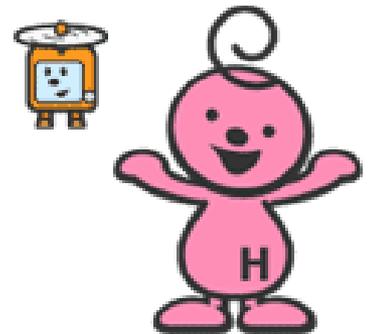


“University-industry collaborations in Japan”

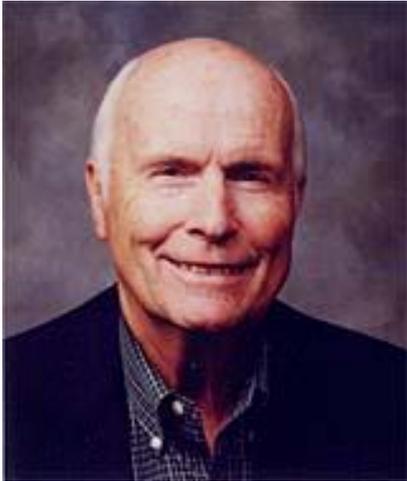
TODAI TLO, Ltd.

CEO & President ,Takafumi Yamamoto, RTTP

<http://www.casti.co.jp/>



Niels Reimers : Father of Technology Licensing



In 1968 he established a research management office and in 1969 the Office of Technology Licensing (OTL) at Stanford University.

The successful launching of these two offices led to his hiring by universities such as the Massachusetts Institute of Technology (MIT), the University of California at Berkeley, and the University of California at San Francisco, all of which were seeking to establish their own offices for technology transfers.

A cofounder of the Association of University Technology Managers (AUTM), Reimers has served as chairman of the Licensing Executive Society (U.S. and Canada) (LES). Reimers now serves as a consultant, advising universities around the world planning to open or operate their own technology transfer offices.

University – Industry collaboration in US & Japan

AUTM Survey in 2011

▪ Number of invention disclosures	21,865	(6%up)
▪ Number of patent applications	19,905	(6%up)
▪ Number of licenses	6,051	(12.6%up)
▪ Total loyalty income	2.5B\$	(2.6%up)
▪ Number of New Products	591	(10%down)
▪ Number of Spin-offs	671	(3%up)

UNITT (AUTM JAPAN) Survey in 2010

▪ Number of invention disclosures	8,867	(4.3%down)
▪ Number of patent applications	8,675	(1.4%down)
▪ Number of licenses	1,378	(78 universities)
▪ Number of active licenses	4,588	(78 universities)
▪ Total loyalty income	16M\$	(78 universities)

Japanese Government encourages universities to do a University-Industry collaborations.

The Basic Law for Science & Technology policy (1995)

The First Five year S&T Plan (1996~2000)

Report on Innovation Research Group (MITI)

Law for Promoting Technology Transfer from Universities (TLO Law)

Law for Special Measures for Industrial Revitalization

- Japanese Bayh-Dole Act
- Reduction of patent fees for approved TLOs

Law to Strengthen Industrial Technology

- Allowing TLOs to use national university facilities free of charge

1,000 University-start-ups in three years (Hiranuma Plan)

Enforcement of National University Reformation Law

IPR Ownership

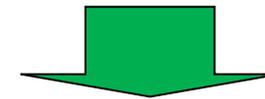
Incorporated as an Independent Agency

2004 / April



National Universities had no legal status.
Universities could not be a patent owner.

National Universities get legal status.
Universities can be a patent owner.



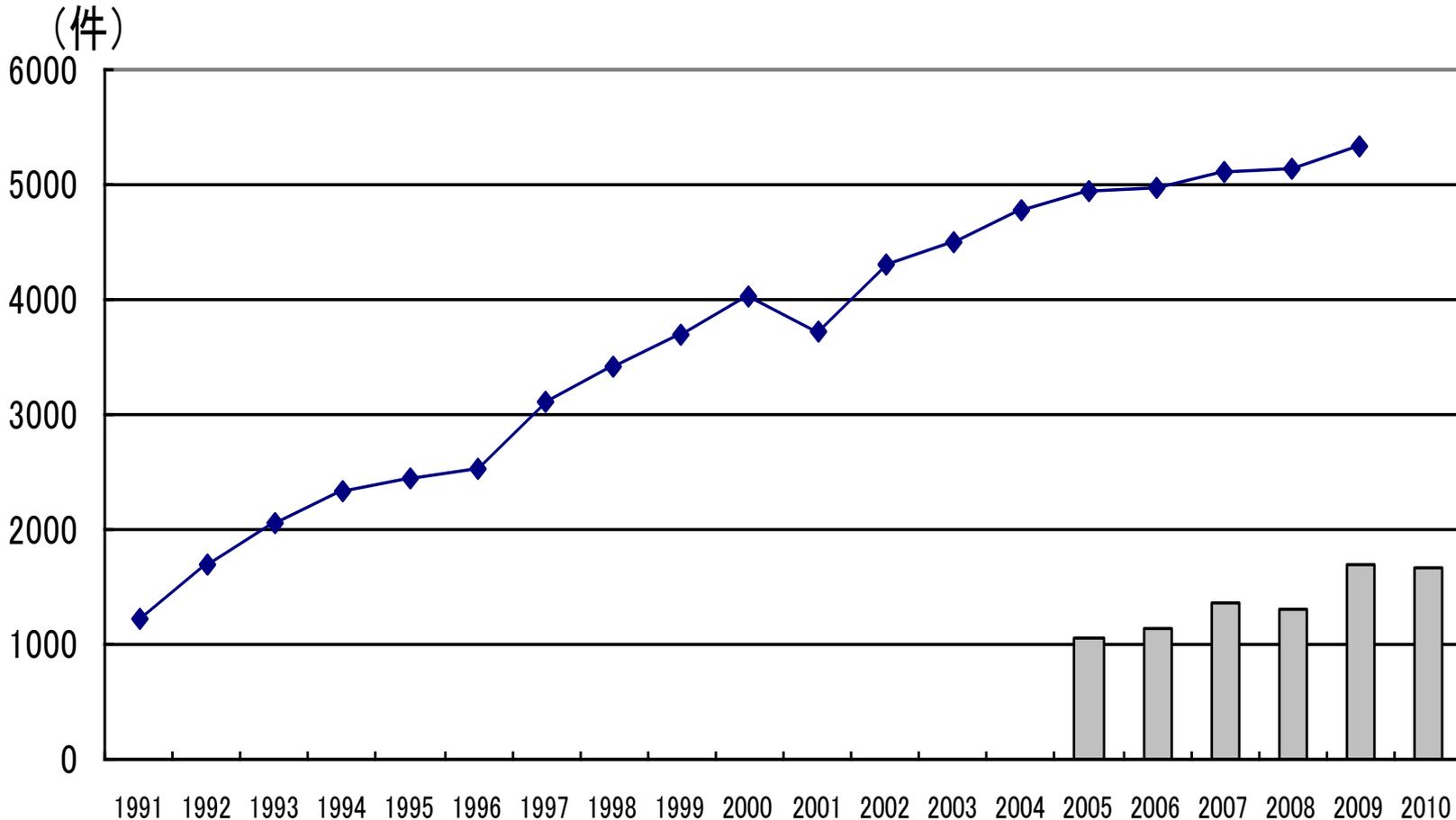
IPR belonged to inventors

TLOs contracted with inventors

IPR belongs to Univ.

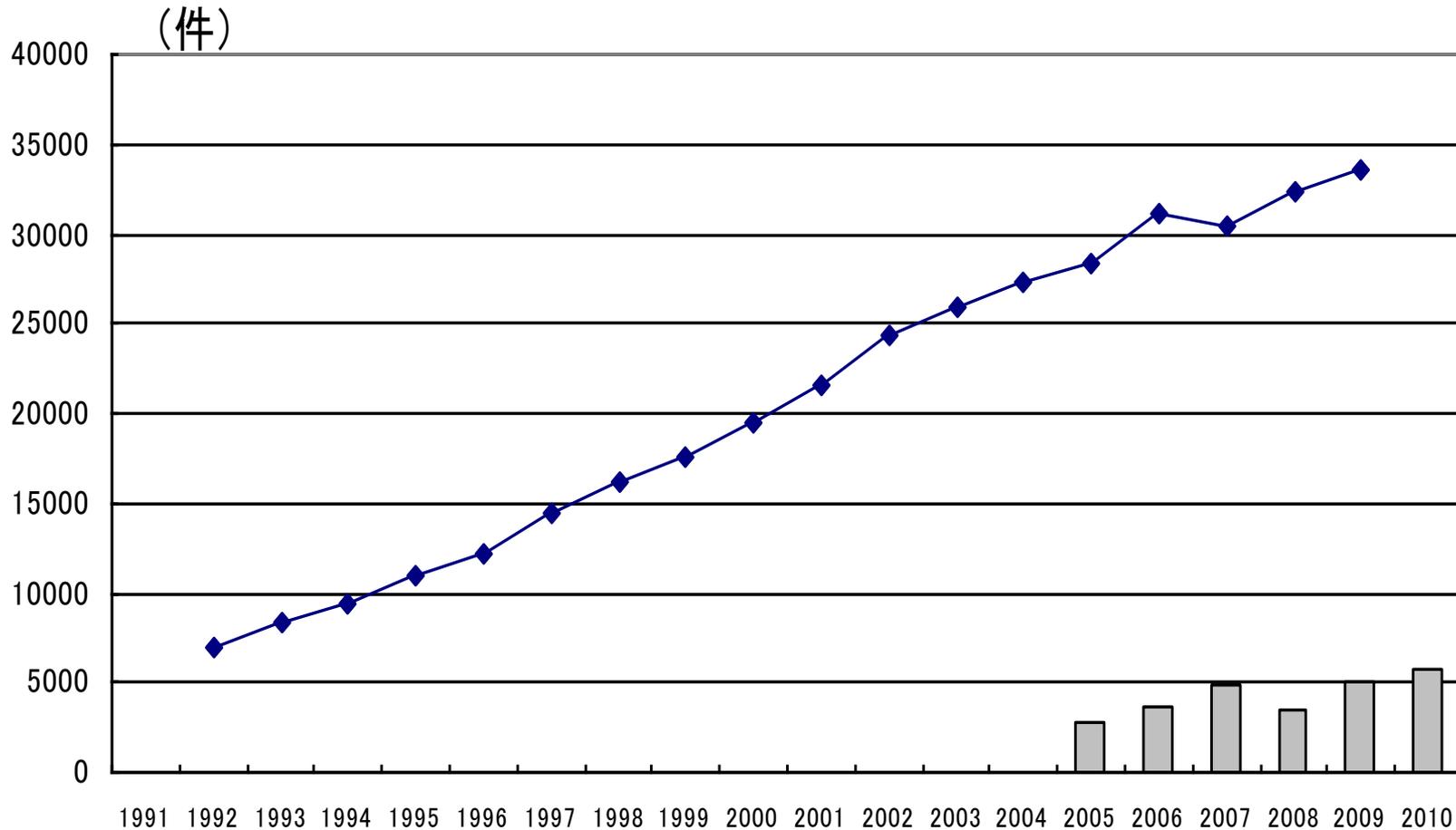
TLOs contract with Universities

Number of New Licenses (US & Japan)



The line graph shows the number of new licenses at US universities, and the bar graph shows the number of new licenses at Japanese universities.

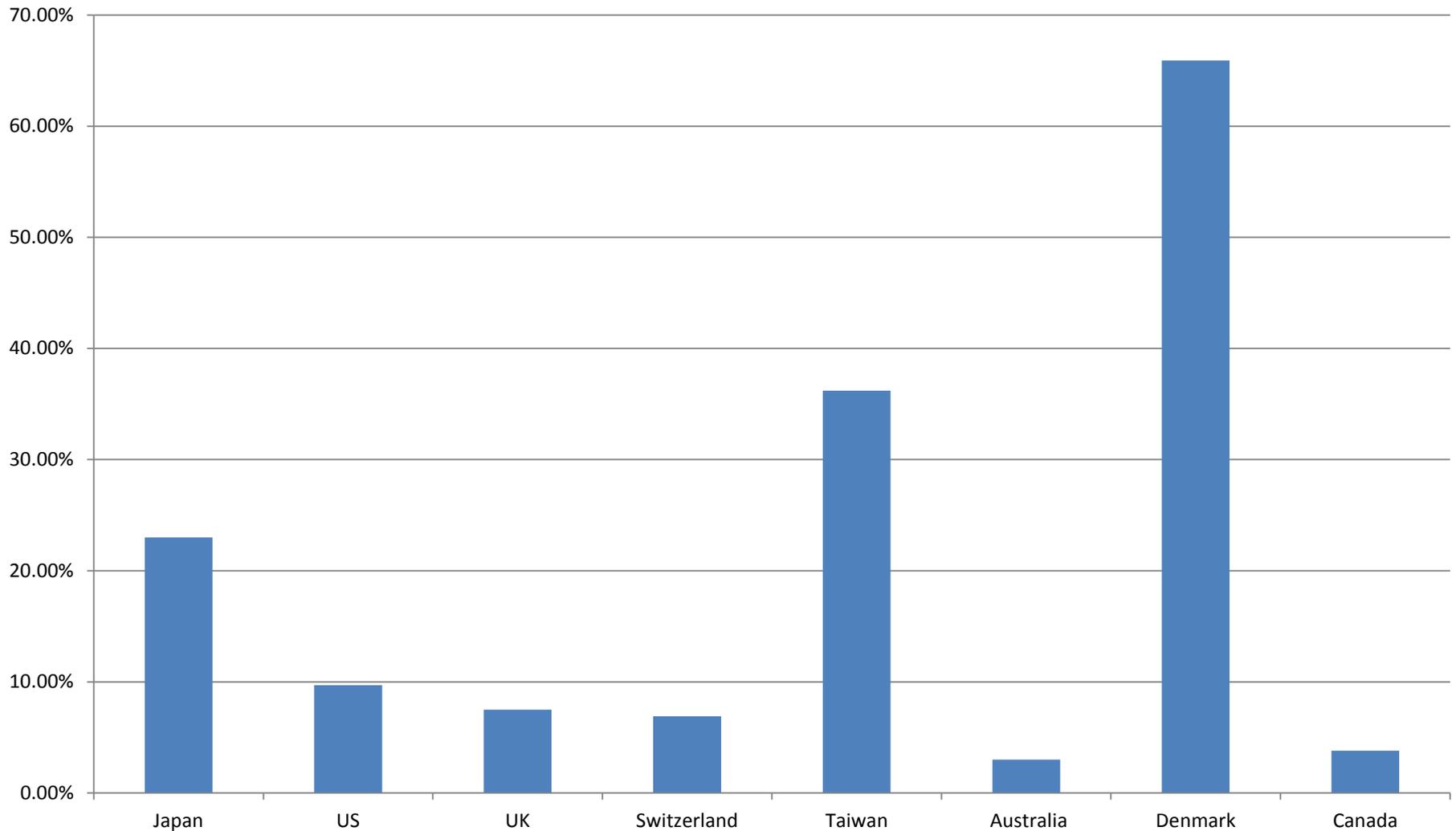
Number of Active (continued) Licenses (US & Japan)



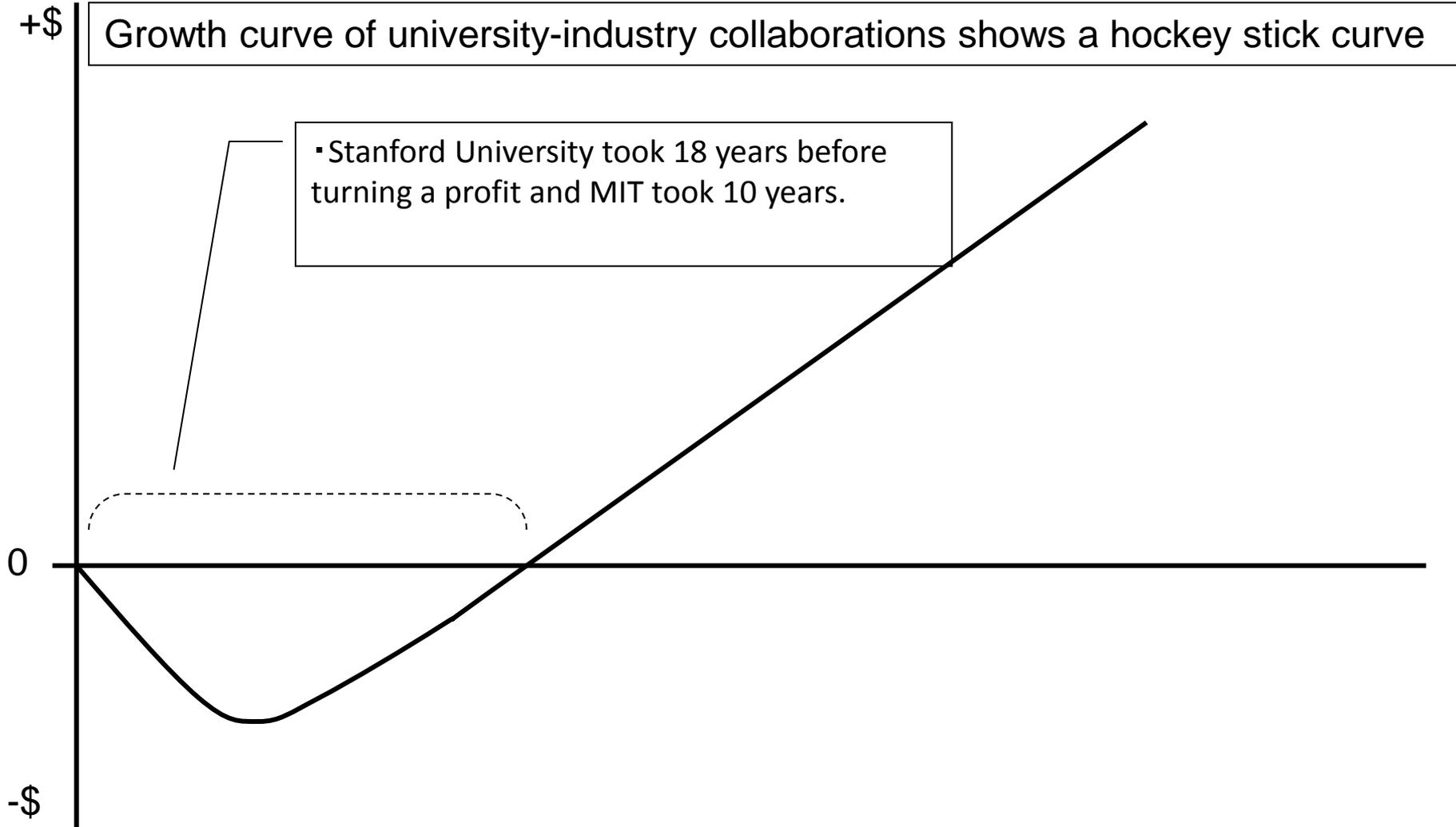
Trend diagram of continued licenses in Japan and the US. The line graph shows the trend in the US, and the bar graph shows the trend in Japan.

Japanese situation is at the same level that the US was at 19 years ago

Growth rate of royalty income in 2011 from 2010



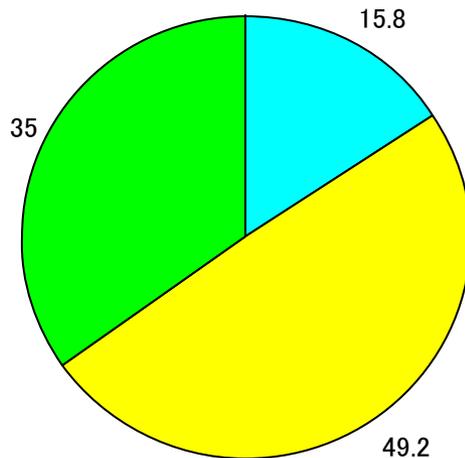
Structure and profitability of university-industry collaborations



University-industry collaborations SME in the US

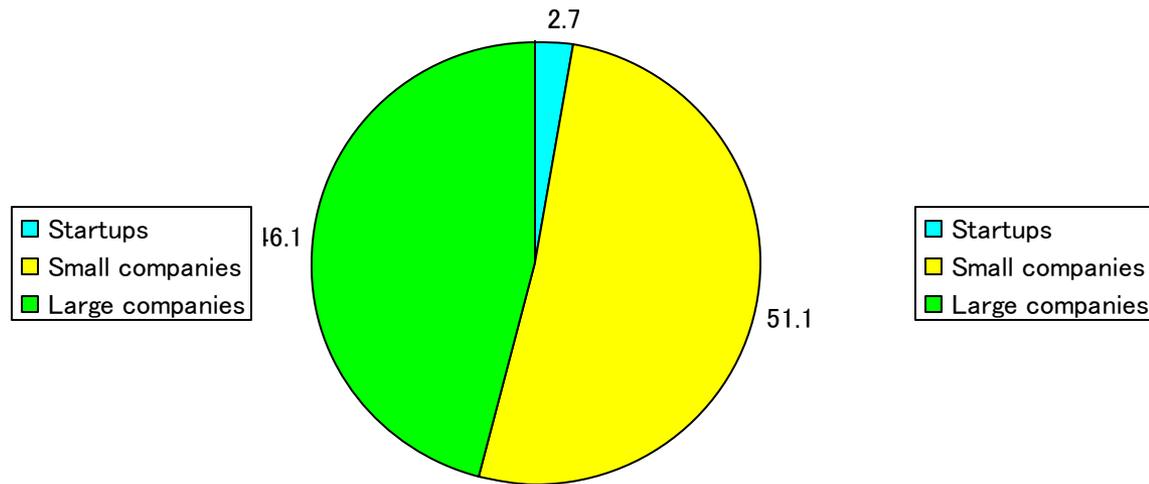
Two thirds of technologies in US universities are licensed to small- and medium-sized companies and startups, on the other hand, few of those are licensed to startups companies in Japan.

Size of Licensee (US)



AUTM survey 2008

Size of Licensee (Japan)



UNITT survey 2009

Support Triangle for Industry-university Cooperation at the University of Tokyo



University Corporate Relations University of Tokyo

Managing entity for IP:
Supports joint research through
the “Proprius21” scheme, etc.



UTEC

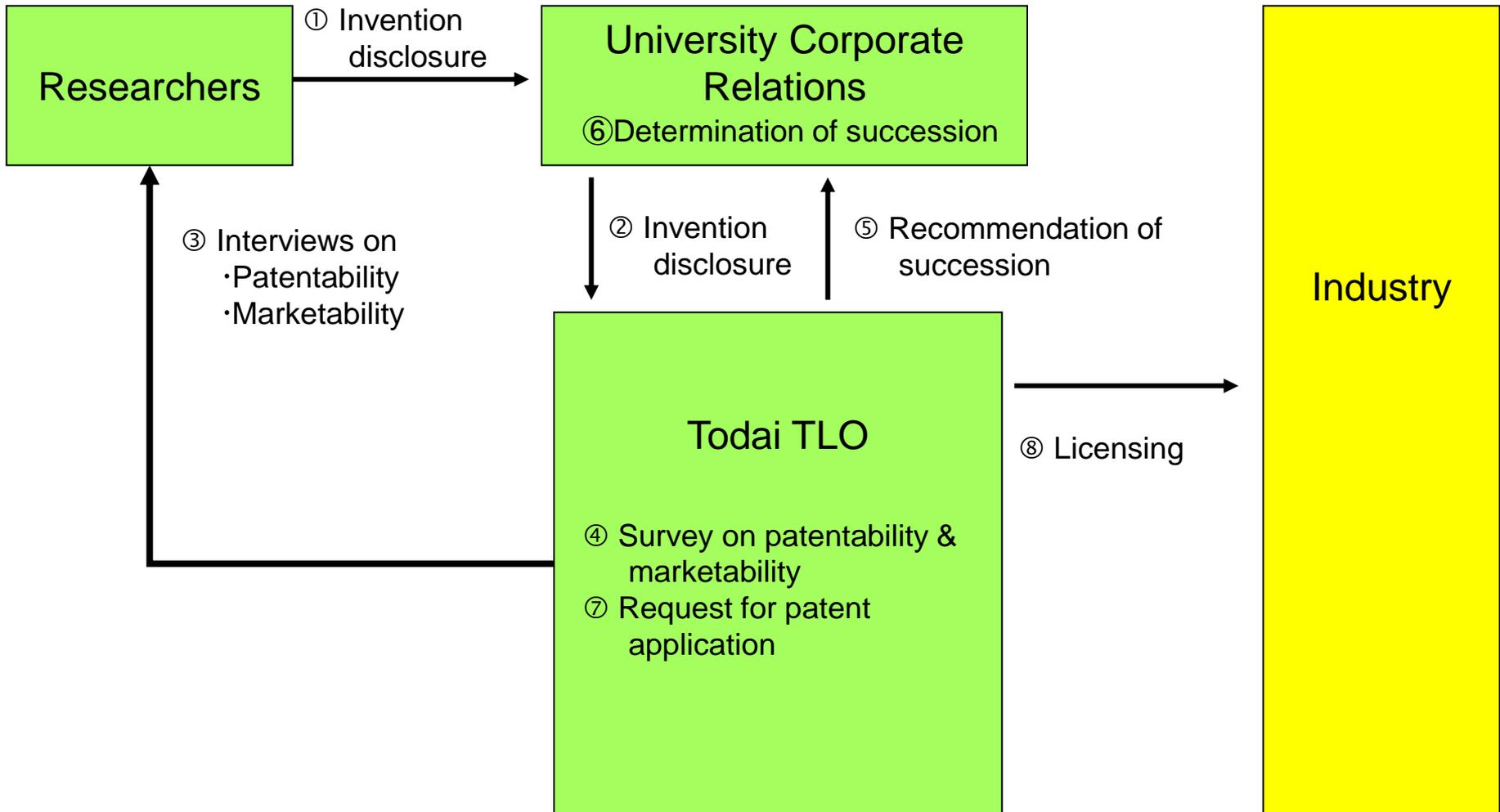
TODAI TLO

Operating entity for IP:
Marketing licenses to
companies, etc.

University of Tokyo Edge Capital (UTEC)

Supports the start-up of
university-oriented venture
businesses, in funds, human
resources, and other aspects.

Operations of Todai TLO



Our Team



Mr. Adachi



Mr. Ushio

Group1



石田 智朗

成田 真一

岩倉 綾子

Group2



本田 圭子

山岸 朋恵

本多 聡

Admin



天神 雄策

井原 桃子



鈴木 和哉

藤田 知子

小村 純子



梅田 絢



石堂 菜々子



福重 博士



田中 由紀

Liaison Group



富田 尚子

居石 圭司

田口 加奈

竹莖 友祐



飛田 弥生

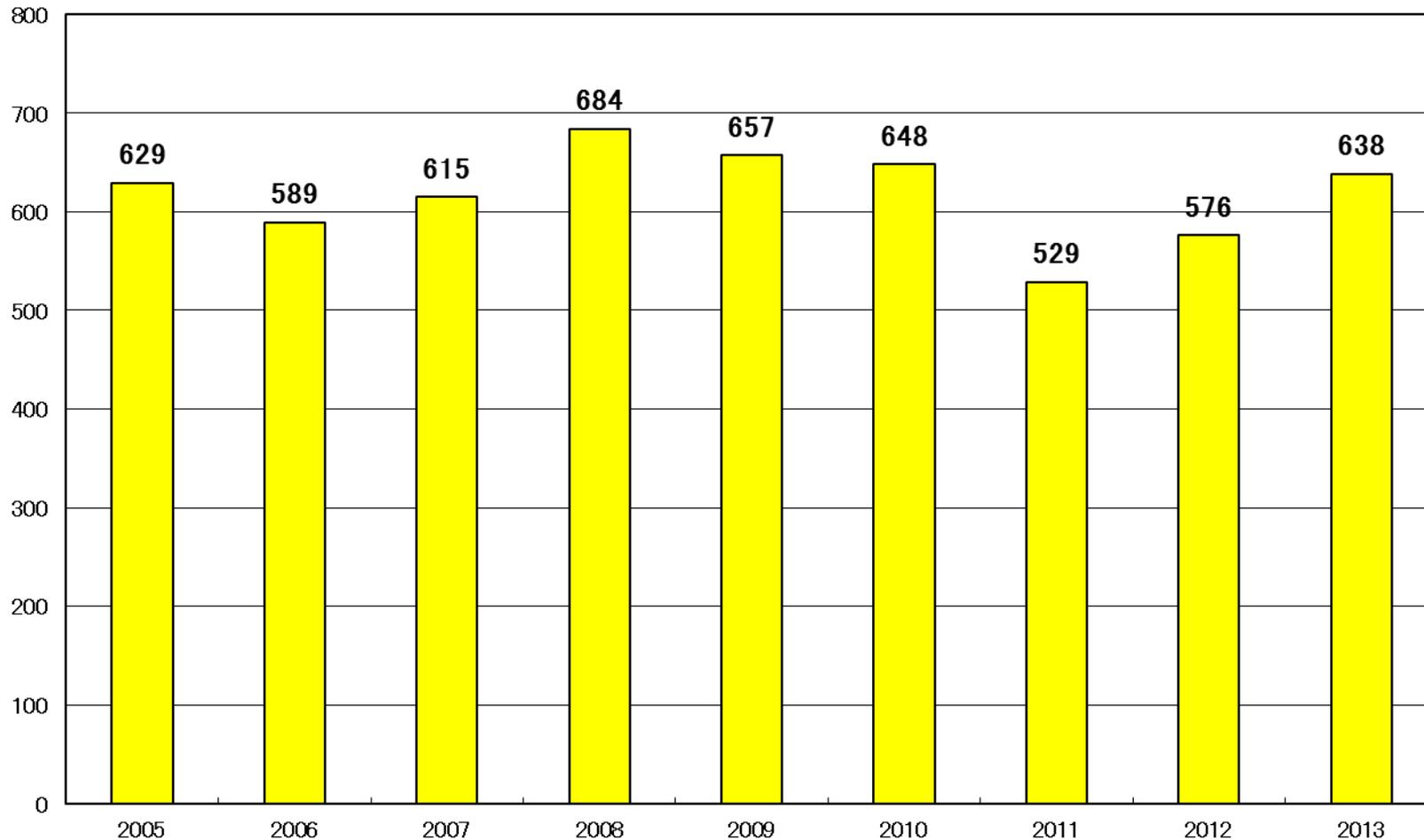
Number of Invention disclosure in 2005 (U.S. & Japan)

Name of university	Number of invention disclosure	Number of domestic applications	Application filing rate
University of California System	1,196	515	43.6%
University of Tokyo	627	313	49.9%
California Institute of Technology	549	416	75.8%
Tohoku University	527	380	72.1%
Osaka University	525	261	49.7%
MIT	515	287	55.7%
Tokyo Institute of Technology	464	317	68.3%
Kyoto University	457	324	70.9%
University of Wisconsin	405	163	40.3%
University of Pennsylvania	392	536	136.7%

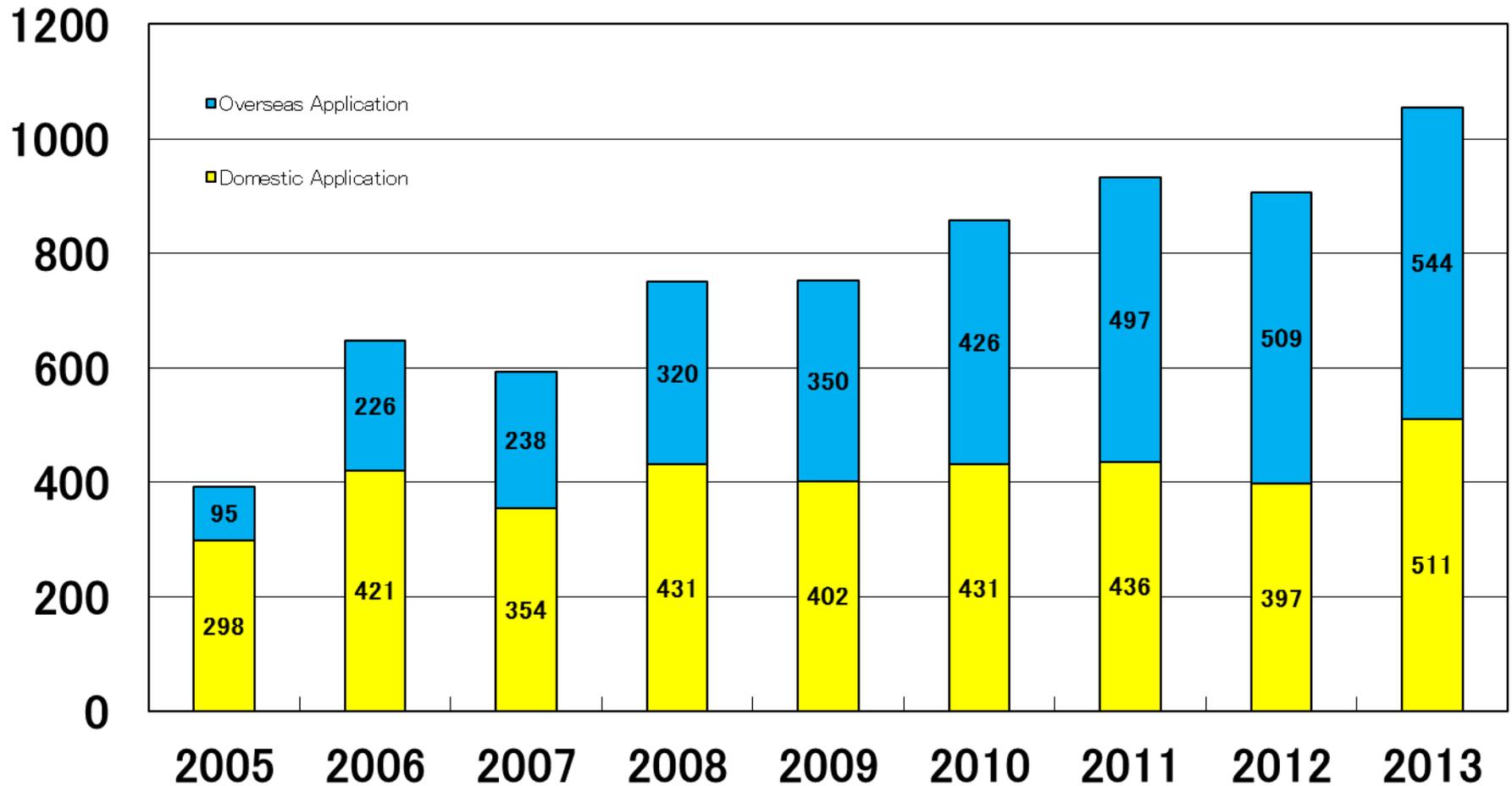
*Source: AUTM U.S. Licensing Survey FY 2004 for the US data and the “Performance of university-industry collaborations FY 2005” of the Ministry of Education, Culture, Sports, Science and Technology for Japanese data.

TODAI-TLO performance (Jan-Dec)

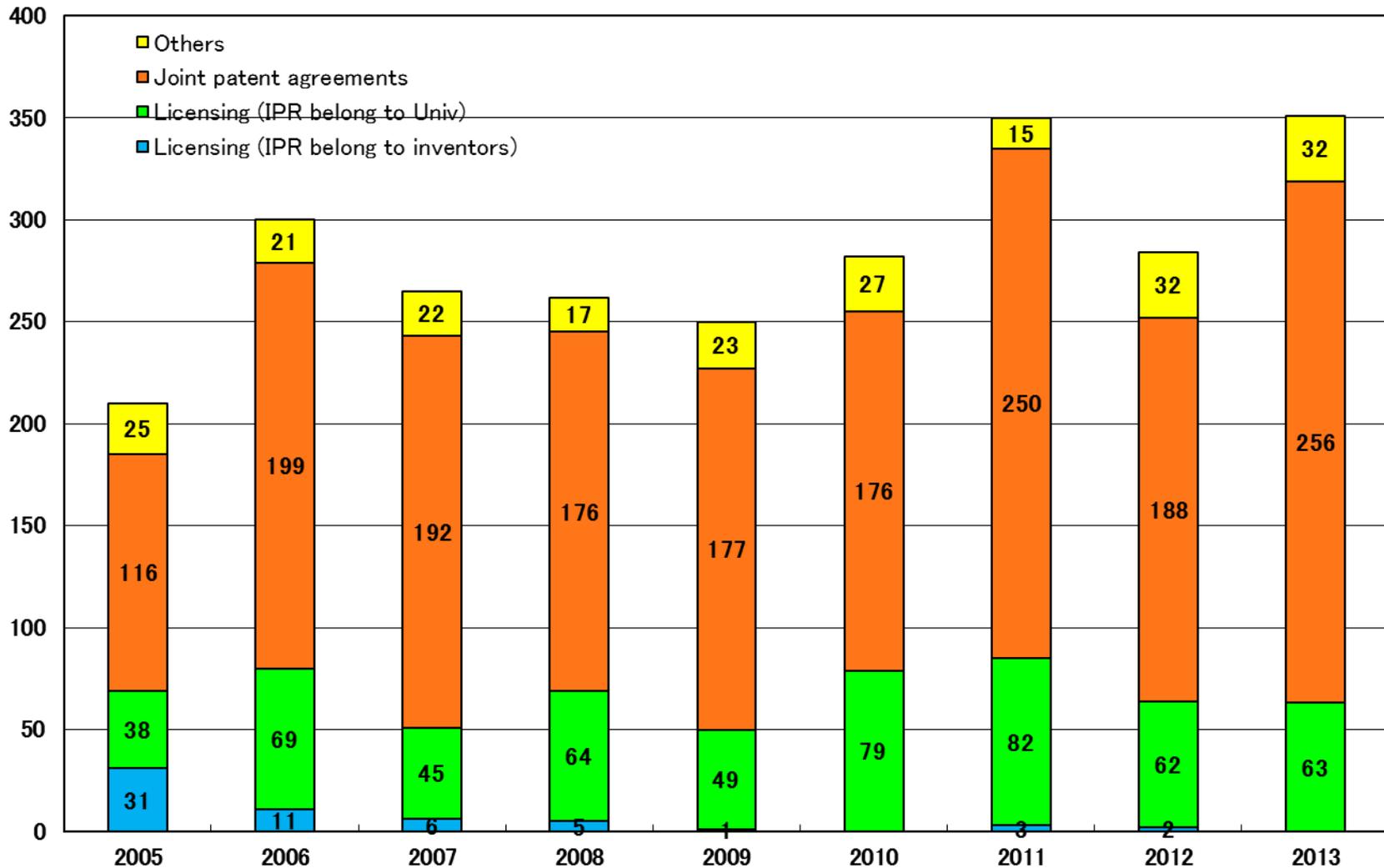
The number of invention disclosures that TODAI TLO accepted



Number of patent applications

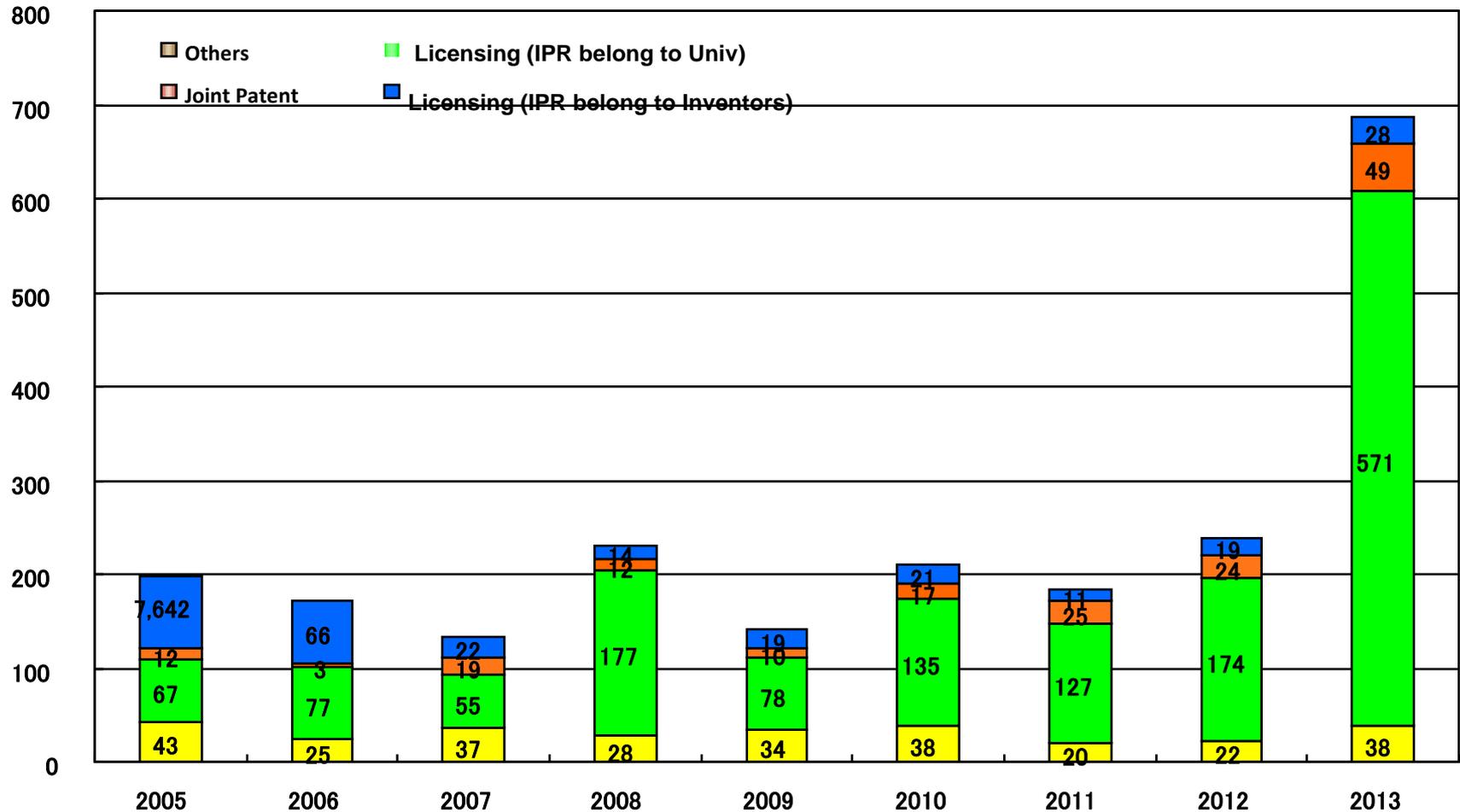


Number of Agreements



Royalty incomes

<million of yen>





PeptiDream Inc.
 Innovative Peptide Therapeutics

PeptiDream Inc is a privately-held biopharmaceutical company employing our proprietary Random Peptide Integrated Discovery (RAPID) Platform, a state-of-the-art highly versatile peptide generation and selection platform which enables the production of highly diverse non-standard peptide libraries with high efficiency, for the discovery and development of best-in-class and first-in-class peptide-based therapeutics.

Established in 2006



Japanese Universities focus on the international license

- Difference between the US Bayh-Dole act and the Japanese Bayh-Dole act

Preference to domestic industry

In the US, preference is given to domestic industry. Meanwhile, no such preference is specified in Japan.

- NIH Syndrome of Japanese companies
- TODAI TLO contracted with Aalto University in Finland.
- TODAI TLO contracted with Mr. Adach(Canada) and Mr. Ushio(US) as a Liaison person.
- We contracted with CDRD in CANADA.
- Another Japanese Universities focus on the overseas license.

Human Resource Development and Networking through Inter-university Cooperation

UNITT 2012 Annual Conference in Japan.



* UNITT = University Network for Innovation & Technology Transfer
(AUTM Japan)

10th UNITT Annual Conference was held at Tokyo Metropolitan University on
September 13th & 14th.

11th UNITT Annual Conference will be held at Kansei Gakuin University on
September 5th & 6th.

(About 500 people attended to this conference)

We held a 3rd “**AUTM-ASIA conference in Kyoto in 2013**”.

Technology Transfer educational courses (Basic and Applied Courses) are
provided by UNITT.

Thank you!

