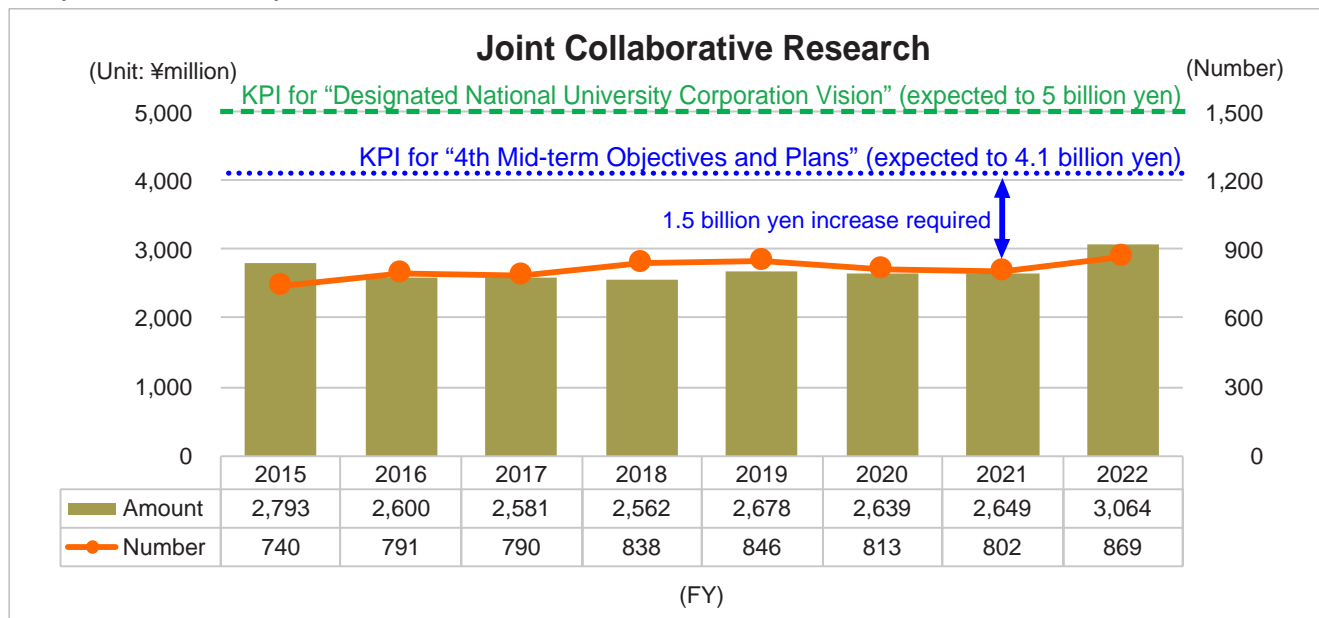


11. Industry-University-Government Collaboration

11-1. Joint Collaborative Research

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

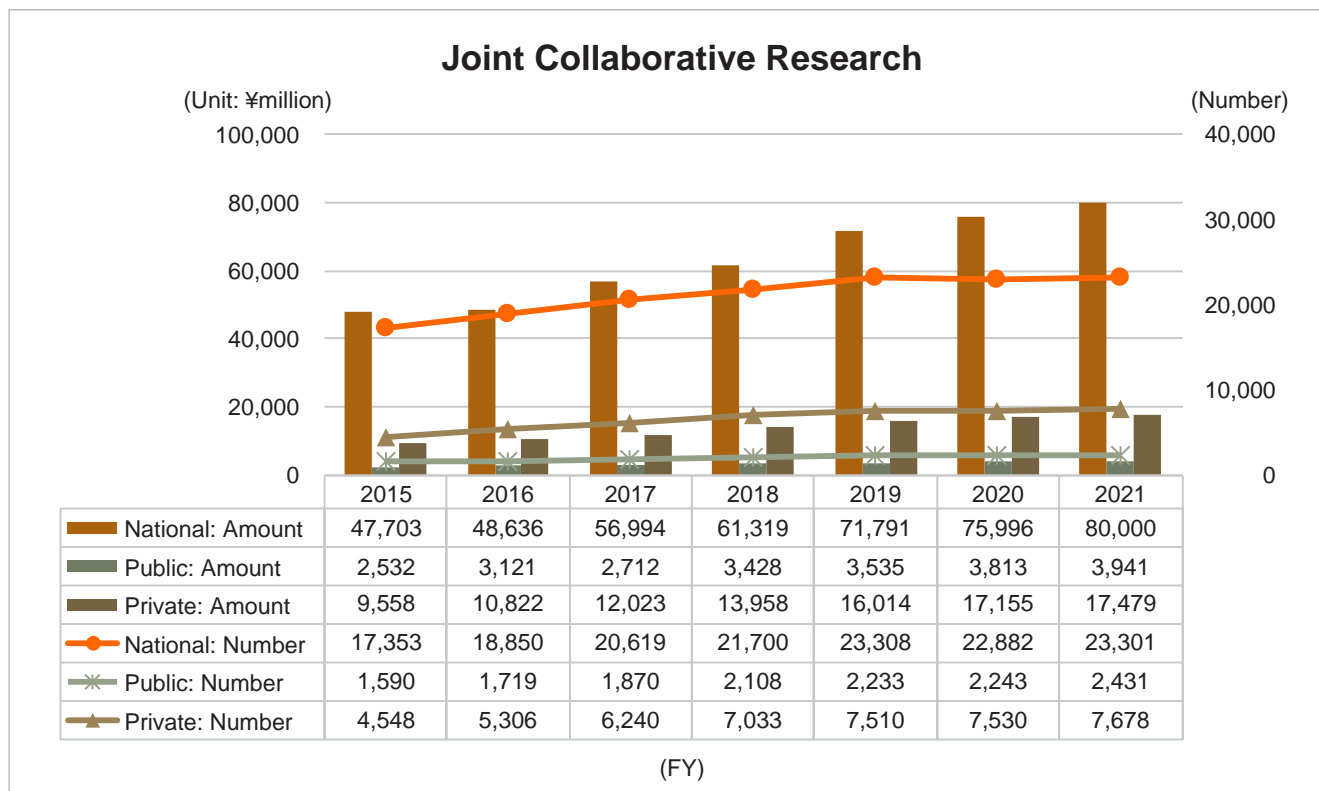
◆Kyushu University◆ ★Key Performance Indicators (KPIs) for the Designated National University Corporations



• Under ¥1 million, sums are rounded down.

Source: Kyushu University Information

◆Nationwide◆



• Data excludes junior colleges, 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

Rank	University	Number	Rank	University	Income (¥million)	Rank	University	Income per project (¥1,000)	Number
1	The University of Tokyo	1,945	1	The University of Tokyo	15,086	1	Juntendo University	8,836	228
2	Tohoku University	1,337	2	Osaka University	8,777	2	Fujita Health University	8,331	41
3	Osaka University	1,308	3	Tohoku University	6,209	3	The University of Tokyo	7,756	1,945
4	Kyoto University	1,276	4	Kyoto University	5,950	4	Kyoto University of Advanced Science	7,580	12
5	Keio University	778	5	Nagoya University	3,492	5	Osaka University	6,710	1,308
6	Tokyo Institute of Technology	729	6	Keio University	3,311	6	Kansai Medical University	5,842	20
7	Kyushu University	717	7	Tokyo Institute of Technology	2,985	7	Nagoya University	5,516	633
8	Hokkaido University	661	8	Kyushu University	2,210	8	St. Marianna University School of Medicine	5,162	16
8	Kobe University	661	9	Hokkaido University	2,023	9	Kitasato University	5,086	53
10	Nagoya University	633	10	Juntendo University	2,014	10	St. Luke's International University	5,071	12
⋮									
						28	Kyushu University	3,082	717

(2021)

(2021)

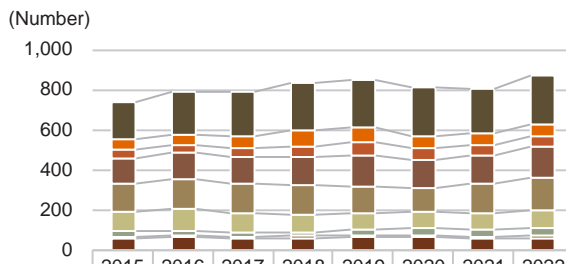
(2021)

- "Income from Joint Collaborative Research with the Private Sector Nationwide" is rounded down to under ¥1 million.
- "Income per Project from Joint Collaborative Research with the Private Sector Nationwide" is rounded down to under ¥1,000.
- "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

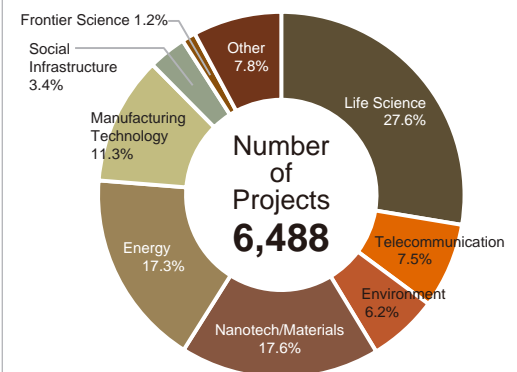


	2015	2016	2017	2018	2019	2020	2021	2022
Life Science	184	214	219	241	231	246	219	238
Telecommunication	53	48	60	79	76	60	55	58
Environment	46	43	45	49	63	52	51	52
Nanotech/Materials	122	133	135	145	157	145	145	160
Energy	138	148	141	144	134	116	142	161
Manufacturing Technology	99	109	102	89	81	84	85	86
Social Infrastructure	30	20	20	18	25	32	35	38
Frontier Science	9	10	10	9	10	12	8	11
Other	59	66	58	64	69	66	62	64
Total	740	791	790	838	846	813	802	868

(FY)

◆Kyushu University◆

Number and Percentage of Joint Collaborative Research Projects with the Private Sector (FY2015-2022 Total)



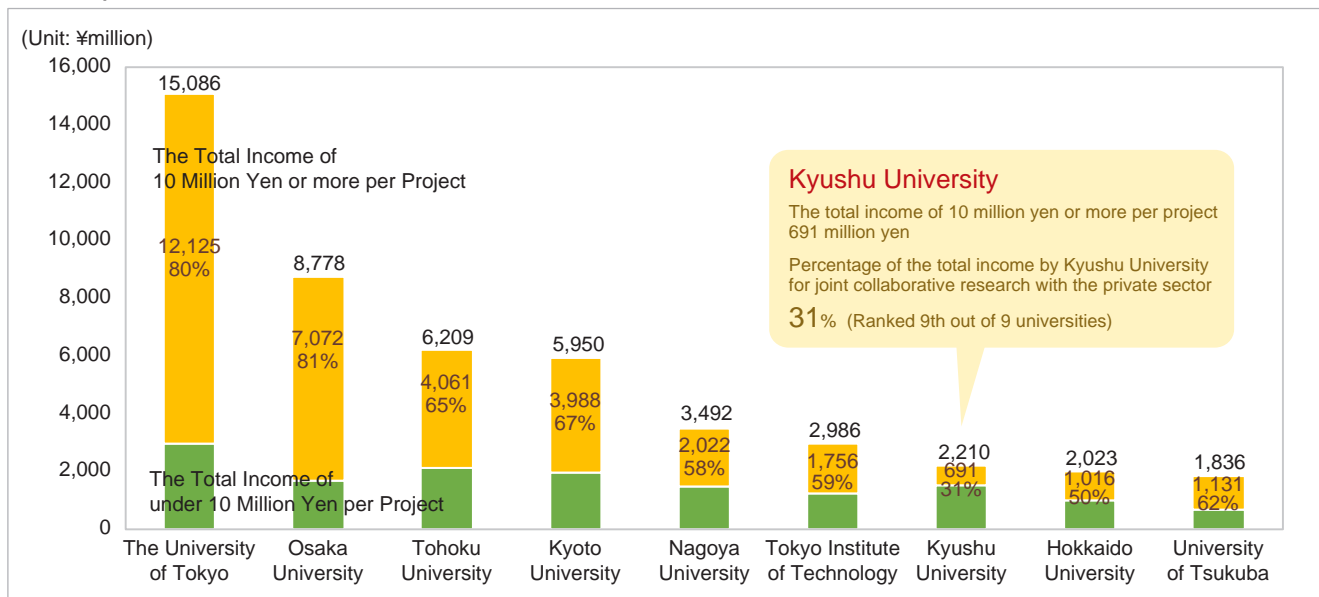
- In this survey, "joint collaborative research" refers to research jointly by a university or similar institution and industry and private organizations, etc., in which necessary project expenses incurred by the university, etc. are covered by the private organization, etc.

Source: *Kyushu University Information*

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

Reference: Joint Collaborative Research with the Private Sector, Breakdown of Accepted Amounts by Size (FY2021)

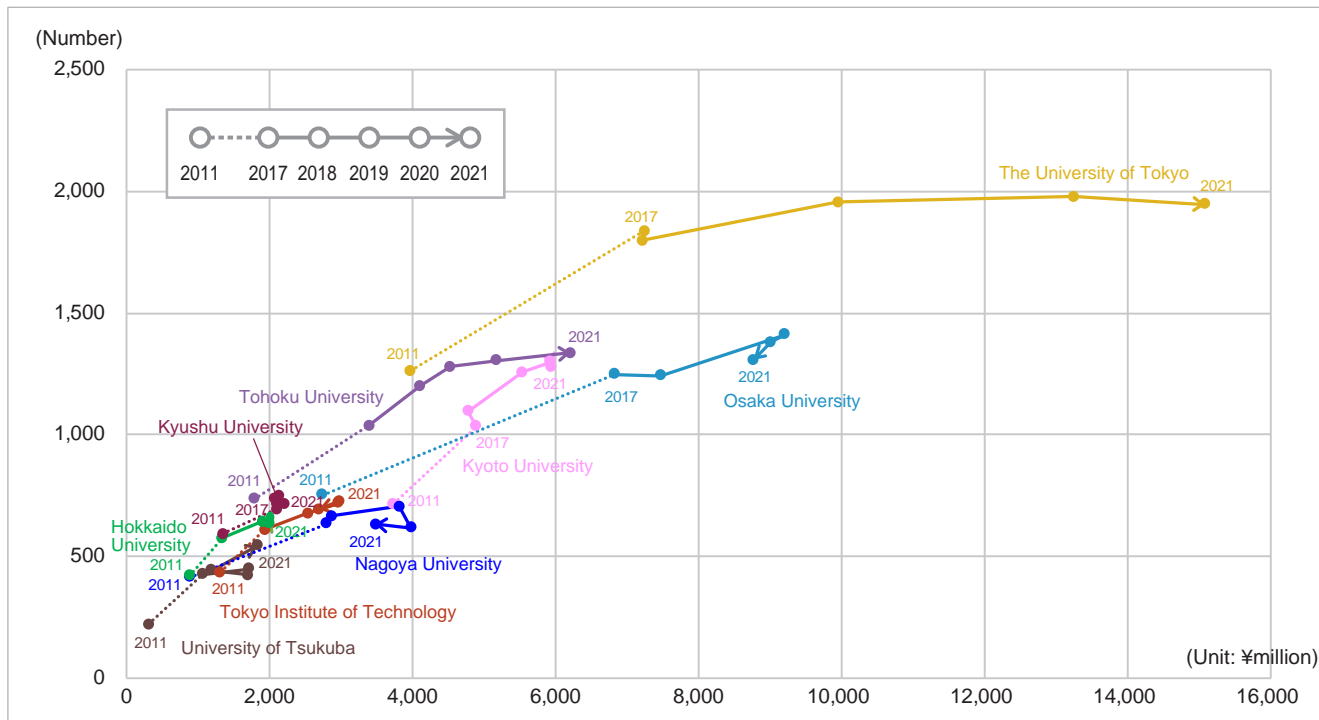
◆Comparisons with Other Universities◆



- 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 (FY2011-2021)



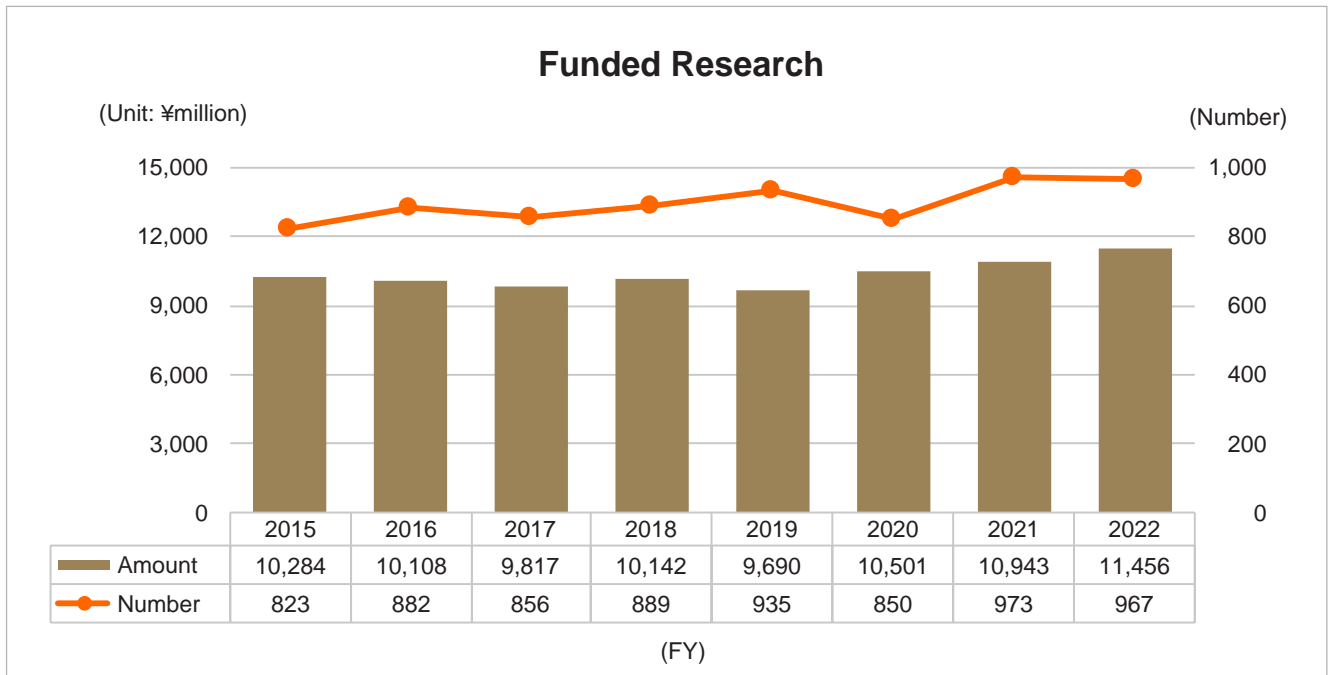
- This data is compared with nine Designated National University Corporations (excluding Hitotsubashi University and Tokyo Medical and Dental University) as well as Hokkaido University.

Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities* (FY2011-2021)

11-2. Funded Research

11-2-1. Funded Research (Overall)

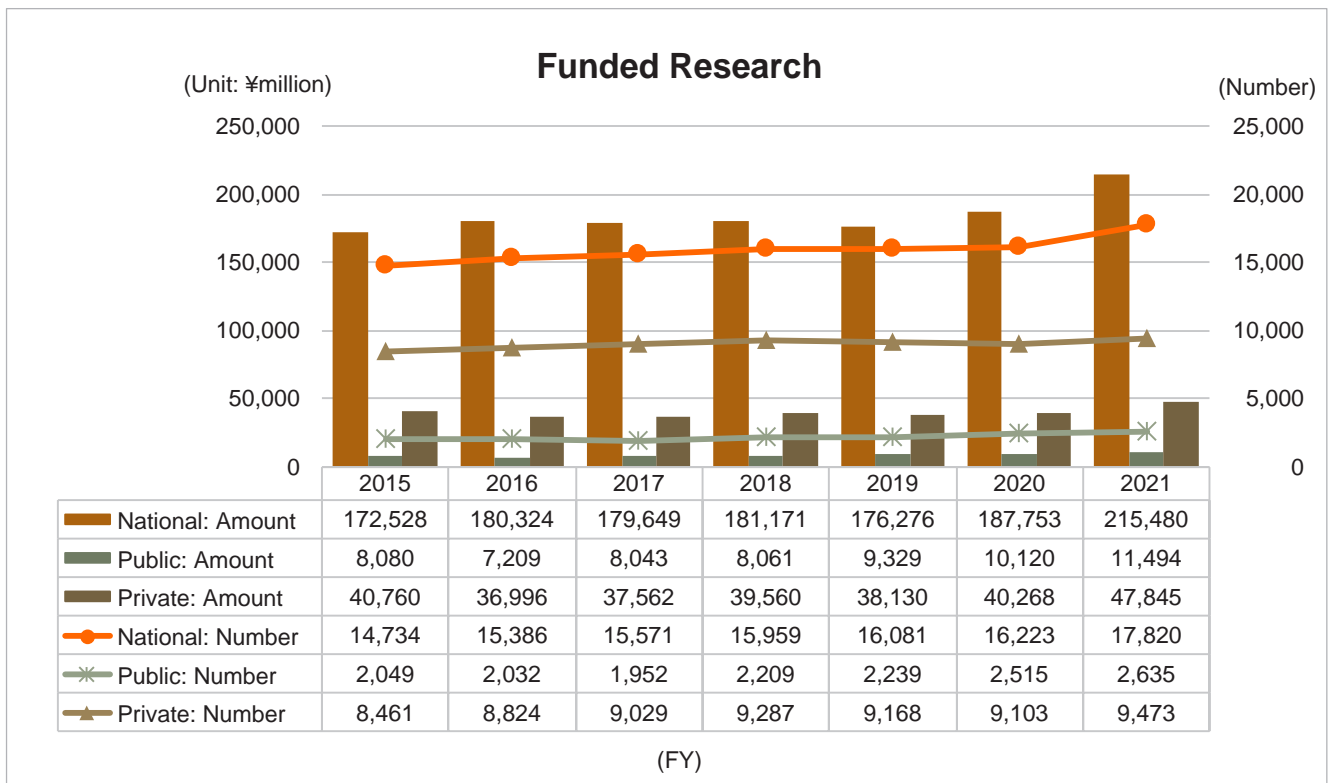
◆Kyushu University◆



• Under ¥1 million, sums are rounded down.

Source: *Kyushu University Information*

◆Nationwide◆



• Data excludes junior colleges, professional training college, college of technology 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

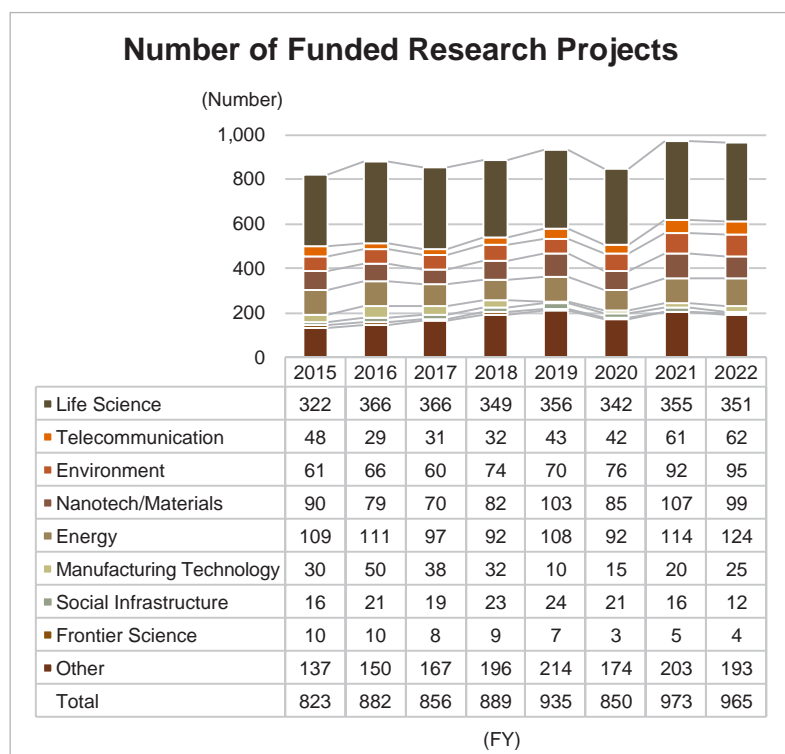
Rank	University	Number	Rank	University	Income (¥1,000)	Rank	University	Income per project (¥1,000)	Number
1	Kindai University	338	1	Waseda University	685,962	1	International University of Japan	13,711	12
2	Juntendo University	212	2	Kyoto University	649,785	2	Nagoya University	9,668	52
3	Kyushu University	190	3	Keio University	547,987	3	Osaka Institute of Technology	8,368	13
4	Nihon University	181	4	Nagoya University	502,712	4	International University of Health and Welfare	5,598	19
5	Waseda University	174	5	Yokohama City University	446,700	5	Yokohama City University	5,584	80
6	Keio University	163	6	Osaka University	371,200	6	Kyoto University	4,675	139
7	Osaka University	157	7	Kyushu University	359,311	7	Tokushima University	4,559	44
8	Takushoku University	155	8	The University of Tokyo	328,798	8	Tokyo University of Marine Science and Technology	4,525	12
9	Nagasaki University	154	9	Nagasaki University	258,005	9	University of the Ryukyus	4,430	44
10	Hiroshima University	153	10	Nihon University	255,801	10	Aichi Medical University	3,948	10
		(2021)			(2021)			∴	
						40	Kyushu University	1,891	190

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

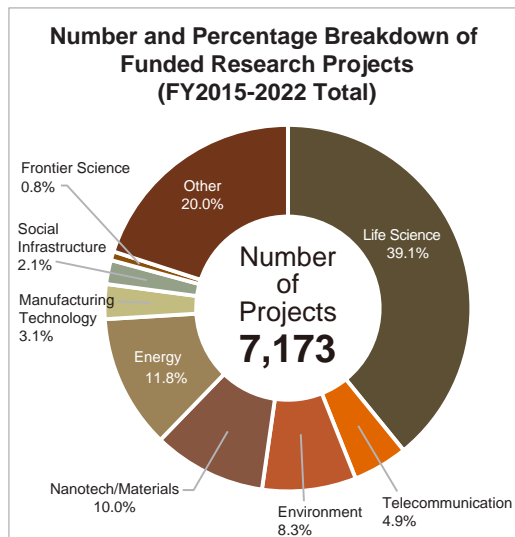
(2021)

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◆

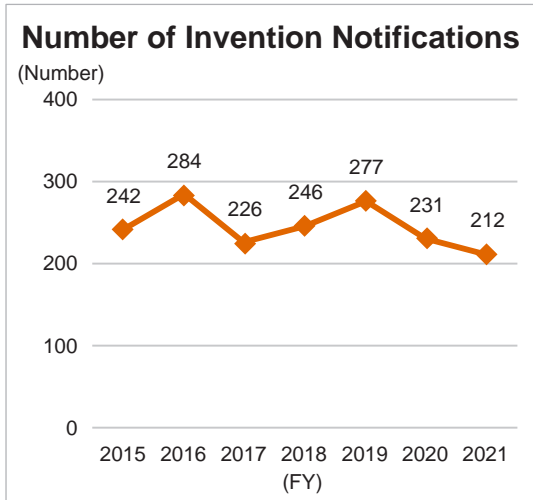


• In this survey, "funded research" refers to research to a university by a private sector company, etc., in which, in most cases, the university, etc. alone conducts the research and development, with the expenses incurred being covered by the private organization, etc.

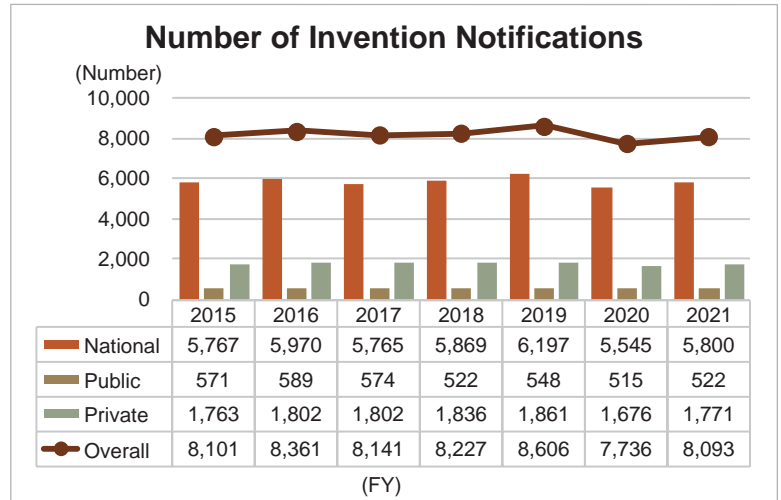
Source: *Kyushu University Information*

11-3. Intellectual Property

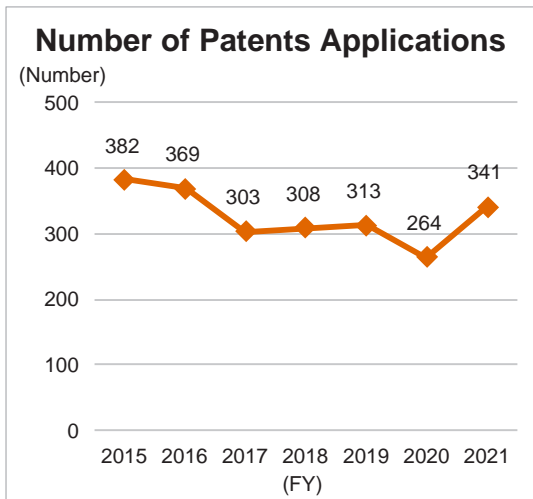
◆Kyushu University◆



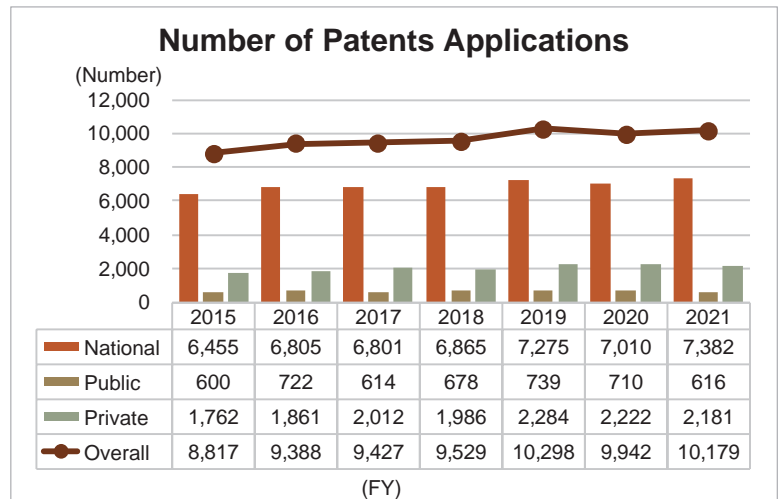
◆Nationwide◆



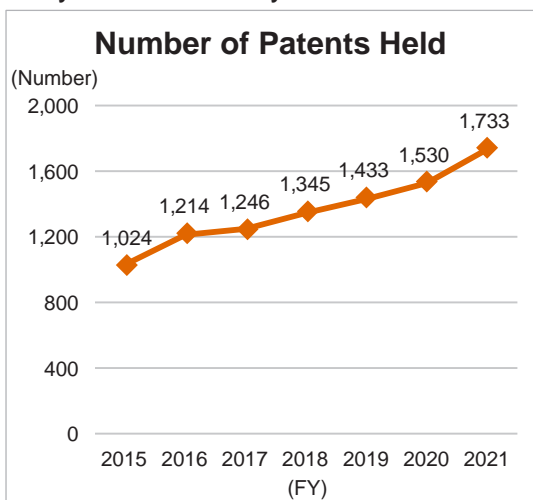
◆Kyushu University◆



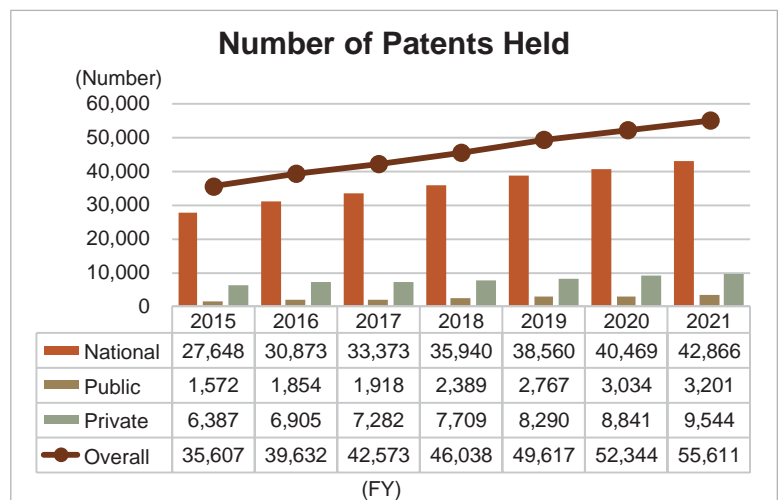
◆Nationwide◆



◆Kyushu University◆



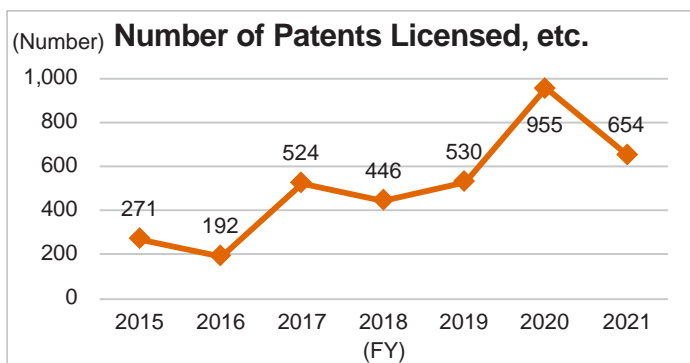
◆Nationwide◆



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◆

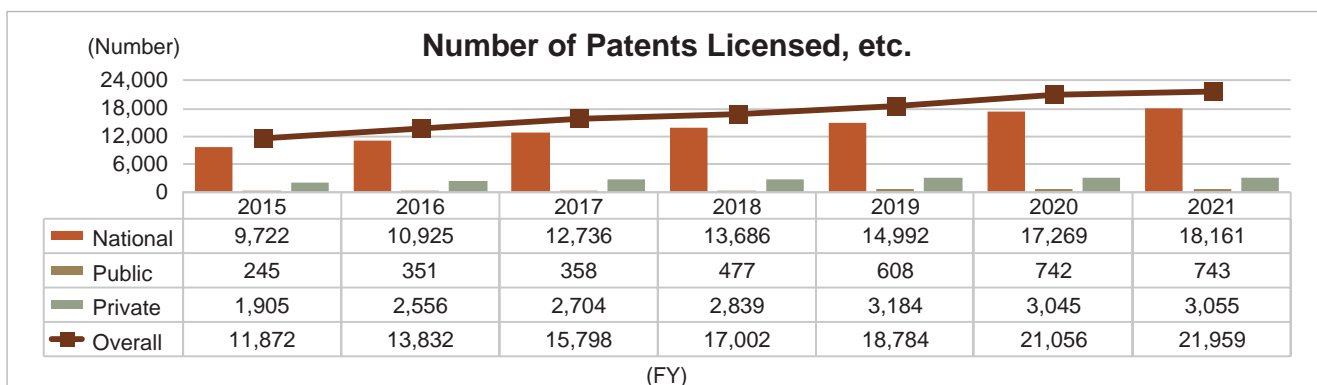


Number of Patents Licensed, etc. (Including Overseas)

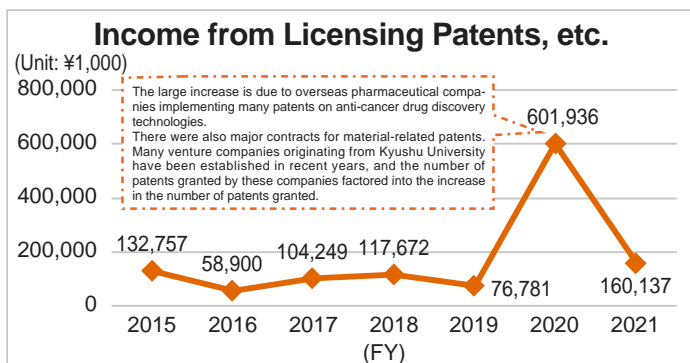
Rank	University	Number
1	The University of Tokyo	4,212
2	Kyoto University	2,165
3	Osaka University	1,359
4	Hokkaido University	1,250
5	Tokyo Institute of Technology	869
6	Tohoku University	867
7	Nagoya University	688
8	Kyushu University	654
9	Kanto Gakuin University	640
10	Keio University	555

(2021)

◆Nationwide◆



◆Kyushu University◆

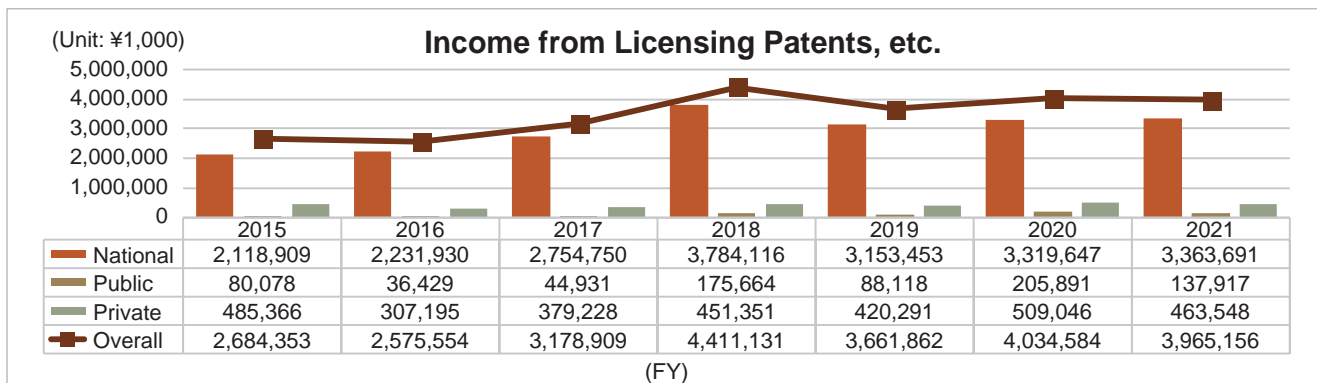


Income from Licensing Patents, etc. (Including Overseas)

Rank	University	Income (¥1,000)
1	Kyoto University	888,769
2	The University of Tokyo	557,703
3	Osaka University	414,526
4	Tohoku University	288,363
5	Kyushu University	160,137
6	Hokkaido University	146,873
7	Kobe University	117,179
8	Nagoya University	85,753
9	Tokyo Medical and Dental University	74,575
10	Keio University	74,131

(2021)

◆Nationwide◆

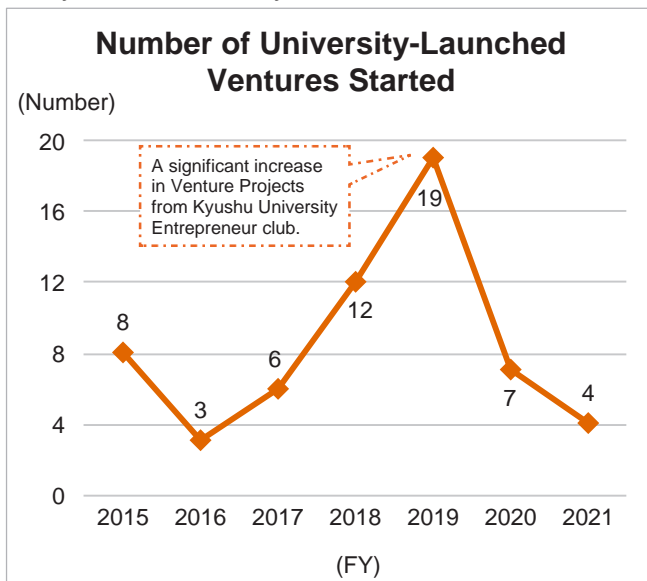


• In this survey, “number of patents licensed, etc.” and “income from licensing patents, etc.” refers to the number of patent rights licensed or assigned (including at the “right to obtain a patent” stage) and the amount of income received as a result.

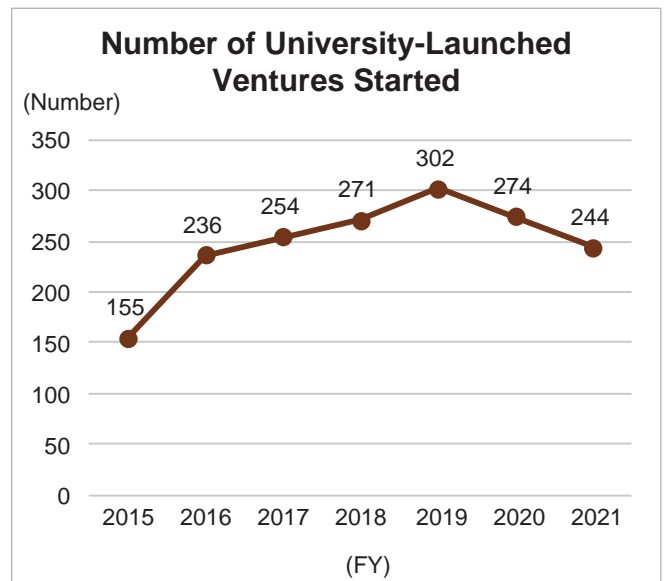
Source: MEXT, *Implementation of Industry-University Cooperative Research, etc. at Universities*

11-3. Intellectual Property (Continued)

◆Kyushu University◆



◆Nationwide◆



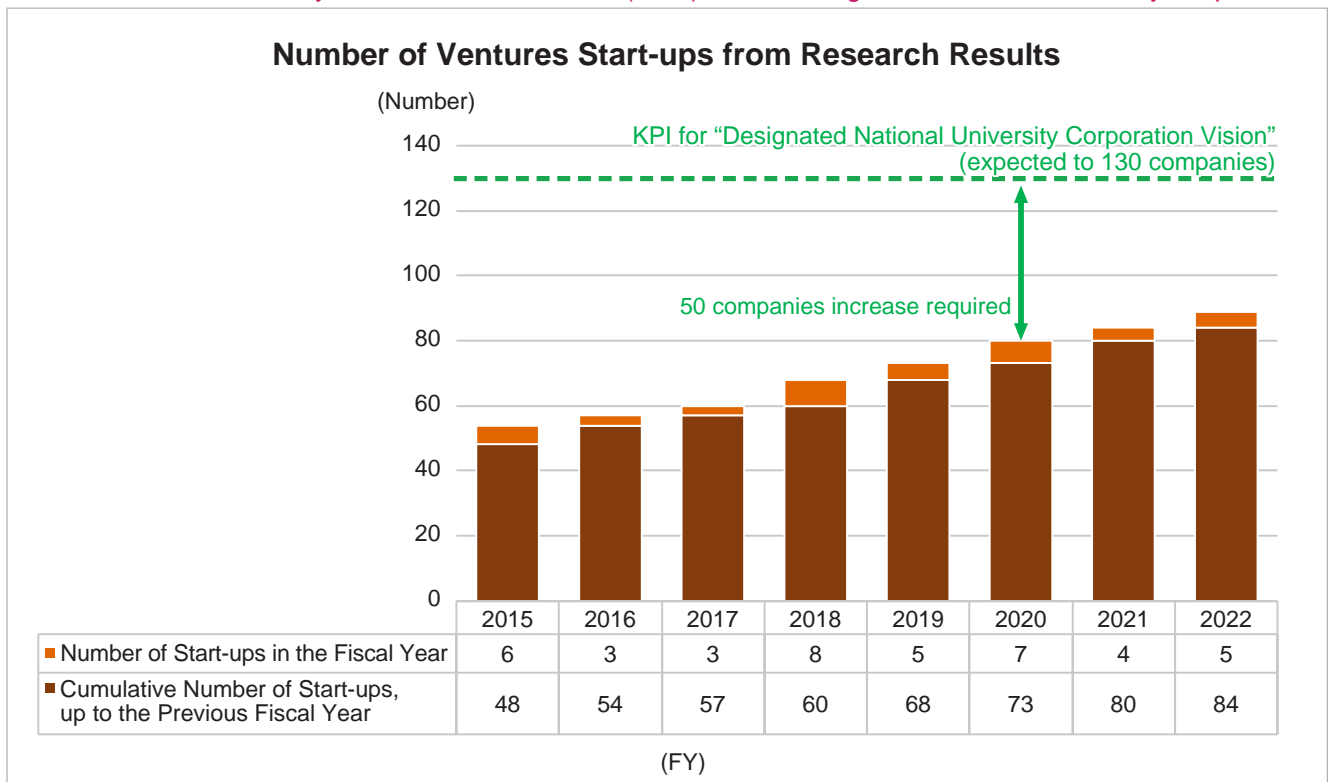
- University-launched Venture Projects means startups in which patents are obtained by university staff and students, or persons related to the university are founders.
- The number of companies established from 2017 to 2020 includes companies newly established since the previous survey, so the figure 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*

Reference: Number of University Start-ups

◆Kyushu University◆

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



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