

- ◆ **Registration Database**
  - ⇒ **Concept for a common solution**
  - ⇒ **Implementation by the federal Statistical Office**
  
- ◆ **Exchange with the Business Register**
  - ⇒ **Concept for all German State Statistical Offices**

- ◆ **Data format**
  - ⇒ **XML-EDR for the Providers of statistical Information**
  - ⇒ **Interface to Statistical Production**
  
- ◆ **Data Editing**
  - ⇒ **Interface to the Statspez table generation system**

## Statistik-Online:

- 421 11 Monatsbericht für Betriebe des Verarbeitenden Gewerbes
- 453 11 Monatsbericht zur Einzelhandelsstatistik
- 441 11 Monatsbericht im Bauhauptgewerbe (incl. Auftragseingangsindizes)
- 421 21 Monatliche Produktionserhebung
- 421 31 Vierteljährliche Produktionserhebung
- 325 31 Erhebung der Waren und Dienstleistungen für den Umweltschutz
- 325 11 Erhebung der Investitionserhebung für den Umweltschutz

## ◆ Nordrhein-Westfalen

⇨ URL: <http://www.statistik-online.nrw.de>

## ◆ Mecklenburg-Vorpommern

⇨ URL: <http://online.statistik-mv.de>

## ◆ Hessen

⇨ URL: <http://www.hsl.de/Statistik-Online/>

- ◆ **EDR by Filetransfer**
- ◆ **Data from Software Packages**
  - *provided by e.g. Sap, Datev, Communitities*
  - *provided by government Administration*
- ◆ **Exchange Format**
  - *generic description*
  - *possibility of checks*



## **DatML/RAW**

**A XML-based document type for  
raw data reporting**

- For the reporting of Statistical raw data
  - Metadata, characteristics and values
  - Parallel reporting (generic)
- for all surveys
  - Only characteristics depend on the Survey
- for multiple clients
  - send and receive side
- additional functions
  - Response
  - corrections of addresses
  - Possibilities for tests

# Application

- ⇒ **Universal format for data reporting**
  - based on survey data
- ⇒ **produced by external Software**
  - e.g. Hospitals
- ⇒ **Data storage for Online-Surveys**
  - Produced by the web server
- ⇒ **Conversions into legacy data formats**
  - plain records
  - other XML-data

## Different Levels of Information

### ⇒ Document

- sender, recipient, protocol, additional functions

### ⇒ File

- Providers of Statistical information, National Statistical Institute, Survey, period, survey identification (e.g. EVAS)
- Type and Identification of characteristics, units

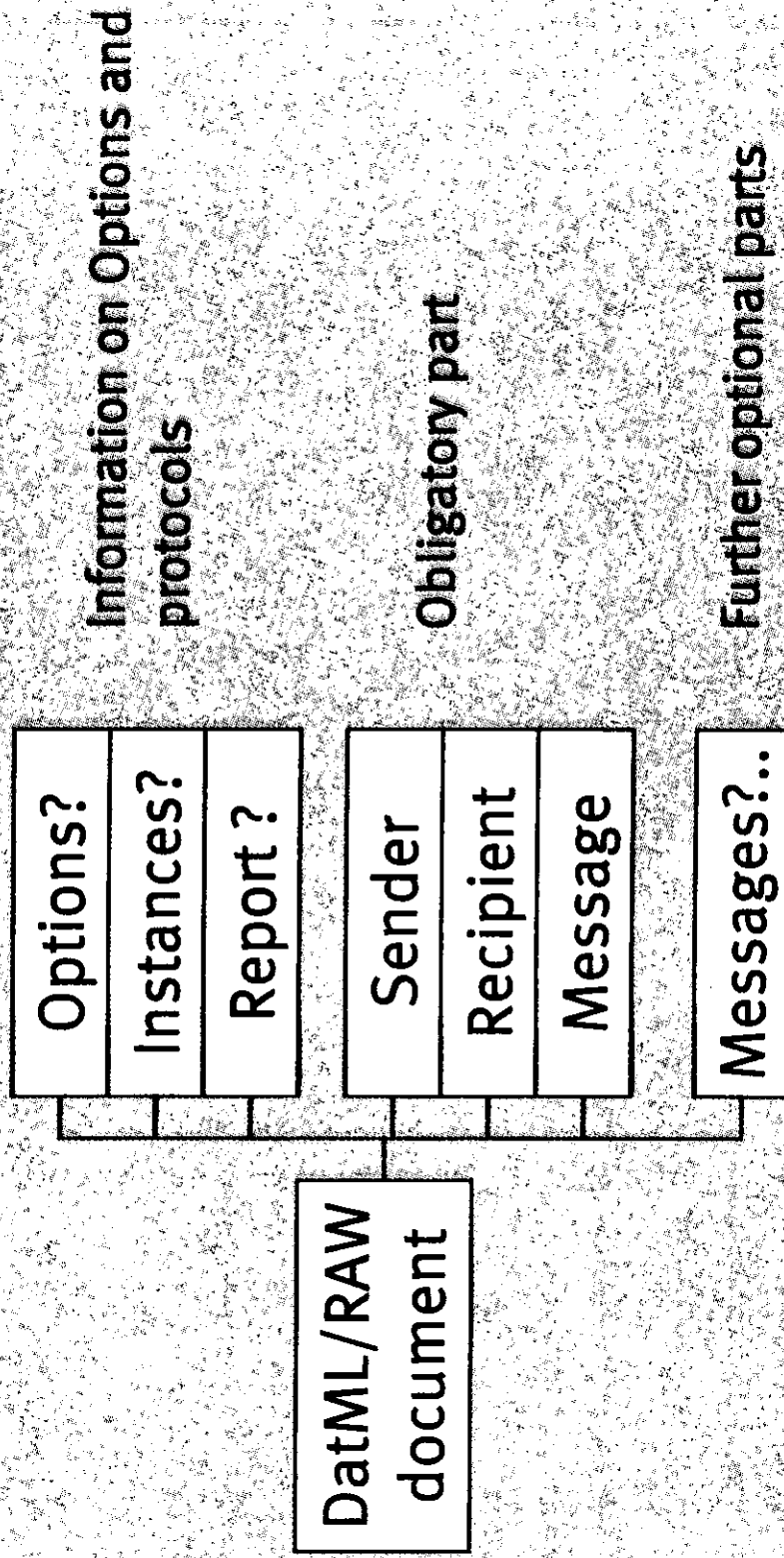
### ⇒ other metadata

- Identification data, remarks

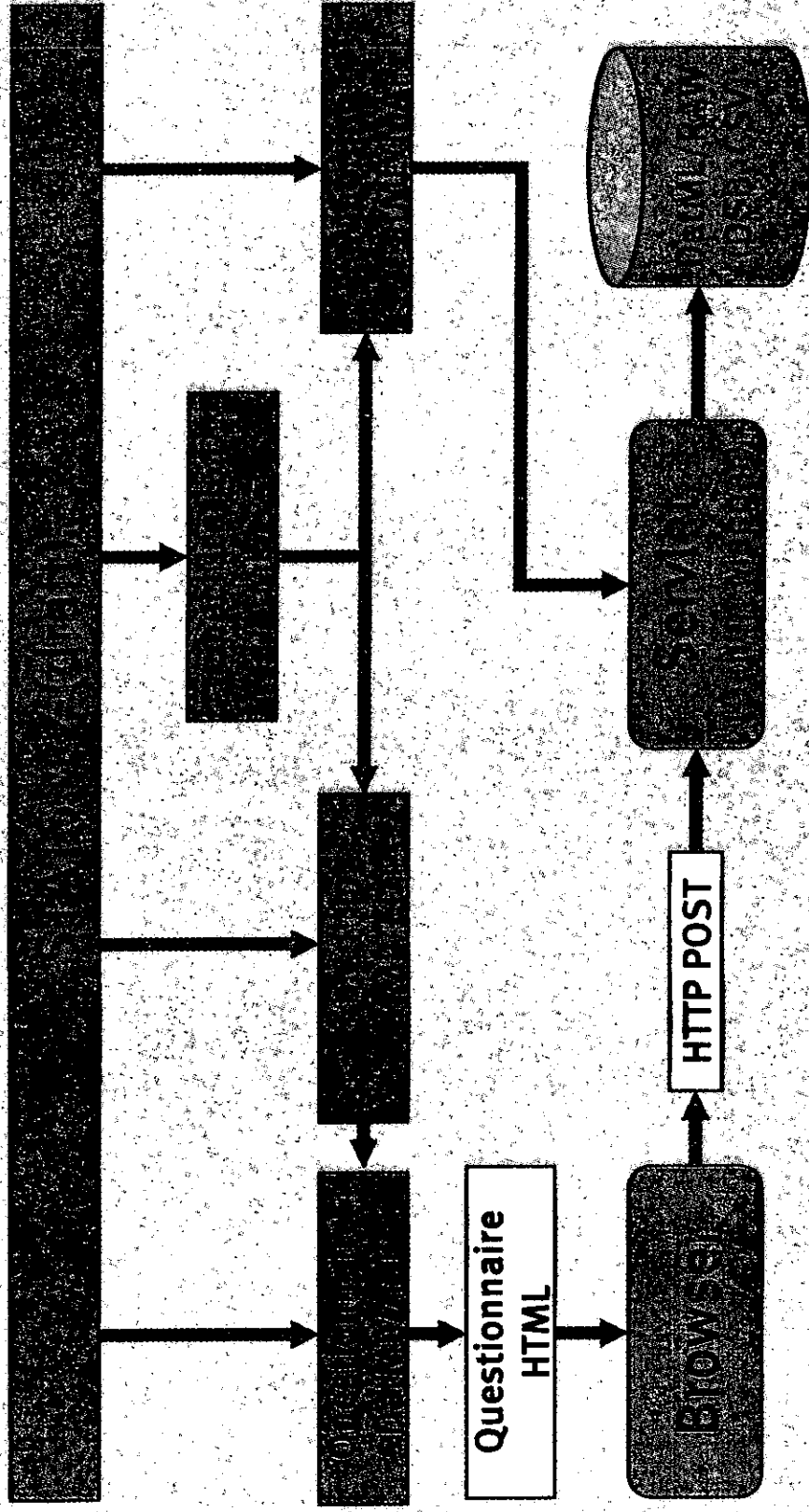


# Structure Diagram

**Example:**



# Data-Flow for Online EDR



- ◆ **DatML/RAW**
  - 3. Draft ready
  - Final approval expected
- ◆ **DatML/SSP (Specifications, characteristics)**
  - Component Record Description
- ◆ **DatML/MAP (Mapping)**
  - HTML to DatML/RAW
  - DSB-based Mapping for records
- ◆ **DatML/RES**
  - XML-Response format for DatML/RAW
- ◆ **DatML/EDT**
  - Data Editing

**Thank You for Your Attention**

**Fritz Pfrommer**

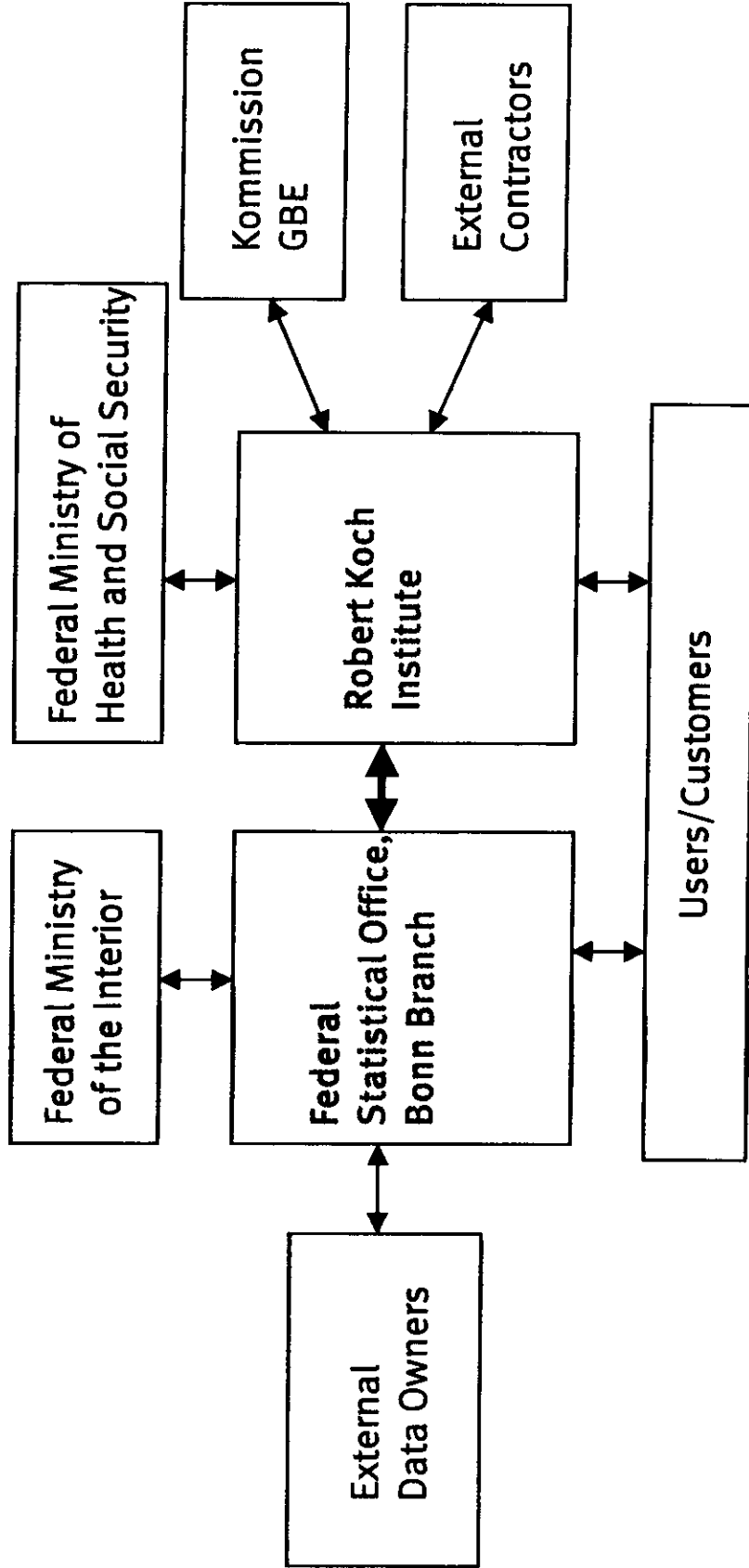
**Statistisches Bundesamt, Wiesbaden**

**Phone: +49 (0)611 / 75-2707**

**E-Mail: [Fritz.Pfrommer@destatis.de](mailto:Fritz.Pfrommer@destatis.de)**



# Health Reporting as a Common Task





## **Information and Documentation Center Health Data**

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- **Acquisition**  
Collection of data out of 190 data sources from 60 different data owners
- **Information Technology**  
Development and operation of the information system
- **Info-Service, Public Relations**  
Infos by telephone, fax, email or via the IS



# Initial User Requirements

- The general public should be given access to all the information collected
  - The “internet” is the proper information carrier.
- Users’ working habits differ substantially
  - The system has to be flexible, easy to use, and fast.
- Users want to post-process the information retrieved
  - An information download has to be made available.
- Topics may change → The data model must be flexible.
- Users may not speak German → Some kernel parts of the system should also be made available in English.



# Contents of the IS-GBE

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The IS-GBE contains the following types of information:

- Experts' knowledge and judgement (expertise):  
information contained in the various reports produced during the project, e.g. the Health Report for Germany.
- Raw data in aggregated form
- Indicators calculated on the basis of the acquired data
- detailed background information on data and indicators, e.g. data sources





## Services Provided by the IS-GBE

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- **Standard services:** General information, news board, online-help, email facilities to contact the administrator.
- **Query facilities:** Retrieval may be performed
  - \*by topics following the hierarchy of information,
  - \*by text strings following common internet search-engine technology, and
  - \*in a context-sensitive way by looking for documents “related” to a given piece of information.
- **Storing facilities:** A personal “shopping” basket may be edited; its content may be downloaded to the user.



## Public Access to the IS-GBE

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- The IS-GBE may be accessed by everybody, who has at his disposal a PC with internet access and a net-browser such as Netscape Navigator or MS internet explorer.
- No specific knowledge or expertise is necessary to use the IS-GBE: This refers to both the contents of the system and to information technology.
- All information can currently be accessed free of charge.
- Registered users have access to only marginal additional options such as an individual shopping basket



# Hard and Software Technology

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- The IS-GBE uses a relational database (RDBMS) to store and retrieve numerical and non-numerical information:  
Oracle 8i
- a multidimensional database system (MDBMS-OLAP) to present numerical data as arrays: Oracle Express 6.2
- which are both secured by firewalls
- The software is implemented on several Servers by Sun Microsystems. The operating system is SunOS.
- Access via Oracle Web Server 3.x



# Technology and Access - Overview

