

Innovation & Knowledge Integration

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Innovation

Innovation \neq Invention

○ Innovation = Invention \times Commercialization

Japan's weakness

Vision Chips by Prof. Ishikawa & Dr. Oku

The case of Knowledge Integration

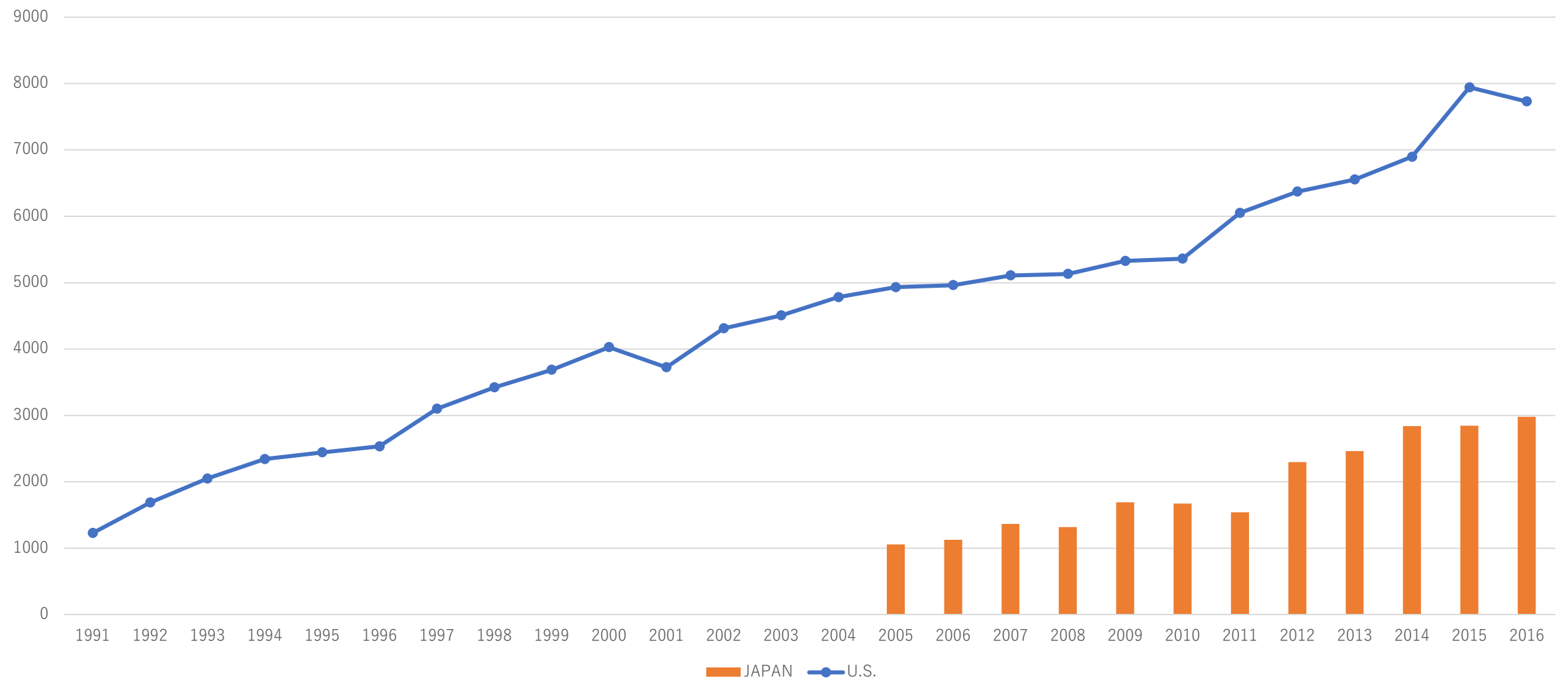


Total amount of license revenue of all Japanese Universities.



UNITT Survey

Number of new licenses: Comparison between Japan and the U.S.



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.

Knowledge Integration within the Univ. of Tokyo

- Collaborative laboratory between medical school and engineering department - Associate professor of medical department under professor of engineering department.
- Prof. Kataoka established 3 start-ups from this lab.
- III and GSII - It is a flexible network-like organization for graduate-level research and education that seeks to bind together the various fields of research related to “information” previously carried out separately in different departments of the University of Tokyo.
- RCAST – is extend these research areas over a wide range, from basic and applied fields further to the social system.
- GSFS is established through comprehensive cooperation of all existing departments of the University of Tokyo.

Why Innovation & Knowledge Integration is required

- Because social issues are becoming more complex, researchers' interests also become interdisciplinary.
- Researchers always challenge new themes. The interdisciplinary area is attractive because it has not started yet.
- A company alone can not solve problems. The industry has to collaborate with universities. Hitach- TODAI lab.
- Young generations are more flexible both in academia and industry.
- Evocative management is required for innovation.