THE CENTRAL COMMUNICATION AND ORGANISATION COMPONENT OF EDM

EBB – Your Personal Workspace in EDM
ENVIRONMENTAL DATA

For the different areas of environmental protection (emission to air and water and collection / recycling / disposal of waste) a big amount of data is needed.

Often the same data are used for different purposes by different companies or authorities.

Collection, processing and exchange of data as well as work flows are considerable complex and have to be transparent and verifiable.
AIR EMISSIONS

Observation: many legal matters work with the same or similar information (numbers indicate similar information)

- EZG: quantity of greenhouse gas
- EEV: pollutant concentration air
- thresholds

EMISSIONS
- PRTR: operations
  - pollutant concentration air
  - pollutant concentration water
  - quantity of waste

WATER EMISSIONS
- EmReg-OW: pollutant concentration water

ENVIRONMENTAL CONTROL
- IPPC: limit values
  - permits
  - official requirements
  - environmental inspections
  - operations

WASTE MANAGEMENT
- AVV: waste types
  - pollutant concentration air
  - thresholds
- AWG: waste types
  - operations
  - permits
  - thresholds
- AbfallbilanzV: waste types
  - quantities
  - movements

INSTALLATION RELATED ENVIRONMENTAL DATA
The electronic administration of the future.

- Environmental data are collected, processed and exchanged via an integrated system of joint databases and applications.

- Electronic data are accessible for the involved companies, 3 federal ministries, the competent units of the 9 provinces and of the local authorities.

**BASIC PRINCIPLES**

1. Data entry in structured form where they are generated first.

2. Transfer and processing - safe and without discontinuity of media.

3. Data protection is essential.
Data objects instead of paper documents in electronic form (e.g. PDFs)
- Notifications
- Permits
- ...

Harmonized data structures
Reuse of data
Plausibility checks
Analytical functions
Reporting tools
OVERVIEW OF THE REGISTERS USED IN EDM

Business Service Portal | Single Sign-On - Portal | Portal Interconnection

CENTRAL MASTERDATA REGISTER
persons (legal+ natural), locations and installations

- waste-Balance
- waste Analysis
- permission application
- transport of dangerous waste
- incineration of waste
- waste of electronic equipment
- cross-border transport of waste (import/export)

Waste Register

- central permit register
- company related licenses, permits for installations
- combustion plant
- european pollutant release and transfer register (E-PRTR)
- industrial emissions

Emission Register

- radiation source register
- radiation level register

Radiation Register

Central masterdata register persons (legal+ natural), locations and installations

Business Intelligence as an assistance for public administration in environmental issues
Different regulations lead to 23 different applications. They manage quite different data and processes from the monitoring of industrial emissions and their compliance with permit requirements to transport and treatment of waste and the import/export of waste or of radiation sources.

EDM supports complex processes like the preparation of a license application and the following processing in the authority up to the publishing of the final permit - by its expertise in the environmental area, by the information on the specific situation (e.g. installations and permits of the applicant) and by its tools for communication and organization of the work.
EDM / EBB - THE DIGITAL TRANSFORMATION
Electronic Data Management – Environment

EDM / EBB digital
Lifecycle From dumb paper to an intelligent Data System

EDM
Efficient Reporting
- Structured data (waste, emission, ...)
- Tools for Authorities
- Tools for companies

EDM
Single Point of Information
- direct access of environmental data, licenses, permits via internet
- establishing domain specific knowledge

EDM / EBB
Business Intelligence, structured communication and efficient organization of work fully integrated in the EDM system
- support of companies and authorities in complex processes
- support for legal compliance
- automatic annotation of domain knowledge
- safe and verifiable communication between companies and with authorities
- tools for efficient organization of tasks, for assignment of employees to tasks, reminders, etc.
- collaboration by different user groups: individual workflows, secure data exchange

2005 2010 2015 2020
One-stop-shop: central overview about all “my” environmental data regardless of different regulations

EBB works like a PIM (e.g. MS Outlook) – just better:

- Automatic annotation of domain data to different data objects (permits, notifications,...) helping the user to find the required information
- Addressable work groups/user groups
- Possibility to setup individual group specific workflows with the option to get reminders by the system
- System internal end to end communication between different user groups ensures safe and provable data transfer
- Communication with authority: automatic selection of the competent authority
- Personalized data representation and notifications for users need
EDM / EBB
Cloud-Based

- Easy Access (browser-based system)
- No local client installation necessary

- With a 4 star certificate by StarAudit as Trusted Cloud Services:
  - Central user and right management
  - Same quality standards throughout all applications and legal areas, e.g.
  - Data Security
  - Central Data Storage
  - Data Retention
  - Legal certainty
  - Scalability: e.g. user registrations or additional systems
  - High availability

- Data Security is essential, EDM was the 2nd cloud application of public administration in the world
- All users benefit at the same time from a State-of-the-Art technology.