Name and title	Tatsuro YODA, Ph.D. Senior Principal Analyst, Institute for Future Engineering t.yoda@[Institute for Future Engineering]
Research focus	Science, technology and innovation policy; technology foresight; higher education policy; policy analysis
Recent selected research projects (reports written in Japanese.)	※Asterisk (*) shows the project for which Tatsuro Yoda was a project leader. FY2025 *Surveys and analyses related to research security and research integrity, and support for the operation and analysis of the G7 online platform "Virtual Academy" (Cabinet Office, Secretariat of Science, Technology and Innovation Policy) Project to Foster Think Tank Functions Related to Safety and Security: Overseas Personnel Exchange and Proposals on the Role of Think Tanks (Cabinet Office, Secretariat of Science, Technology and Innovation Policy) *Survey on International Researcher Exchange and Networking (Ministry of Education, Culture, Sports, Science and Technology) FY2024 Survey and Analysis on Overseas Policy Systems (including think tank functions) for Promoting Innovation (Cabinet Office, Secretariat of Science, Technology and Innovation Policy (conducted jointly with the Mitsubishi Research Institute)) Project to Foster Think Tank Functions Related to Safety and Security: Overseas Personnel Exchange and Proposals on the Role of Think Tanks (Cabinet Office, Secretariat of Science, Technology and Innovation Policy) *Survey on International Brain Circulation (Ministry of Education, Culture, Sports, Science and Technology) *Survey on International Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) FY2023 *Survey on International Research Exchange in the Post-COVID Era (Watanabe Memorial Foundation for the Promotion of New Technology) *Survey and Analysis on Research Integrity (Cabinet Office, Secretariat of Science, Technology and Innovation Policy) Identification of Research Themes to Be Promoted in the Medium to Long Term, Taking into Account the Relationship Between Science, Technology, and Society (Ministry of Education, Culture, Sports, Science and Technology) *Survey on Researcher Mobility (Ministry of Education, Culture, Sports, Science and Technology) FY2022 *Survey and Analysis on Research Integrity (Cabinet Office, Secretariat of Science, Technology and Innovation Policy) *Research Study on the Employment and Utilization of Doctoral Degree Holders in Public Institutions (Ministry of Education, Culture, Sports, Science and Technology) *Survey on Improper Research Conduct (Japan Agency for Medical Research and Development) Research on the Expansion of Influence by Emerging Nations in Latin American Countries (National University) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) FY2021 *Use of Mathematical Models in Policy Formulation: A Case Study of the Response to COVID-19 (Watanabe Memorial Foundation for the Promotion of New Technology) *Survey on Fund Systems and Their Operational Structures for Promoting the Commercialization of Research Results from Universities and Other Institutions (National University) *Survey on the Status of High Schools in Asian Countries and Regions (Japan Science and Technology Agency) Survey on the Status of Major Institutions and Systems in Education, Science, and Technology in Russia, Eastern European Countries, and the Baltic States (Japan Science and Technology Agency)

	Commissioned Survey on Climate Change and National Security (Ministry of Defense) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) <u>FY2020</u> *Analysis of Survey Methods for Innovative Technologies in Pharmaceuticals and Related Fields (Ministry of Health, Labor and Welfare) *Survey and Analysis of the Current State of Research Ethics Education in Japan (Ministry of Education, Culture, Sports, Science and Technology) Survey on Key Technologies for Defense Equipment (Supply Chain) (Ministry of Economy, Trade and Industry) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) <u>FY2019</u> *Analysis of Survey Methods for Innovative Technologies in Pharmaceuticals and Related Fields (Ministry of Health, Labor and Welfare) Concept for Next-Generation Artificial Intelligence I (Responsible Area: Artificial Intelligence and "Mind"/"Consciousness") (Watanabe Memorial Foundation for the Promotion of New Technology) Survey and Analysis of Trends in Science, Technology, and Innovation Policies in Major Countries (Responsible Area: Germany) (Cabinet Office) Survey and Analysis of the Future Vision for Japan and the International Community (Cabinet Office) *Research on International Joint Degree Programs (Ministry of Education, Culture, Sports, Science and Technology) Research Aimed at Developing Faculty Training Programs to Promote Gender Equality (Ministry of Education, Culture, Sports, Science and Technology) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) <u>FY2018</u> *Survey on Innovative Technologies for Follow-up to the Summit of Pharmaceutical Regulatory Authorities (Ministry of Health, Labor and Welfare) *Case Study on Whistleblowers of Research Misconduct and Their Protection (Watanabe Memorial Foundation for the Promotion of New Technology) *Survey on the Establishment of a Support Organization for the Japan Advanced Institute of Science and Technology (Japan Advanced Institute of Science and Technology) Survey on the Medium- to Long-Term Development of Science and Technology and the Future Vision of Society (Health and Medical Fields) (Ministry of Education, Culture, Sports, Science and Technology) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) <u>FY2017</u> Comparative Research on STEM Education and STEM Career Support for People with Disabilities (Watanabe Memorial Foundation for the Promotion of New Technology) *Practical Survey on the Formation of an Innovation Ecosystem in Okinawa (Cabinet Office) *Survey on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) *Research on Tax Systems in Other Countries Regarding Funds Invested in University Education by Companies and Individuals (Ministry of Education, Culture, Sports, Science and Technology) *Research Study on Reducing Household Burdens for Higher Education Costs through an Income Contingent Education Cost-Sharing Scheme (Ministry of Education, Culture, Sports, Science and Technology) Services Related to a Survey on the Utilization of Private-Sector Expertise in the Field of Defense Technology (Ministry of Defense) <u>FY2016</u> *Survey on Investigation Methods for Research Misconduct (Japan Agency for Medical Research and Development) Trends in Space Policy (Focus: International Space Law) (National Diet Library)

	Research on the Foundation for Utilizing Foresight to Support the Formulation of Science, Technology, and Innovation Policies (Watanabe Memorial Foundation for the Promotion of New Technology) Comparative and Analytical Study on Social Systems and Human Resource Development in Relevant Countries Aimed at Promoting Women's Participation in Science and Engineering Fields (Cabinet Office) *Study on the Ideal Model for University Management at the Okinawa Institute of Science and Technology (OIST) Based on the Initiatives of the California Institute of Technology and IST Austria (Cabinet Office) *Study on Researcher Exchange (Ministry of Education, Culture, Sports, Science and Technology) FY2015 Survey on the Actual Conditions of Overseas Transfers of Defense Equipment in Other Countries (Ministry of Economy, Trade and Industry) Survey on Approaches to Strengthening Industry-Academia Collaboration at Universities and Research Institutions (Cabinet Office) *Survey on International Exchange of Researchers (Ministry of Education, Culture, Sports, Science and Technology) FY2014 *Comparative study on government policies to prevent research misconduct in major countries. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. October 2014. FY2013 *Study on international mobility of researchers. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. March 2014. Survey on SME-University collaboration in Japan. Contract study for the Ministry of Economy, Trade and Industry. March 2014. Study on diversity of science and technology research in Japan. Research study with grant from the Watanabe Memorial Foundation for the Advancement of Technology. December 2013. Science, technology and innovation policy in Germany. Contract study for the Cabinet Office. March 2014. FY2012 *Study on methodologies for scanning social and economic problems for science and technology policy making. Research study with grant from the Watanabe Memorial Foundation for the Advancement of Technology. March 2013. Comparative study on best management practices at major R&D funding agencies in Japan and European countries. Contract study for NEDO. Study on methodologies for evaluating the 4th Science and Technology Basic Plan in Japan. Contract study for the Cabinet Office. FY2011 *Study on long-term policy visions in Japan. Research study with grant from the Watanabe Memorial Foundation for the Advancement of Technology. December 2011. *Study on funding mechanisms for promoting commercialization of research results at universities. Contract study for the Ministry for Economy, Trade, and Industry. March 2012. *Study on gap funding programs at universities in the U.S., Europe and Japan. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. December 2011. *Study on corporate foresight. Research study with grant from the Watanabe Memorial Foundation for the Advancement of Technology. March 2012. Study on implementation and use of ex post evaluations of R&D programs. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. March 2012. Study on preparation of the society and development of S&T to cope effectively with crisis situations. Contract study for the Watanabe Memorial Foundation for the Advancement of Technology. March 2012. FY2010 *What are hurdles for promoting open innovation in Japan for firms, universities, public research institutes, government, industry, economy, and society?: Literature survey. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). March 2011.

	*Comparative study on medical devices innovation and cooperation between medical doctors and engineers in Japan, United States, and Germany. Research study with grant from the Watanabe Memorial Foundation for the Advancement of Technology. March 2011. *Tatsuro Yoda and Takeo Yamada. Strategy for constructing an international R&D consortium on nanotechnology in Japan. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). March 2011. *Study on participation of foreign firms in R&D activities at U.S. universities. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. March 2011. Study on science on science, technology and innovation policy. Contract study for the Research Institute for Science and Technology for Society (Japan Science and Technology Agency). March 2011. <u>FY2009</u> *Comparative study on the scale of higher education in major countries. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. March 2010. *Comparative study on quality assurance systems and degree programs of universities in major countries. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. July 2009. *Study on innovation system of publicly funded research. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). July 2009. <u>FY2008</u> Opinion survey on job search experiences of doctoral students and graduates of doctoral programs. Contract study for the Ministry of Education, Culture, Sports, Science and Technology. March 2009. *Report on the 19th Northeast Asia Cooperation Dialogue. Contract project for the Ministry of Foreign Affairs. March 2009. (classified) *Post-program evaluation study on PRESTO (Precursory Research for Embryonic Science and Technology) science research projects (research areas: Form and Function, Structure and Transformation, and Unit Process and Combined Circuit (FY1997-2002)). Contract study for the Japan Science and Technology Agency. October 2008. <u>FY2007</u> *Report on the 18th Northeast Asia Cooperation Dialogue. Contract project for the Ministry of Foreign Affairs. March 2008. (classified) *Study on priority-setting processes of making a long-term R & D strategy at public research institutes in Japan and abroad. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). March 2008. *Study on budget composition of major public research institutes in the United States and European countries. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). March 2008. Japan External Trade Organization (JETRO) et al. Report on pilot project of the introduction of Resident Information Management System in the Socialist Republic of Vietnam. March 2008. *Comparative study on methods for constructing logic for selection of R & D themes. Contract study for the National Institute of Advanced Industrial Science and Technology (AIST). June 2007. Japan Science and Technology Agency. Report on survey on Science Channel programs in FY2008. September 2007. <u>FY2006</u> Study for making future scenarios on innovation in 2025. Contract study for the National Institute of Science and Technology Policy. March 2007.
Job experiences	2006 - Present: Institute for Future Engineering (Japan) Before joining the Institute for Future Engineering in 2006 (the Institute for Future Technology (IFTECH) at the time), Yoda was a researcher at the RAND Corporation (USA), and an official at the Japan Defense Agency (renamed as the Ministry of Defense at present) of the Japanese government. Georgetown University. School of Foreign Service. Fellow (1996-97).
Education	Ph.D. (policy analysis). Pardee RAND Graduate School (USA) M.S. (science and technology policy) Science Policy Research Unit. University of

	Sussex. UK. M.S. Department of General Systems Studies, Graduate School of Arts and Sciences, University of Tokyo. Bachelor of Liberal Arts. Systems Sciences Section, College of Arts and Sciences, University of Tokyo.
Publication (peer-reviewed)	Tatsuro Yoda. "The effect of collaborative relationship between medical doctors and engineers on the productivity of developing medical devices." *R&D Management*. (2016) Toshihiko Nomi, Yoshinao Onuma, and Tatsuro Yoda, "Estimation of the Number of SMEs Conducting Joint Research with Universities and Examination of Future Measures." (In Japanese) *Journal of the Japan Society for Intellectual Production*. (accepted in December 2014) Tatsuro Yoda. "Perceptions of domain experts on impact of foresight on policy making: The case of Japan." *Technological Forecasting & Social Change*. 78 (2011), pp. 431-447. Tatsuro Yoda. "Japan's Host Nation Support Program for the U.S.-Japan security alliance: Past and Prospects," *Asian Survey*, 46:6 (November/December 2006) Tomohiro Ijichi, Tatsuro Yoda, Ryo Hirasawa, "Mapping R & D Network Dynamics: Analysis of the Development of Co-author and Co-inventor Relations" *Journal of Science Policy and Research Management*, Vol. 8, No.3, 1993
Recent conference papers, etc.	Tatsuro Yoda and Hiroyuki Ohtake. "Diversity in mobility patterns of researchers" at the 29th conference of the Japan Society of Science Policy and Research Management. October 2014. Tatsuro Yoda. "Corporate Foresight in Japan" at the 28th conference of the Japan Society of Science Policy and Research Management. November 2013. Tatsuro Yoda, Hiroyuki Otake and Ryo Hirasawa. "Exploration of wildcard scenarios for identifying the social and economic issues germane to Japan's science and technology policy." (in Japanese) at the 27th conference of the Japan Society of Science Policy and Research Management. October 2012. Tatsuro Yoda. 2009. Cooperation between medical doctors and engineers for developing advanced medical devices. In *Proceedings of the 2009 Atlanta Conference on Science and Innovation Policy*, ed. Susan E. Cozzens and Pablo Catalán. IEEE. [http://hdl.handle.net/1853/32330] Tatsuro Yoda. "Participants Looking Back: What Are Perceptions of Participants of Past Foresight Activities on the Impact on Policy-making?" IPTS. Third International Seville Conference on Future-Oriented Technology Analysis (FTA). October 2008.
Award	Richard E. Sherwood Memorial Award (June 2006, RAND Corporation)
Professional organizations	2006- The Japan Society for Science Policy and Research Management 2014- Public Policy Studies Association, Japan
Languages	Japanese (native), English (fluent), French (moderate), German/Chinese/Korean (basic)