APU
RESEARCH
SEEDS

Categories: Management
Social Systems Engineering

Keywords: Innovation
Startups
Ecosystems
New Combinations
Management of Technology

Challenging Value Creation to Recover from Japan's "Lost 30 Years"

Scientifically elucidating innovation ecosystems and challenging to create new value through diversity and new combinations

For Japan to recover from the "lost 30 years" and contribute to the world, it is essential to generate new value through innovation. However, in today's society, it is difficult for an individual or a single organization to achieve this solely, and building "Innovation Ecosystems" that combine diverse organizations and talents is crucial. In this research, I study the success factors and mechanisms of innovation ecosystems, and conduct practical research in collaboration with industry, academia, and government to create value though innovation.

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"I continue research and its implementation to make the world a better place, to bring greater happiness to people, and to leave something for the future generations to be proud of."

Novelty / Originality

A scientific analysis of diversity and its combinations to elucidate the success factors of innovation ecosystems

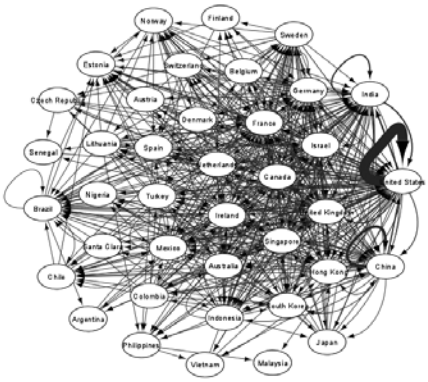
The originality of this research lies in the activity treating the innovation ecosystem as “a place for value creation driven by the networking of diverse stakeholders” and analyzing the success factors of the innovation ecosystems from multiple perspectives. In addition to qualitative analysis based on case studies, social network analysis, and statistical analysis, this research utilizes economic approaches such as game theory and mechanism design to elucidate the structure and dynamics of innovation ecosystems.

For example, our research on startup ecosystems visualizes and analyzes relationships between unicorn companies and venture capital firms (VCs), and it clarifies knowledge transfer across international and industry boundaries. In addition, our study on star researchers demonstrates the importance of interdisciplinary research by analyzing the interdisciplinarity and organizational mobility of researchers.

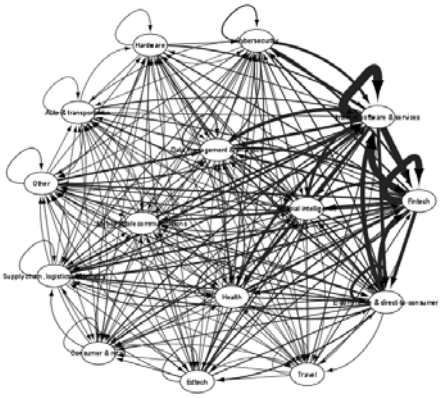
The key feature of this research is that it integrates macro and micro perspectives, combines qualitative and quantitative analyses, and goes beyond analysis to consider social systems and their mechanism design.

Startup ecosystem structures and comparative studies across international and industry boundaries

This research visualized the corporate value of unicorn companies and the performance of VCs. Network analysis of these relationships between them reveals that successful unicorn companies are concentrated in huge clusters. Furthermore, it demonstrates that startup knowledge is transferred internationally and across industries through VCs’ investments in unicorn companies.



[International diffusion of investment]



[Cross-industry diffusion of investment]

Efforts Towards Community Outreach

Building innovation ecosystems through industry-academia-government collaboration based on research findings

In this research, all activities are conducted in a practical manner pursuing social implementation to build bridges between academia and society and academia and industry.

In collaboration with local industry, I am creating communities to connect stakeholders from industry, academia, and government such as Oita Prefecture and the Kyushu Institute of Technology, to aim to form innovation ecosystems in industries such as semiconductors, space, and satellite. In collaboration with research institutions, I am conducting collaborative research with universities such as the University of Tokyo and Kyushu University, to deepen our mechanism design and network analysis methods and apply them to social implementation. As for education, I invite guest lecturers from industry to APU to provide students with opportunities for practical learning, and new idea generation together with local industries.

The unique nature of this research derives from my career having studied electrical engineering, artificial intelligence, business administration, and management of technology, as well as many years spent working across sectors as a businessperson at a general trading company. Using a unique approach that strongly promotes both theory building and practical activities, I aim to build a diverse network, contribute to value creation through innovation, and make an impact on the world.

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