Perspectives from WIPO
WIPO's activities on AI and IP

Dialogue on Utilizing the Intellectual Property (IP) System for Economic, Social and Cultural Development in the Digital Era - Japan and Selected Arab countries   Tokyo, Japan

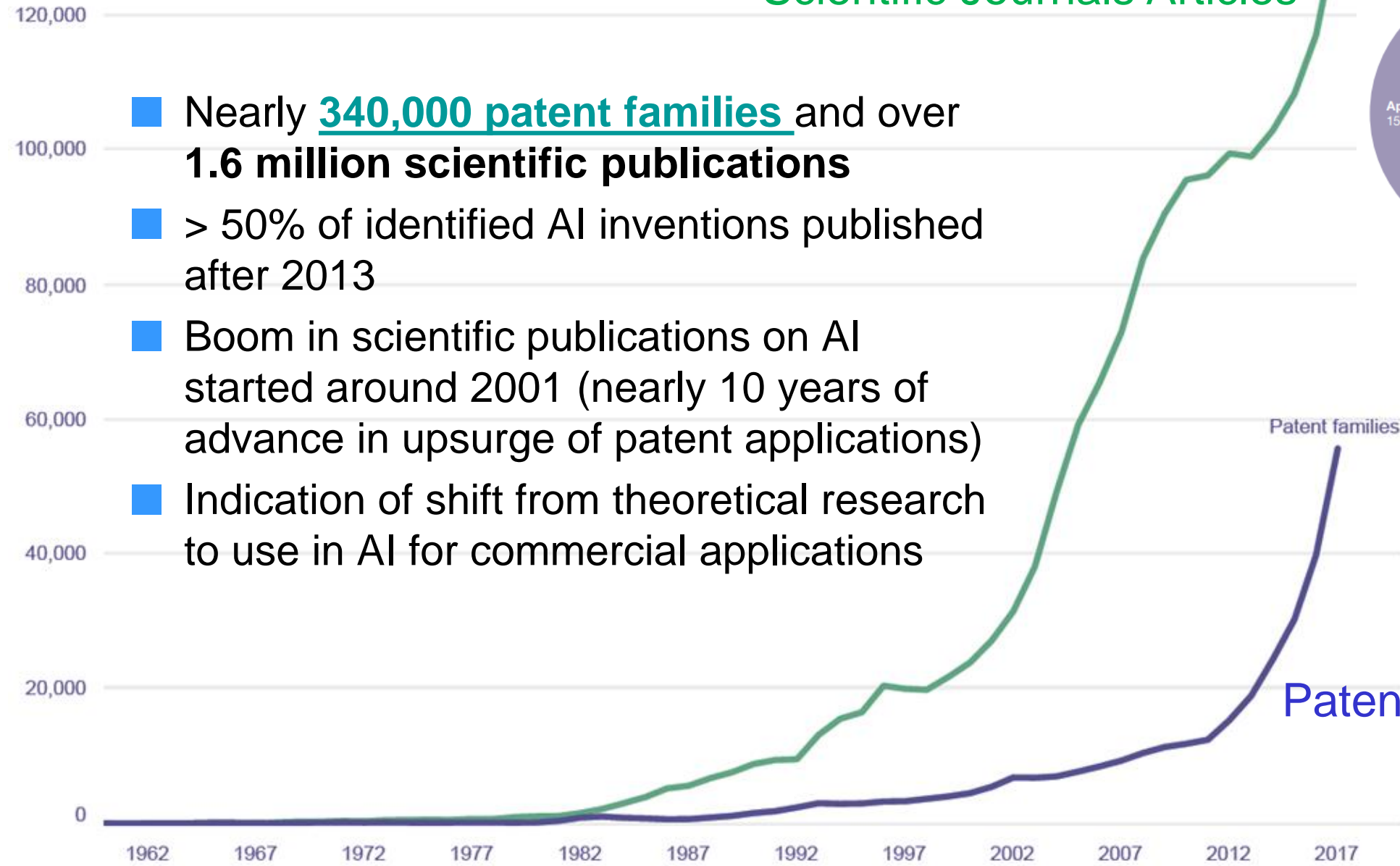October 28, 2019

Ken-Ichiro Natsume

Senior Director, PCT Legal and International Department, WIPO

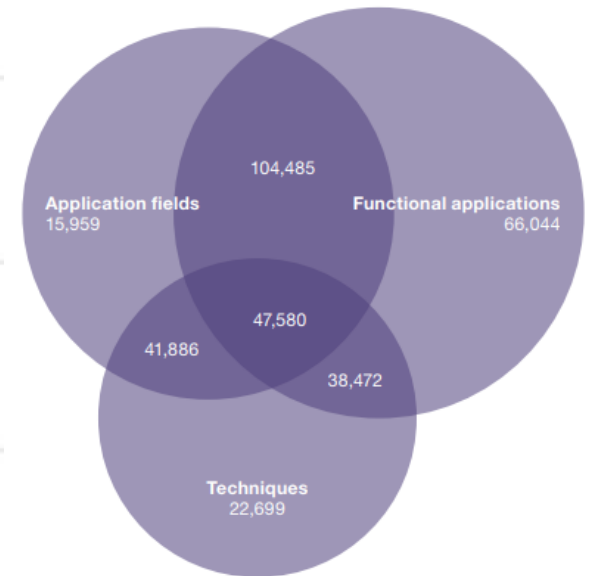# WIPO Technology Trends (WITT) Report

https://www.wipo.int/tech_trends/en/artificial_intelligence/

Scientific Journals Articles

- Nearly **340,000 patent families** and over **1.6 million scientific publications**
- \> 50% of identified AI inventions published after 2013
- Boom in scientific publications on AI started around 2001 (nearly 10 years of advance in upsurge of patent applications)
- Indication of shift from theoretical research to use in AI for commercial applications

Patent families

AI applications to IPO Administration

- In May 2018, WIPO Conference on ICT Strategy and AI applications to IPO administration was the first international meeting on the topic
- The first international survey in 2018, and its updated survey in 2019 show that more than 20 IPOs are using AI applications either on trial or in the course of ordinary operations; see WIPO/IP/AI/GE/19/1 at https://www.wipo.int/edocs/mdocs/globalinfra/en/wipo_ip_ai_ge_19/wipo_ip_ai_ge_19_1.pdf
- Main areas where AI is being used for IPO administration are prior art search, patent classification, internal files distribution, machine translation, helpdesk services, and business management enhancement.

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WIPO IP-related AI Tools

- [WIPO Translate](#) (internally developed machine translation tool for IP documents; a transition from statistical MT or SMT to neural MT or NMT) – SMT is licensed to 5 UN agencies and EAPO and NMT to two UN agencies and KIPO, 10 PCT languages of publication; Up-to 2 million words per day in Patentscope

- IPC CAT (improved neural version of an automatic IPC classification tool; 2018)

- WIPO Image Similarity Search for trademarks (launched in April 2019 for search of logos and device marks)

- WIPO Speech to Text (AI-assisted tool to recognize speech and automatically generate text)

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Session 3

■ Utilization of cutting-edge technology as a tool in the prosecution and administration of patent systems