Assessing Port Performance
Introduction to the main theme of the meeting

by

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ASSESSING PORT PERFORMANCE

Introduction to the main theme of the meeting

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1. Why are we here?

- To **review** recent developments in port performance from both the industry and the academic perspectives.
- To **understand** areas of concerns
- To **identify** key components to measure
- To **suggest** how we may overcome obstacles
- To **discuss** collaborative actions

2. What work has UNDTAD done in this area before

a) Port Performance Indicators (1976)


a) UNCTAD (1976) Port Performance Indicators¹

• Important to collect indicators to improve operations and for planning
• Indicators must be easy to calculate and simple to understand.
  – Ship revenue to berth group
  – Cargo revenue to cargo handling
  – Labour costs
  – Capital costs

¹ TD/B/C.4/131/Supp.1/Rev.1

Functional areas of the transport chain as seen by port management

Maritime Transport  Port Navigation Services  Cargo Handling Service  Cargo Transit Storage Service  Hinterland Transport

What about external factors?

Portion of the chain (transfer to or from vessels) covered by port performance indicators

• Recommended top managers to ask for statistics in their reports on:
  – Performance indicators
  – Equipment availability
  – Delivery of cargo
    • Control of storage space


• UNCTAD emphasized the need to measure port efficiency while stating the following formidable obstacles:
  – a) the sheer number of parameters involved
  – b) a lack of up-to-date and reliable data
  – c) absence of generally agreed and acceptable definitions
  – d) local considerations
  – e) interpretation.

Break-down of ship's turn around time in port

Berth Occupancy Ratio by hour/day

<table>
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<tr>
<th>Date</th>
<th>Berth 7</th>
<th>Berth 8</th>
<th>Berth 9</th>
<th>Berth 7</th>
<th>Berth 8</th>
<th>Berth 9</th>
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<tr>
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<tr>
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<td>24.0</td>
<td>14.0</td>
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</tr>
<tr>
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<td>10.0</td>
<td>24.0</td>
<td>7.0</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>113.5 h</td>
<td>120.5 h</td>
<td>120.0 h</td>
<td>6 d</td>
<td>6 d</td>
<td>7 d</td>
</tr>
</tbody>
</table>

Thus, in our example, berth occupancy can be:

On a one-hour recording: 70.2 per cent \( \frac{354}{504} \) h

On a one-day recording: 90.5 per cent \( \frac{18.6}{21} \) d
3. Why this initiative is different?

- This initiative is not about building capacity to collect data for the port.
- It’s about **sharing** existing data with others.
- It is a **collaborative approach**.
4. What do we hope to achieve?

- **Broaden knowledge** on the latest developments/techniques in port efficiency
- **Understand concerns** over data sharing
- **Gather support** for the need to benchmark
- **Identify data** to collect
- **Change perception** of data sharing as a cost, to that of a benefit
- **Reach consensus** for a way forward