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研究課題名（和文）グローバル・バリューチェーンとTPPの経済効果への影響 - 国際間CGE分析

研究課題名（英文）Do Global Value Chains Enlarge the Economic Effects of the TPP? A Multi-country CGE Analysis

研究代表者

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研究成果の概要（和文）：本研究の目的は、TPPからの米国撤退のコストを推定すること、及びグローバル・バリューチェーン（GVC）を組み込んだ動的CGEモデルを構築・応用してCPTPPとRCEPの経済厚生と部門別生産量への影響を定量化し、従来の動的CGEモデルから推定される結果と比較することである。米国がTPP/CPTPPのメンバーにならない場合、2035年までに実質GDPで約2,000億ドル獲得する機会を失う。GVC構造をモデルに追加すると、CPTPP及びRCEPの下、多くの産業で生産量への影響を増大させる。一方、経済厚生への影響はGVC構造があるモデルとないモデルで大きな相違はないことが示された。

研究成果の学術的意義や社会的意義

近年、国際貿易の約半分はグローバル・バリューチェーン（GVC）を通じて行われ、製品が組み立てられて取引される前に、多くの部品がいくつかの国境を越えている。GVC構造を組み込んだ動的CGEモデルを構築することにより、TPP/CPTPPなどのメガFTAの影響をより正確に推定することができる。

研究成果の概要（英文）：The objectives of this research are twofold. First, we estimate the cost of U.S. withdrawal from the TPP. Second, we construct a dynamic CGE model that incorporates global value chains (GVCs), quantify the welfare and sectoral output effects of the the Comprehensive and Progressive Agreement for TPP (CPTPP) and the Regional Comprehensive Economic Partnership (RCEP), and compare the results with those obtained from a conventional dynamic CGE model. The results suggest that the United States would lose an opportunity to gain about \$200 billion in its real GDP by 2035 when it never becomes a member of the TPP/CPTPP. When the GVC structure is added to a dynamic CGE model, the magnitudes of changes in sectoral output under the CPTPP and RCEP are projected to become considerably greater in a number of industries. By contrast, the welfare effects are relatively similar between the models with and without the GVC structure.

研究分野：経済政策

キーワード：グローバル・バリューチェーン GVC TPP CPTPP RCEP CGEモデル

## 1. 研究開始当初の背景

In recent years we have witnessed increasing prominence of trade in intermediate goods and services. The fragmentation of global value chains (GVCs) has been motivated by sourcing intermediate inputs from more cost-efficient producers in order to enhance efficiency. In order to estimate welfare and sectoral effects of a mega-regional trade agreements (MRTAs) such as the Trans-Pacific Partnership (TPP), it is necessary to construct a global dynamic computable general equilibrium (CGE) model that incorporates the GVC structure.

After more than five years of ministerial and official meetings, 12 countries negotiating for the TPP reached final agreement in October 2015. However, in January 2017 the United States withdrew from the TPP. In March 2018, the eleven remaining countries signed the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP). In addition, negotiations for the Regional Comprehensive Economic Partnership (RCEP) among 16 countries were speculated to accelerate.

## 2. 研究の目的

The main objectives of this project are as follows.

- (1) We estimate economic effects of alternative sequencings of MRTAs for the Asia-Pacific countries and to evaluate the extent of losses to the United States from its withdrawal from the TPP using a dynamic computable general equilibrium (CGE) model. We offer two plausible sequencings of MRTAs in the Asia-Pacific. The first is the implementation of the 16-member RCEP, followed by RCEP + Taiwan and a Free Trade Area of the Asia-Pacific (FTAAP). The second is the realization of 11-member CPTPP, followed by an enlarged CPTPP and an FTAAP. In addition, a hypothetical scenario in which the implementation of the TPP including the United States as a member is considered for a comparison.
- (2) We estimate the welfare and sectoral output effects of the CPTPP and RCEP using a dynamic CGE model that incorporates the GVC structure, and to compare the results with those obtained from a conventional dynamic CGE model.

## 3. 研究の方法

The methodology used in this project is a dynamic CGE model, which is an empirical tool well suited to evaluating policies that have regional and sectoral ramifications in the long run. First, it captures extensive indirect effects, such as inter-industry linkages between sectors and trade linkages between countries. Second, it can evaluate the effects of removing trade barriers on resource allocation and structural adjustments over time. Third, it can detail the impacts on both member and nonmember countries and thereby better elucidate implications for the negotiating environment. Thus, a dynamic CGE model is an ideal tool to examine long-term benefits and costs of alternative policy scenarios.

We constructed (1) a conventional dynamic CGE model and (2) a dynamic CGE model that incorporates the GVC structure. The data used for (1) included Version 9 of the GDyn Data Base, the International Monetary Fund (IMF)'s *World Economic Outlook Database*, and the United Nations' *World Population Prospects*. We added the OECD's inter-country input-output (ICIO) tables to construct (2). We modified the import demand in the dynamic GTAP model to reflect the GVC structure in which producers and consumers determine demands for domestically produced goods and imports by trading partners.

Next, we designed the following three policy scenarios:

- ① Scenario 1 (Asian track): RCEP over the period 2019-2028, RCEP + Taiwan from 2024-2033 and FTAAP from 2028-2035.
- ② Scenario 2 (Trans-Pacific track): CPTPP (TPP-11) from 2019-2028, TPP-16 from 2024-2033, and FTAAP from 2028-2035.
- ③ Scenario 3 (TPP + US): Same as Scenario 2, except that the United States is hypothetically assumed to reverse its decision to withdraw from the TPP.

*Note:* TPP-11: Eleven CPTPP member countries. TPP-16: TPP-11 plus Indonesia, Korea, the Philippines, Thailand and the United States.

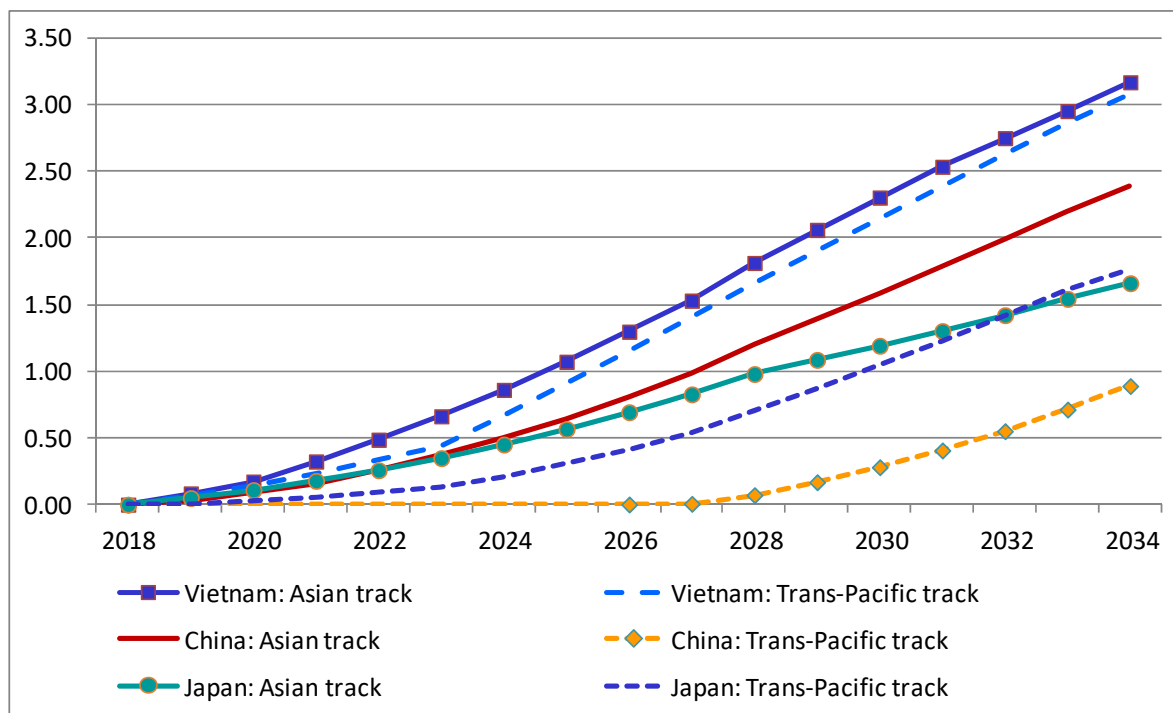
## 4. 研究成果

(1) We first constructed a 23-region, 29-sector dynamic CGE model without the GVC structure and conducted policy experiments. The results can be summarized as follows:

- ① For countries that are members of both the RCEP and CPTPP, the welfare gains under Scenario 1

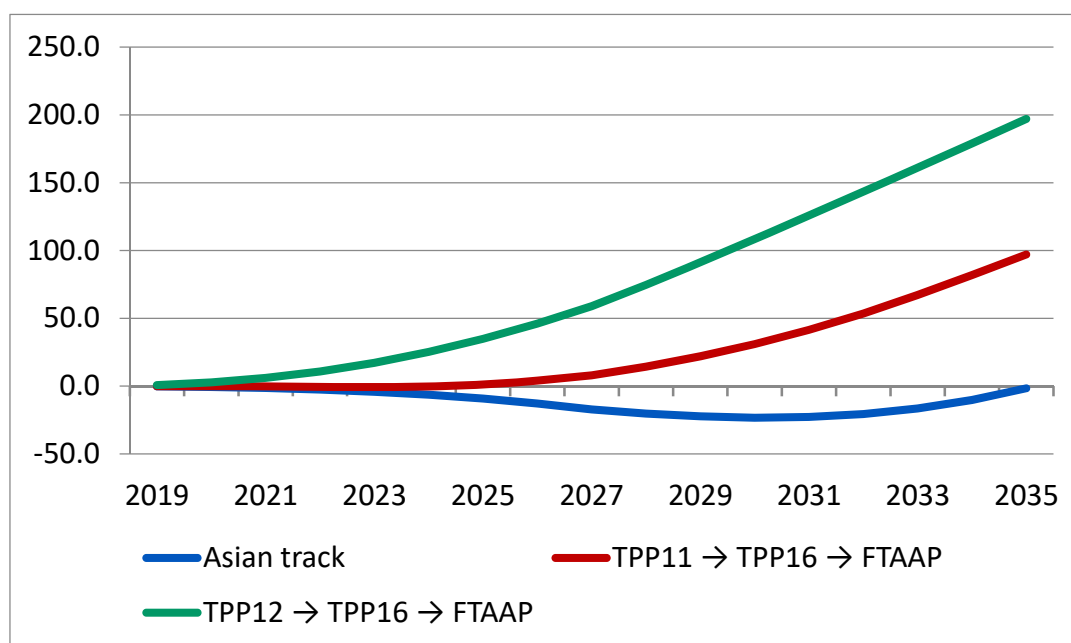
(Asian track) and those under Scenario 2 (Trans-Pacific track) are relatively similar. Figure 1 shows welfare changes under the Asian track and Trans-Pacific track for Japan, China and Vietnam, expressed in percentage changes relative to real income. As shown in the figure, welfare gains in Japan and Vietnam are slightly higher under the Asian track than under the Trans-Pacific track until around 2030, but the difference becomes negligible by 2032. By contrast, China's welfare gains are significantly larger under the Asian track because it is not a member of the CPTPP.

Figure 1. Welfare changes under the Asian track and Trans-Pacific track for selected countries (percent changes relative to real income)



②Scenario 3 is included to compare the real GDP effects of the TPP with and without U.S. participation at the start of the TPP. As indicated in Figure 2, the United States loses an opportunity to gain \$200 billion in its real GDP by 2035 when it never becomes a member of the TPP/CPTPP, and its real GDP gain will be reduced by \$100 billion when its participation in the TPP is delayed by five years.

Figure 2. Real GDP changes in the United States under alternative scenarios (Absolute changes from the baseline, US\$ billion in 2011 prices)



(2) We then constructed 17-region, 14-sector dynamic CGE models with and without the GVC structure and compared the results between the two models. The main results can be summarized as follows:

①The incorporation of the GVC structure affects the welfare results only modestly, and whether it increases or decreases economic welfare varies across countries/regions. For example, for the year 2035, estimated welfare gains using the model with the GVC structure are slightly larger than those using the standard dynamic CGE model in Singapore, Brunei, Thailand and Australia, but the opposite relation holds in Japan, Malaysia and Vietnam.

②With the GVC structure in which a producer or a consumer decides how much to allocate intermediate/final products between domestic and imported products and where to source them simultaneously, the absolute values of sectoral output changes become greater in a large number of sectors. For example, the percent increases in output of motor vehicles in Japan, output of petroleum and chemical products in Singapore, and output of machinery and electronic equipment in Vietnam become considerably larger (Table 1, panel B). Although not shown in the table, the percent reductions in output of textiles and apparel in the CPTPP members in the Western Hemisphere (Canada, Mexico, Chile and Peru) become significantly greater.

Table 1: Sectoral output adjustments for selected countries in 2035 under the CPTPP and RCEP scenarios (percent changes relative to the baseline)

| A. Standard dynamic CGE model |       |       |           |      |         |      |
|-------------------------------|-------|-------|-----------|------|---------|------|
| Sector                        | Japan |       | Singapore |      | Vietnam |      |
|                               | CPTPP | RCEP  | CPTPP     | RCEP | CPTPP   | RCEP |
| Agric, forestry and fishing   | -1.0  | -0.7  | 0.7       | 0.5  | 0.0     | 0.7  |
| Mining                        | 1.0   | 0.8   | 1.1       | 0.9  | 0.8     | 0.8  |
| Food products                 | -3.7  | -0.6  | 11.7      | 13.9 | -1.0    | 1.7  |
| Textiles and apparel          | -0.1  | -13.3 | 5.9       | -5.3 | 50.0    | 11.5 |
| Petro and chemical prod       | 5.3   | 5.9   | 14.2      | 13.3 | -1.5    | -1.0 |
| Metals                        | 2.5   | 5.4   | 4.8       | 6.8  | -0.5    | 10.6 |
| Machinery                     | 2.1   | -1.1  | 5.4       | -1.5 | 5.7     | 14.6 |
| Electronic equipment          | -3.5  | -5.7  | 1.7       | -2.4 | 5.2     | 18.9 |
| Motor Vehicles                | 4.7   | 5.0   | 5.1       | 1.8  | -8.7    | -3.0 |
| Other transport equipment     | -0.8  | -7.5  | -4.3      | -8.6 | 1.1     | -2.6 |
| Other manufactures            | 0.5   | -0.6  | 1.5       | -1.4 | 1.1     | -1.8 |
| Construction and utilities    | 3.2   | 3.2   | 5.4       | 5.6  | 13.5    | 8.8  |
| Trade and transport           | 0.5   | 0.6   | 0.8       | 3.0  | 4.8     | 4.1  |
| Other services                | 0.6   | 0.6   | 0.7       | 1.8  | -0.4    | 1.0  |

| B. Modified dynamic CGE model with GVC structure |       |       |           |      |         |      |
|--|-------|-------|-----------|------|---------|------|
| Sector   | Japan |       | Singapore |      | Vietnam |      |
|  | CPTPP | RCEP  | CPTPP     | RCEP | CPTPP   | RCEP |
| Agric, forestry and fishing                      | -1.9  | -2.3  | 1.1       | 0.8  | 0.5     | 1.1  |
| Mining   | 1.0   | 0.8   | 1.2       | 1.0  | 1.1     | 1.3  |
| Food products                                    | -3.7  | -2.8  | 12.7      | 10.5 | 1.2     | 3.3  |
| Textiles and apparel                             | 1.7   | -24.5 | 13.8      | 1.1  | 60.7    | 14.3 |
| Petro and chemical prod                          | 4.6   | 4.3   | 11.4      | 10.5 | 0.4     | 0.1  |
| Metals   | 3.9   | 4.8   | 11.6      | 9.7  | 5.0     | 12.6 |
| Machinery  | 5.4   | 1.5   | 11.4      | 5.0  | 8.5     | 14.1 |
| Electronic equipment                             | 0.8   | -2.4  | 11.4      | 5.4  | 14.0    | 24.8 |
| Motor Vehicles                                   | 6.1   | 6.6   | 6.7       | 3.4  | 4.6     | 12.1 |
| Other transport equipment                        | 3.7   | -1.9  | 7.5       | -0.3 | 1.6     | 5.3  |
| Other manufactures                               | 1.9   | 0.8   | 9.5       | 5.2  | 1.9     | 0.6  |
| Construction and utilities                       | 4.2   | 5.4   | 3.0       | 5.1  | 5.2     | 5.2  |
| Trade and transport                              | -0.2  | 0.2   | -1.5      | -0.7 | 1.8     | 3.1  |
| Other services                                   | 0.8   | 1.0   | 1.5       | 2.3  | -1.8    | 0.7  |

## 5. 主な発表論文等

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〔産業財産権〕

〔その他〕

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