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Graduate School of Economics, Kanazawa University(Master's Program)
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Professional Background

Assistant, Lecturer, Associate Professor at Komatsu College
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Consultations, Lectures, and Collaborative Research Themes

Regional Economy and Industrial Structure

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**Main research themes and their characteristics****[The Skyline Chart of Ishikawa Prefecture Based on Input-Output Table for 2005]**

In this paper production structure of Ishikawa prefecture is examined through skyline chart based on Input-Output (I-O) table for 2005. The production structure is mainly analyzed in view of trade with the other region. The I-O analysis is based on the I-O table and one of the representative approaches to estimate the economic effect. The skyline chart based on the I-O table shows the feature on trading in Ishikawa. Ishikawa is often called "1% of Japan" because the population, area and some economic indexes are one 100th of Japan.

The Ishikawa's industry has 7 features as follows. The 1st is that it has some industrial clusters of manufacturing companies such as textile and production machinery. The 2nd is that Ishikawa has so-called niche companies which develop the unique products. The 3rd is that it has many higher education institutions that supply the high-skilled workers. The 4th is that it has the national R&D institutions next to the universities. The 5th is that it has rich resources and attractions, for example food and traditional craft. The 6th is that it has the lower electricity cost and is at the low risk of earthquake according to a nongovernment organization. The 7th is that it is almost at the same distance from Tokyo, Osaka and Nagoya, three of the largest cities in Japan.

According to Ishikawa's I-O table for 2005, most sections are classified to two types. One is the Interregional Exchange type including manufacturing section. The other is the Region Self-support type including service section. The Ishikawa's skyline chart is generated with "Ray" Version2 developed by Kenjiro UDA. The chart shows that Ishikawa has major three sections for export and import with the other regions. The three are general machinery, textile product, and information & communication equipment. The two issues are left to be addressed. The first is to compare the Ishikawa's skyline chart with the other prefectures' ones. That give us the better understanding of the result. The second is to compare the skyline chart for 2005 with the ones for 2000 and 1995. That enables us to find out the change of production structure from 1995 to 2005 in Ishikawa.

Year	(billion yen)				(%)	
	Total regional demand (A)	Outflows and exports (B)	Inflows and imports (C)	Regional production (outputs) (D=A+B-C)	Internal balance (B-C)	Rate of Self-support (D/A × 100)
2005	8,658	2,972	3,308	8,222	-936	96.1
2000	8,596	2,907	3,182	8,221	-976	95.6
1995	8,168	2,643	2,548	8,263	95	101.2

Table1 The rates of self-support, inflows and imports in Ishikawa(2005, 2000, 1995)

Type	Classifying Standard on Rate	Number of Sectors
I Interregional Exchange	Outflows and exports over 50%, Inflows and imports over 50%	15
II Dependent on Outflow and Export	Outflows and exports over 50%, Inflows and imports under 50%	0
III Region Self-support	Outflows and exports under 50%, Inflows and imports under 50%	15
IV Dependent on Inflows and imports	Outflows and exports under 50%, Inflows and imports over 50%	4

Table2 The characteristics of sectors in interregional relations

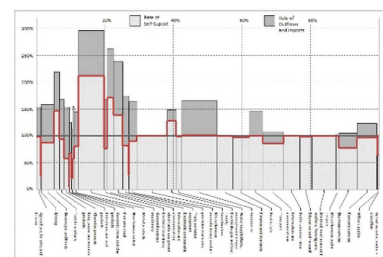


Fig.1 The skyline chart on I-O table(34 sectors) for 2005 in Ishikawa

Major academic publications

Hiroyuki Kaneko "The Skyline Chart of Ishikawa Prefecture Based on Input-Output Table for 2005", Bulletin of Komatsu College, No.22(2015)14-22.

Hiroyuki Kaneko "Input-Output Analysis of ICT Industry in Ishikawa Prefecture", Bulletin of Komatsu College Institute of Regional Creation, No.2(2012)18-34.

Hiroyuki Kaneko "4 Multiple Choice Question Program in Excel VBA for English Word Learn", Computer & Education, vol.33(2012) 84-85.