Performance of the maritime supply chain: connecting the dots

Olaf Merk

Ad hoc expert meeting: Measuring connectivity and performance: the need for statistics and data
15 May 2017
UNCTAD, Geneva, Switzerland
Overview

• Maritime supply chain: fragmentation with traditional focus on performance of silos
• Performance of each silo has improved
• The new frontier for performance of maritime supply chain: where one silo meets another
• Need to go towards more holistic performance measurement of maritime supply chain
• How to achieve this?
The above list contains comparative and consecutive studies. In addition: a wide range of studies limited in time and place.
Performance of each silo has improved
## New frontier: where one silo meets another

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Solution</th>
<th>Needs collaboration of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship waiting time</td>
<td>Coordinated port services</td>
<td>Carrier, terminal operator, pilots, towage</td>
</tr>
<tr>
<td>Unproductive moves</td>
<td>Better stowage planning</td>
<td>Carrier, terminal operator</td>
</tr>
<tr>
<td>Dwell time</td>
<td>Trade facilitation</td>
<td>Shipper, carrier, customs, inspections</td>
</tr>
<tr>
<td>Truck waiting time</td>
<td>Gate planning</td>
<td>Terminal, port, logistics, trucking company</td>
</tr>
<tr>
<td>Barge waiting time</td>
<td>Coordinated port services</td>
<td>Terminal, carrier, barge operator</td>
</tr>
<tr>
<td>Transhipment delays</td>
<td>Yard planning</td>
<td>Carrier, terminal</td>
</tr>
</tbody>
</table>
Towards more holistic performance measures

<table>
<thead>
<tr>
<th>Indicator</th>
<th>By whom</th>
<th>Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logistics Performance Index</td>
<td>World Bank</td>
<td>Customs Infrastructure, International shipments, Logistics competence,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tracking &amp; tracing, Timeliness</td>
</tr>
<tr>
<td>Enabling Trade Index</td>
<td>World Economic Forum</td>
<td>Market index, Border administration, Infrastructure</td>
</tr>
</tbody>
</table>

Need to expand and refine: move beyond perceptions, assess outputs not inputs, performance of silos and where these silos meet.
How to achieve this?

• Partly possible by mining existing data sources
• Digitalisation of supply chains could make such measurement only more pertinent
• Cooperation of main stakeholders necessary to measure these new indicators
• Key issue at roundtable of maritime stakeholders “Governance of the Maritime Supply Chain” during ITF Summit, 31 May-2 June 2017, Leipzig, Germany
Thank you!

Olaf Merk

olaf.merk@oecd.org
Twitter: @o_merk