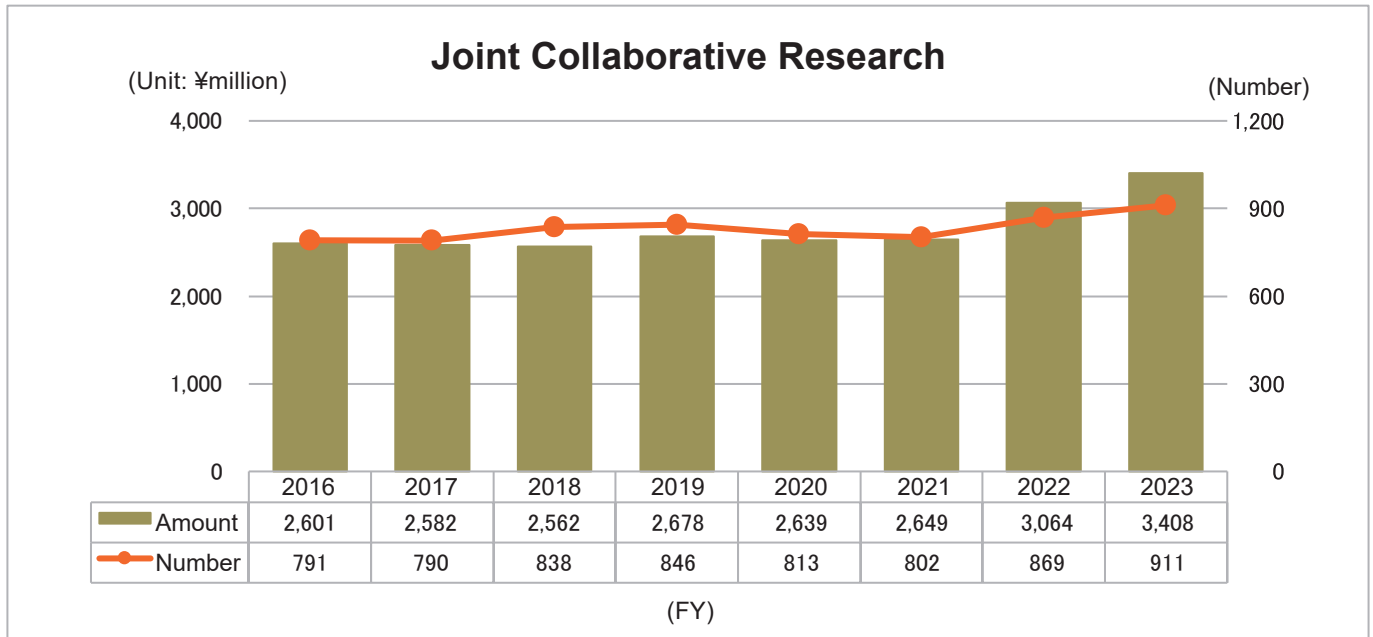


11. Industry-University-Government Collaboration

11-1. Joint Collaborative Research

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

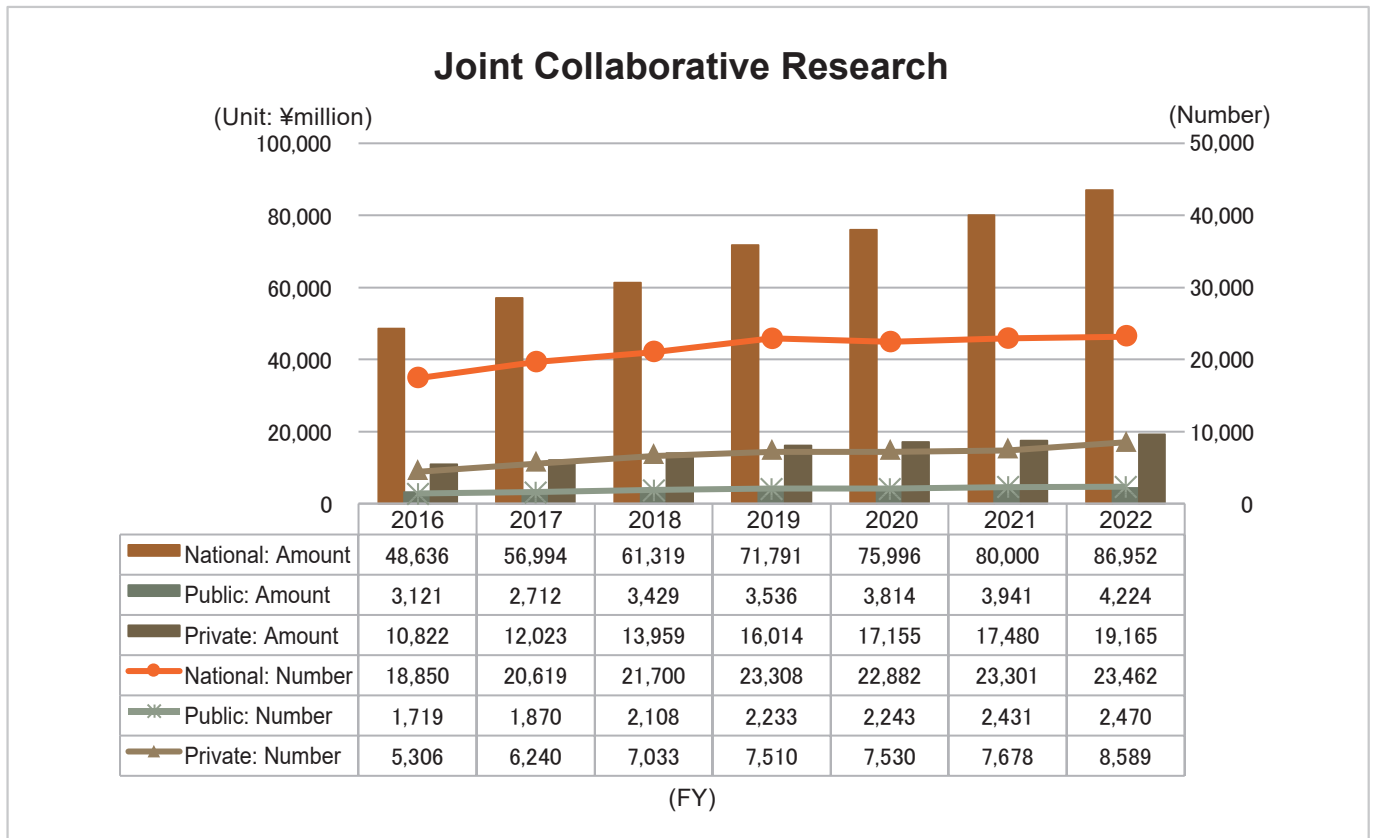
◆ Kyushu University ◆



• Under ¥1 million, sums are rounded.

Source: *Kyushu University Information*

◆ Nationwide ◆



• Data excludes junior colleges, technical colleges or research institutions.

• Under ¥1 million, sums are rounded.

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

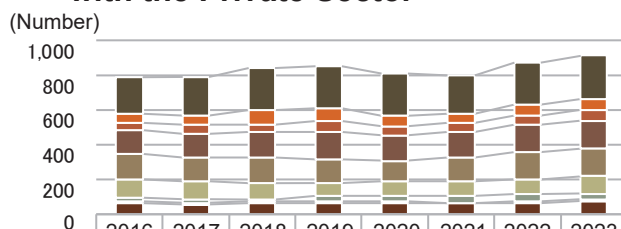
Rank	University	Number	Rank	University	Received Amount (Unit: ¥million)	Rank	University	Income per project (¥1,000)	Number
1	The University of Tokyo	1,911	1	The University of Tokyo	14,645	1	St. Luke's International University	12,176	11
2	Tohoku University	1,400	2	Osaka University	10,182	2	Okinawa Institute of Science and Technology	10,772	14
3	Osaka University	1,374	3	Kyoto University	7,560	3	Juntendo University	9,089	256
4	Kyoto University	1,283	4	Tohoku University	6,438	4	The University of Tokyo	7,663	1,911
5	Keio University	943	5	Nagoya University	4,130	5	Osaka University	7,410	1,374
6	Kyushu University	785	6	Tokyo Institute of Technology	3,498	6	Kitasato University	7,044	56
7	Tokyo Institute of Technology	751	7	Keio University	3,381	7	Kyoto University of Advanced Science	7,004	13
8	Hokkaido University	686	8	Kyushu University	2,632	8	Hirosaki University	6,497	138
9	Nagoya University	652	9	Juntendo University	2,327	9	Nagoya University	6,334	652
10	Kobe University	640	10	Hokkaido University	2,236	10	Kyoto University	5,892	1,283
(2022)						(2022)			
						⋮			
						26	Kyushu University	3,353	785

- “Income from Joint Collaborative Research with the Private Sector Nationwide”: Under ¥1 million, sums are rounded.
- “Income per Project from Joint Collaborative Research with the Private Sector Nationwide”: Under ¥1,000, sums are rounded.
- “Income per Project from Joint Collaborative Research with the Private Sector Nationwide” excludes 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)

Number of Joint Collaborative Research Projects with the Private Sector

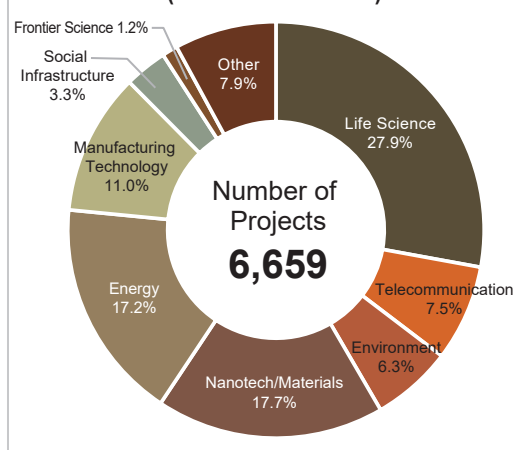


	2016	2017	2018	2019	2020	2021	2022	2023
Life Science	214	219	241	231	246	219	238	248
Telecommunication	48	60	79	76	60	55	58	62
Environment	43	45	49	63	52	51	52	62
Nanotech/Materials	133	135	145	157	145	145	160	161
Energy	148	141	144	134	116	142	161	159
Manufacturing Technology	109	102	89	81	84	85	86	98
Social Infrastructure	20	20	18	25	32	35	38	33
Frontier Science	10	10	9	10	12	8	11	10
Other	66	58	64	69	66	62	64	78
Total	791	790	838	846	813	802	869	911

(FY)

◆ Kyushu University ◆

Number and Percentage of Joint Collaborative Research Projects with the Private Sector (FY2016-2023 Total)

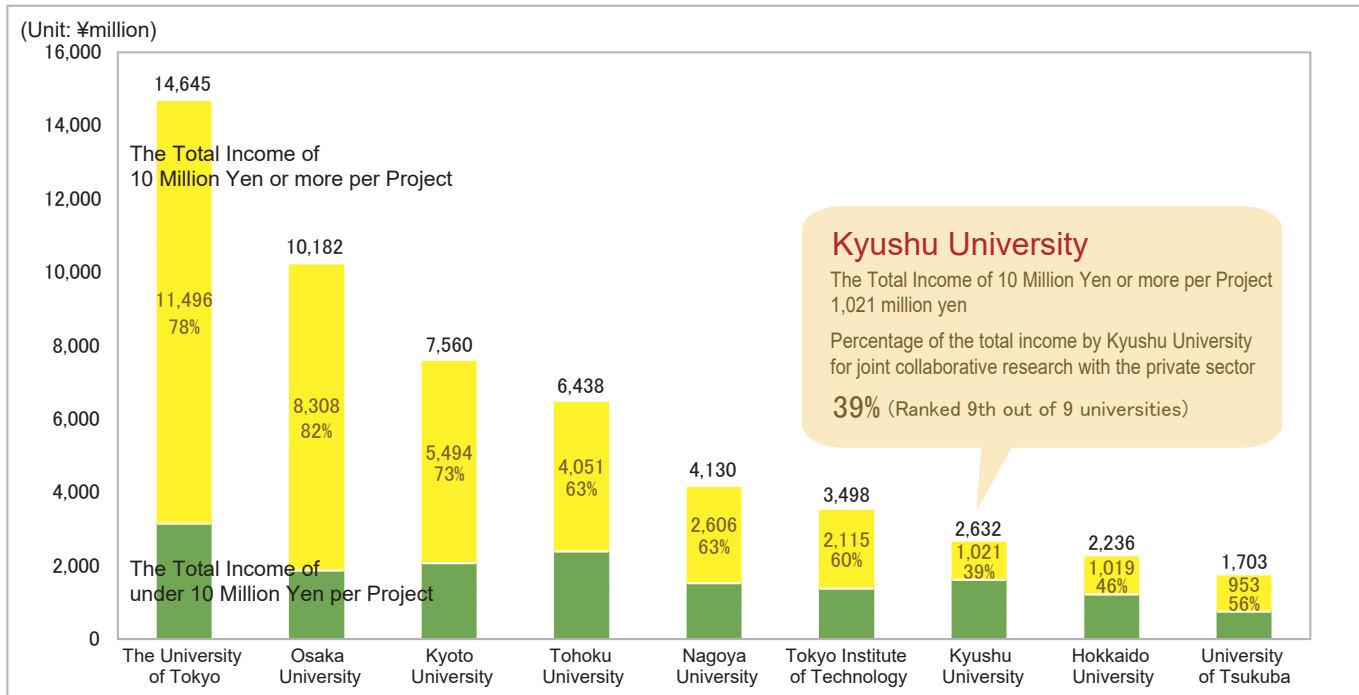


- In this survey, “joint collaborative research” refers to research jointly by a university or similar institution and industry and private organizations, etc., in which necessary project expenses incurred by the university, etc. are covered by the private organization, etc.

Source: *Kyushu University Information*

Reference: Joint Collaborative Research with the Private Sector, Breakdown of Accepted Amounts by Size (FY2022)

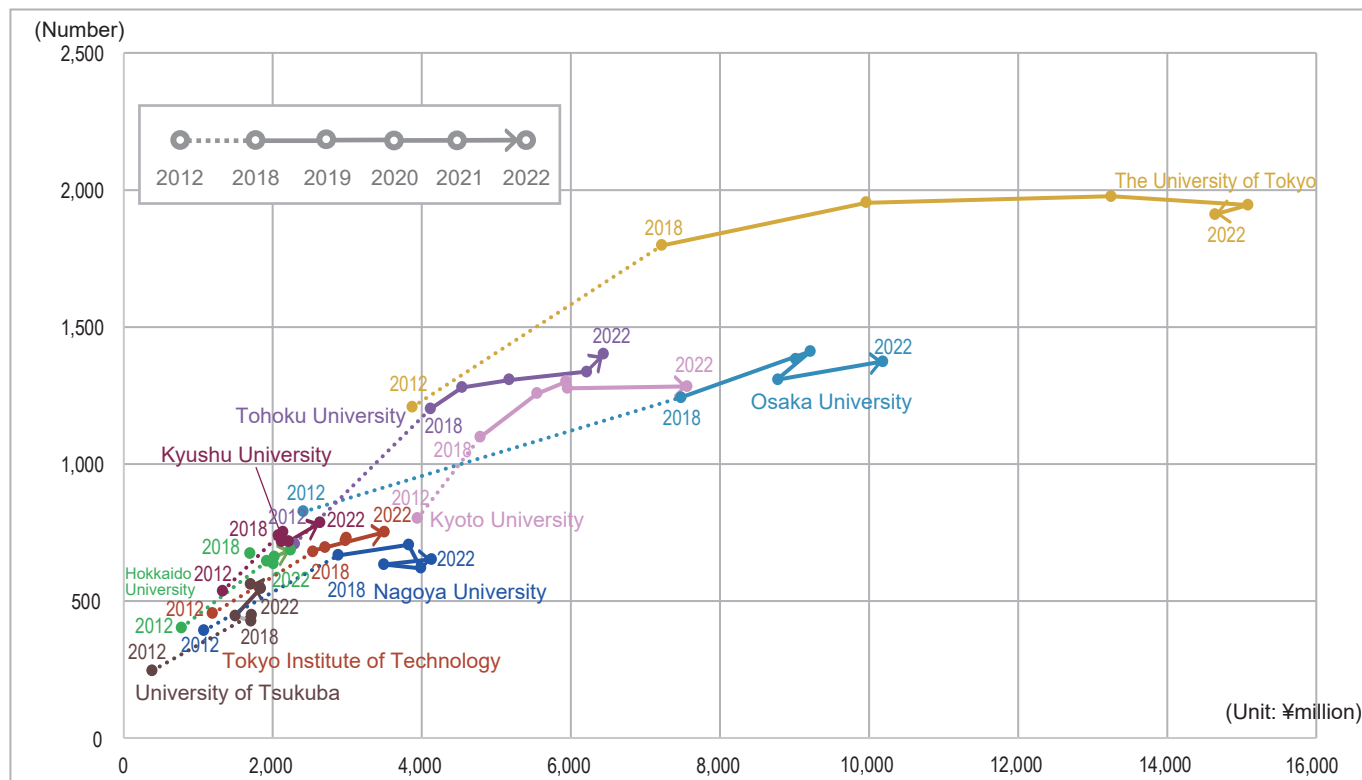
◆ Comparisons With Other Universities ◆



- This data is compared with nine Designated National University Corporations (excluding Hitotsubashi University and Tokyo Medical and Dental University) as well as Hokkaido University.
- Under ¥1 million, sums are rounded.

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

Reference: Number of Joint Collaborative Research Projects with the Private Sector/Acceptance Trends Over Time (FY2012-2022)



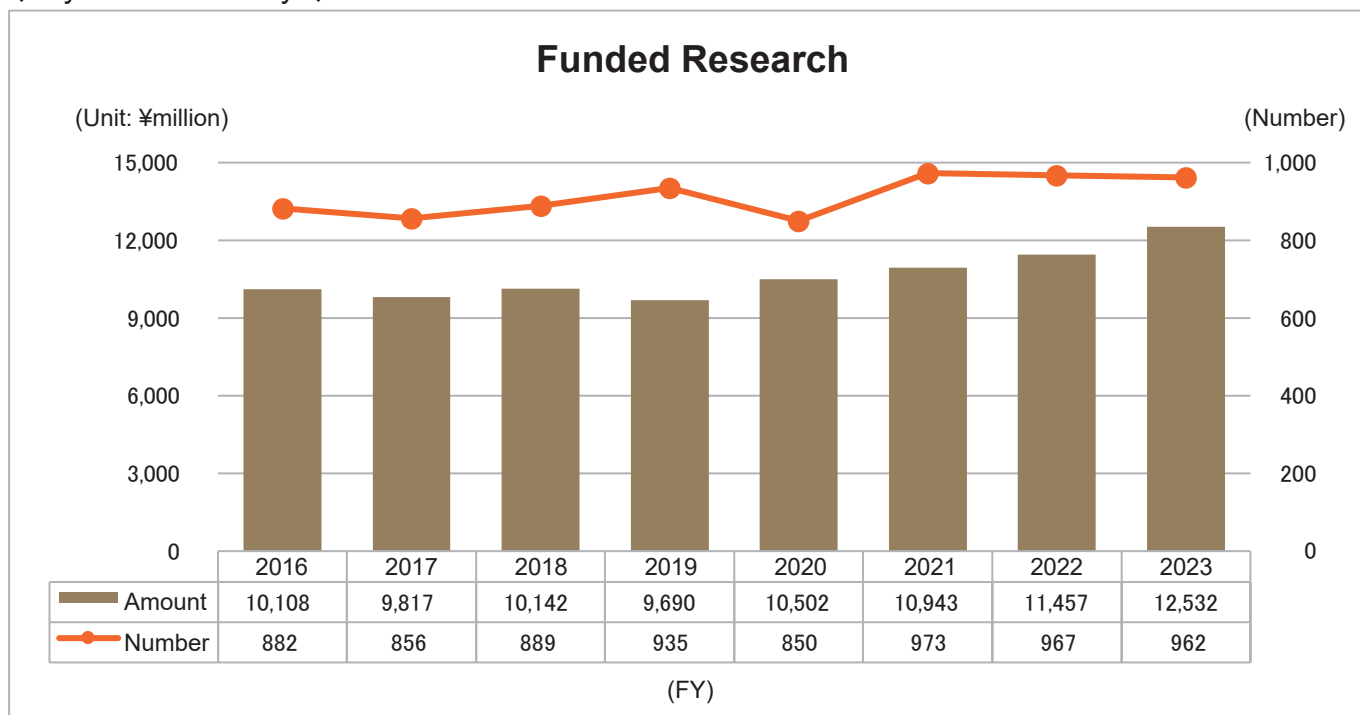
- This data is compared with nine Designated National University Corporations (excluding Hitotsubashi University and Tokyo Medical and Dental University) as well as Hokkaido University.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities* (FY2012-2022)

11-2. Funded Research

11-2-1. Funded Research (Overall)

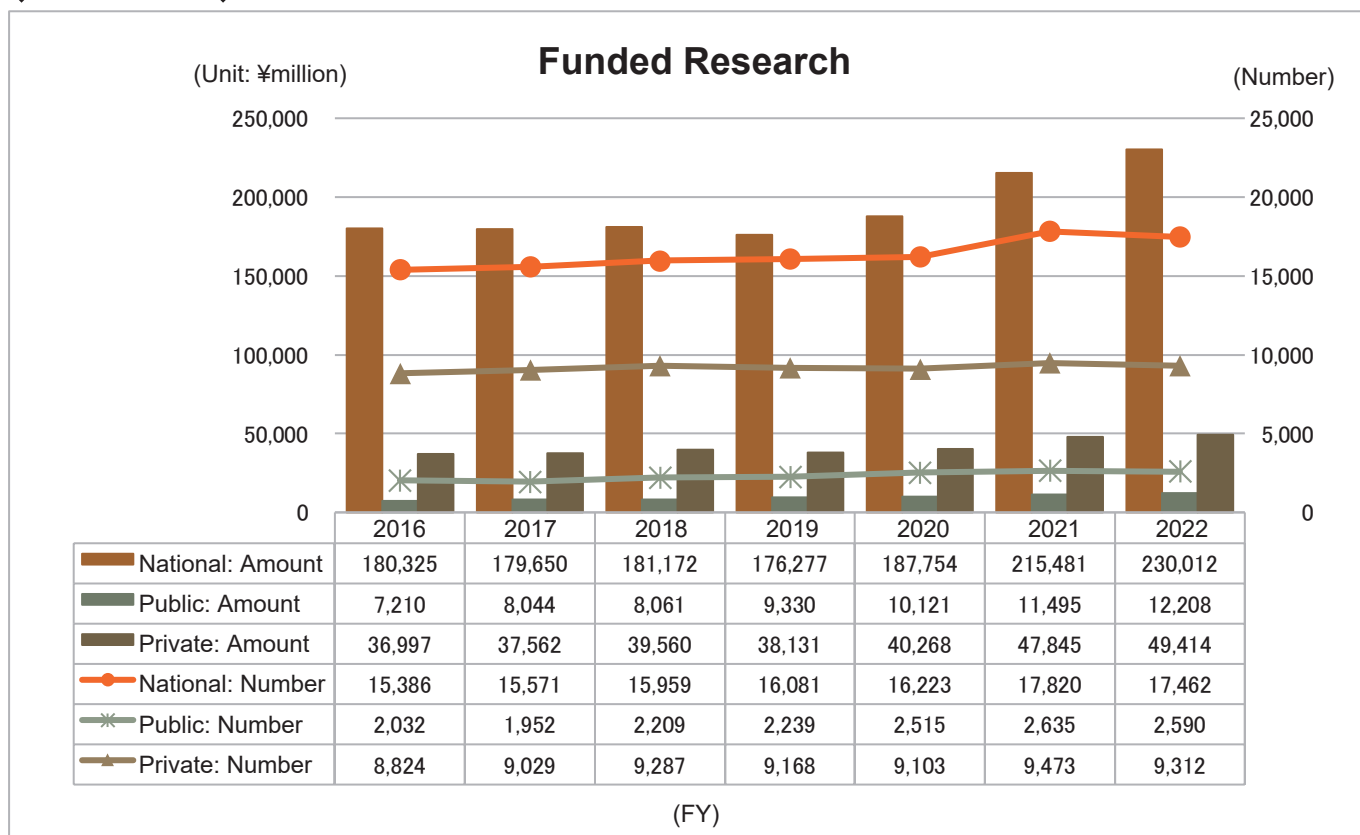
◆ Kyushu University ◆



• Under ¥1 million, sums are rounded.

Source: *Kyushu University Information*

◆ Nationwide ◆



• Data excludes junior colleges, professional training colleges, colleges of technology or research institutions.
 • Under ¥1 million, sums are rounded.

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

Rank	University	Number
1	Kindai University	339
2	Juntendo University	202
3	Nihon University	201
4	Ritsumeikan University	194
5	Hiroshima University	182
6	Kyushu University	180
7	Waseda University	175
8	Nagasaki University	171
9	Takushoku University	150
10	Keio University	149

(2022)

Rank	University	Received Amount (¥1,000)
1	Kyoto University	945,933
2	Keio University	767,585
3	Waseda University	644,073
4	The University of Tokyo	516,681
5	Tokyo Institute of Technology	513,933
6	Nagoya University	414,748
7	Kyushu University	393,437
8	Ritsumeikan University	365,726
9	Kobe University	327,728
10	Osaka University	315,388

(2022)

Rank	University	Income per project (¥1,000)	Number
1	Nagoya University	9,875	42
2	Tokyo Institute of Technology	7,040	73
3	Kansai University	6,834	37
4	Kyoto University	6,757	140
5	Nagoya Institute of Technology	5,867	18
6	Keio University	5,152	149
7	Chuo University	5,009	11
8	Wakayama Medical University	4,742	48
9	Tokyo Dental College	4,546	15
10	Tokyo University of Marine Science and Technology	4,015	16

⋮

29	Kyushu University	2,186	180
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(2022)

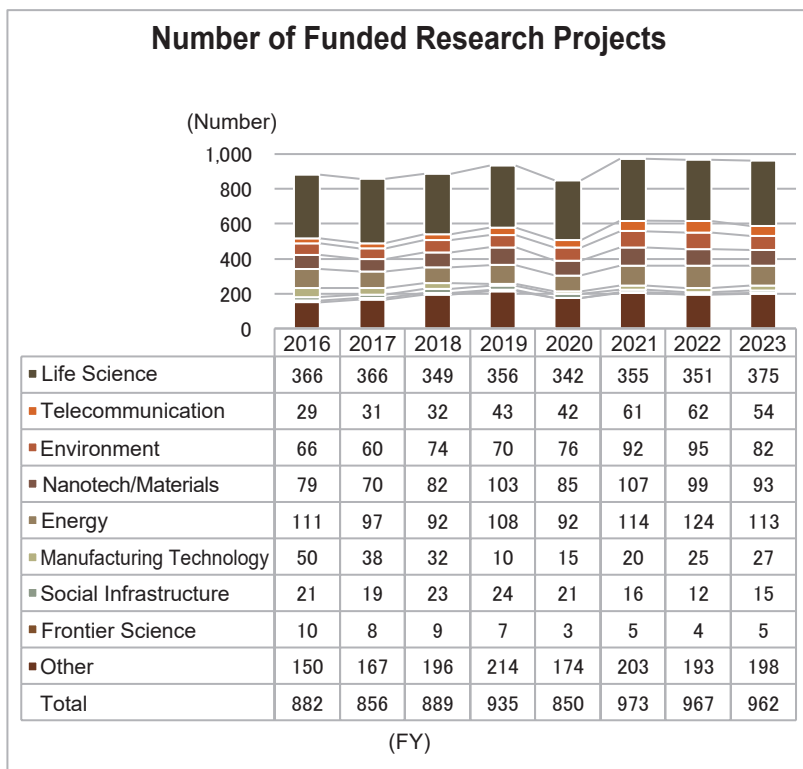
• “Income per Project from Research Funded by the Private Sector Nationwide”:

Under ¥1,000, sums are rounded.

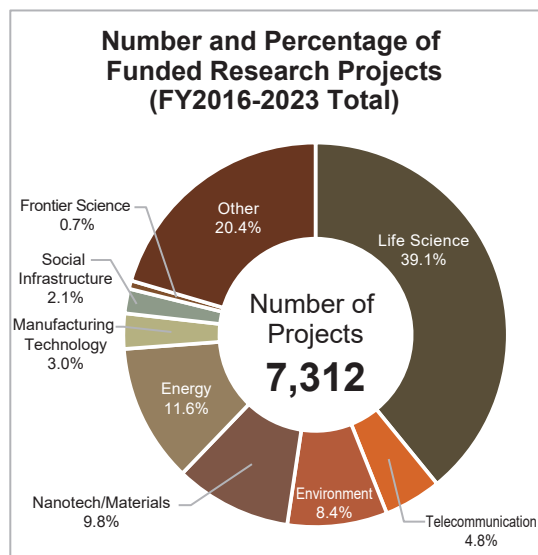
• “Income per Project from Research Funded by the Private Sector Nationwide” excludes institutions with less than 10 projects.

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 ◆

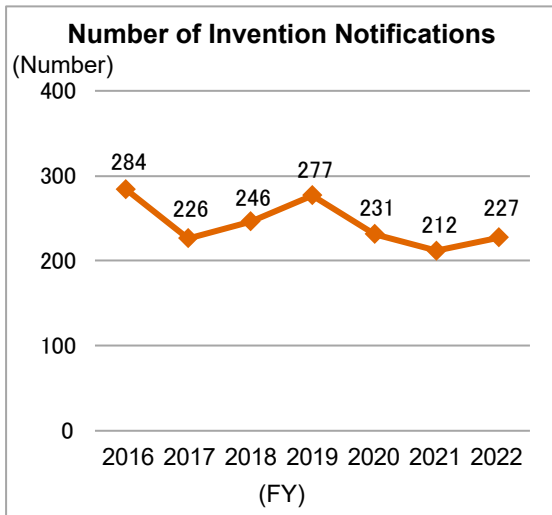


• In this survey, “funded research” refers to research to a university by a private sector company, etc., in which, in most cases, the university, etc. alone conducts the research and development, with the expenses incurred being covered by the private organization, etc.

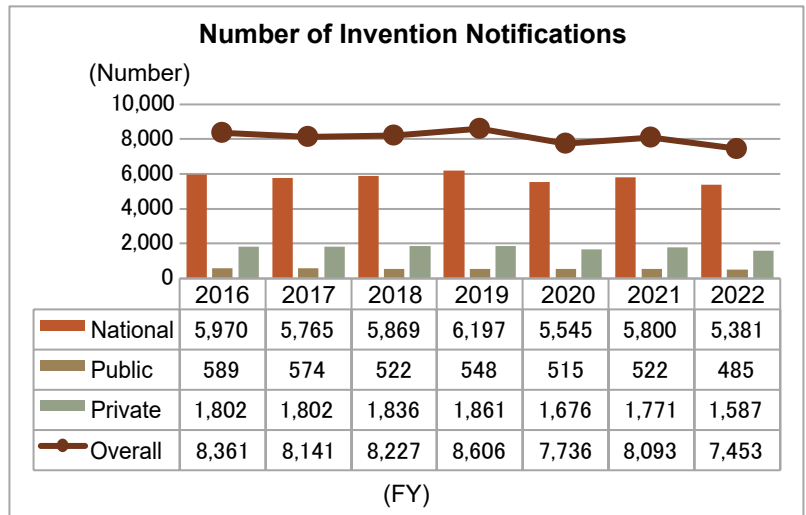
Source: *Kyushu University Information*

11-3. Intellectual Property

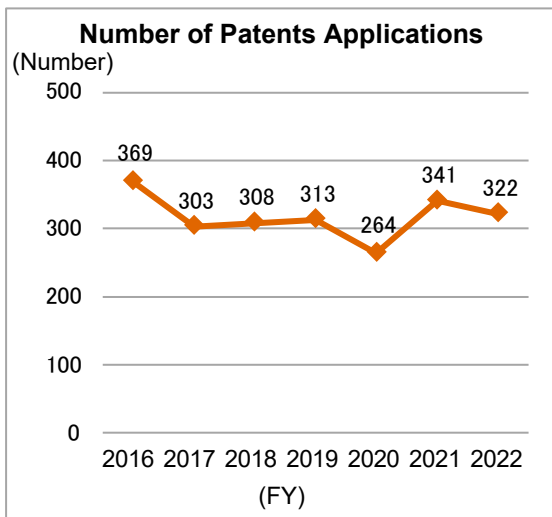
◆ Kyushu University ◆



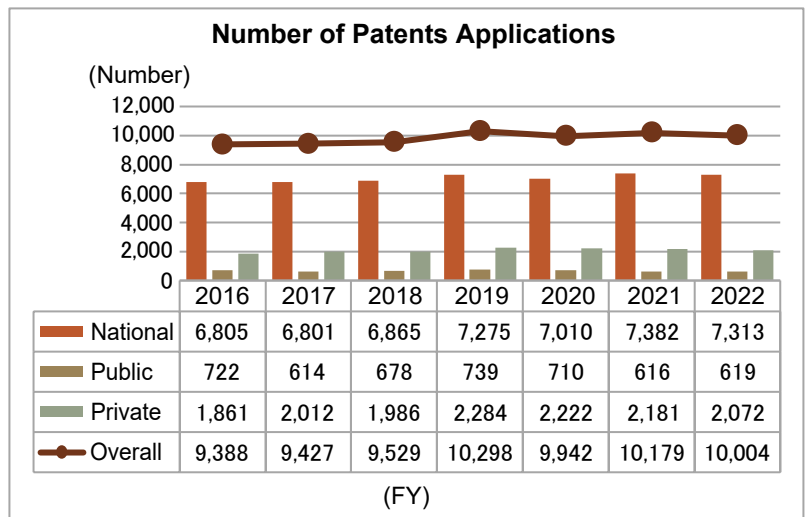
◆ Nationwide ◆



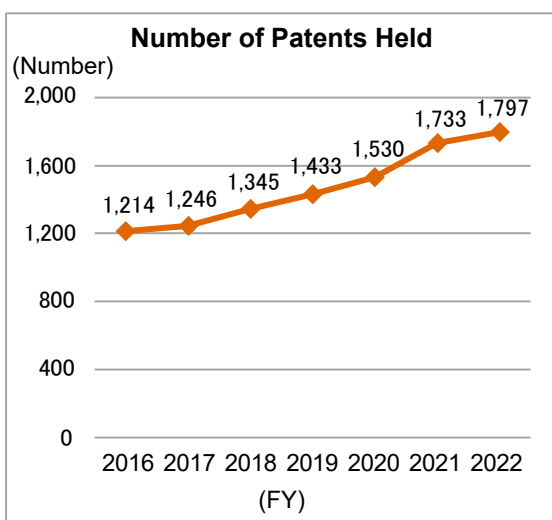
◆ Kyushu University ◆



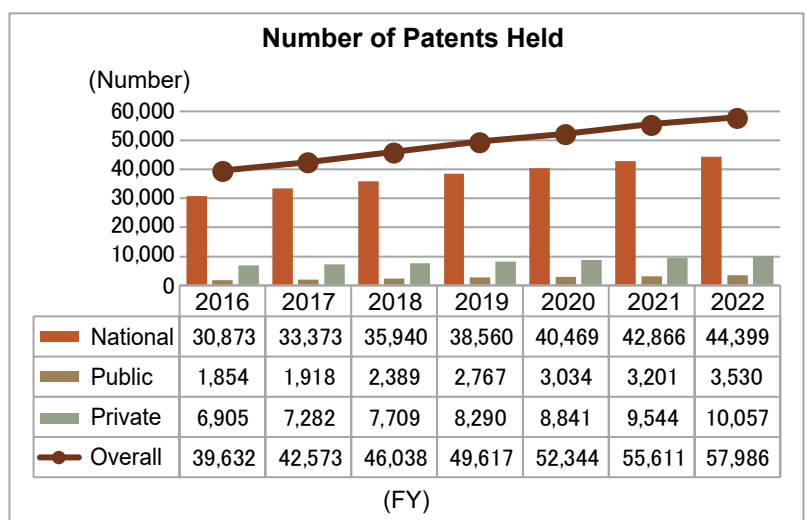
◆ Nationwide ◆



◆ Kyushu University ◆



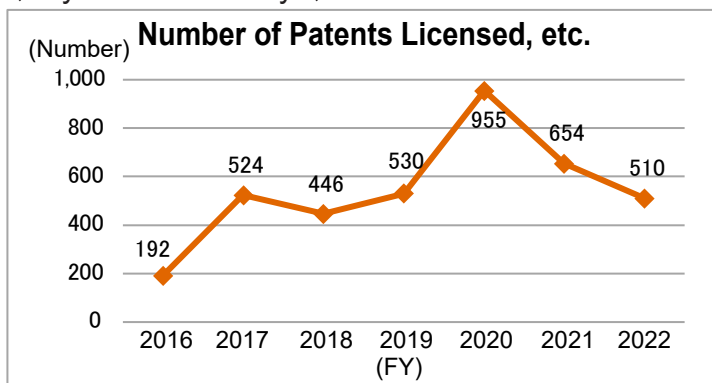
◆ Nationwide ◆



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 ◆

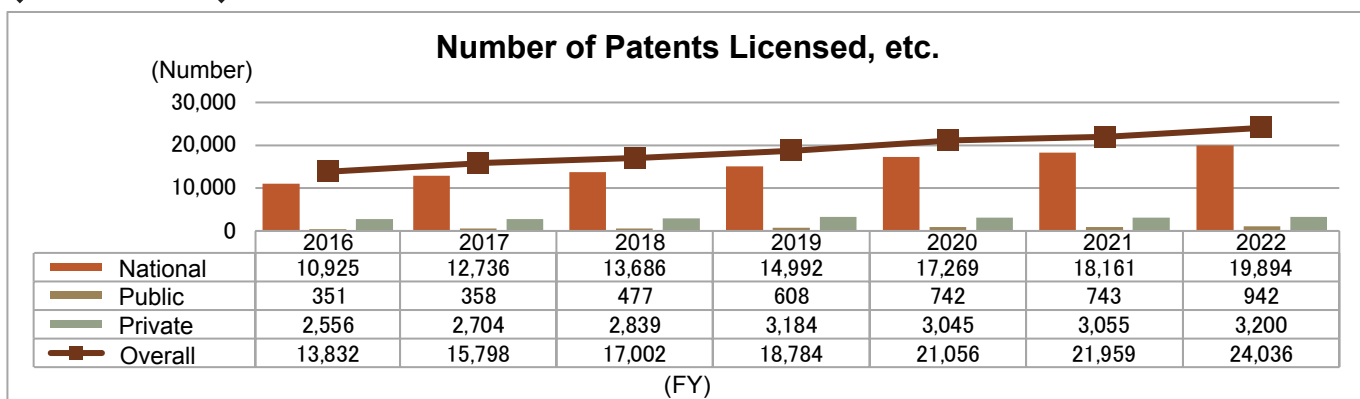


Number of Patents Licensed, etc. (Including Overseas)

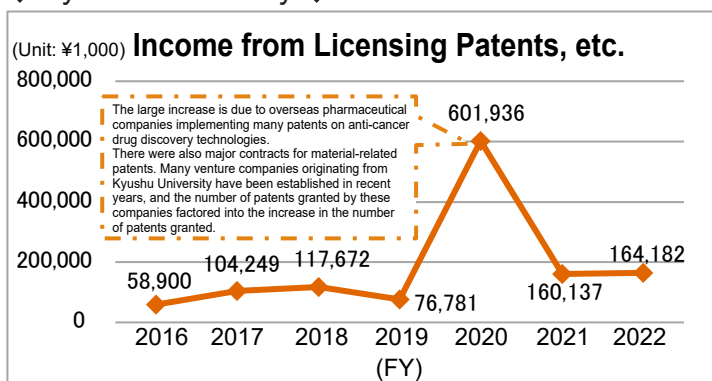
Rank	University	Number
1	The University of Tokyo	4,487
2	Kyoto University	2,224
3	Tohoku University	1,607
4	Hokkaido University	1,559
5	Osaka University	1,367
6	Tokyo Institute of Technology	913
7	Kanto Gakuin University	774
8	Nagoya University	724
9	Kyushu University	510
10	Keio University	497

(2022)

◆ Nationwide ◆



◆ Kyushu University ◆

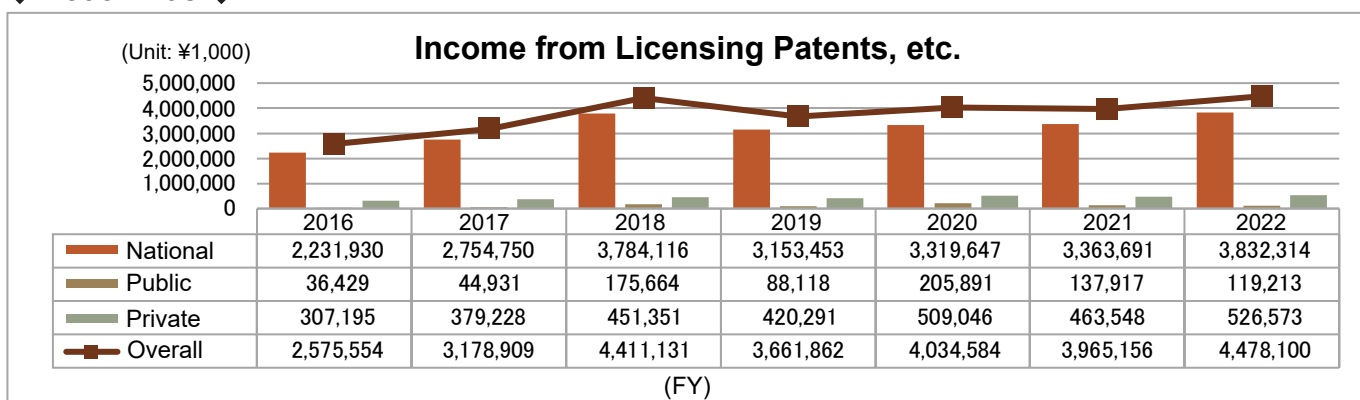


Income from Licensing Patents, etc. (Including Overseas)

Rank	University	Income (¥1,000)
1	Kyoto University	1,119,118
2	The University of Tokyo	613,189
3	Osaka University	414,288
4	Tohoku University	208,066
5	Hokkaido University	183,435
6	Kyushu University	164,182
7	Tottori University	137,372
8	Tokyo Institute of Technology	99,801
9	Nagoya University	90,749
10	Keio University	86,996

(2022)

◆ Nationwide ◆

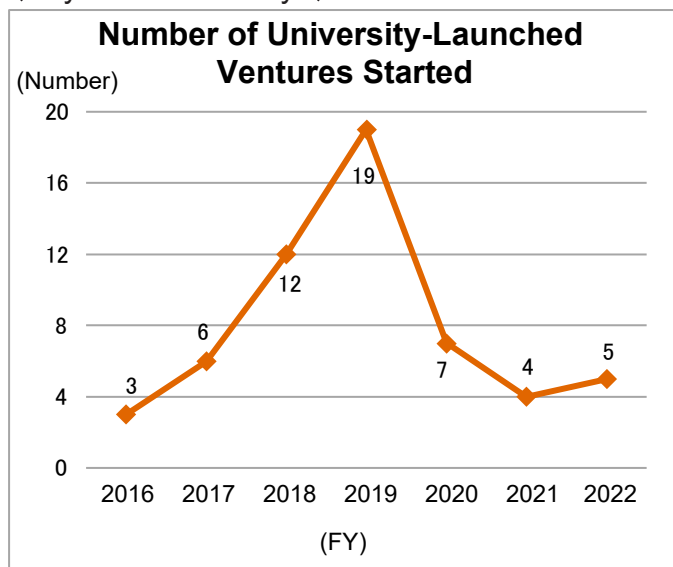


• In this survey, “number of patents licensed, etc.” and “income from licensing patents, etc.” refer to the number of patent rights licensed or assigned (including at the “right to obtain a patent” stage) and the amount of income received as a result.

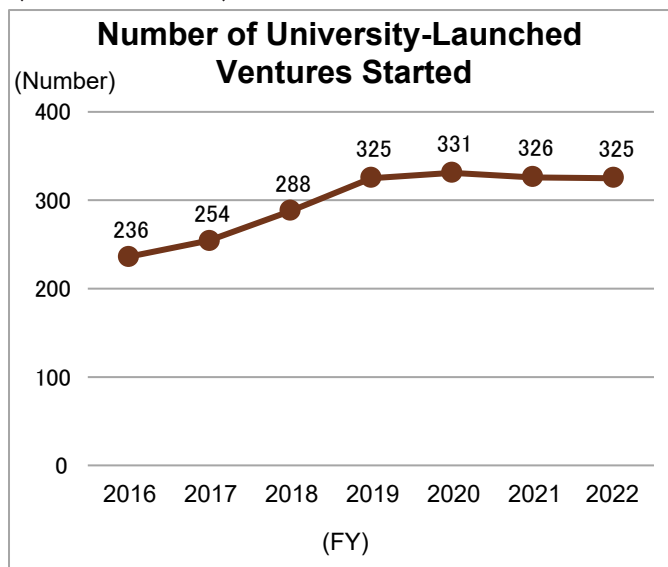
Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*

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 are founders.
- The number of companies established from 2018 to 2021 includes companies newly established since the previous survey, so 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*