



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

# NIPWG9

## Considerations for data



Bundesamt für Seeschifffahrt und Hydrographie

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# Overview

- Creation of a test dataset for the Port of Rostock
- Involved standards:
  - S-123
  - S-127
  - S-131

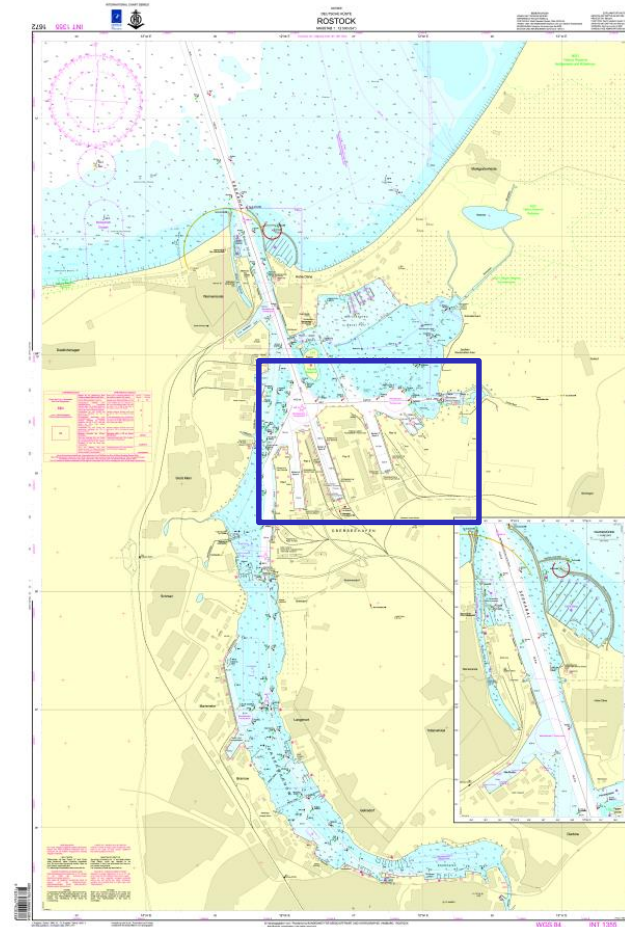
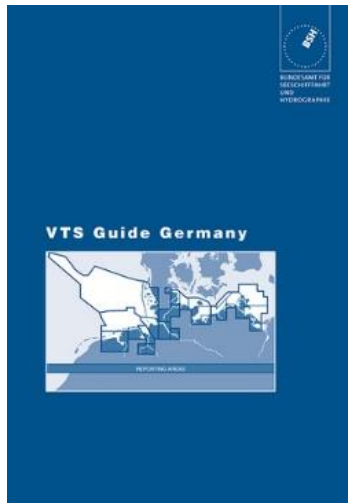


Fig. 1: Port of Rostock



```

RoutingMeasure
categoryOfRoutingMeasure: 3 (fairway system)
geometry: CurveOrSurface
featureName: Special navigating conditions in Rostock Fairway
text:
<S131:RoutingMeasure.gml:id="DE.RTM.01">
  <categoryOfRoutingMeasure>fairway system</categoryOfRoutingMeasure>
  <featureName>
    <displayName>false</displayName>
    <language>eng</language>
    <name>Special navigating conditions in Rostock Fairway</name>
  </featureName>
  <textContent>
    <categoryOfText>extract</categoryOfText>
    <information>
      <language>eng</language>
      <text>a. Fairways with 120 m bed width: Meeting of vessels with 8
        >1. Vessels with an aggregate beam of 40 to 60 m:
        >When the masters involved accept meeting and the
        >2. Vessels constrained to the middle of the fairway w
        >According to the Vessel Traffic Service Centre
        >b. Fairways with 50 m bed width: Meeting of vessels possible
        >1. Vessels with an aggregate beam of 17 to 22 m: Acco
        >wind force is a max. of 6 Bft
        >c. Vessels exceeding the stated parameters can meet in the
    </text>
  </textContent>
</S131:RoutingMeasure.gml:id="DE.RTM.01">
  
```

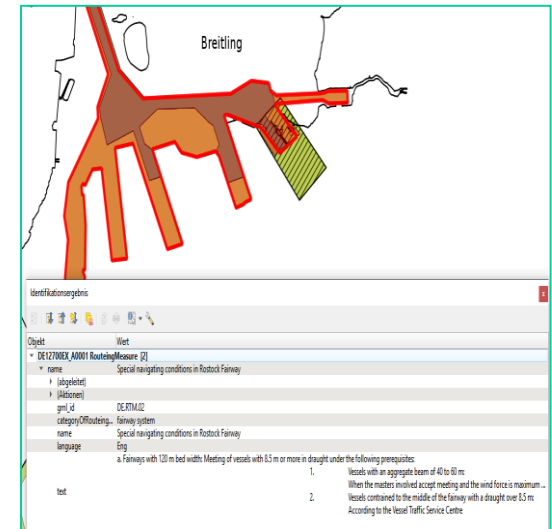


Fig. 2: VTS Guide

Fig. 3 & 4: Extraction and converting data

Fig. 5: Visualization in QGIS

- Creation of test dataset with own data
- Comparison between S-1xx data model and available data

→ To create a complete dataset further external data necessary

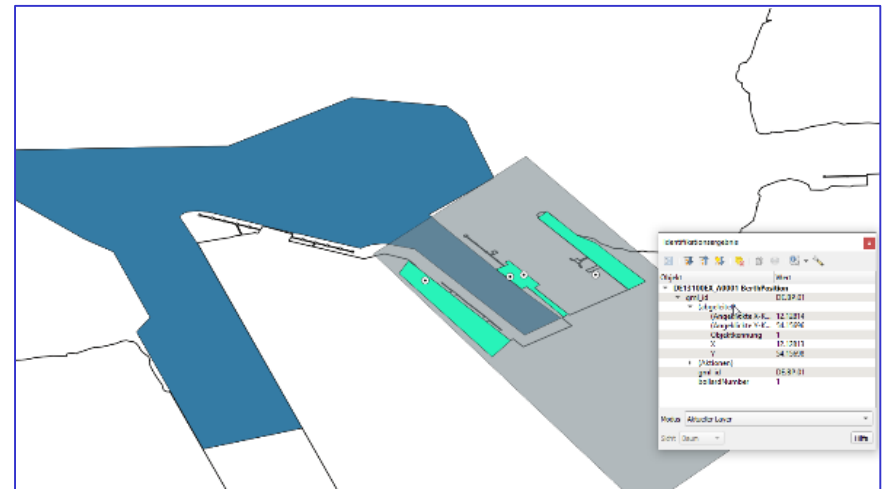


Fig. 6: Visualization in QGIS

- Cooperation with Port Authority Port of Rostock
  - Port Guide Port of Rostock
  - Request data delivery (GML.format)

→ Creation of a complete dataset still not possible

```
BerthPosition
  Berth/Berth layout
  ISPS Level
  Cargo handling facilities
  Available Berth length
  Number of bollards and bollard capacity
  Bollards layout (number, dimensions, etc.
  Supply options
    Electric power, land connection
    Bunker/fuel
    Potable water
```

Fig. 7: Extract of requested data

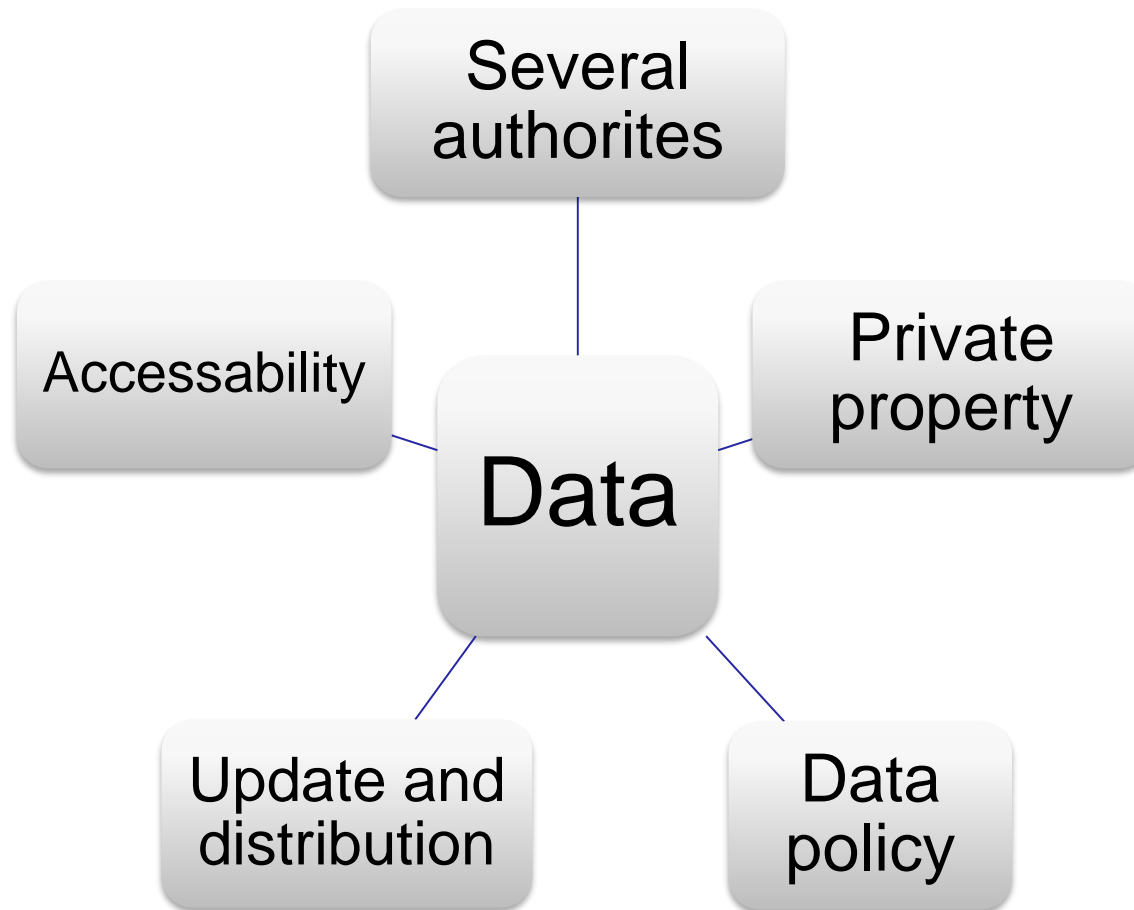


Fig. 8: Challenges in data processing

# Considerations for NIPWG

- 1) Will all port administrations be obliged to create their own S-1xx data set?
- 2) Will a HO and a port authorities provide individual S-1xx data sets?
- 3) Will the port administrations be obliged to forward all “raw” data to the hydrographic offices and send updates, too?



# Recommendations / Actions required

- 1) Define the responsibilities each administration has in terms of S1xx relevant data production (e.g. creation, distribution, update)
- 2) Discuss on how the need of cooperation should be addressed to HSSC to ensure that the IHMA members are requested to provide their data

(Please refer to NIPWG9-13.4A)



Any questions?