Application Expenditure"
 Nationwide MEXT, *Implementation of Industry-University Cooperative Research etc. at Universities*

11-3. Intellectual Property (Continued)

◆Kyushu University◆

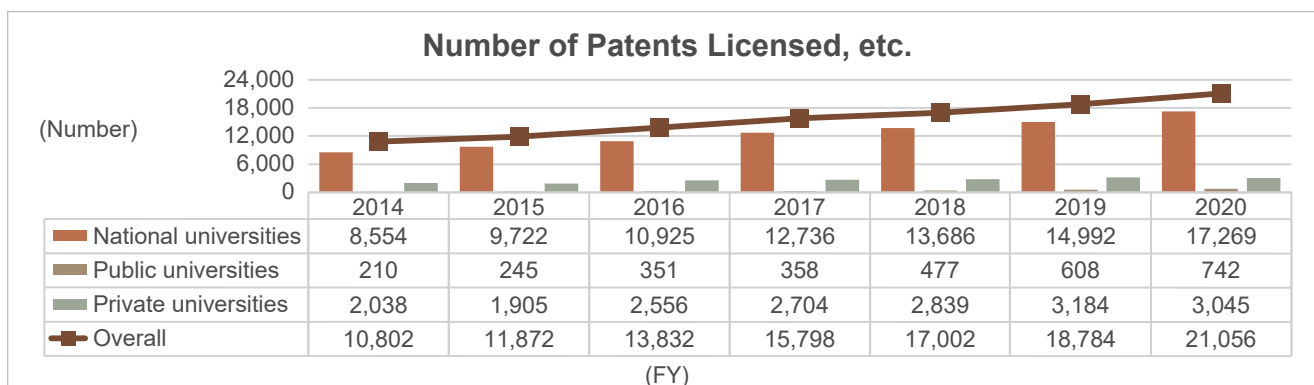


Number of Patents Licensed, etc. (including overseas)

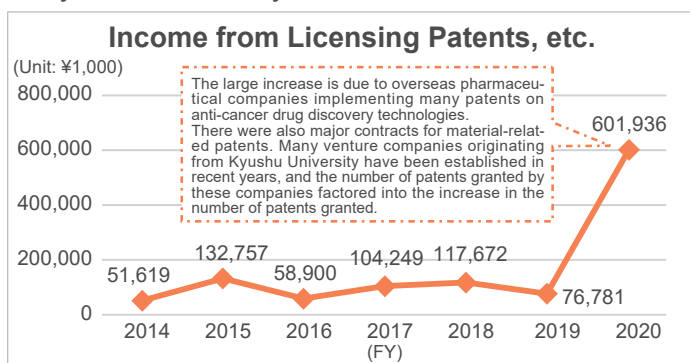
Rank	University	Number
1	The University of Tokyo	4,033
2	Kyoto University	1,992
3	Osaka University	1,278
4	Hokkaido University	1,179
5	Kyushu University	955
6	Kanto Gakuin University	893
7	Tokyo Institute of Technology	874
8	Nagoya University	685
9	Keio University	464
10	Hiroshima University	425

(2020)

◆Nationwide◆



◆Kyushu University◆

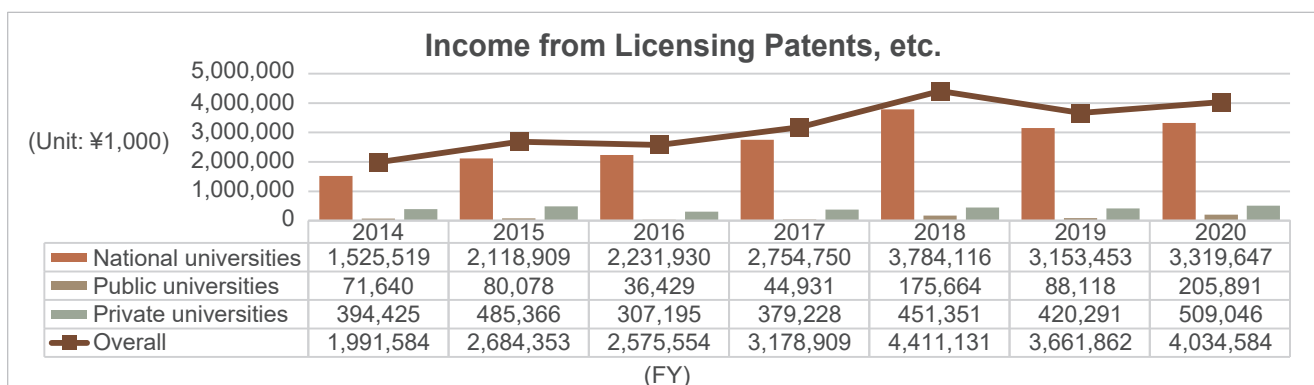


Income from Licensing Patents, etc. (including overseas) (Unit: ¥1,000)

Rank	University	Income
1	Kyoto University	698,373
2	Kyushu University	601,936
3	Osaka University	509,758
4	The University of Tokyo	261,744
5	Tohoku University	157,139
6	Tokushima University	131,417
7	Sapporo Medical University	105,462
8	Hokkaido University	86,700
9	Kindai University	82,359
10	Kobe University	78,768

(2020)

◆Nationwide◆

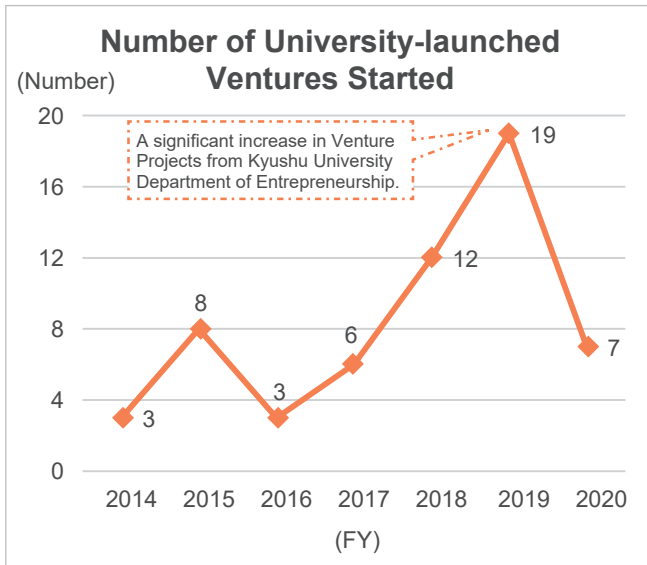


• In this survey, “number of patents licensed, etc.” and “amount of income from licensing patents, etc.” refers to the number of patent rights licensed or assigned (including at the “right to obtain a patent” stage) and the amount of income received as a result.

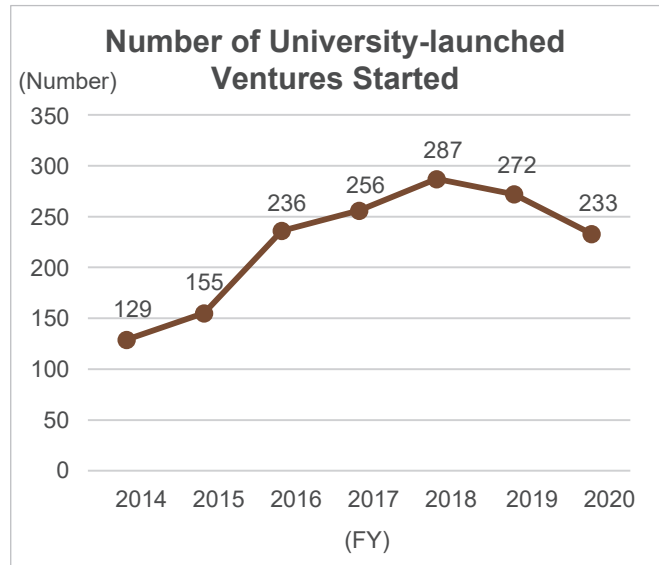
Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*

11-3. Intellectual Property (Continued)

◆Kyushu University◆



◆Nationwide◆



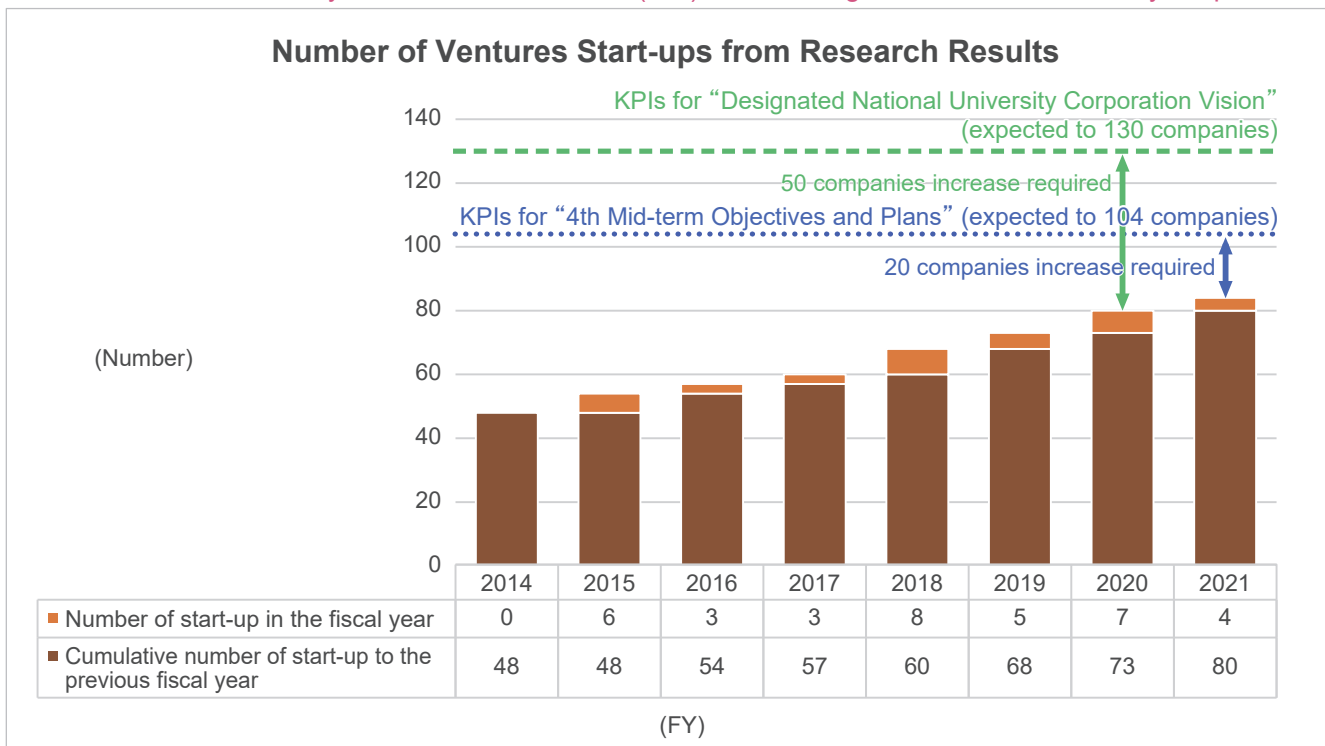
- University-launched Venture Projects means startups in which patents are obtained by university staff and students, or persons related to the university become founders.
- Kyushu University Because the number of established companies between 2014 and 2019 include those for companies newly established since the previous annual survey, the figure is different from that of the previous years.
- Nationwide Because the number of established companies between 2016 and 2019 include those for companies newly established since the previous annual survey, the figure is different from that of the previous years.

Source: Kyushu University MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*, Individual Results (Data by Institution), Form 7 "Rules for Industry-University Collaboration, University Ventures"
 Nationwide MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*

Reference: Number of University Start-ups

◆Kyushu University◆

★Key Performance Indicators (KPI) for the Designated National University Corporations



Source: Kyushu University Open Innovation Platform (as of March 31 each year)