

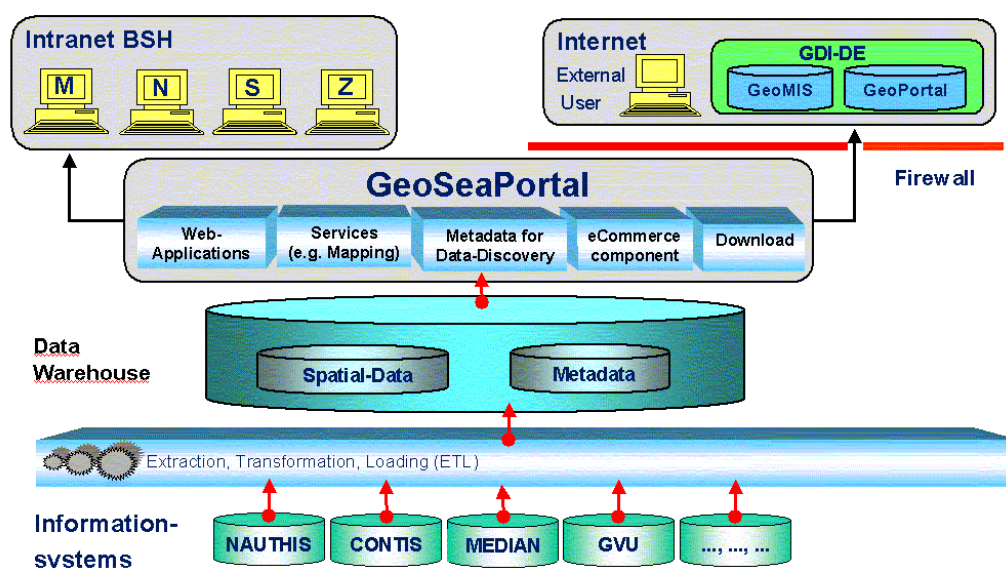
## Status of the development of a Spatial Data Infrastructure at BSH

The basis for duties like monitoring the seas, coastal protection, safety and ease of shipping, integrated marine spatial planning and offshore industry is the availability of comprehensive spatial data for these areas. It is quite important to have spatial-data from different subject-areas which could easily be linked together, visualised, analysed and interpreted.

To improve the combined usability of marine spatial data for internal and external use BSH has developed a central „Spatial Data Infrastructure (SDI-BSH)“. The system is still under development but finally it should provide access to all the spatial data at BSH. It is fully embedded in the national (GDI-DE) and the European (INSPIRE) initiatives for setting up SDIs.

Within the SDI, BSH is providing spatial-base-data, spatial-subject-data and the relevant meta-data. Internally the data could be used on the internal network of BSH, but it is also available on the Internet under [www.geoseaportal.de](http://www.geoseaportal.de) where it could be used by all kinds of users like science and the general public. At this stage following data is available in the form of mapping services:

- spatial base data from the „Nautical-hydrographic Information-System (NAUTHIS)“,
- data from the „Marine Environmental Monitoring Network (MARNET)“,
- data from the BSH prediction models,
- information about water and sediments from the marine environmental Database (MUDAB),
- data from the „Continental Shelf Information System (CONTIS)“,
- geological information from the „Shelf Geo Explorer (SGE)“,
- processed data about surface temperatures in the North- and Baltic-Sea,
- chlorophyll and temperature data from remote sensing and
- data from the database of water pollution reports.



Besides the spatial reference a lot of the data at BSH has a time dependency. The services so far, like WMS (Web Map Service) and WFS (Web Feature Service) don't support time dependent data, therefore BSH is working on the development of a „Generic Viewer“ which allows to visualise time-series.

For the next years it is planned to expand the SDI-BSH. Following actions will be taken:

- integration of further data-sets into the system,
- Expand the functionality of the „Generic Viewer“ to visualise vertical and horizontal Profiles, sections and user defined map services which will be produced on the fly,
- add download functions and
- integrate SDI-BSH into the Marine Data Infrastructure for Germany (MDI-DE).

All MS are invited to inform about similar developments in their countries.

The Conference is invited to take note of this report.