Liberalisation of the rail market
Challenges in data collection.

Overview

– Statistics
– Rail transport companies (freight and passengers)
– Passengers: concessions
– Dynamics (freight)
– Data collection
– Confidentiality
Statistics

Dutch Situation: in 2016
Freight transport
42.1 million tonnes transported
plus 50% since 2000

Passenger transport
– 6 passenger undertakings (2017):
  Railways claim to transport 1.2 million passengers per day

Infrastructure
– 3000 km railways

Rail companies active in freight transport in NL

Source: ProRail, May 2017
Rail companies active in passenger transport in NL

Main Company: NS
Main Network:
NS Reizigers: domestic transport on MAIN LINES: 1.000.000 passengers per working day

International:
NS Internationaal: exploits services of Thalys, ICE International, Eurostar and TGV.

Abellio (subsidiary of NS) provides bus and rail transport services in Great Britain and Germany (Abellio Rail NRW)

Regional:
Arriva, Connexxion, Syntus

Cross-border:
DB Regio (incl. Prignitzer Eisenbahn GmbH); Keolis

Concessions of NS (and Abellio) in Europa
Dynamics in freight transport

NS changed to DB Cargo in several steps from monopolist to one of many
Market share: 60%

Number of companies active in NL

freight transport  passenger transport
Data collection (1)

A. **DB Cargo** and **ERS Railways**: detailed information

Other companies: no direct data collection

data from:

B. **ProRail**: infrastructure manager, responsible for:
   - maintenance and extensions of the national railway network infrastructure
   - allocating rail capacity
   - traffic control
   -> each (freight) train: weight; distance and OD

C. Train spotters: composition of the train, commodity type

Data collection (2)

Small enterprises data from ProRail:
- Full trainloads (bulk)
- from schedules: mostly same OD pair

\[
\text{Cargo Weight} = \text{WEIGHT LOADED TRAIN} \text{ from A to B} - \text{WEIGHT EMPTY TRAIN} \text{ from B to A}
\]

**Commodity type**: deduced from OD pair (e.g. iron ore, coal), website(s) or from train spotters

**Distance**: OD-pair

**Tonnes km**: Distance * cargo weight

**NUTS region**: O en D
Data collection (3)

- Train shuttles (containers)

- Known information (micro data) from comparable company (e.g. ERS railways) is compared with ProRail data and results in
  
  • Estimate of weight and number of containers
  • Validation of the method (1% accurate)

Confidentiality

- Agreement between Statistics Netherlands and rail companies on publication detail.
- Separate datasets:
  1. Geographical detail (NUTS3 NL) – no commodity detail
  2. Commodity detail (NST2007, 2 digit) – regional detail (NUTS2 NL)
Discussion

Thank you for your attention

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