Traffic flow-Visualisation-Model (TraViMo)

Bernd Buthe

Economic Commission for Europe
Inland Transport Committee
Working Party on Intermodal Transport and Logistics
Fifty-seventh session

Geneva, 10.11.2014
The beginning of TraViMo…

### DEPARTURES

<table>
<thead>
<tr>
<th>TIME</th>
<th>DESTINATION</th>
<th>FLIGHT</th>
<th>GATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:39</td>
<td>BERLIN</td>
<td>BA 903</td>
<td>31</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>12:57</td>
<td>SYDNEY</td>
<td>QF5723</td>
<td>27</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>13:08</td>
<td>TORONTO</td>
<td>AC5984</td>
<td>22</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>13:21</td>
<td>TOKYO</td>
<td>JL 608</td>
<td>41</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>13:37</td>
<td>HONG KONG</td>
<td>CX5471</td>
<td>29</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>13:48</td>
<td>MADRID</td>
<td>IB3941</td>
<td>30</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>14:19</td>
<td>LONDON</td>
<td>LH5021</td>
<td>28</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>14:35</td>
<td>NEW YORK</td>
<td>AA 997</td>
<td>11</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>14:54</td>
<td>PARIS</td>
<td>AF5870</td>
<td>23</td>
<td>CANCELLED</td>
</tr>
<tr>
<td>15:10</td>
<td>ROME</td>
<td>AZ5324</td>
<td>43</td>
<td>CANCELLED</td>
</tr>
</tbody>
</table>

© photobility - Fotolia.com
Starting point: Supply chain clusters

Take account of the following aspects for the determination of the relevance of the supply chains:

- Public life
  needs of the population, public consumption
- Homeland security
  defence needs, military and police functions, fire protection
- Key industries
  needs of the key industries identified
- **Information System for Crisis Management**

The analysis of traffic flows on the basis of statistical data…
Used data for the freight transport information system

- **Input data source**
- **Mode of transport**
- **Category of goods**
  - 81 different goods for example: potatoes, coal, furniture...
- **Transport route**
- **Traffic assignment**
  - Region A to Region B (for example Munich to Berlin)
Business Intelligence Software

- Operation purpose: explorative data analysis of large data sets
- Finding and identifying connections through visualization
- Authoring and reader System
- Intuitive handling
- Operable without special IT-knowledge (databases or statistical software)
- Easy access to complex and large data sets
- Allows filtering, drill-down and specific ad hoc selections

**TraViMo 1.0**

Traffic flow
Visualisation
Model

Transformation of raw traffic flow data into meaningful and useful information
Example of the information system
Example black coal in Germany 1993-2010

http://www.bbsr bund de/BBSR/DE/Raumentwicklung/Verkehrspolitik/Projekte/verkehrsstroeme_visual/01_Start.html
Thank you very much for your attention!

Contact details:

Bernd Buthe
Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR)
within the Federal Office for Building and Regional Planning (BBR)
I 5 – Transport and Environment
Deichmanns Aue 31-37
53179 Bonn
Germany
bernd.buthe@bbr.bund.de
Tel.: +49 228 99401 -2332