

Digital innovation is a step to changing the of society of today and the future

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CEPR-RIETI Symposium

Changing Course: Multilateral Cooperation toward Green Growth and Digital Transformation

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Kazuya Tanaka

Researcher in AI & Data Science / Entrepreneur

Kazuya Tanaka is a researcher in AI & Data Science in the University of Tokyo, in interdisciplinary research among cutting-edge technology like AI and policy making in GRIPS Alliance, National Graduate Institute For Policy Studies. At the same time, establish a smart city startup, scheme verge Inc as CTO&CSO. with the civil engineer researcher, from Japanese national research project about autonomous driving, SIP-adus. Currently I am also selected as a member of Young Academy of Japan (Youngest member) in Science Council of Japan, and contributed tech-driven engagement such as VC&incubator, other university, OIST, and NPO activities, TEDx.

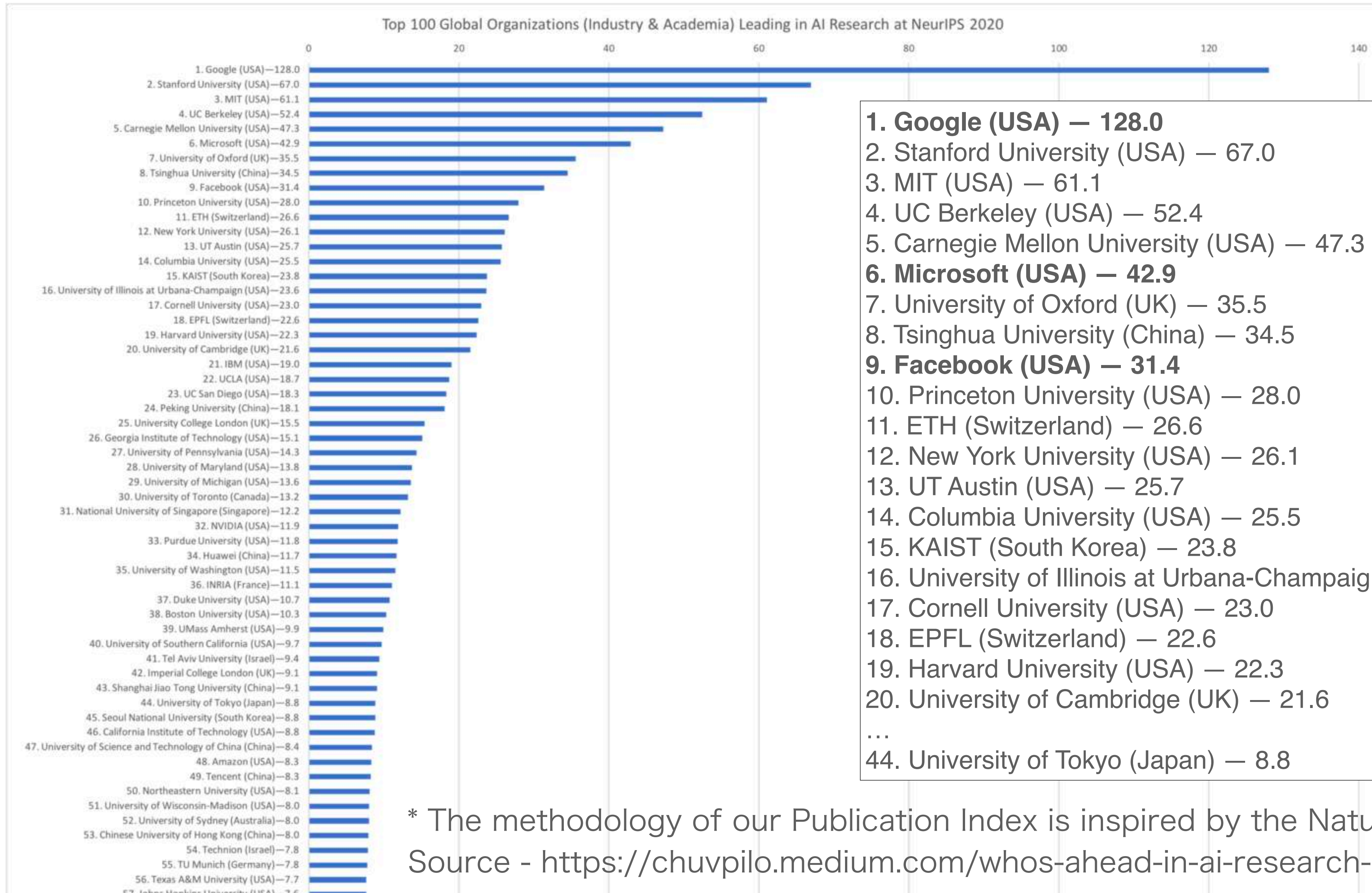
Before the current position, he studied at Graduate School (Ph.D. and Master) of Engineering, the University of Tokyo, and he worked at Corporate and Investment Banking, Citibank (Tokyo and London etc.) after his graduation from Tokyo University of Science.



>>> <https://kazuyatanaka.com/>
(English page will come soon)

What is happening in digital innovation

- Top AI conference research result by each institution (NeurIPS2020)



- 1. **Google (USA) — 128.0**
- 2. Stanford University (USA) — 67.0
- 3. MIT (USA) — 61.1
- 4. UC Berkeley (USA) — 52.4
- 5. Carnegie Mellon University (USA) — 47.3
- 6. **Microsoft (USA) — 42.9**
- 7. University of Oxford (UK) — 35.5
- 8. Tsinghua University (China) — 34.5
- 9. **Facebook (USA) — 31.4**
- 10. Princeton University (USA) — 28.0
- 11. ETH (Switzerland) — 26.6
- 12. New York University (USA) — 26.1
- 13. UT Austin (USA) — 25.7
- 14. Columbia University (USA) — 25.5
- 15. KAIST (South Korea) — 23.8
- 16. University of Illinois at Urbana-Champaign (USA) — 23.6
- 17. Cornell University (USA) — 23.0
- 18. EPFL (Switzerland) — 22.6
- 19. Harvard University (USA) — 22.3
- 20. University of Cambridge (UK) — 21.6
- ...
- 44. University of Tokyo (Japan) — 8.8

Company research are so strong even from an academic perspective.

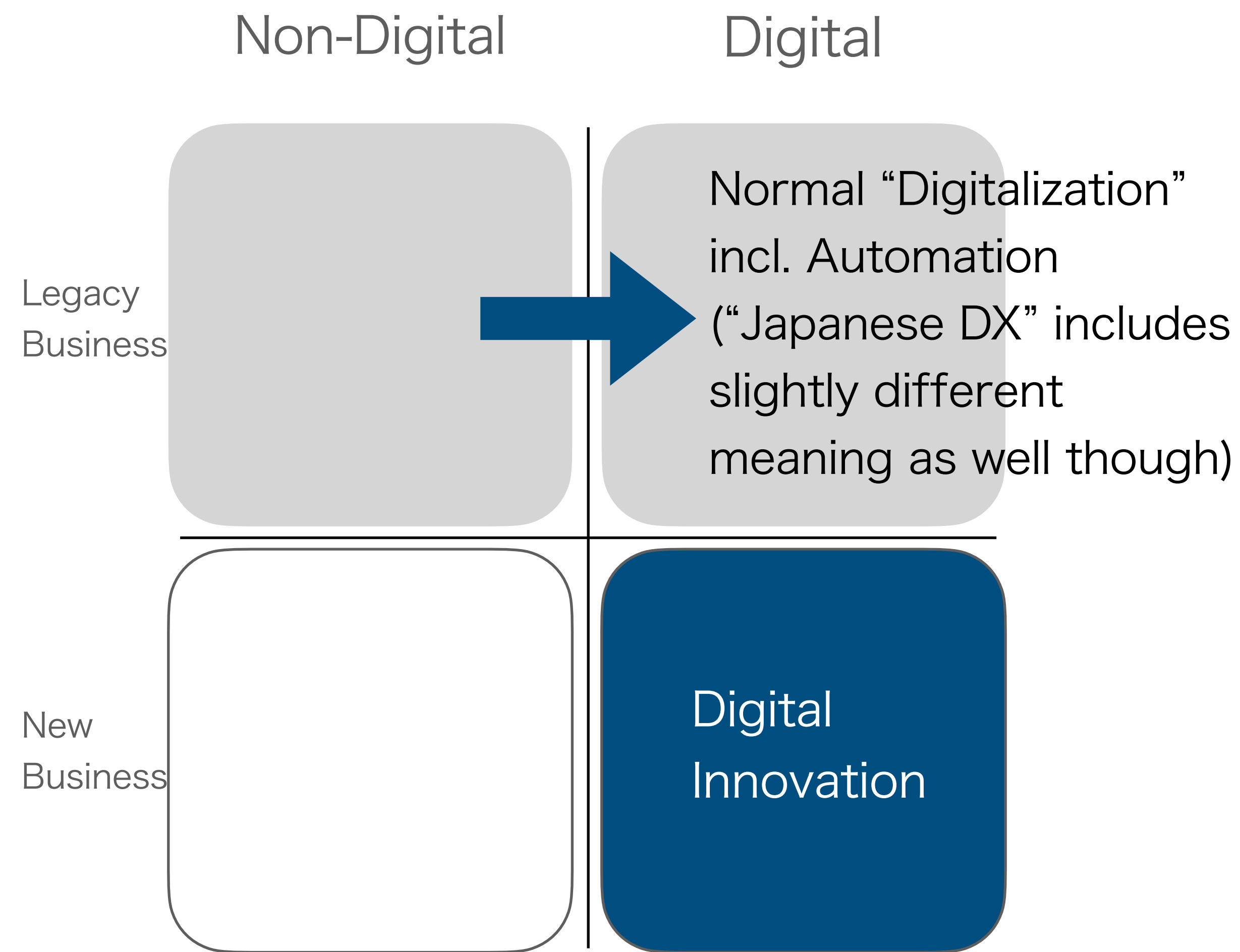
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Because of Data!

* The methodology of our Publication Index is inspired by the Nature Index

Source - <https://chuvpilo.medium.com/whos-ahead-in-ai-research-at-neurips-2020-bf2a40a54325>

Why data is so important? (academic)



Of course, when legacy business transformed in digital way, we can obtain new data, which we could not obtain in non-digital way.

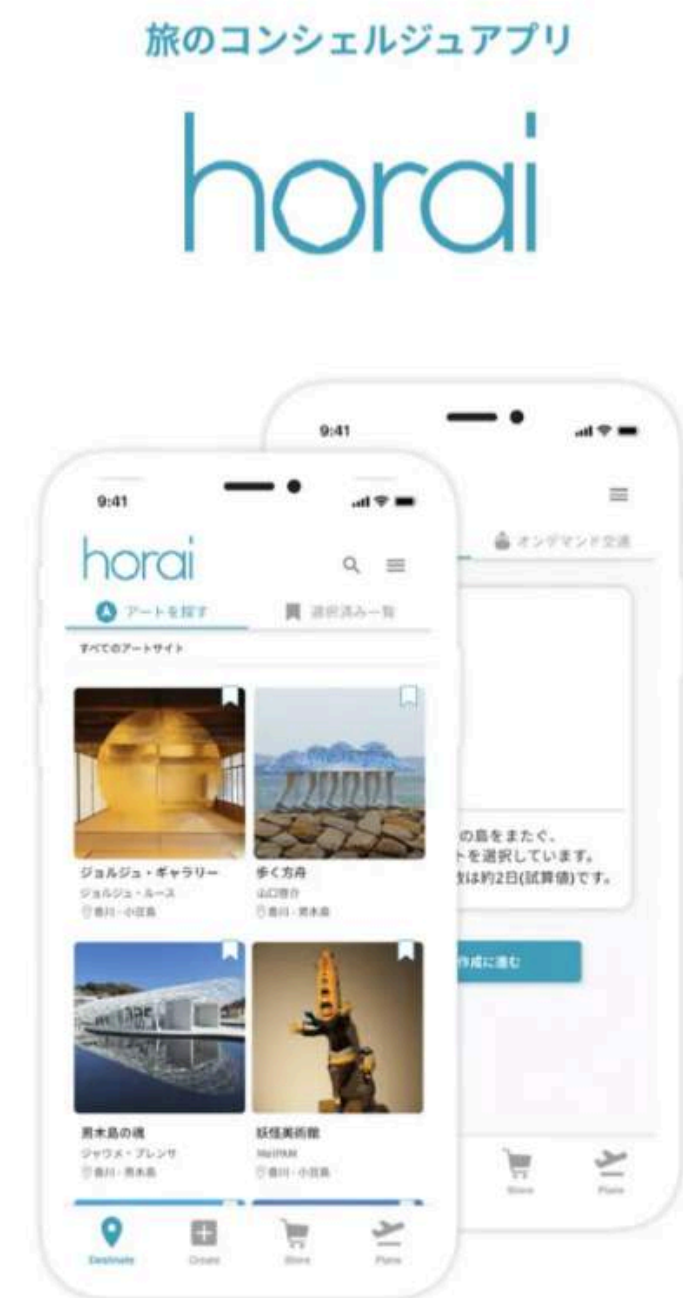
When digital innovation - new business making in digital way, we can obtain new data of new kind, which business nature itself is.

Also as academic perspective, digital innovation is important!

s c h e m e **verge**

the next generation urban developer without land acquisition

Our smart city startup - scheme verge Inc.



the next generation urban developer without land acquisition

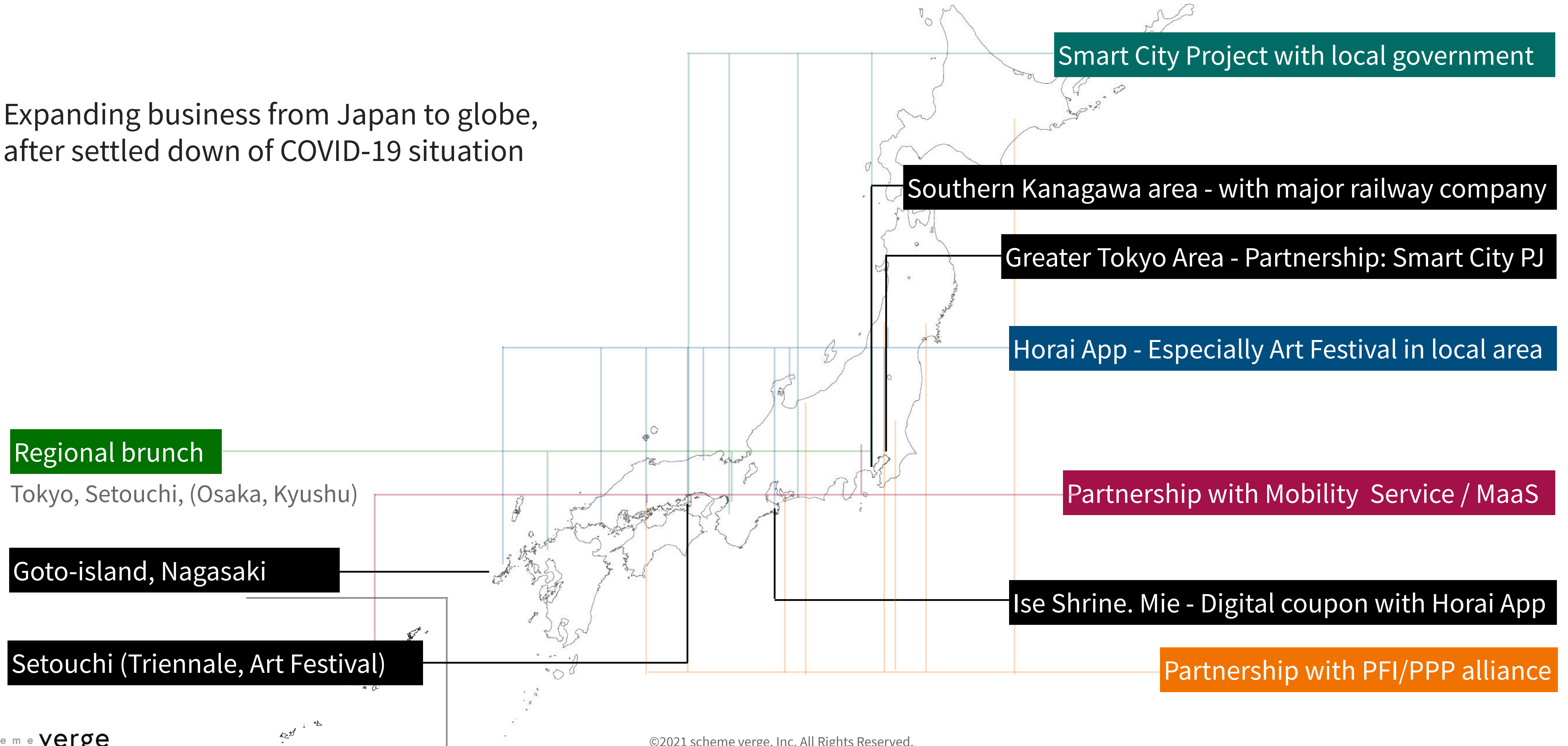
scheme **verge**

We provide demand-supply AI algorithm / optimization of sightseeing itinerary. Decentralized Leisure places produce based on data from visitors and local sightseeing business operators.



Expanding nationwide of Japan

Expanding business from Japan to globe,
after settled down of COVID-19 situation



Key issues of digital innovation, from society / public viewpoint

- **Policy difficulties - gray zone**
New business area has no rule yet, so always have to tackle gray zone.
- **Not patent war - Business model battle**
Data & data collection system cannot be protected by patent.
- **Need university eco-system of AI**
Knowledge and people themselves are key at both academic and business.

Let us discuss more later soon!
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Raising a global centre for deep learning

A university lab is transforming Hongo, Tokyo, into a hub for innovation in artificial intelligence

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松尾研究室
MATSUO LAB THE UNIVERSITY OF TOKYO

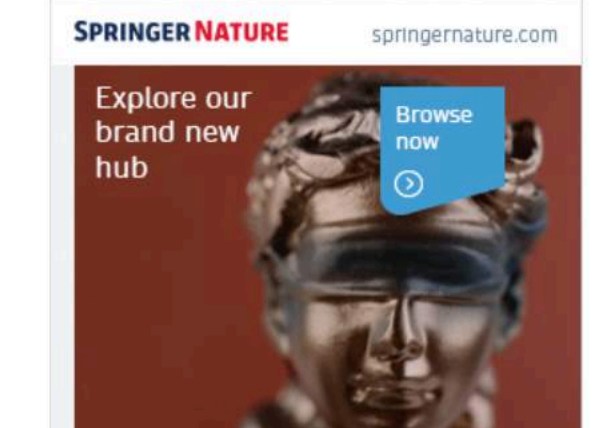


Yutaka Matsuo is excited about combining Japan's strength in manufacturing with AI. © Matsuo Lab, The University of Tokyo

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2020 Artificial Intelligence



Hongo, a neighbourhood in the centre of Tokyo and home to the University of Tokyo, is rapidly transforming into a global technology hub with strengths in artificial intelligence (AI) and deep learning. "This is Japan's answer to Silicon Valley and Shenzhen," says Yutaka Matsuo, a professor at the School of Engineering at the University of Tokyo, who heads the laboratory spearheading this initiative.

Japan's aspiring young AI entrepreneurs view Matsuo's lab as a gateway to success. This is due in part to its remarkable track record in incubating startups. It has fostered ten successful AI startups, two of which are listed on the Tokyo Stock Exchange. When all these startups are included, the lab's market value exceeds US\$2 billion. The lab also advises more than 30 companies