

Indicator 9.1.2

Indicator Name, Target and Goal

Indicator 9.1.2 Passenger and freight volumes, by mode of transport

Target 9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

Goal 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Definition and Rationale

○Definition

This indicator is defined as the sum of the passenger and freight volumes reported by coastal, rail, air and road transportation carriers and the volumes aggregated/estimated by their transportation distances. These are reported as separate series for each mode of transport and for passenger and freight volume.

○Concepts

"Passenger Volume (passenger-kilometres)" represents those of multiplying passenger volume by their transportation distance.

"Freight Volume (tonne-kilometres)" represents those of multiplying freight volume by their transportation distance.

○Rationale and Interpretation

As for passenger and freight volumes, by mode of transport, "Coastal Transportation Statistical Survey", "Rail Transportation Statistical Survey", "Air Transportation Statistical Survey" and "Road Transportation Statistical Survey", which are conducted for the purpose of clarifying the actual situation, etc. of passenger and freight transportation in the traffic-related sector, are the most suitable for measurement of the targets.

Data Source and Collection Method

"Coastal Transportation Statistical Survey", "Rail Transportation Statistical Survey", "Air Transportation Statistical Survey" and "Road Transportation Statistical Survey" by the Ministry of Land, Infrastructure and Transport (MLIT)

Method of Computation and Other Methodological Considerations

○Computation Method

This indicator consists of the following six components. Each component is the sum of the transportation volume by fiscal year in Japan.

- (1) Freight volume (tonne-kilometres), by coastal transportation
- (2) Passenger volume (passenger-kilometres), by rail transportation
- (3) Freight volume (tonne-kilometres), by rail transportation
- (4) Passenger volume (passenger-kilometres), by air transportation
- (5) Freight volume (tonne-kilometres), by air transportation
- (6) Freight volume (tonne-kilometres), by road transportation

The above indicators directly refer to the results derived from "Coastal Transportation Statistical Survey", "Rail Transportation Statistical Survey", "Air Transportation Statistical Survey" and "Road Transportation Statistical Survey".

The detailed survey and estimation methods can be found in the outlines of each survey disseminated on the website of the Ministry of Land, Infrastructure and Transport (MLIT).

"Coastal Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/naikouyusoutoukei.html>

"Rail Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/tetudouyusou.html>

"Air Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/koukuuyusoutoukei.html>

"Road Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/jidousya.html>

○Comments and Limitations

"Coastal Transportation Statistical Survey"

This survey covers the freight volume operated by the coastal transportation carriers whose vessels' gross tonnage are over twenty tonnes for commercial use, and vessels' gross tonnage are over one-hundred tonnes or vessels' length are over thirty meters for private use. Therefore, this survey does not cover all the freight volume.

"Air Transportation Statistical Survey"

This survey covers the passenger and freight volumes of domestic and international flights operated by Japanese airline carriers. Therefore, this survey does not cover all the passenger and freight volumes including those operated by overseas airline carriers.

"Road Transportation Statistical Survey"

This survey covers the freight volume operated by commercial and private use vehicles (excluding light vehicles). Therefore, this survey does not cover all the freight volume operated by all types of vehicles.

Data Disaggregation

Kindly please refer to the outlines of each survey disseminated on the website of the Ministry of Land, Infrastructure and Transport (MLIT), because data disaggregation (disaggregation dimension) differs according to statistics.

"Coastal Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/naikouyusoutoukei.html>

"Rail Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/tetudouyusou.html>

"Air Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/koukuuyusoutoukei.html>

"Road Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/jidousya.html>

References

"Coastal Transportation Statistical Survey"

http://www.mlit.go.jp/k-toukei/coastwise_vessel.html

"Rail Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/railway.html>

"Air Transportation Statistical Survey"

<http://www.mlit.go.jp/k-toukei/air.html>

"Road Transportation Statistical Survey"

http://www.mlit.go.jp/k-toukei/motor_vehicle.html

Custodian Ministries of Data

The Ministry of Land, Infrastructure and Transport

Custodian Ministries of Related Policies

International Organizations

International Civil Aviation Organization (ICAO)

International Transport Forum (ITF-OECD)