



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

GUWIS

Friday, September 28, 2012

28.09.12

Author: H. Pietrek, BSH HH/HRO
GUWIS - Introduction



Content

What is GUWIS,
and what does GUWIS stand for ?

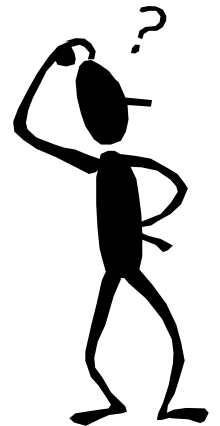
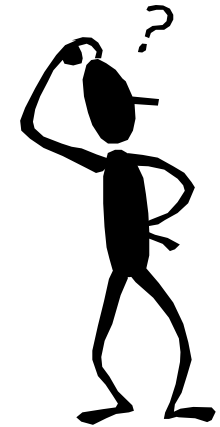
What is the Job of GUWIS?

How does GUWIS look like?

Who is able to work with GUWIS ?

How does GUWIS will support us by performing
our Job?

Which products could GUWIS provide?



Content

What is GUWIS, and what does the Synonym „GUWIS“ stand for ?

What is the Job of GUWIS?

How does GUWIS look like?

Who is able to work with GUWIS ?

How does GUWIS will support us by performing our Job?

Which products could GUWIS provide?

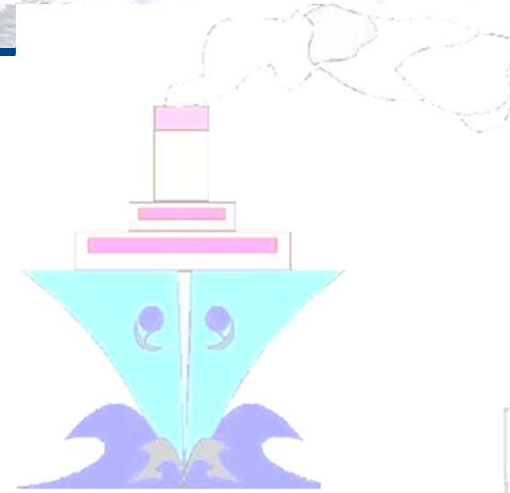
GUWIS is a Synonym or abbreviation for **G**erman **U**nder - **W**ater – Obstacle -
Information - **S**ystem



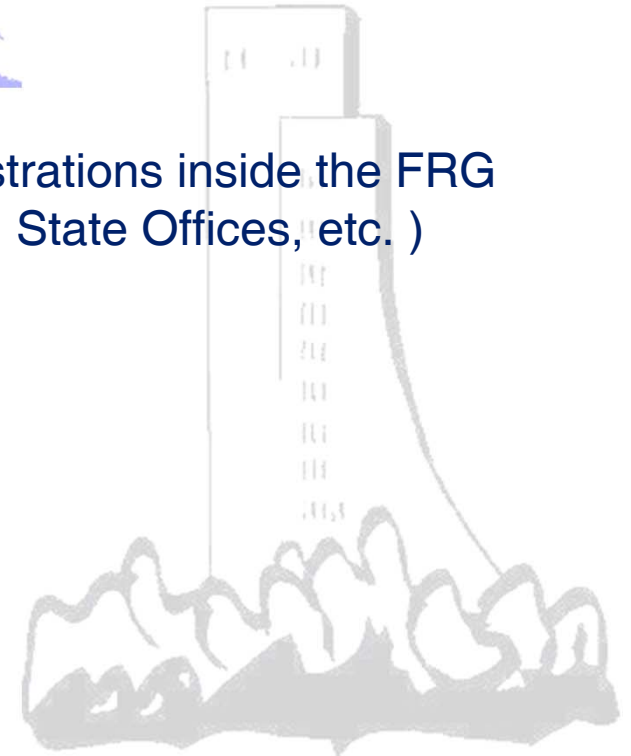
- **GUWIS** is a **non-public** Database, which contains all known underwater Obstacles, Wrecks, Rocks and other Obstructions. Also Pipes and Cables are also recorded in this Database

Gesetz über die Aufgaben des Bundes auf dem Gebiet der Seeschifffahrt (Seeaufgabengesetz – SeeaufgG)

- 9. die nautischen und hydrographischen Dienste, insbesondere
 - a) der Seevermessungsdienst,
 - b) der Gezeiten-, Wasserstands- und Sturmflutwarndienst,
 - c) der Eismeldungsdienst,
 - d) der erdmagnetische Dienst;



- GUWIS provide informations for several administrations inside the FRG (like the German Navy, other Federal Bureau's, State Offices, etc.)



GUWIS contain's all available Information about the Obstacles, that were mentioned before, on one Location.

The contents of GUWIS contain an alpha-numeric Information (Investigationreport, Diverreport, technical descriptions, etc.) and also Recorded copies of Sidescan Sonar data, Echogramm, MBES-Plottingsheets, underwater Photos and or Videos (if these informations are available)

All these Information are held on a central serversystem at the BSH. For users, who haven't direct access to this System (Ships of the BSH-Fleet), we provide a full copy of the database in a special IT - Environment.

Content

What is GUWIS, and what does the Synonym „GUWIS“ stand for ?

What is the Job of GUWIS?

How does GUWIS look like?

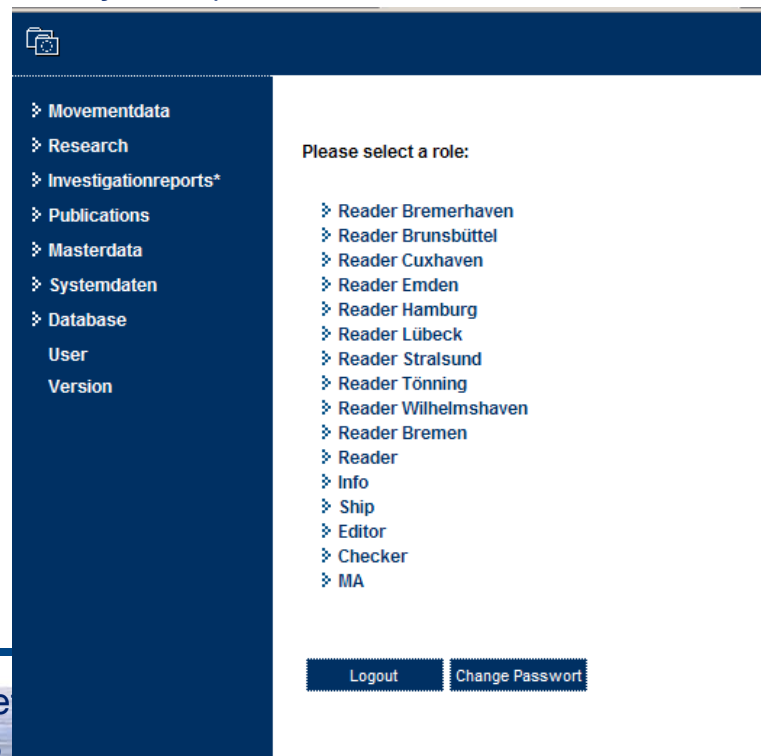
Who is able to work with GUWIS ?

How does GUWIS will support us by performing our Job?

Which products could GUWIS provide?

Guwis is a Databasesystem based on the **MOZILLA** Webbrowser as a Frontend and the **ORACLE** - DBMS (Databasemanagementsystem) as the Backbone

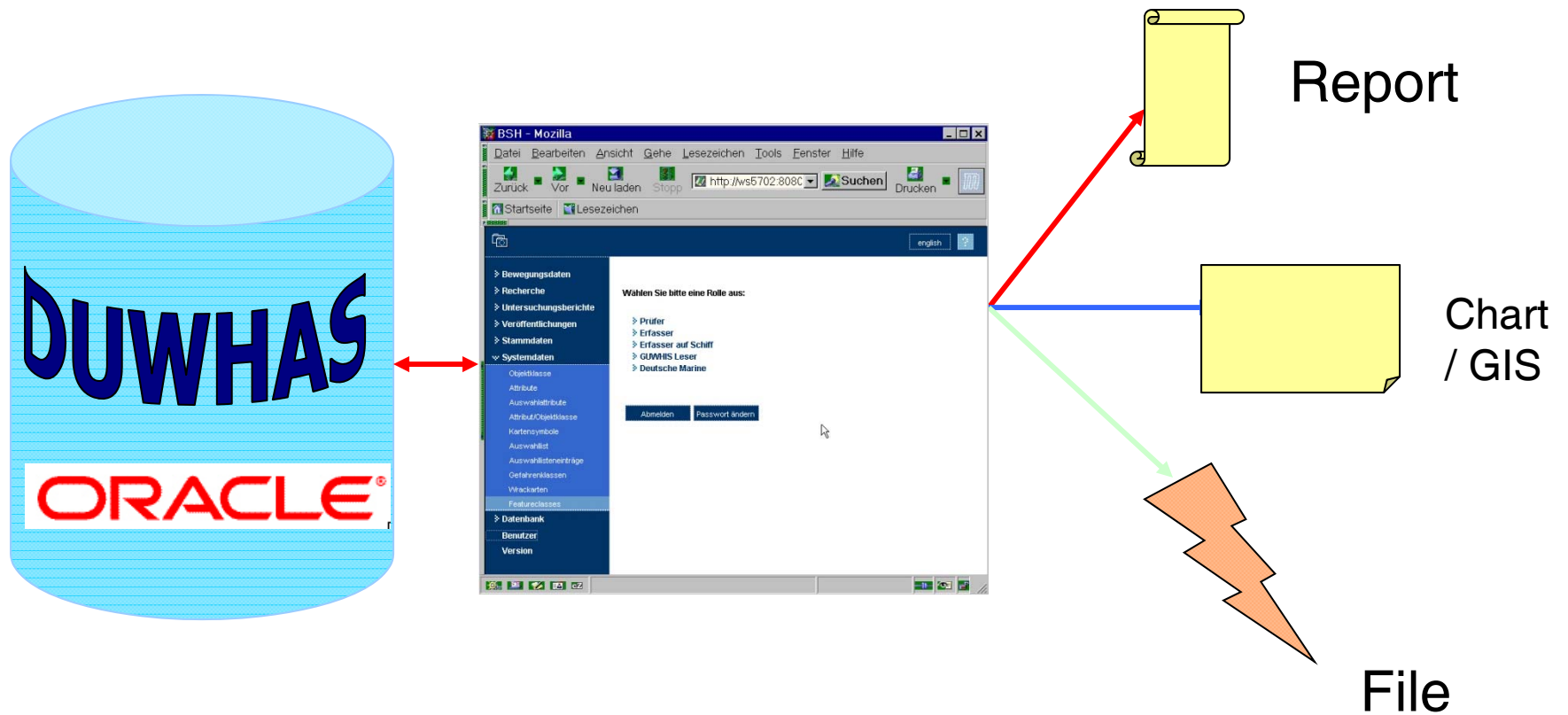
The Screenshot on the right, displays the User-Screen, with the main Menu on the left and several Roles which are accessable for the supervising Role



GUWIS



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE



28.09.12

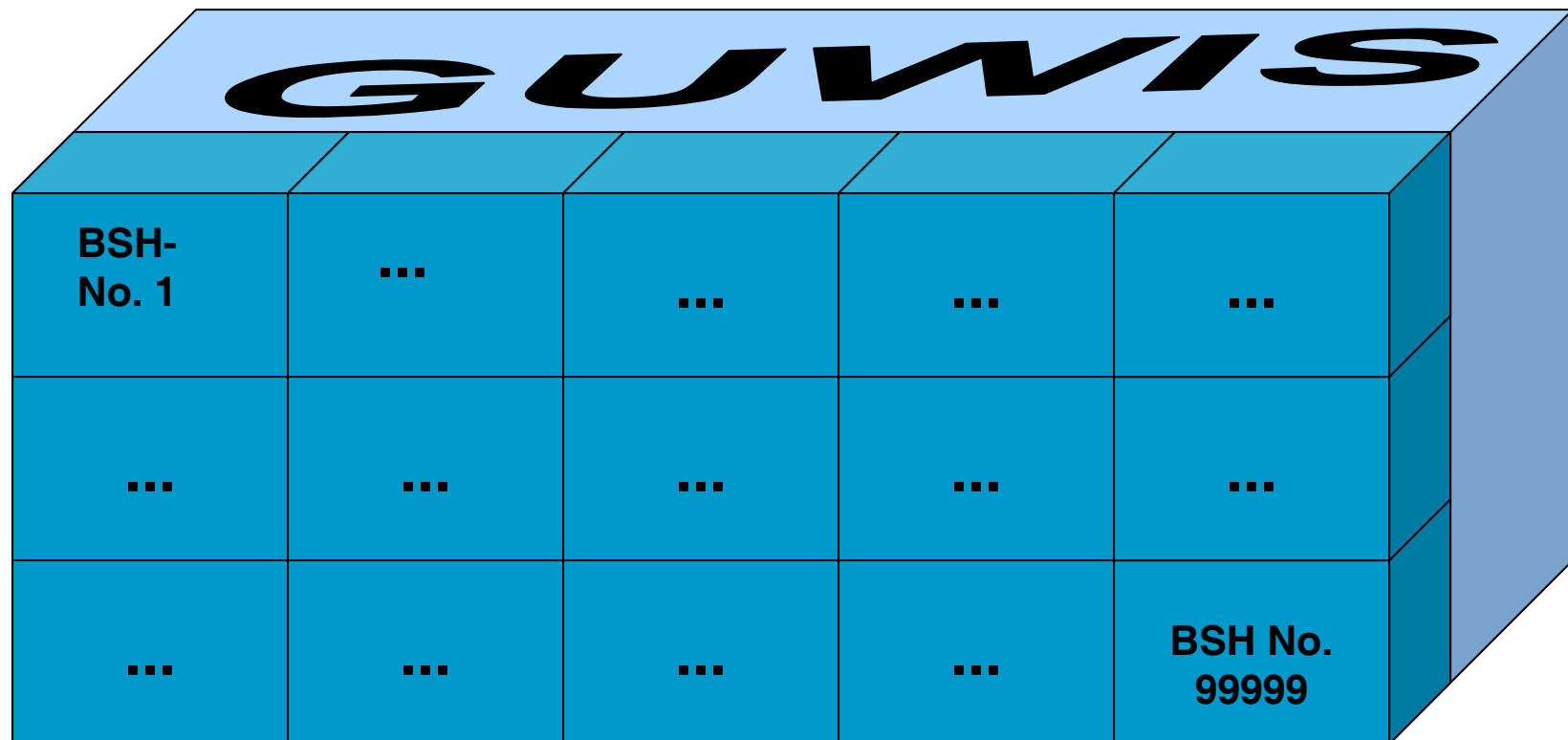
Author: H. Pietrek, BSH HH/HRO
GUWIS - Introduction

The Datastructure of GUWIS

The Datastructure follows the idea „from General into the Detail“. Main Indicator of an Obstacle is a unique number, also called BSH-Nr. (BSH-No.). Each BSH-No. could hold one or more investigations. Within each Investigation, there are one or more Observations (Position and Depth) possible.

On the next Slide, You'll see an Illustration of the Principle that I've pointed out above.

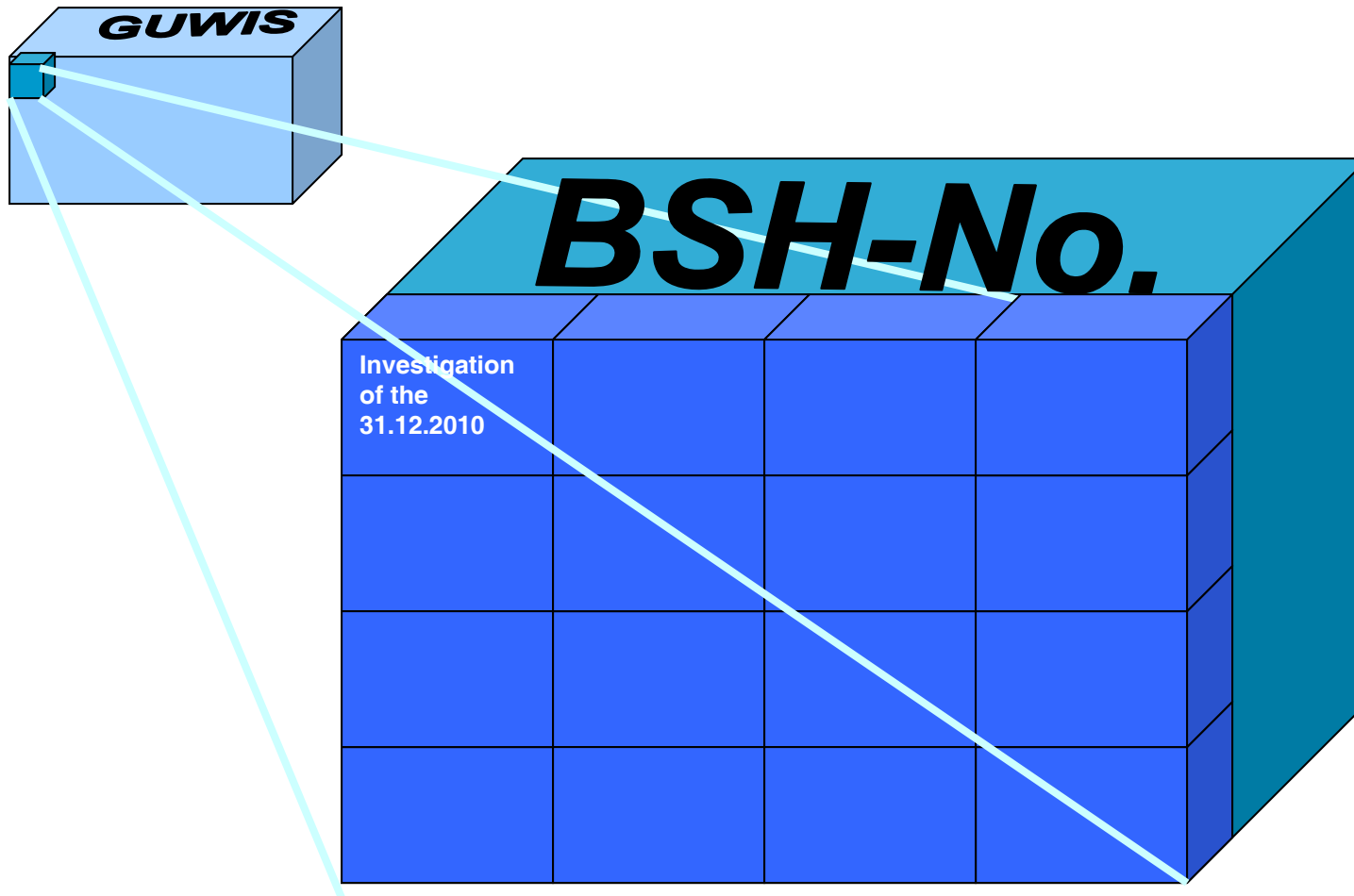
The Structure of GUWIS



GUWIS

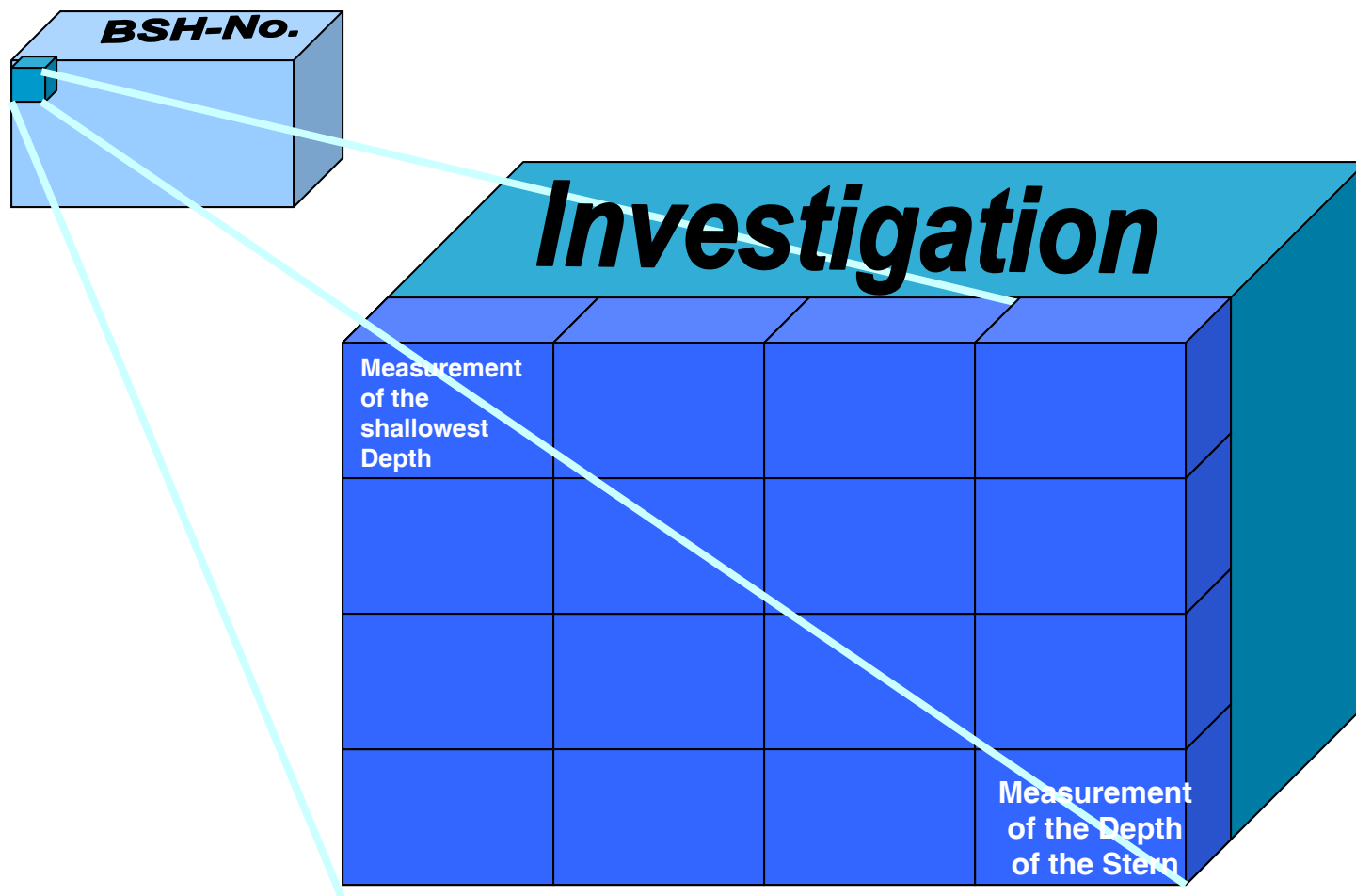


BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE



28.09.12

Author: H. Pietrek, BSH HH/HRO
GUWIS - Introduction



Which Informations will be recorded ? (rough Overview)

- the **Object** with their Attributes

expl. :

- S-57 - Objectclass (if possible)
- all Attributes with respect to the Objectclass.

But only if they are available !

- **Ancillary Informationen** of the Investigations

expl.:

- Diverreport (only when a dives was performed)
- Sonarrecordings (Side-Scan, SBES, MBES)
- CTD - Profile
- Sedimentprobe (only if no earlier Probe was available)
- Photos and or Videos (only if possible)
- other Informations (Articles of newspapers, Warning Messages, etc.)

GUWIS



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

All these Information will be covered in a single Report with appendices



Investigationreport

28.09.12

Author: H. Pietrek, BSH HH/HRO
GUWIS - Introduction

Content

What is GUWIS, and what does the Synonym „GUWIS“ stand for ?

What is the Job of GUWIS?

How does GUWIS look like?

Who is able to work with GUWIS ?

How does GUWIS will support us by performing our Job?

Which Products could GUWIS provide?

At the moment the following roles are implemented:

- Reader (reading Access to all Objects without AML and classified. Objects
- Marineamt (Governmental Institution of the German Navy
(w.o. but with AML)
- Reader / Editor of a Wrecksearchingvessel same as above but with some further rights like reading classified Object and create new Reports and store them onto their local DB.
- Editor onshore, same as above but inside the IT - Infrastructure
(not DBMS!)
- Supervisor same as above and the possibility to import new Investigationreports into the DBMS, also to manipulate, delete and classify Reports.
- Administrator all nesscary rights to operate the DBMS

Content

What is GUWIS, and what does the Synonym „GUWIS“ stand's for ?

What is the Job of GUWIS?

How does GUWIS looks like?

Who is able to work with GUWIS ?

How does GUWIS will support us by performing our Job?

Which Products could GUWIS provide?

- **nautical Cartography** QC Data according to the S-57 Standard
- **German Navy** a complete dataset
- **Waterway and Transport Administration** the most actual dataset for their needs
- **Wrecksearching Vessels of the BSH** a full dataset with all ancillary Information if available
-

Content

What is GUWIS, and what does the Synonym „GUWIS“ stand for ?

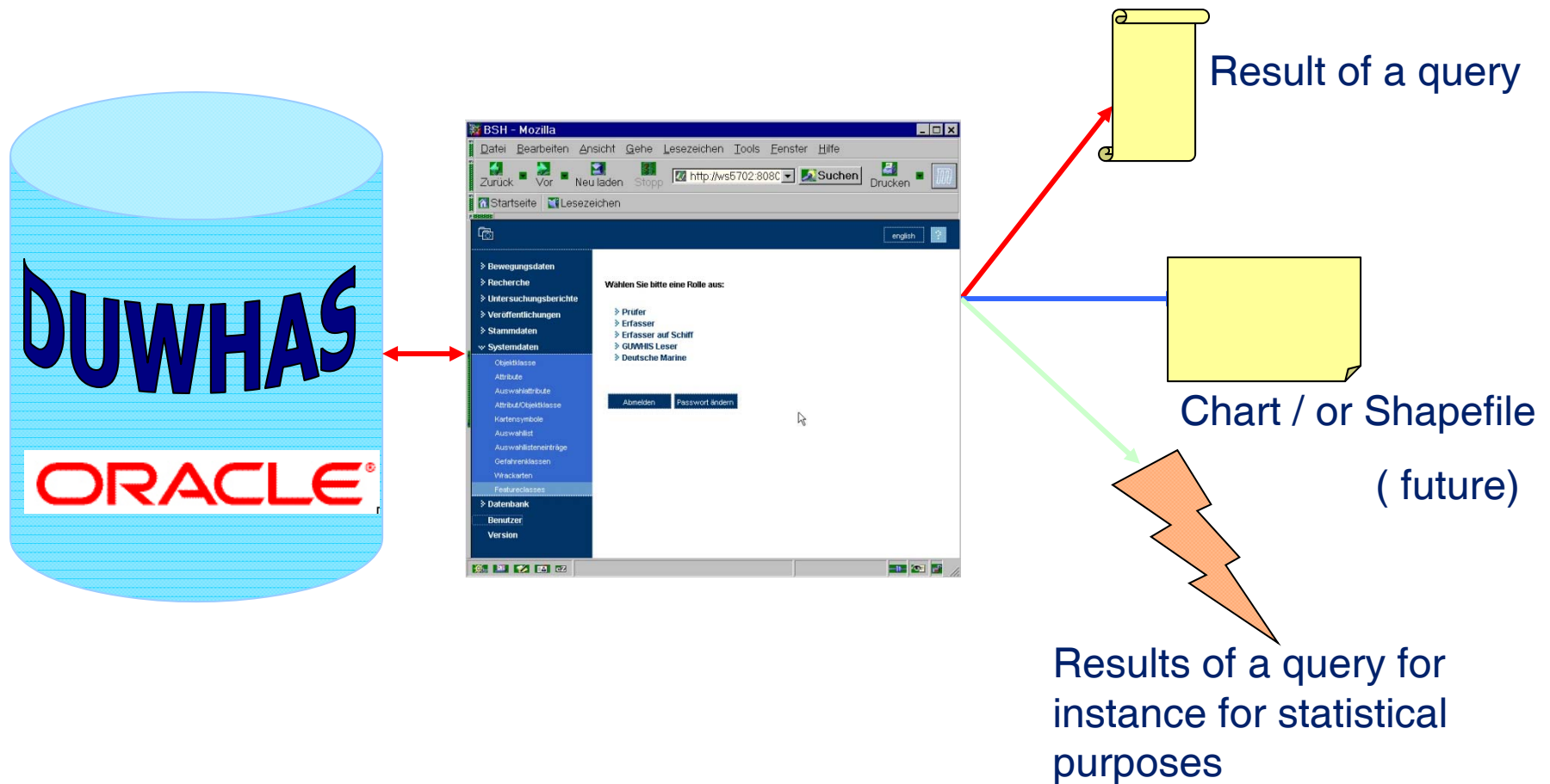
What is the Job of GUWIS?

How does GUWIS look like?

Who is able to work with GUWIS ?

How does GUWIS will support us by performing our Job?

Which Products could GUWIS provide?



A table as a result of a query

RECHERCHE: ÜBERSICHT AKTUELLER WRACKDATEN

Suchen

BSH-Nr. 815

Name

Klassifizierung

Datum

Breite

Länge

Geringste Tiefe [m]

Untersuchungsdatum

Wracktyp

WSA-Name

Jahr

Nummer

Klasse

Code

10 Datensätze pro Seite

Ergebnis zählen

Groß- und Kleinschreibung beachten

Suchen

Fertig

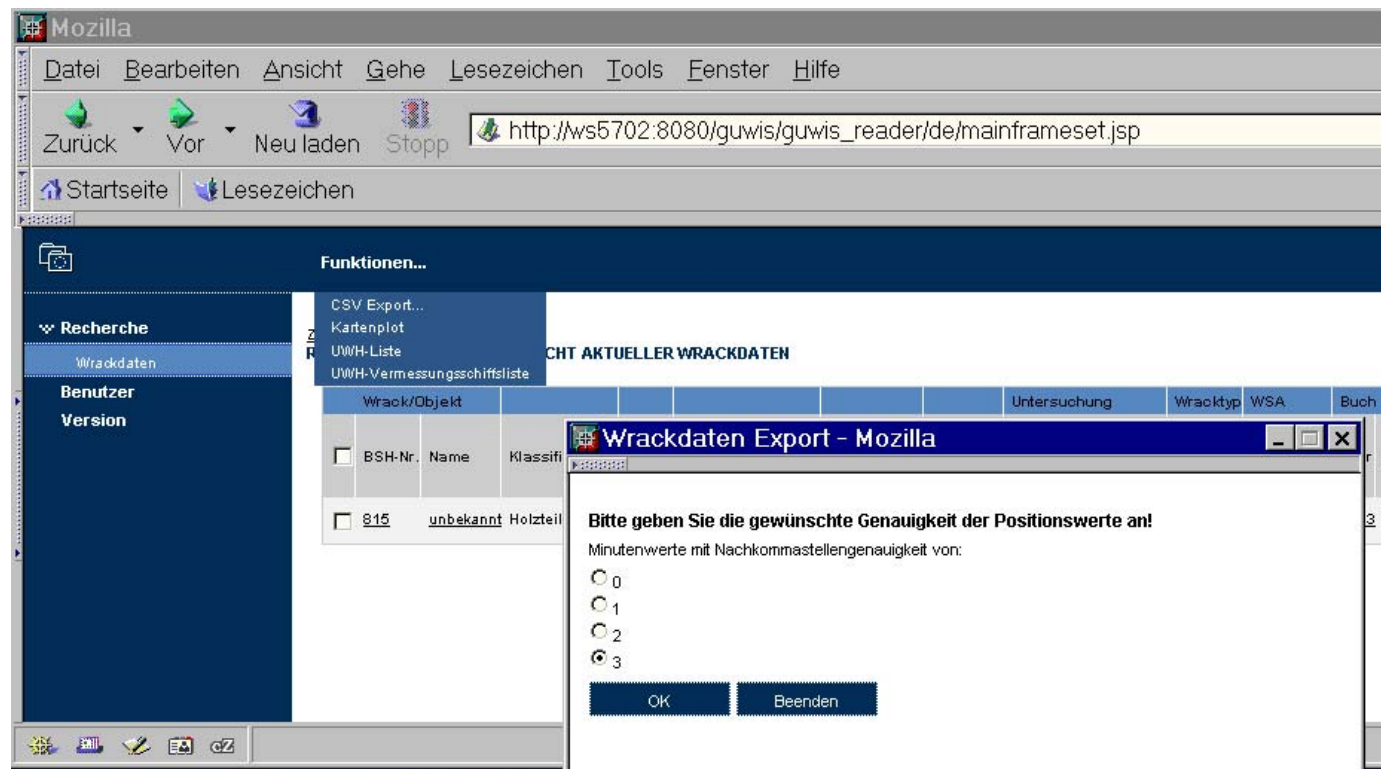
Funktionen...

Zur letzten Recherche

RECHERCHE-ERGEBNIS: ÜBERSICHT AKTUELLER WRACKDATEN

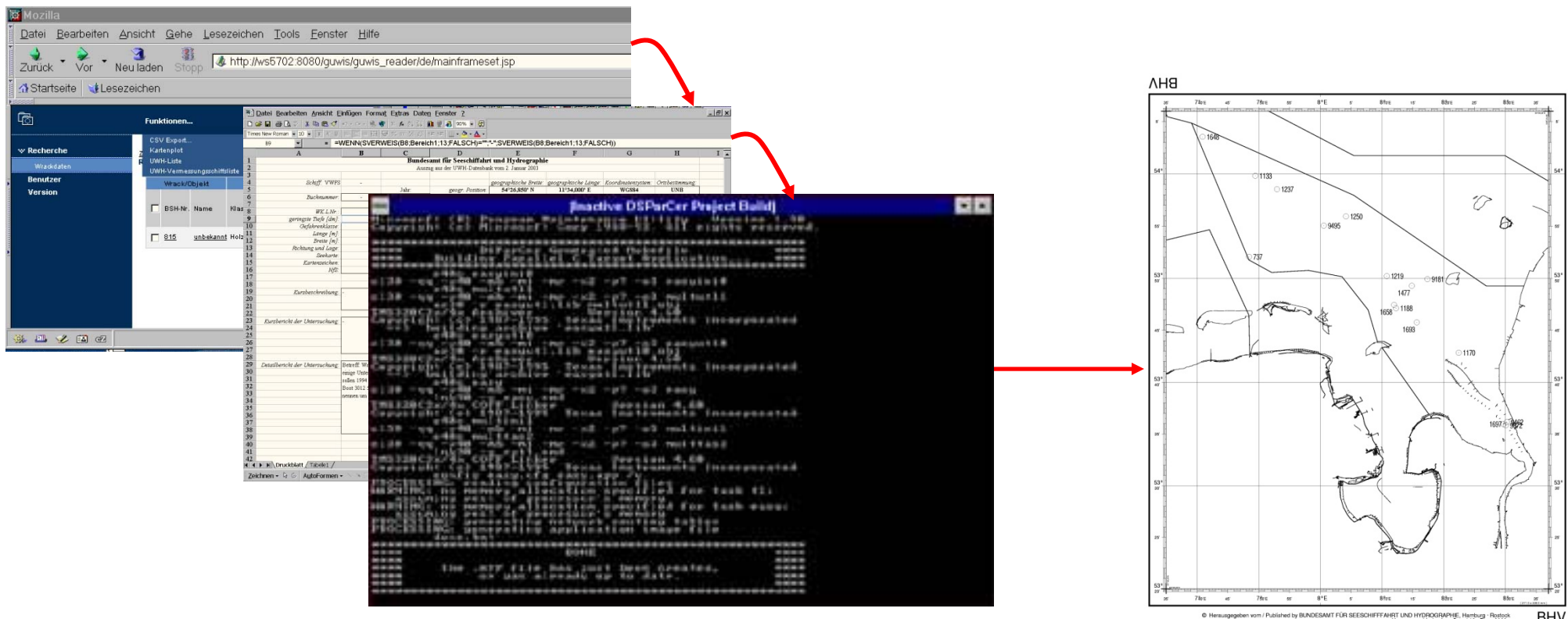
Wrack/Objekt	BSH-Nr.	Name	Klassifizierung	Datum	Breite	Länge	Geringste Tiefe [m]	Untersuchungsdatum	Wracktyp	WSA	Buch	Gefahrenklasse	Featurecode	Status	Sperrenzeichen
<input type="checkbox"/> 815	unbekannt	Holzteile			53°19.8000'N	07°12.0000'E	7.20	01.04.2003	dic. Schiffe	Emden	2003 002	5	K27	0	0

A File (based upon a query) with the possibility to download them for further use (Excel)



GUWIS

A chart (like a table but especially for use as an input for a GIS-System)



28.09.12

Author: H. Pietrek, BSH HH/HRO
GUWIS - Introduction