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What is a port?

Port authority -
- monitoring ships movement
- mandatory reporting

Terminal operator -
- all services

Terminal owner -
- rent to privat operators
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The ships are unpredictable
(........at least for some of us)

The port needs to step up...............

ok, but tell me your intentions, and in due time....

Some actors knows, but are unable to redistribute information needed by others to plan and act at ideal time

- From livinglabs: Why was I not informed at that time?
  We could plan our resources in a different and better way.
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Metromap
But why PortCDM? €

Common language for information exchange across any system, and they are many.....

More precise port calls
- all actors on time
- credibility

Should make port calls more efficient and result in fast turnaround.
- Perhaps you have to slow down? When do you want to know that information?

Automatic connectors
- reuse of data sources
- ET-of an event to happen
- AT-of an event that has occurred (to SingleWindow?)
- manual connectors
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What will PortCDM give us:

1. real/estimate-time-information
2. situational awareness
3. optimal resource utilization

<table>
<thead>
<tr>
<th>1.</th>
<th>just in time arrival</th>
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<tbody>
<tr>
<td>2.</td>
<td>fast turnaround</td>
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<td>3.</td>
<td>lower costs</td>
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<td></td>
<td>maritime transport efficiency</td>
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</tbody>
</table>

KPI`s:

- Punctuality
- Predictability
- Berth productivity

Uncertainty

- Future architecture
- Responsibility
- Standardization
- SingleWindow
- Connectors status
- Gods Owner?
- Big data and sharing. Industry 4.0
- Data safety
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Examples

1. Statoil fuel incentive
2. Saipem700 vs Randgrid FSO

Fuel incentive model

Formula: \((X - Y) * Z * A / B\)

Where:
- \(X\) = Baseline
- \(Y\) = Actual fuel consumption in kilo fuel per hour for a defined period of time
- \(Z\) = Number of hours in operation
- \(A\) = Fuel price per kg
- \(B\) = Split of savings/extra cost in between ship owner and Statoil

* Baseline is based on average consumption of kilo fuel per hour from a representative period of time in the past, which include a "leeway" percentage where the reward or penalty is not evidenced.
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Thank you!