

The logo for the Japan Science and Technology Agency (JST) is a large, light blue stylized 'JST' with a red circle at the top of the 'J' curve. The text is centered over the logo.


# **Trends in University's IP Strategy And a Vision for the Future**

**10 March, 2015**

**Dr. Hiroyuki Abé**

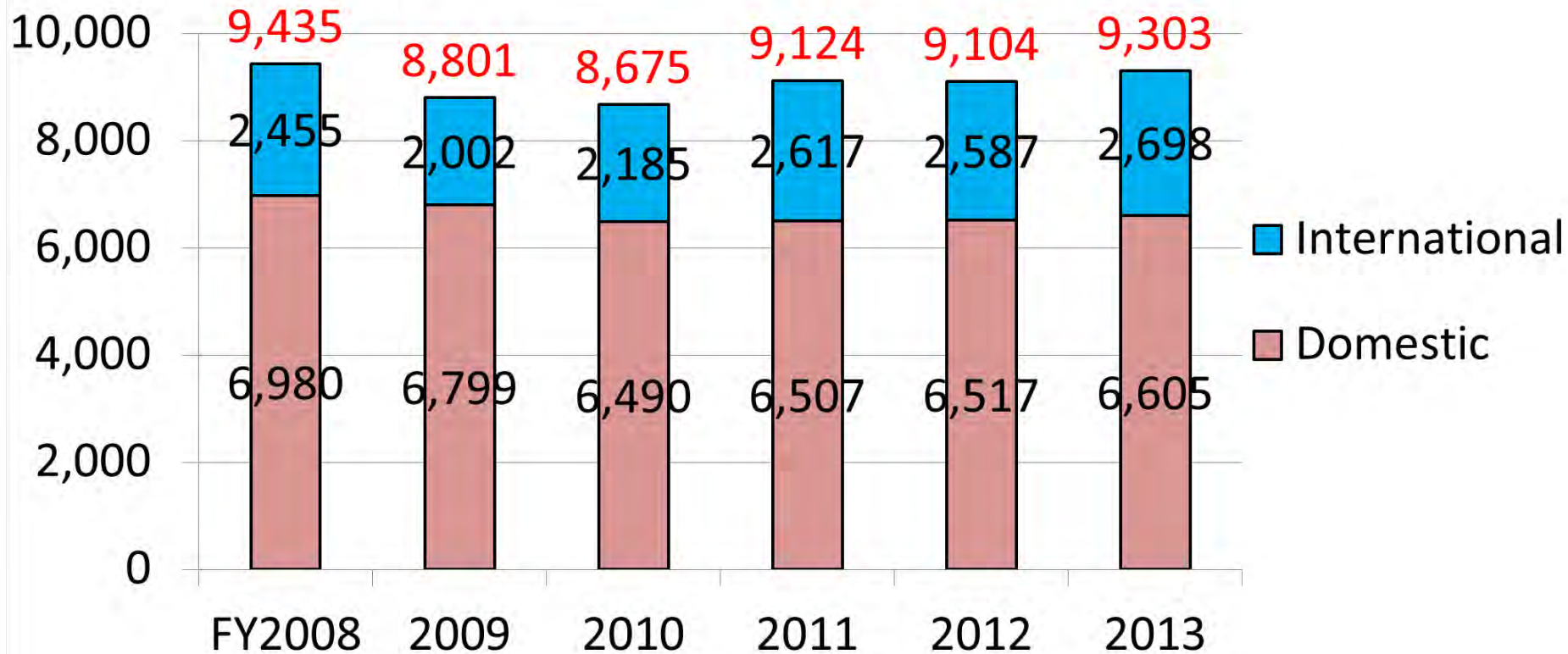
**Counselor to the President, Japan Science and Technology Agency (JST)  
Director General of Center for Intellectual Property Strategies (JST)**

# Chronology of Japan's IP Strategy

1998	“TLO Act”
1999	“Japanese “Bayh-Dole Act”
2002	<b>Strategic Council on Intellectual Property</b> (Prime Minister) <b>Expert Panel on Management of Intellectual Properties, Council for Science and Technology Policy = “CSTP”</b> (Prime Minister)
	“The Intellectual Property Basic Law”
2003	<b>Intellectual Property Strategy Headquarters</b> (Prime Minister)
	“The Annual IP Promotion Plan”
2004	“National University Reform” → National University Corporations
	 <p>IP Strategy → <b>CSTP</b> Reorganization</p>
2014	<b>Council for Science, Technology and Innovation = “CSTI”</b> (Prime Minister)

## Patent Applications

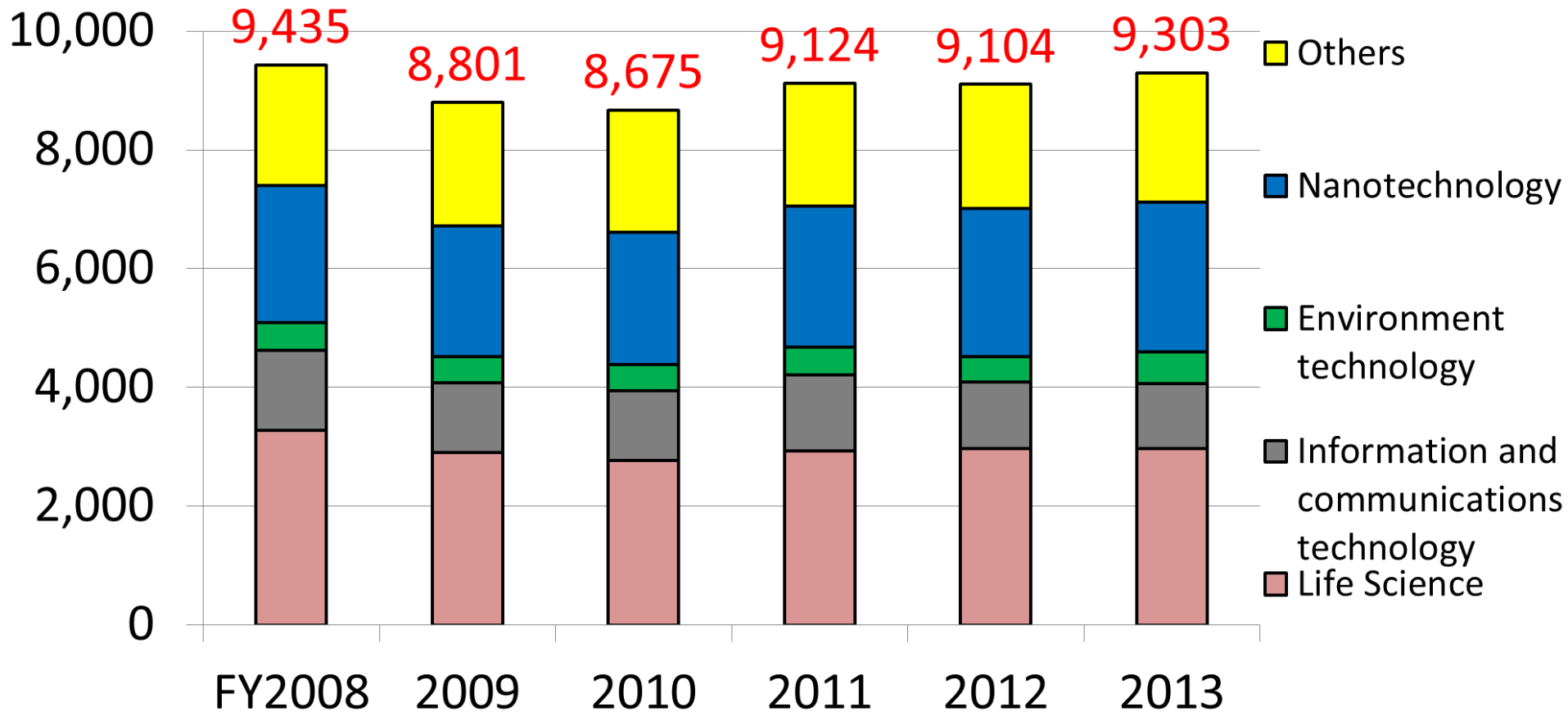
Applications



[Survey by MEXT]

## Trends in technical fields

Applications



[Survey by MEXT]

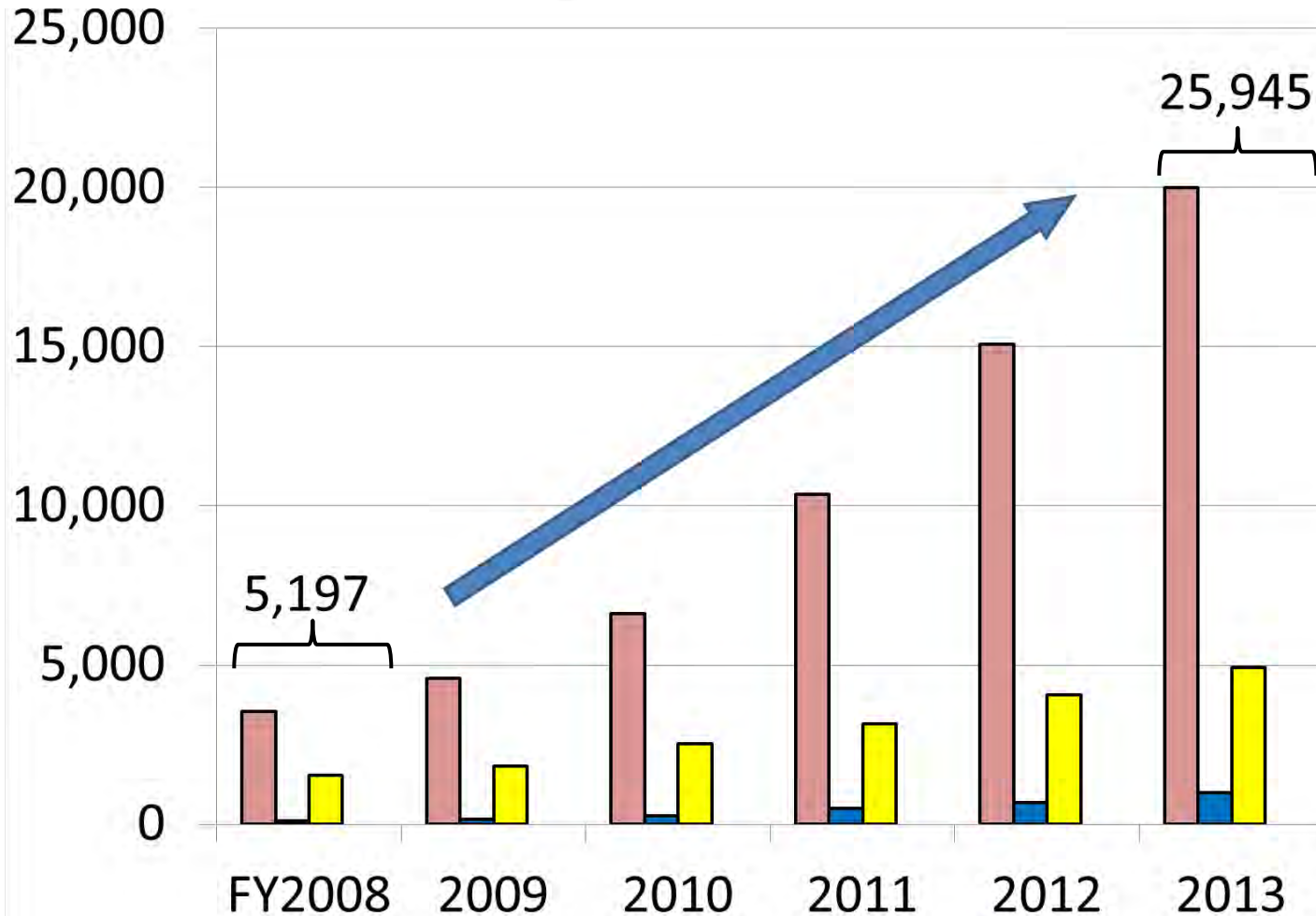
## Japan's Top 10 Universities ; Patent Applications (2009–2013)

Rank	Name	Applications
1	University of Tokyo	3,264
2	Tohoku University	2,608
3	Osaka University	2,094
4	Kyoto University	2,059
5	Tokyo Institute of Technology	1,734
6	Kyushu University	1,592
7	Nagoya University	1,334
8	Hokkaido University	1,165
9	Keio University	1,003
10	Hiroshima University	863

[Survey by MEXT]

## Increasing of Owned Patents

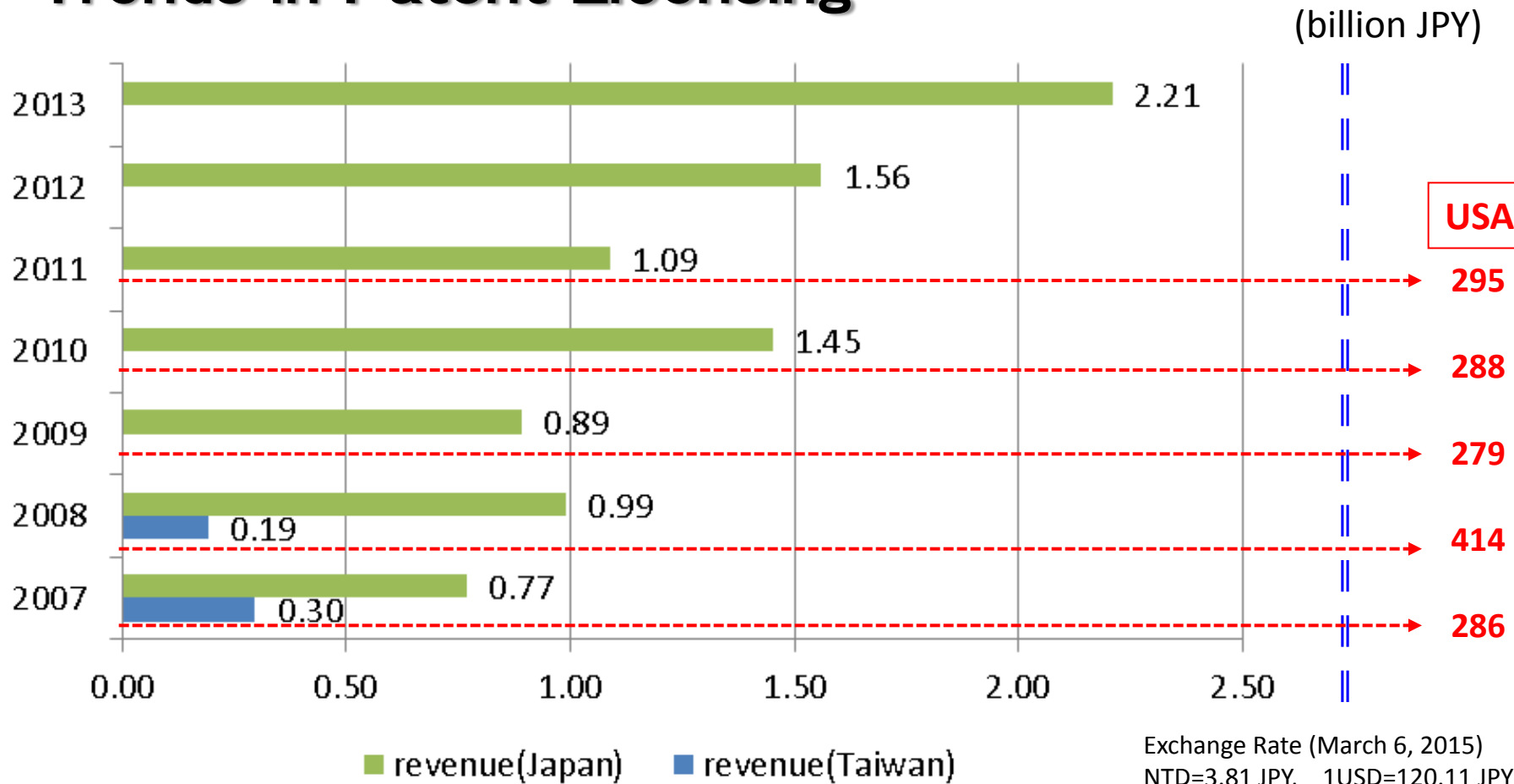
No. of Patents



[Survey by MEXT]

■ National Univ. ■ Public Univ. ■ Private Univ.

## Trends in Patent Licensing



Source:  
 2009 Annual Report, National Science Council (Taiwan)  
 AUTM U.S. Licensing Activity Survey (USA)  
 MEXT (Japan)

## Japan's Top 10 Universities ; License Income (2009–2013)

Rank	Name	million JPY
1	University of Tokyo	1,217
2	Kyoto University	1,113
3	Nihon University	468
4	Osaka University	368
5	Tokyo University of Agriculture and Technology	280
6	Tohoku University	241
7	Nagoya University	212
8	Kitasato University	182
9	Tokyo Institute of Technology	158
10	Kyushu University	153

[Survey by MEXT]



## **Joint Research, Sponsored Research**

Universities will accept research expenses from companies.

### **① Joint Research**

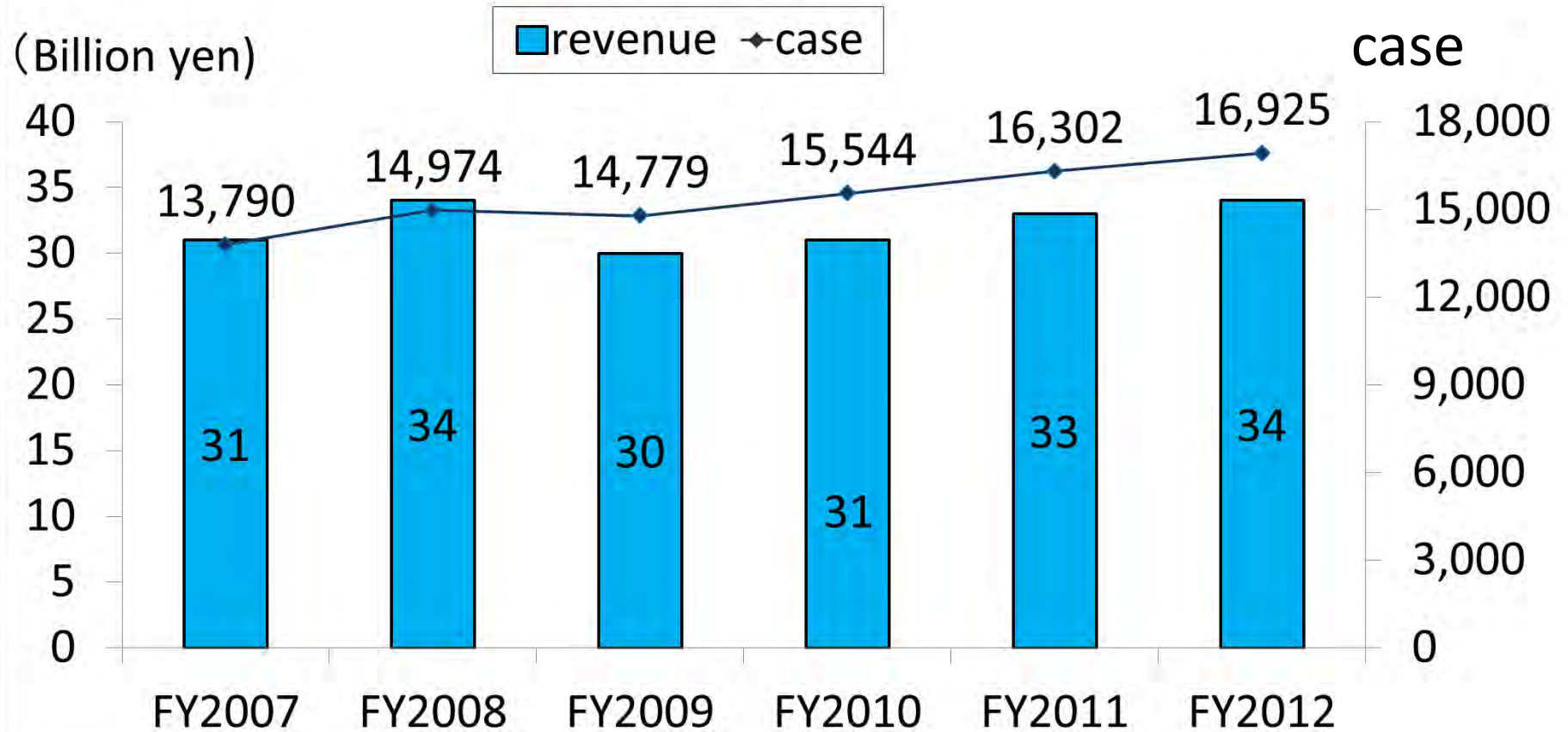
**Collaborative research between universities and companies.**

### **② Sponsored Research**

**Universities' research activities based on companies' requirements.**

**Research expenses are borne by the companies.**

## Joint Research Projects

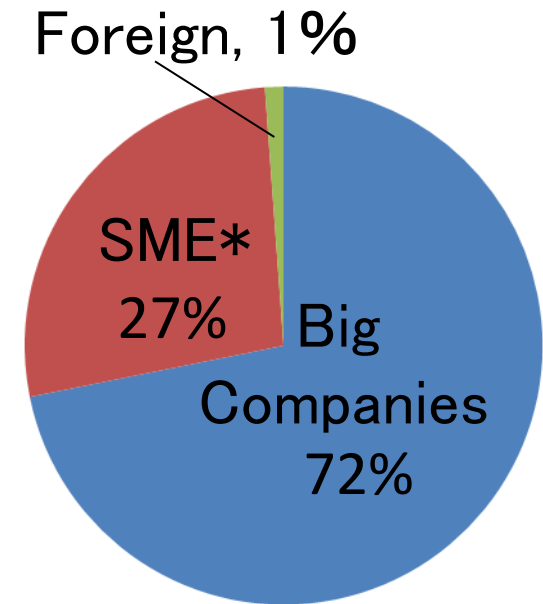
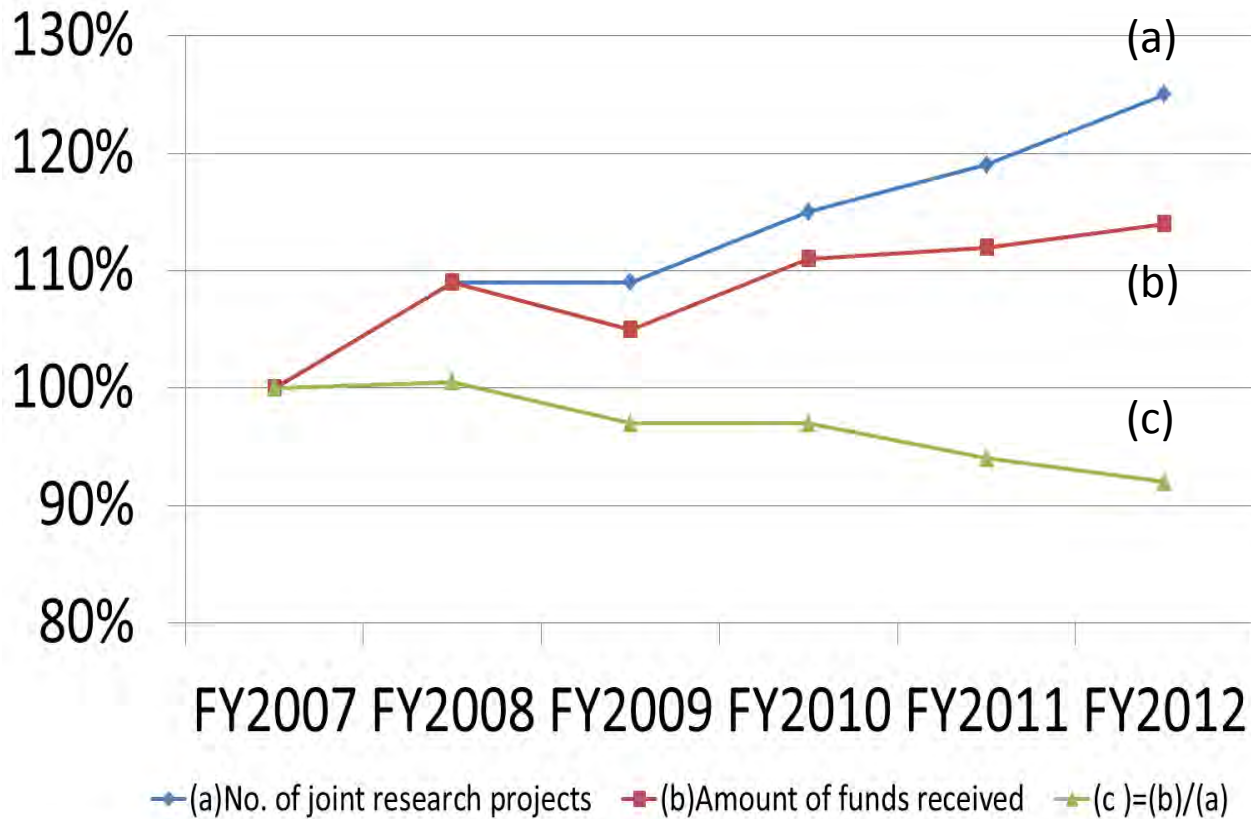


## Japan's Top 10 Universities; Revenue from Joint Research (2009–2013)

Rank	Name	million JPY
1	University of Tokyo	19,592
2	Kyoto University	18,421
3	Osaka University	12,546
4	Tohoku University	11,058
5	Keio University	7,493
6	Kyushu University	6,883
7	Tokyo Institute of Technology	6,219
8	Nagoya University	5,447
9	Hokkaido University	3,964
10	Kobe University	2,770

[Survey by MEXT]

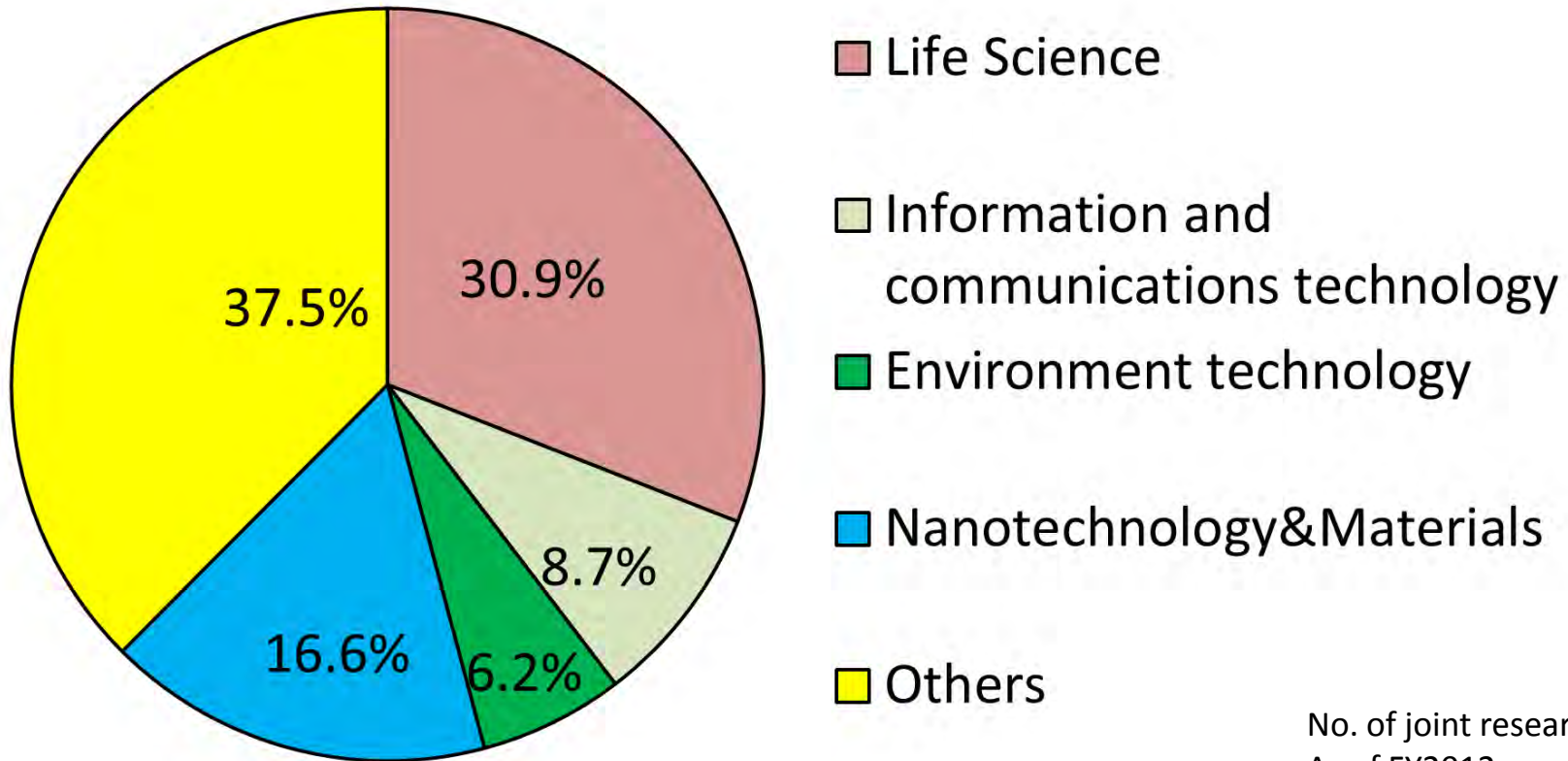
## Trends in the Scale of Joint Research Projects



No. of joint research projects,  
As of FY2012

\*Small and Medium Enterprises

## Trends in technical fields/Joint Research



No. of joint research projects,  
As of FY2012

## **Joint Research, Sponsored Research**

Universities will accept research expenses from companies.

### **① Joint Research**

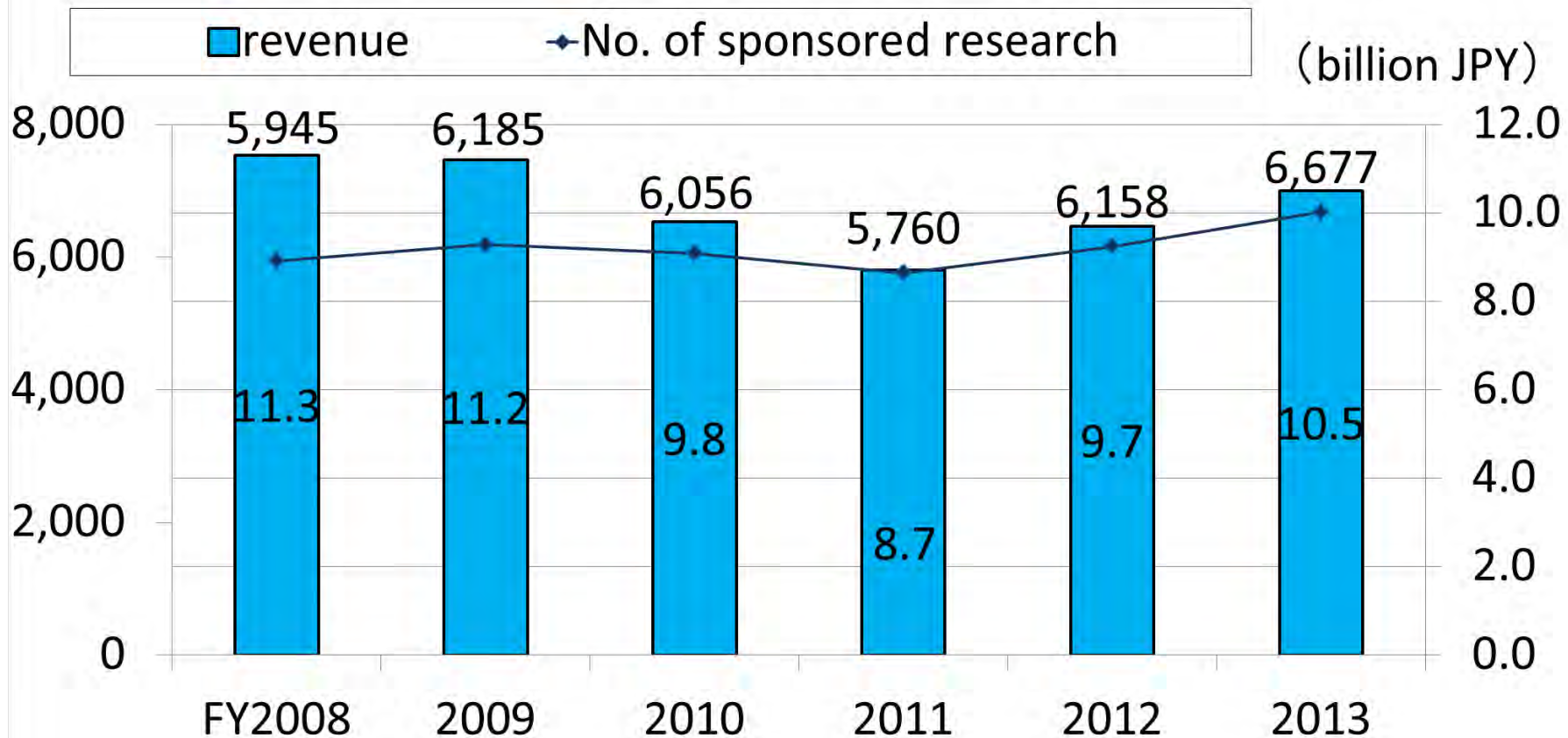
**Collaborative research between universities and companies.**

### **② Sponsored Research**

**Universities' research activities based on companies' requirements.**

**Research expenses are borne by the companies.**

# Trends in Sponsored Research



[Survey by MEXT]



## Japan's Top 10 Universities; Revenue from Sponsored Research (2009–2013)

Rank	Name	million JPY
1	Keio University	3,977
2	Waseda University	2,331
3	University of Tokyo	1,836
4	Kyoto University	1,516
5	Tohoku University	1,330
6	Osaka University	1,300
7	Kyushu University	1,293
8	Kinki University	1,057
9	Tokyo Institute of Technology	1,007
10	Ritsumeikan University	993

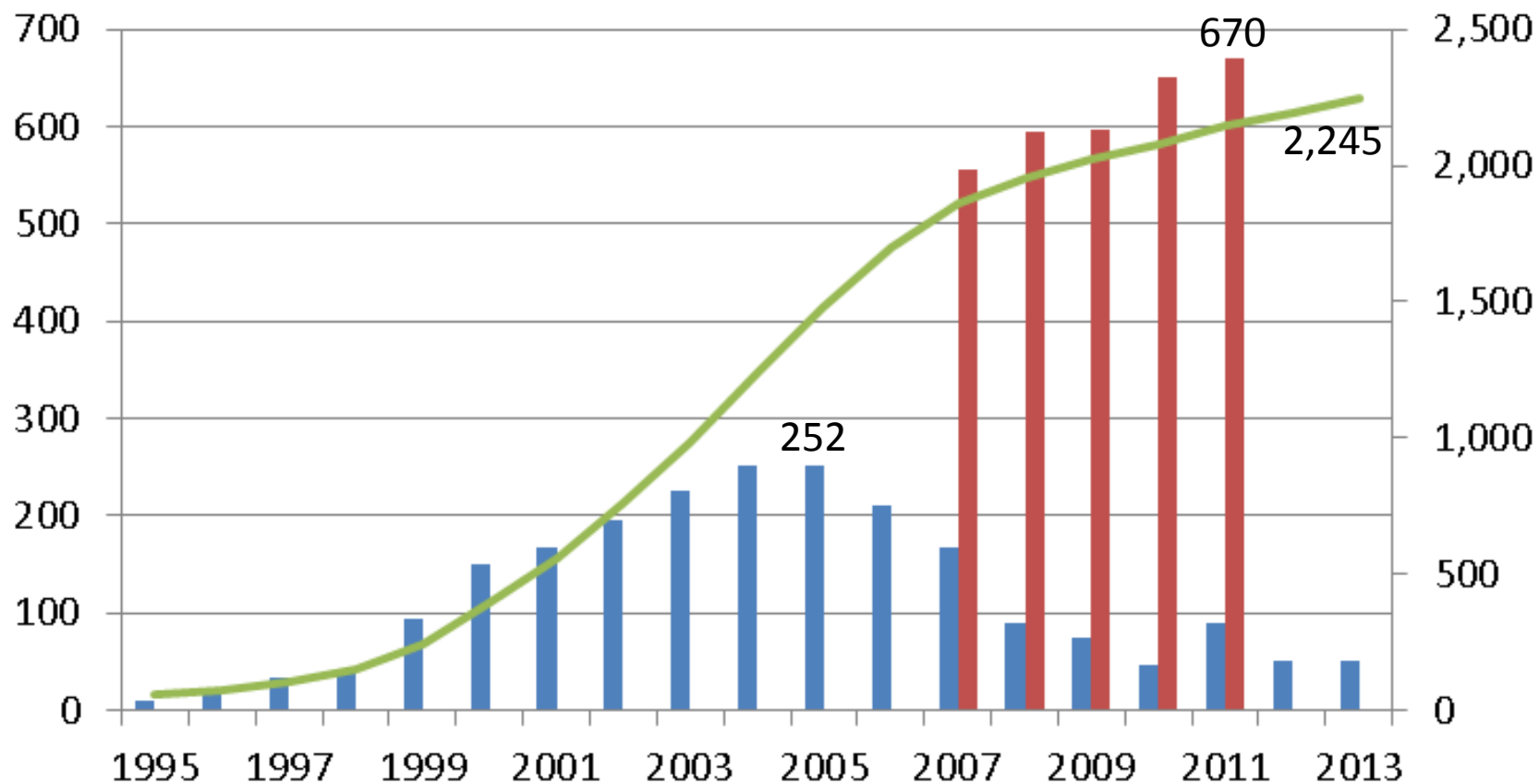
[Survey by MEXT]



# Start-Ups from Universities

No. of Start-Ups formed

No. of Start-Ups Formed (cumulative)



Source:

AUTM U.S. Licensing Activity Survey (USA)

MEXT (Japan)

Japan

USA

Japan/cumulative

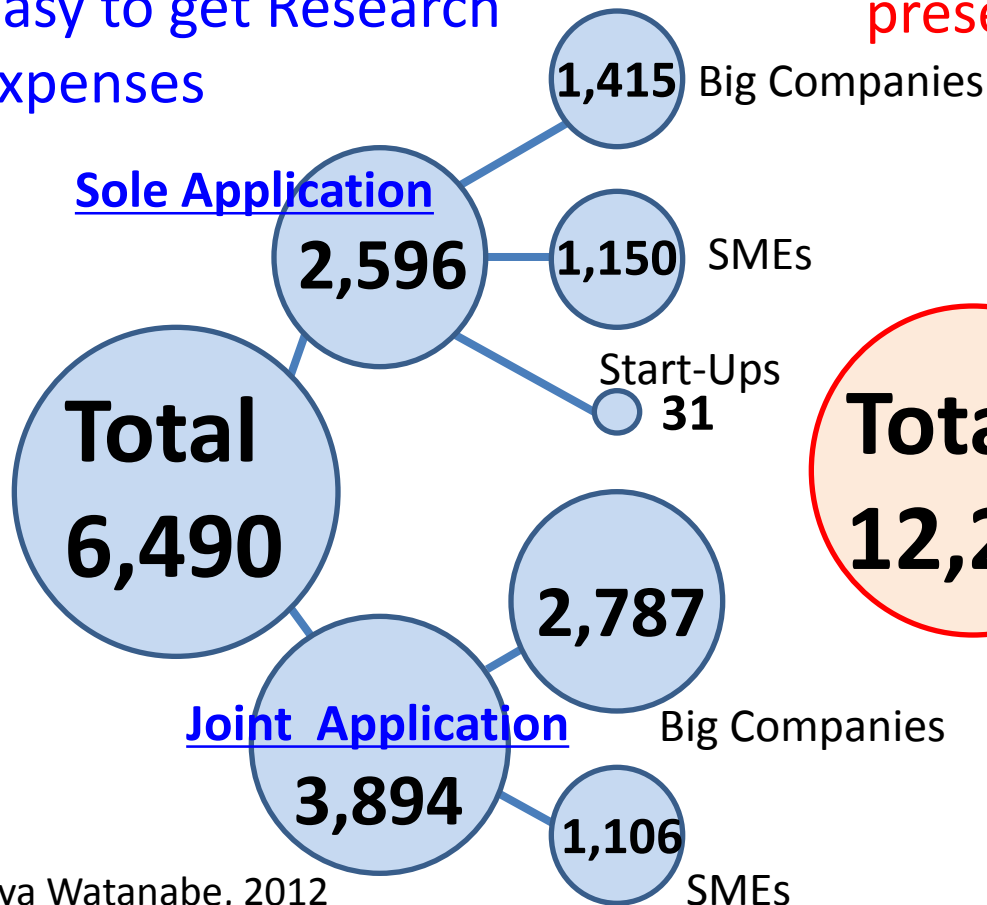
# Trends in University-Industry Collaboration

In the United States, the majority of patents are supplied to SMEs or Venture Companies.

In contrast, most of patents are supplied to Big Companies in Japan.

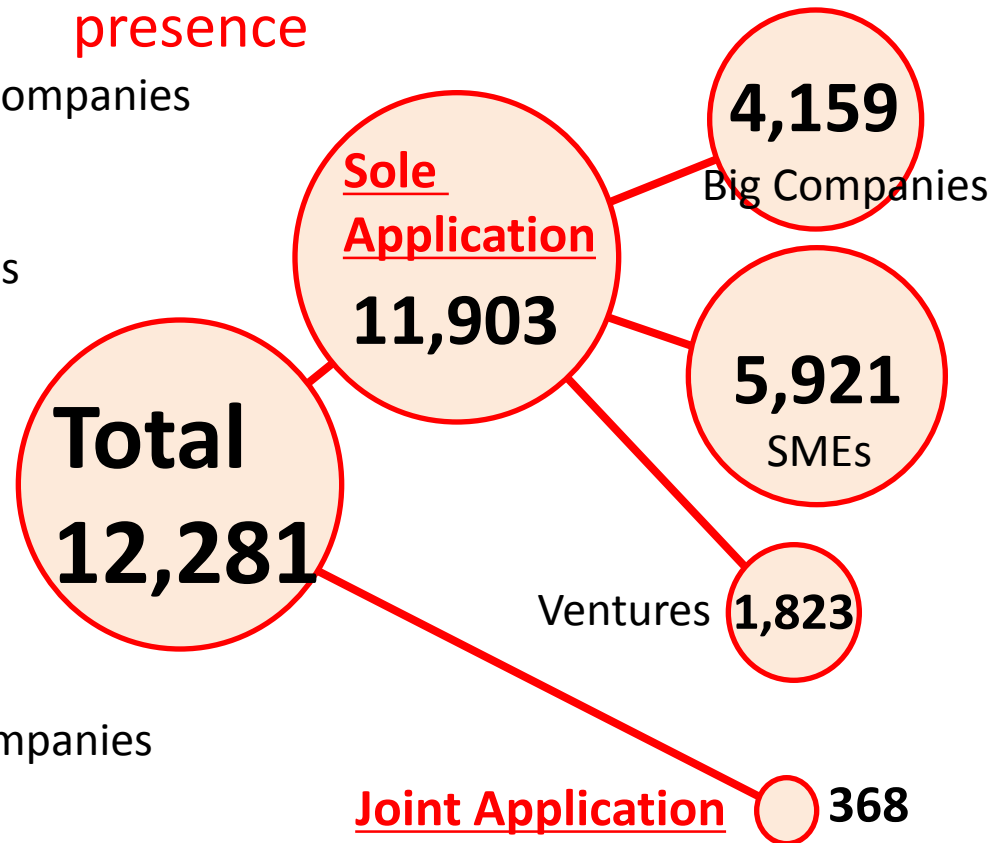
## Univ. Patent Application Japan, 2010

★ Easy to get Research Expenses



## Univ. Patent Application USA, 2010

★ Venture Companies are important presence



## Japan's Top 10 Universities ; Start Ups (2009)

Rank	Name	Established
1	University of Tokyo	151
2	Waseda University	111
3	Kyoto University	81
3	Osaka University	81
5	Tsukuba University	80
6	Tohoku University	68
7	Kyushu University	60
8	Tokyo Institute of Technology	56
9	Keio University	52
10	Hokkaido University	47

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## **Acquisition of Important Intellectual Property from Universities (2014~)**

JST promotes the utilization of intellectual properties, which have significant importance in national policy, by gathering and packaging those IPs scattered among universities.

## **Intellectual Property FS System**

JST provides support to university intellectual property headquarters and other institutions toward foreign patent applications, patent consultations and prior art searches for patents held by universities.

## Foreign Patent Application Support for Univ.

PCT applications supported : 4,956

National Phase supported (total): 8,675

Germany 1,397

UK 977

France 973

USA  
2,619

China 782

Korea 468

Taiwan 263

Others 1,093

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- A large, semi-transparent watermark of the JST logo is centered on the slide. It features the letters 'JST' in a large, blue, sans-serif font, with a blue circular arc and a red dot at the top, similar to the official logo.



**Thank You**