

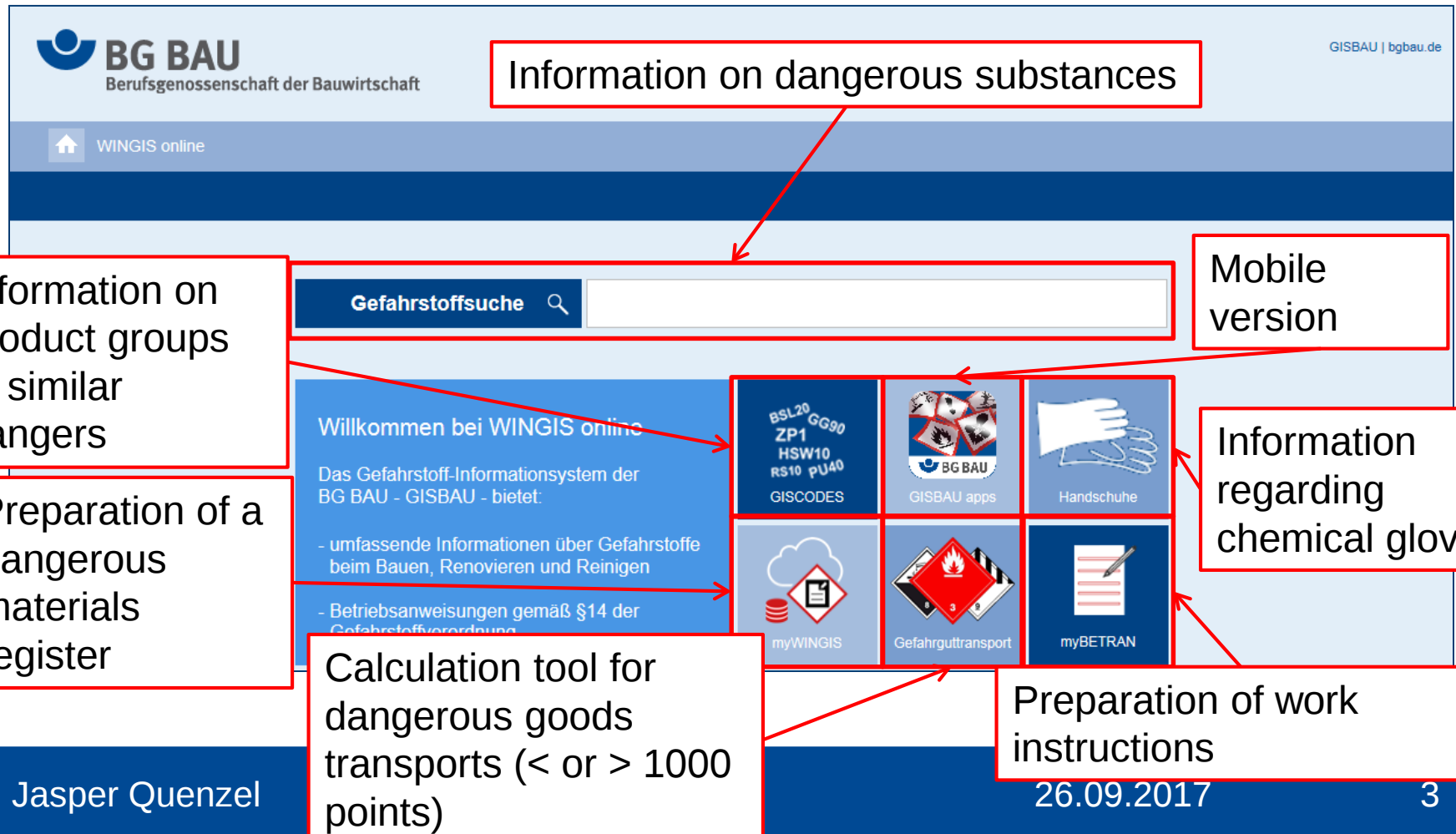
GISBAU e-tools

Jasper Quenzel

26.09.2017

All the
e-tools of GISBAU

WINGIS



The screenshot shows the WINGIS online portal interface. At the top left is the BG BAU logo and the text 'Berufsgenossenschaft der Bauwirtschaft'. To the right is the URL 'GISBAU | bgbau.de'. Below the header is a navigation bar with a home icon and 'WINGIS online'. The main content area features a search bar labeled 'Gefahrstoffsuche' with a magnifying glass icon. Below the search bar is a grid of six tiles: 'Willkommen bei WINGIS online', 'GISBAU apps', 'Handschuhe', 'myWINGIS', 'Gefahrguttransport', and 'myBETRAN'. Red arrows point from text boxes to specific elements: 'Information on dangerous substances' points to the search bar; 'Information on product groups of similar dangers' points to the 'Willkommen bei WINGIS online' tile; 'Preparation of a dangerous materials register' points to the 'Willkommen bei WINGIS online' tile; 'Calculation tool for dangerous goods transports (< or > 1000 points)' points to the 'Gefahrguttransport' tile; 'Mobile version' points to the 'GISBAU apps' tile; 'Information regarding chemical gloves' points to the 'Handschuhe' tile; and 'Preparation of work instructions' points to the 'myBETRAN' tile.

BG BAU
Berufsgenossenschaft der Bauwirtschaft

GISBAU | bgbau.de

WINGIS online

Gefahrstoffsuche 🔍

Willkommen bei WINGIS online

Das Gefahrstoff-Informationssystem der BG BAU - GISBAU - bietet:

- umfassende Informationen über Gefahrstoffe beim Bauen, Renovieren und Reinigen
- Betriebsanweisungen gemäß §14 der Gefahrstoffverordnung

GISBAU apps

Handschuhe

myWINGIS

Gefahrguttransport

myBETRAN

Information on dangerous substances

Information on product groups of similar dangers

Preparation of a dangerous materials register

Calculation tool for dangerous goods transports (< or > 1000 points)

Mobile version

Information regarding chemical gloves

Preparation of work instructions

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26.09.2017

3

Most importantly: Gefahrstoffsuche

- General information on hazardous products and substances (German and English)
- Work instructions (16 languages)
- Risk assessment templates
- Prepared by experts
- Backed up by measurements!
- Grouping of products into so called GISCODES
- Local installation, online and mobile tools

The project

Sector-specific pool of safety data sheets - *as PDF*



GefKomm – sector-specific solution

Involvement of all stakeholders

Concerted **optimizing** of the hazardous materials communication



Efficient and legally compliant solution for:

- Sector-specific adapted transmission of SDS
- Appropriate updating
- **Central archiving** of SDS
- Transmitting **user-friendly** and **understandable** GISBAU-information





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Use of data from the safety data sheet (SDS)



Operating instructions



Transport document



Label



Hazardous Material Register



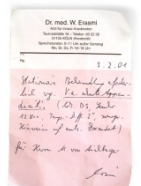
Logistics ERP



Waste management



Environmental protection



Project: SDBtransfer

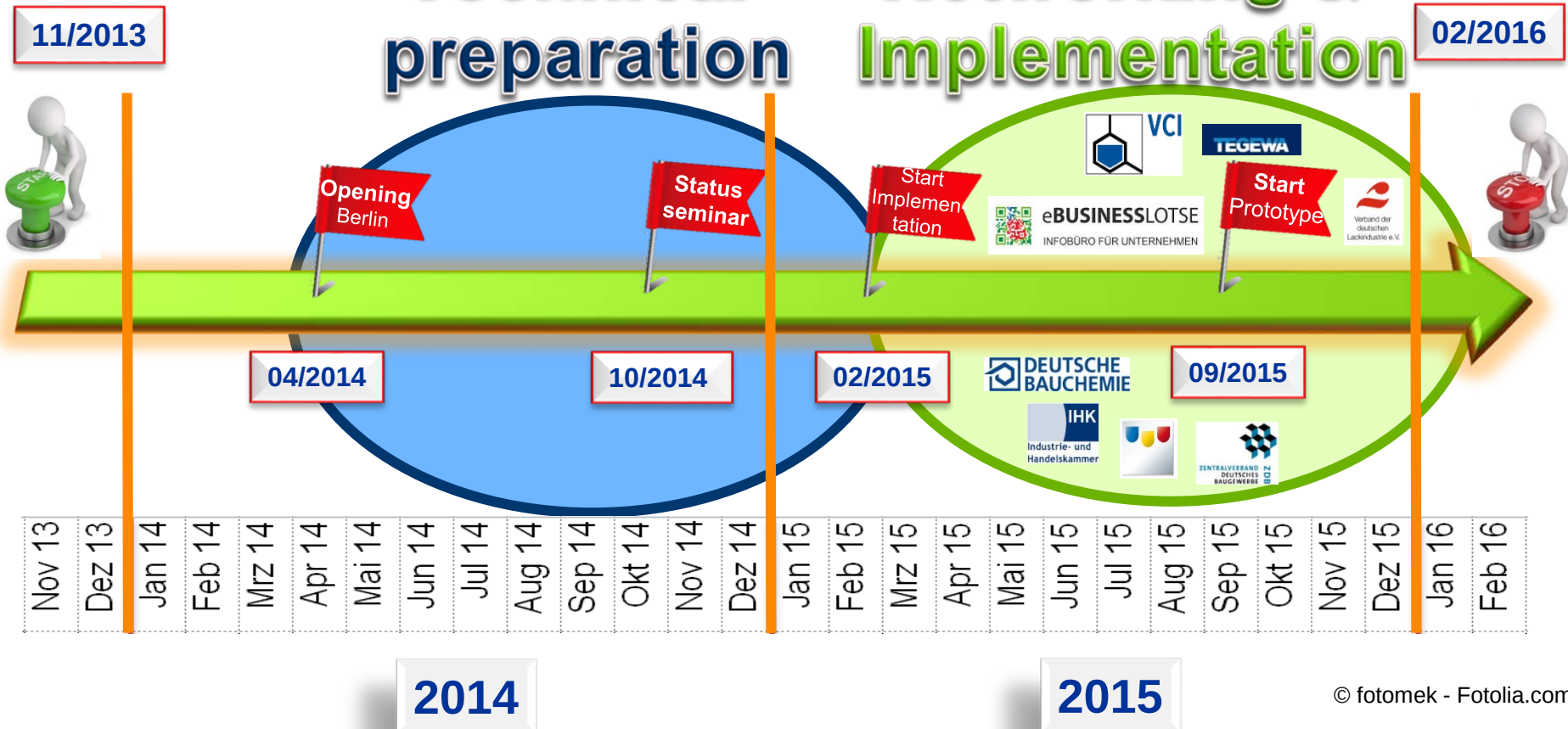
- Establishing an electronic exchange format for the content of safety data sheets



Timeline

Technical preparation

Networking & Implementation



Preparation

- **Technical prerequisites:**
 - Partially established format EDAS 
 - New format SDScomXML 
- **Subset definition**
 - SDScomXML^{Bau} → target recipients: BG BAU and end users
 - SDScomXML^{Chem} → target recipients: formulators

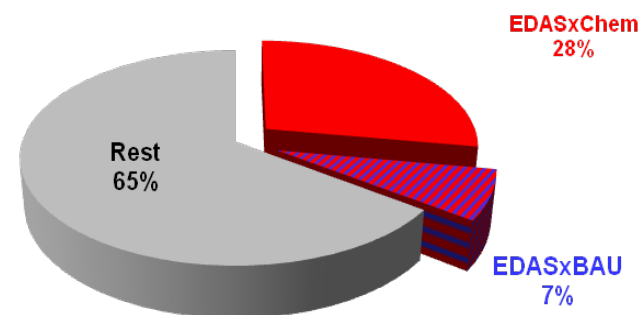
Electronic exchange format for SDS

Section of the SDS	SDScomXML ^{Bau}	SDScomXML ^{Chem}
1. Identification	X	X
2. Hazard identification	X	X
3. Composition	X	X
4. First aid measures		X
5. Firefighting measures		X
6. Accidental release measures		
7. Handling and storage	X	X
8. Exposure controls/personal protection		X
9. Physical and chemical properties	X	X
10. Stability and reactivity		X
11. Toxicological information		X
12. Ecological information		X
13. Disposal considerations	X	X
14. Transport information	X	X
15. Regulatory information	X	X
16. Other information		

To represent the whole SDS with its 16 sections SDScomXML has

1692 data fields

(2190 elements)



Amount of SDScomXML fields:

127

478

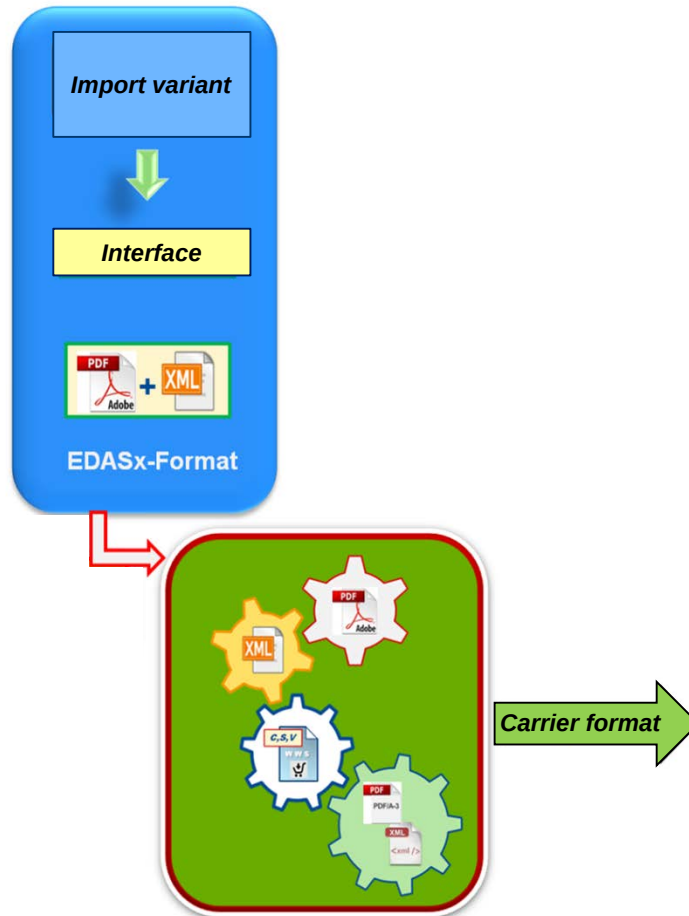
Software used for the preparation of safety data sheets



No
standard
exchange
format

Source: BAuA 06/2016

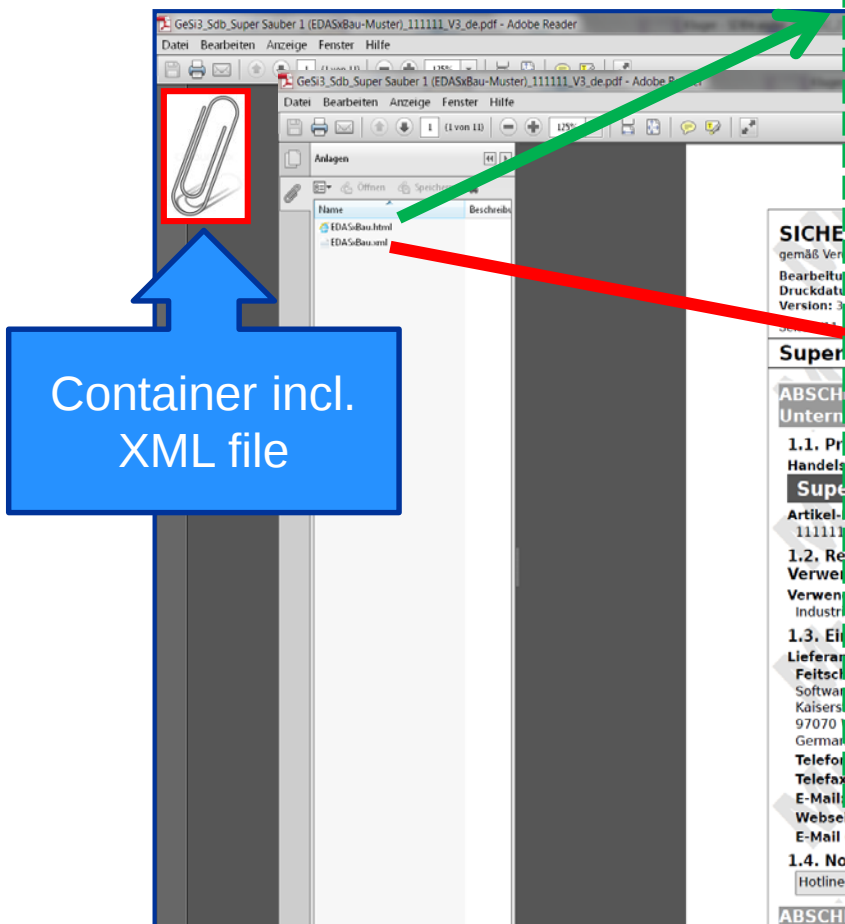
Carrier format for data exchange



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EDASxBau in PDF/A-3

View with using a Style-Sheet



Container incl. XML file

Gefährliche Inhaltsstoffe

CAS-Nr.	EG-Nr.	Index-Nr.	Nr.	Bezeichnung
64-17-5	200-578-6			Ethanol
1310-73-2	215-185-5			Natriumhydroxid
107-98-2	203-539-1			1-Methoxy-2-propanol
93348-05-1	297-144-1			Asparagus adscendens, Extrakt

CAS-Nr.	Bezeichnung	[%wt]	Einstufung gemäß 67/548/EWG
64-17-5	Ethanol	60.0	F R11
1310-73-2	Natriumhydroxid	0.5	
107-98-2	1-Methoxy-2-propanol	3.0	
93348-05-1	Asparagus adscendens, Extrakt	0.5	

CAS-Nr.	Bezeichnung	[%wt]	Einstufung gemäß Verordnung (EG) Nr. 1272/2008[CLP/GHS]
64-17-5	Ethanol	60.0	Flam. Liq. 2 H225
1310-73-2	Natriumhydroxid	0.5	
107-98-2	1-Methoxy-2-propanol	3.0	Flam. Liq. 3 H226 STOT SE 3 H336
93348-05-1	Asparagus adscendens, Extrakt	0.5	

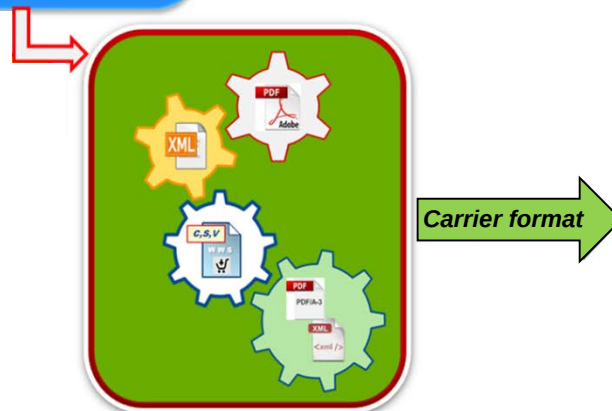
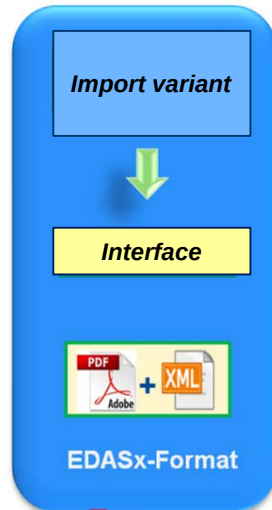
REACH

CAS-Nr.	Bezeichnung	REACH-Registriernr.
64-17-5	Ethanol	01-2119457610-43-XXXX
1310-73-2	Natriumhydroxid	01-2119457892-27-XXXX
107-98-2	1-Methoxy-2-propanol	01-2119457435-35-XXXX
93348-05-1	Asparagus adscendens, Extrakt	

SICHER
gemäß Ver
Bearbeitu
Druckdatu
Version: 3
Super
ABSCH
Unter
1.1. Pr
Handel
Super
Artikel:
111111
1.2. Re
Verwe
Verwen
Industr
1.3. Ei
Lieferan
Feitsch
Softwa
Kaisers
97070
German
Telefon
Telefax
E-Mail:
Webseite: www.gesit-hoch3.de
E-Mail (fachkundige Person): Frau Feitsch
1.4. Notrufnummer
Hotline: 0931/465 33-00, 24h: 0931/465 33-00
ABSCHNITT 2: Mögliche Gefahren

<PostCountry>Germany</PostCountry>
</Address>
<Phone>0931 465 33 00</Phone>
<Fax>0931 465 33 00</Fax>
file:///C:/Users/U24kgn/AppData/Local/Temp/A9RD8DE.tmp/EDASxBau.xml#

Carrier format for data exchange



PDF + intelligent Container

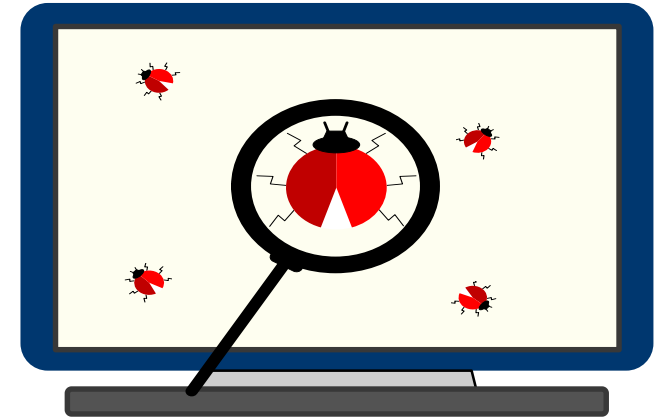
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Thanks to the companies ...



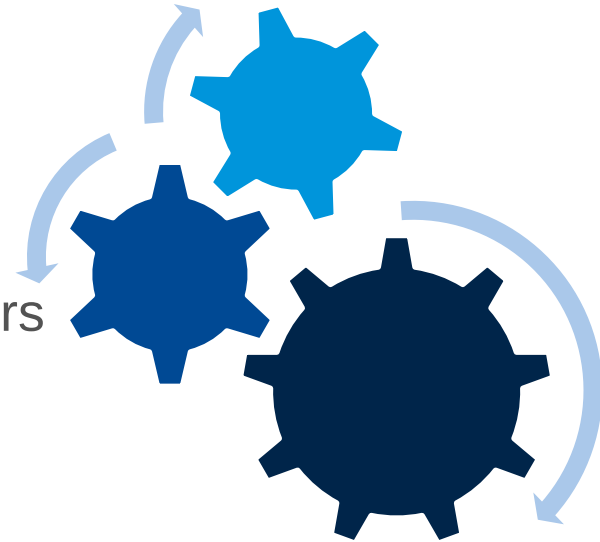
Piloting / Testing (EDASxBAU)

- **First stage:**
 - By the software developer
- **Second stage:**
 - Mainly by the BG BAU (GISBAU)
 - Some testing by other project partners
- **Third stage:**
 - By pilot users
- **Maintenance**



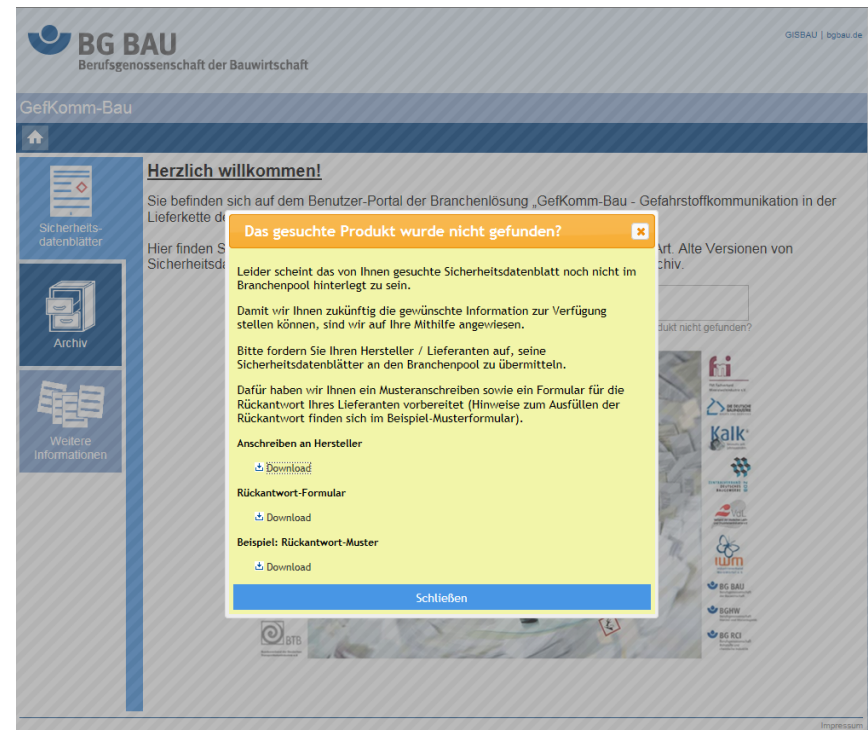
Maintenance

- **SDScomXML steering committee**
 - International committee of different stakeholders
 - Decides about general direction
 - Open to everybody
- **Github** (<https://github.com/esdscom/sdscom-xml>)
 - Technical maintenance
 - Open to everybody
 - New releases about twice a year (mostly backward compatible)



Dissemination / Promotion

- Exhibitions
- Trade journals
- Workshops
 - Software companies
 - Manufacturer of chemicals
 - Trade guilds
- Indirectly in our software products



First impressions

- BG BAU has **imported** about **800** PDF/A-3 with SDScomXML^{Bau} files
- Multiple requests by **manufacturers**
- Multiple requests by **software developers** and **consultants**
- **BUT:** Some companies are still not convinced
 - Fear that business secrets might get revealed
 - Export only costs money and has no positive effect

Take Home Message

- SDBtransfer was a **success**
- **Technological foundation** is established
- **Transferability** to different sectors is given
- Sceptics need to be **convinced**
- **Downstream users / end users have to ask for the data or else nobody will provide the data**