

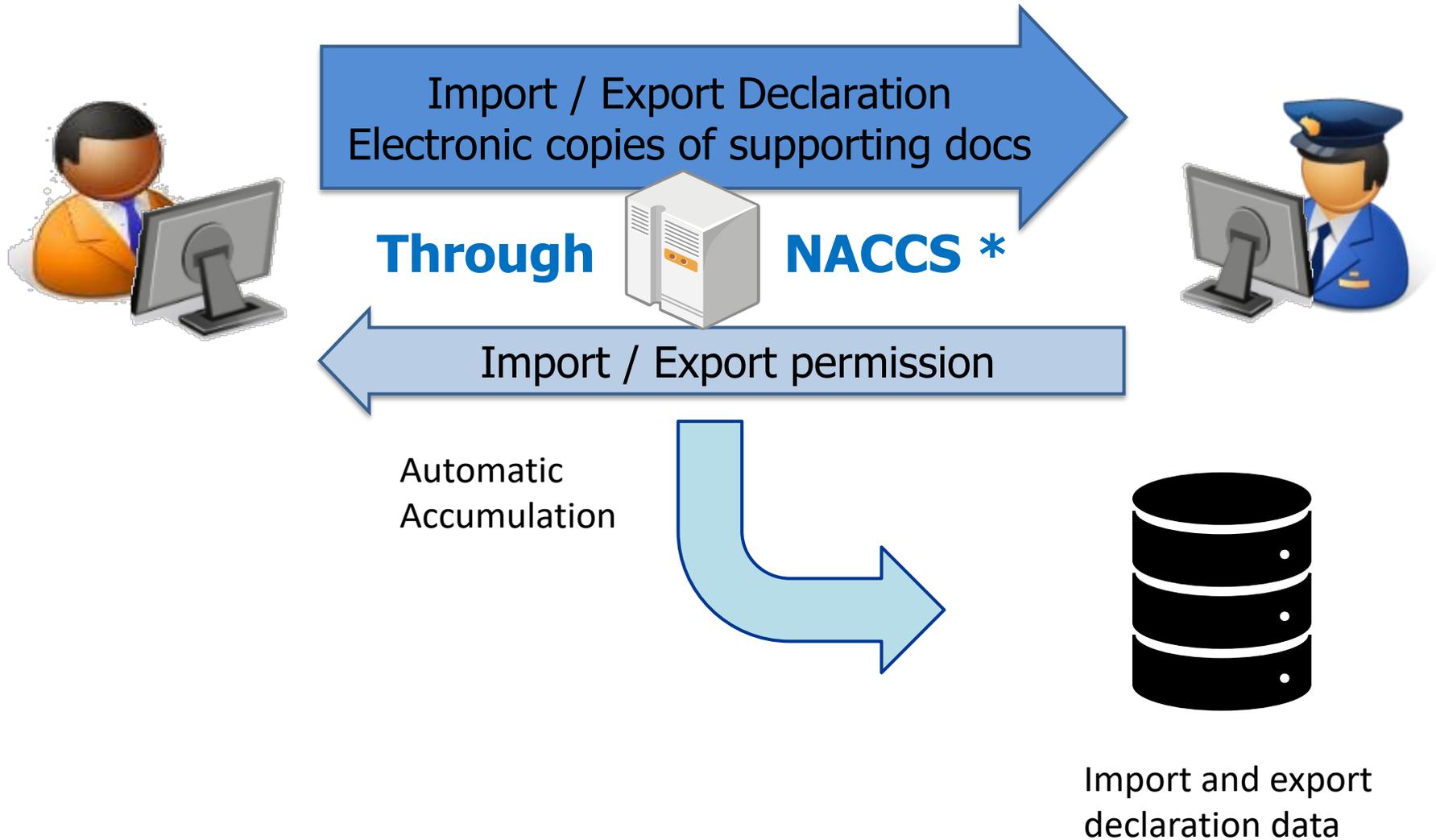


# Experiences on Accumulation and Utilization of Data in Japan Customs

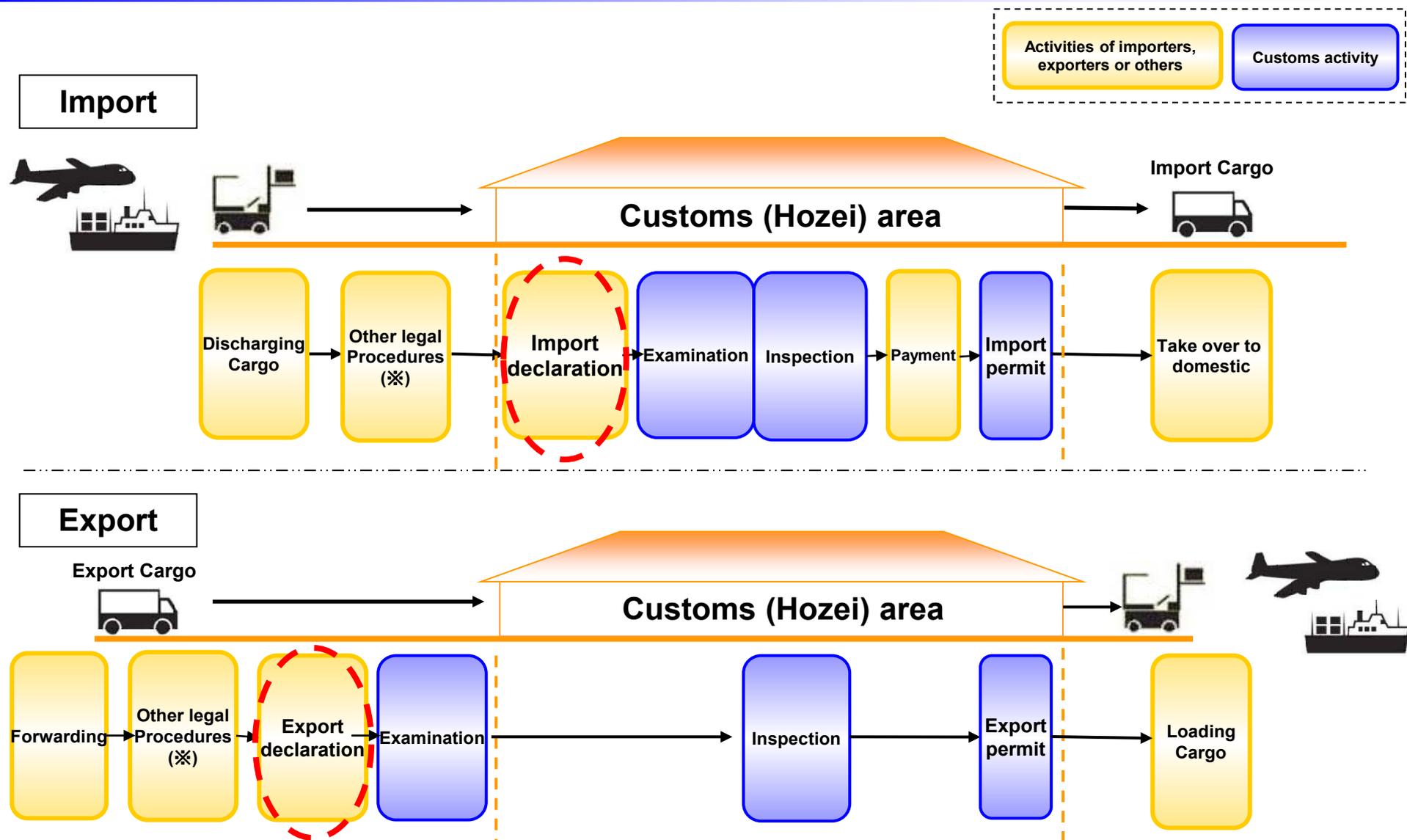
16-17 April 2024

WTO Trade Facilitation Committee

# 1. Data Accumulation through Single Window



## 2. About Customs Declaration Data in Japan



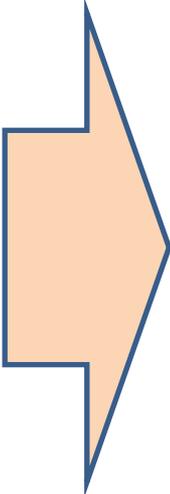
※Other legal procedures : Some goods to be exported require permits or approvals according to the laws and regulations other than the Customs Law such as Food Sanitation Law , Plant Quarantine Law, and so on.

# 2. About Customs Declaration Data in Japan

## ✓ Import Declaration Form

The form is titled "輸入(納税)申告書" (Import Declaration Form). It includes sections for:
 

- Declarant information (輸入者): Name, address, and company details.
- Sender of goods information (発着者): Name, address, and company details.
- Goods details (品名): Multiple rows for item name, quantity, unit, and value.
- Tax and duty information (税関): Fields for duty amount, tax amount, and total value.
- Declaration date and time (申告年月日).
- Signature and stamp (署名) of the declarant.



|  |
|--|
| Declaration number                               |
| Corporate number                                 |
| Address of the declarant in English              |
| Name of the declarant                            |
| Address of the declarant                         |
| Name of the sender of goods                      |
| Address of the sender of goods                   |
| Name of the customs office (declaration)         |
| Name of the customs office (goods are stored)    |
| Name of the port (airport) of entry of the goods |
| Name of the country of entry of the goods        |
| Date of declaration                              |
| Data of permission                               |
| Price on invoice                                 |
| Currency code                                    |
| Freight charges                                  |
| Insurance  |
| Customs value                                    |
| Amount of duty                                   |
| Amount of goods                                  |
| ...etc   |

⇒ Each declaration is stored in the Customs database.

## 2. About Customs Declaration Data in Japan

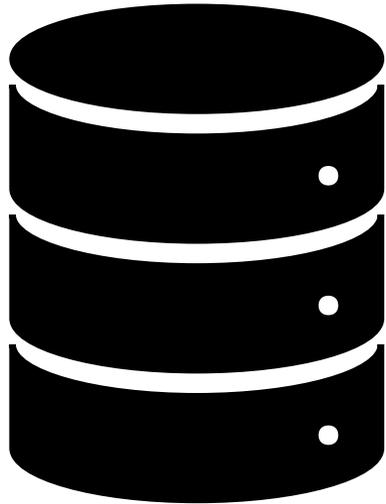
- ✓ It is a data file of information on import/export declarations made to customs on a daily basis, including information on importers and exporters, trading partners, cargo prices and product names, etc., for each import/export declaration.

### Image of import declaration data

| Import declaration # | Import declaration date | Name of Shipper             | Importer number    | Name of importer     | HS code    | Price on Invoice | Currency code | freight | Taxation base(value) | Customs duty | Taxation base(amount) | Unit |
|----------------------|-------------------------|-----------------------------|--------------------|----------------------|------------|------------------|---------------|---------|----------------------|--------------|-----------------------|------|
| 12345678900          | 2014/01/01              | SOY SAUCE INTERNATIONAL LTD | 1234567890123-9000 | ZAIMUSOKEN CO., LTD  | 2103100005 | 200,000          | JPY           | 50,000  | 250,000              | 18,000       | 2,000                 | KG   |
| 23456789010          | 2016/05/15              | KAWARA S.A.                 | 2345678901234-0000 | KANZEIKYOKU CO., LTD | 6905100005 | 2,000            | USD           | 500     | 273,750              | 5,475        |                       | 5MT  |
| 34567890120          | 2020/12/31              | BALL LLP                    | 3456789012345-0000 | SMARTZEIKAN LLC      | 9506320003 | 2,000            | EUR           | 500     | 324,550              | 0            | 2,500                 | NO   |

(※) This is fictional data. No entity in this table exists.

### 3. How to Utilize the data



Import and export  
declaration data

Single Window (including Customs declaration system) not only facilitate customs procedures, but also brought data as one of the byproduct.



Data has potential for effective use such as:

- ✓ Machine learning (AI and other advanced technologies) to pursue customs mission (such as selection)
- ✓ Statistical studies for academic findings

### 3. Utilization for customs operations (selection)

#### Big Data Analysis Overview

- Analysis of huge amounts of data (big data) such as import declarations accumulated by Japan Customs
- Considering its application in the examination and inspection selection process and the selection of sites for post clearance audit



### 3. Statistical studies using academic findings

- ✓ The JP government committed to utilize government possessing data (6.18.2021)
- ✓ The MOF started to use import and export declaration data for academic research which is useful for policy making, **under strict confidentiality obligation and rules.**
- ✓ The Policy Research Institute (PRI)\* has started research by using those data provided from the Customs since 2022.

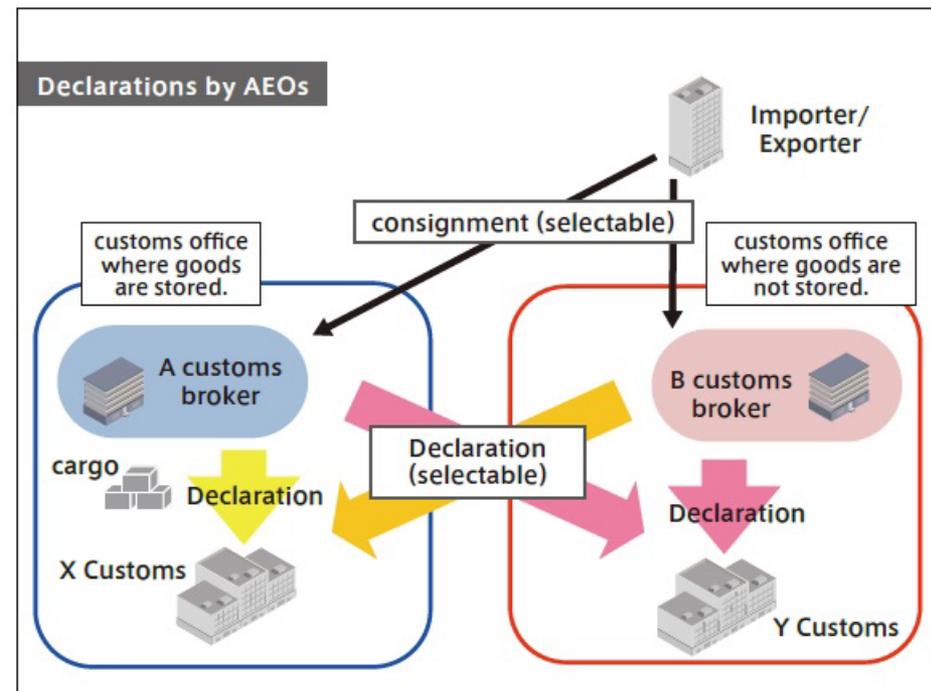
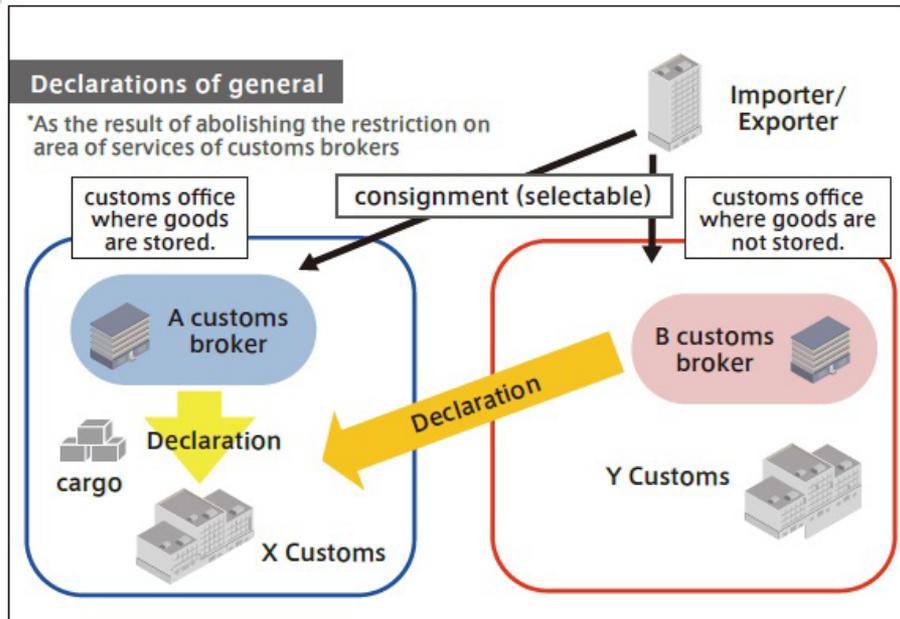


\* The Policy Research Institute, originally the Institute of Fiscal and Monetary Policy (established in May 1985), is an organization to be inaugurated by the Ministry of Finance in July 2000. Its purpose is to conduct comprehensive surveys and studies with a greater policy-oriented focus, amid the big socio-economic changes underway in Japan, such as the globalization and liberalization of the economy in recent years and the rapid advancement of the falling birthrate and the aging of the population.

### 3. policy effectiveness research of trade facilitation measures

## Research for “Broadening the choice of customs office for import/export declaration” (Research Paper)

- From October 2017, AEO importers, exporters and customs brokers can also declare their goods to customs offices other than the place where the goods are stored.

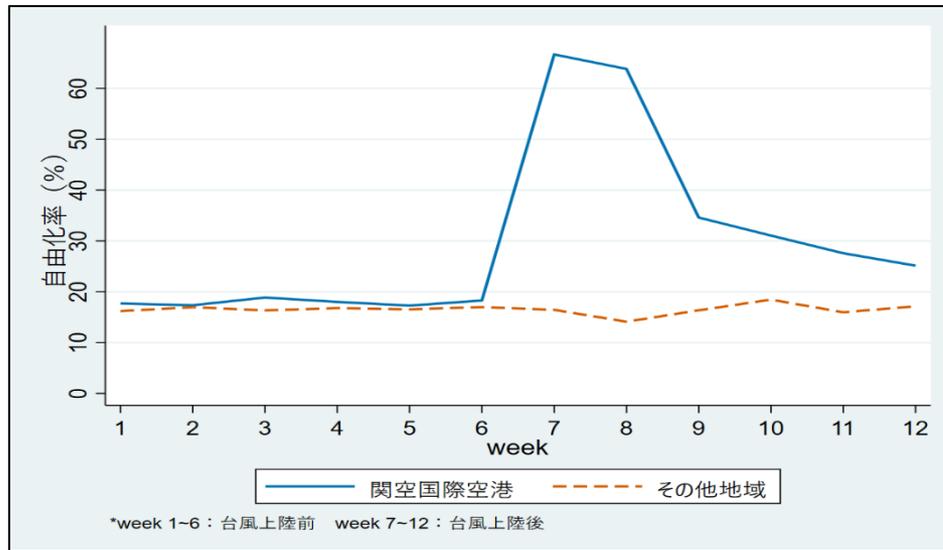


### 3. policy effectiveness research of trade facilitation measures

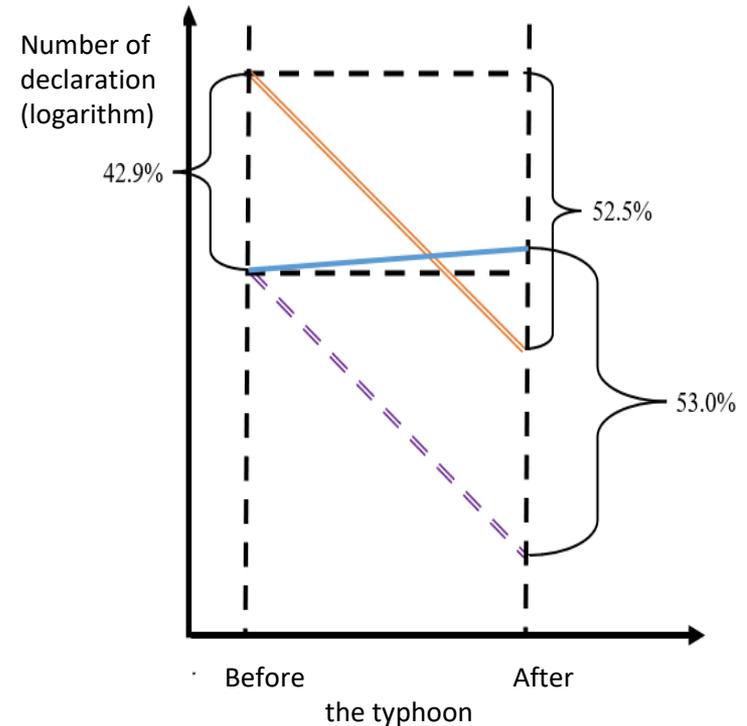
## Research for “Broadening the choice of customs office for import/export declaration” (Research Paper)

- The hypothesis that this system helps imports to continue their business in the event of a typhoon disaster is tested.

- Group of importers who filed liberalization declarations
- Group of importers who have not declared liberalization



- Kansai International Airport
  - Other areas
- Week 1-6 Before the typhoon  
Week 7-12 After the typhoon



### 3. Utilize the knowledge of outside experts

- 1st Joint study (spring 2022~)

| Theme  | Member   | Research Outcomes  |
|--|--|--|
| A Study on the Actual Situation of Japan's Trade and the Influence of Trade Policy Based on Import/Export Declaration Data   | Naoto Jinji<br>Kyoto University<br>-5 others       | <ul style="list-style-type: none"> <li>• An Empirical Investigation on International Trade Using Japan's Customs Data (2023/9)</li> </ul>  |
| An Analysis of the Determinants of Quotation Currency Choice, Exchange Rate Pass-through, and Trade Volume for Japanese Firms: Does the Expansion of Intra-Firm Trade Change the Impact of Exchange Rate Fluctuations? | Junko Shimizu<br>Gakushuin University<br>-4 others | <ul style="list-style-type: none"> <li>• Invoice Currency Choice of Japanese Companies—What Can Be Learned from the Share of Invoice Currency by Country Based on Customs Micro Data— (2022/12)</li> <li>• Invoice Currency Choice in Intra-Firm Trade: A Transaction-Level Analysis of Japanese Automobile Exports (2023年9月)</li> </ul> |

\*The English names of the research themes are tentative translations of the Japanese names and are not the official names.

### 3. Utilize the knowledge of outside experts

- 2nd Joint study (spring 2023~)

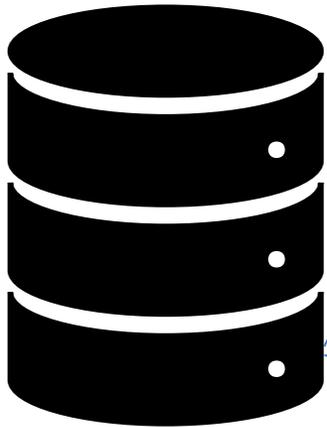
| Theme  | Member  |
|--|---|
| Research on Tax Evasion and Avoidance Using Import/Export Declaration Data   | Masayoshi Hayashi<br>The University of Tokyo<br>-3 others |
| Firm Productivity and Competitiveness and International Networks: An Empirical Analysis Joining Customs Data and Firm Data | Kyoji Fukao<br>Hitotsubashi University<br>-5 others       |

- 3rd Joint study (spring 2024~)

| Theme  | Member  |
|--|---|
| Innovation, Globalization and Employment - From the Perspective of Inter-firm Networks   | Yukiko Saito<br>Waseda University<br>-2 others          |
| Restructuring of business-to-business trade relationships through Free Trade Agreements and Economic Partnership Agreements (EPAs)   | Yoichi Sugita<br>Keio University<br>-4 others           |
| Natural Disasters, Human Injury, and Supply Chain Resilience in Japan, Asia, and the Global Economy: An Empirical Study Joining Import/Export Declaration Data and Firm Data for Japan and Other Countries | Yasuyuki Sawada<br>The University of Tokyo<br>-4 others |

\*The English names of the research themes are tentative translations of the Japanese names and are not the official names.

## 4. Points to keep in mind when using Data



Import and export  
declaration data

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| Import declaration # | Import declaration date | Name of Shipper             | Importer number    | Name of importer     | HS code    | Price on Invoice | Currency code | freight | Taxation base(value) | Customs duty | Taxation base(amount) | Unit |
|----------------------|-------------------------|-----------------------------|--------------------|----------------------|------------|------------------|---------------|---------|----------------------|--------------|-----------------------|------|
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| 3456789012090        | 2020/12/31              | BALL LLP                    | 3456789012345-0000 | SMARTZEIKAN LLC      | 9506320003 | 2,000            | EUR           | 500     | 324,550              | 0            | 2,500                 | NO   |

Utilizing Data includes:

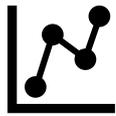
- ✓ trade related companies (individuals) personal information
- ✓ confidential information (such as unit price)
- ✓ Processing data needs Statistical Technic

## 4. Points to keep in mind when using Data

### ☑ Restriction on Purpose of Use



Limited to administrative purposes of the MOF



Limited to statistical research purposes

Unavailable for analysis to identify the individual importers / exporters

### ☑ Personal Data Protection



Imposed confidentiality obligations as governmental officers

Data is available only on stand-alone PC at restricted area of the MOF



Reviewed and examined by the MOF before its publication

### ☑ Securing human resources specialized in data analysis



Recruiting of Ph.D. holders

Training program to develop expertise in the field of data science, etc.

# 5. Conclusion

From our experiences...



## Tips

- ✓ Customs clearance through System  
Not only efficiency, but also systematic data accumulation
- ✓ Appropriate use of data  
Confidentiality obligation, Guidelines on handling the data
- ✓ Develop expertise to utilize and analyze data  
Knowledge of data science and customs administration

**➔ Valuable for Members considering introduction  
or renewal of customs clearance systems**

*Japan will accelerate action to promote trade digitalization.*



Thank you for your kind attention