

SDBtransfer

Development of a demonstration for digital transfer of safety data sheets along the supply chain



Berlin, 27. February 2015

Norbert Kluger
BG BAU

The challenge

Hazardous materials in the construction industry



Berlin, 25. February 2015

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To protect worker's health ...



...various regulations
have to be taken into
account when using
hazardous materials!

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Companies in the construction industry in Germany

545.379 Commercial companies



2.714.58 Insured persons (employees)



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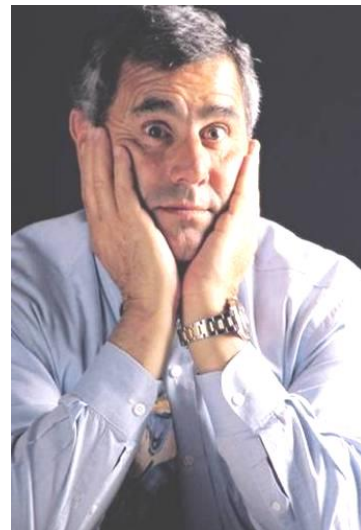
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Risk assessment while using hazardous materials



Difficult and demanding task



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Sector-specific solution for the construction industry

- Berufsgenossenschaft der Bauwirtschaft - BG BAU
- Building up an information system - **GISBAU**
- Sector-specific out-of-house support
- Service facility in the hazardous materials management

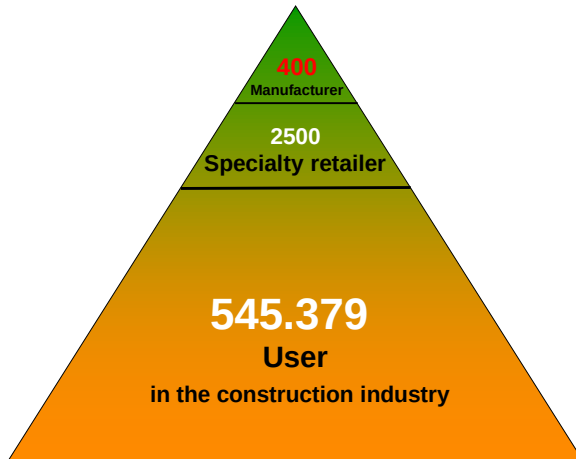


WINGIS-App for Smartphones ...



www.wingismobile.de

Communication in the supply chain



• In duty to deliver SDS

• In duty to deliver SDS

- 10 years archiving
- Providing for workers
- Risk assessment
- Control guidance sheets

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Communication ...



... in the supply chain

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GefKomm – sector-specific solution

- **Involvement** of all stakeholders
- Concerted **optimising** of the hazardous materials communication



Efficient and legally compliant solution for:

- Sector-specific adapted transmission of SDS
- Appropriate updating
- **Central archiving of SDS for 10 years**
- Transmitting **user-friendly** and **understandable** GISBAU-information

Stakeholders of the sector-specific solution (*steering committee*)



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



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Where is the data – of the safety data sheet?



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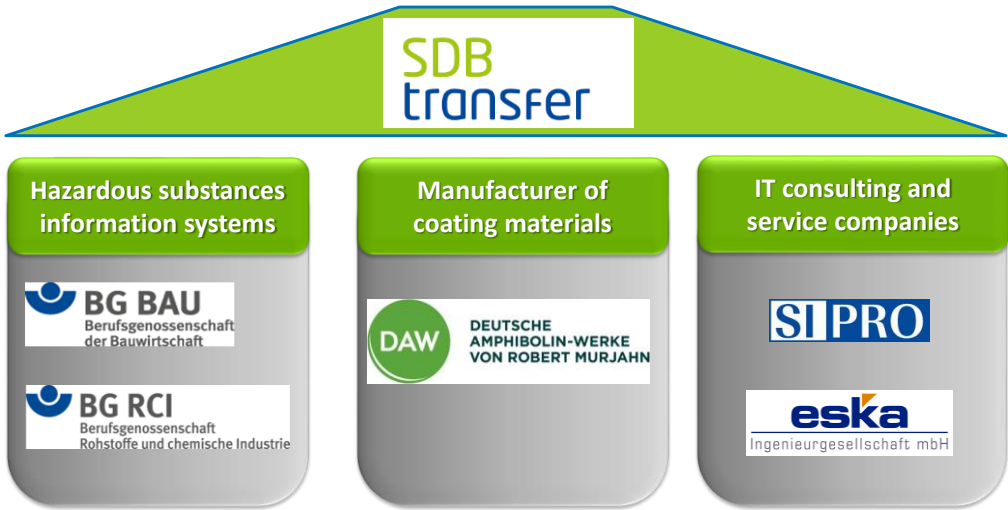
The project



Mittelstand-Digital



Project members



Project team



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SDB transfer

The **16** sections of the safety data sheet

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 Bundesministerium
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und Energie
aufgrund eines Beschlusses
des Deutschen Bundestages



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The realisation



Standardise business process - (interchange format)



Media break
i.e. change of medium within a process chain



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Software for the compilation of safety data sheets



No
Standard-
 interchange
 format yet

Quelle: BAuA 02/2014

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Electronic interchange formats for SDSs

Section of the SDS	EDASxBau	EDASxChem
1. Product identifier	X	X
2. Hazards identification	X	X
3. Composition/information on ingredients	X	X
4. First aid measures		X
5. Fire-fighting measures		X
6. Accidental release measures		X
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		

Amount of SDScomXML fields:

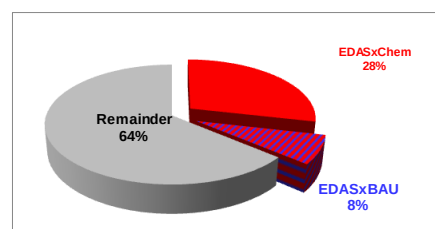
127

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The whole data volume of the
 SDScomXML format for all 16
 sections contains

1672 data fields

(2190 elements)



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Review IT workshop for developers of SDS software (08.07.2014)



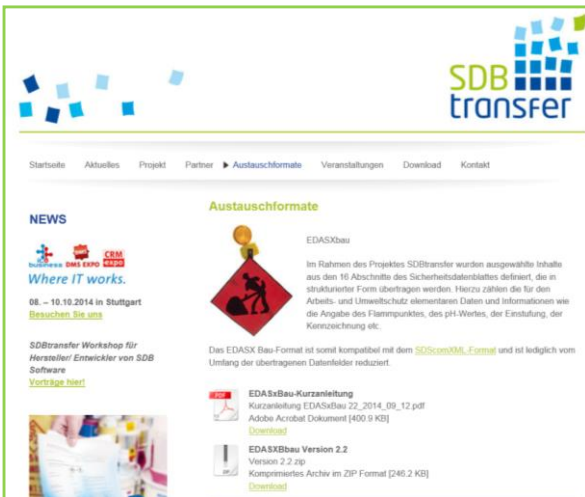


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Information pack concerning EDASxBau Version 2.2



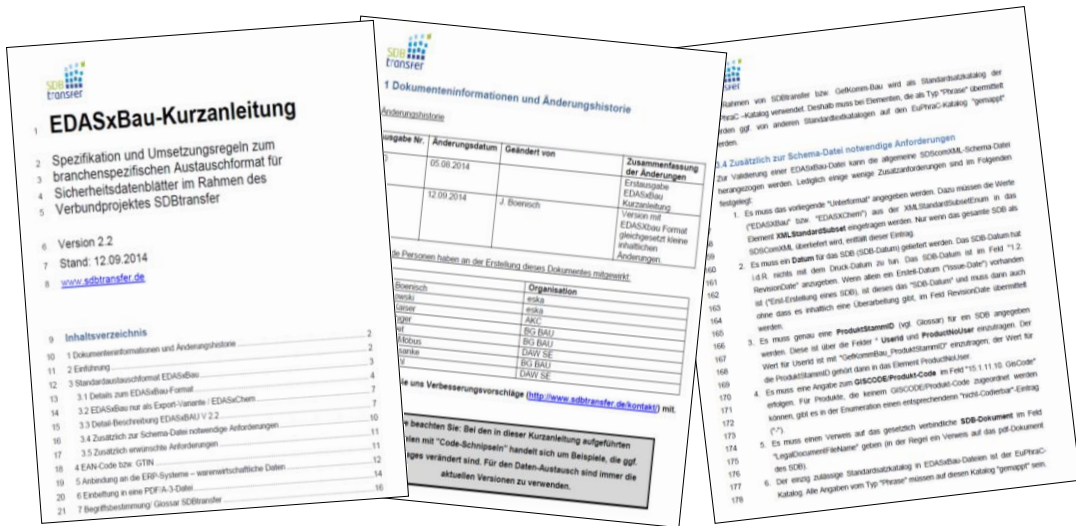
Up to date
information pack
since **22.09.2014**
on the project website

1. Kurzanleitung
2. Excel-Datei (*Feldübersicht*)
3. Beispieldatei
4. Stylesheet
5. Anleitung (*Umgang mit Stylesheet*)
6. XML-Schemadateien

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EDASxBau – support for the implementation

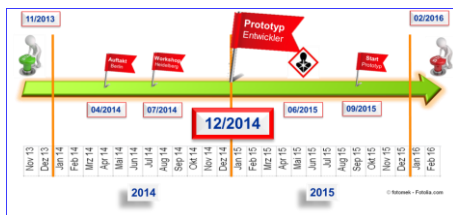


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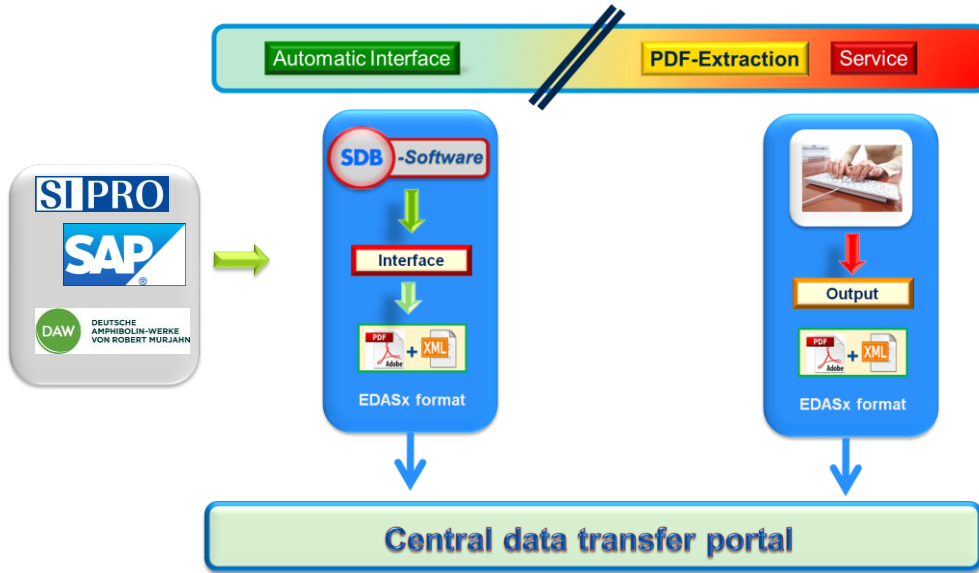
Implementation of the EDASxBau interface:

Contracts in sub-project BG BAU:



Joint project SDBtransfer:



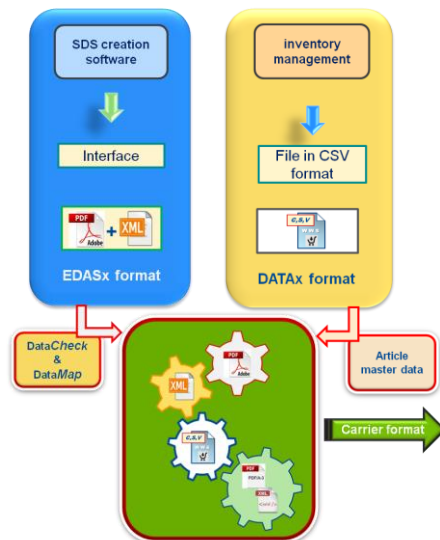


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Import – data service

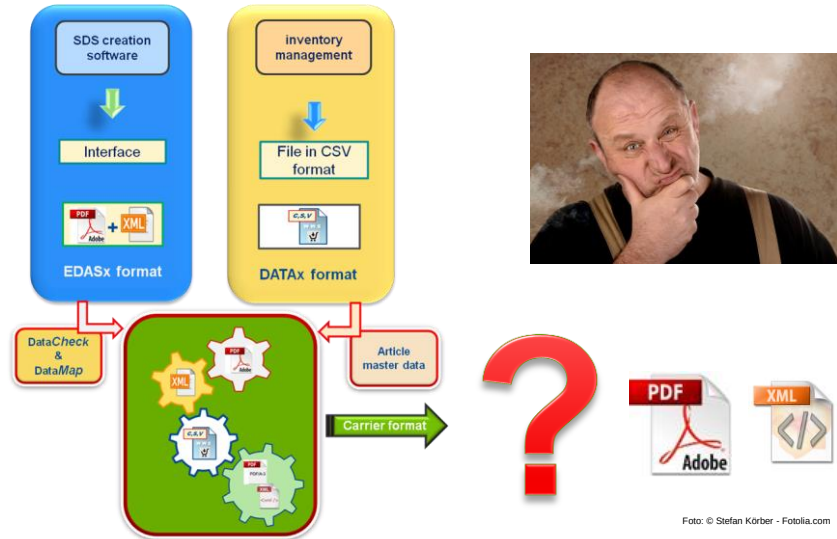


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Decision: Possible carrier format



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Experience of other projects in the funding initiative

E'DOCS *solution = PDF plus data record*

- Usage of **Established transmission systems**; i.e. e-mail
- Participation of **small companies** possible
- **No extra fee requiring configuration** of a PC
- **Without prior adjustments** of sender and receiver
- **Converter**: Preparation of the data file at the receiver



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EDASxBau in PDF/A-3

Attachement XML-Data

Gefährliche Inhaltsstoffe

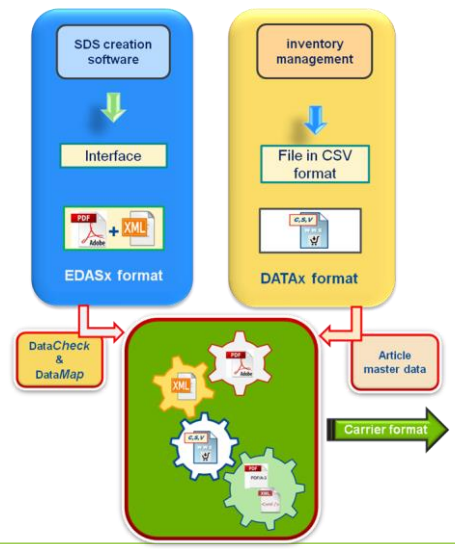
CAS-Nr.	EG-Nr.	Index-Nr.	Bezeichnung
64-17-5	200-578-6		Ethanol
1310-73-2	215-185-5		Natriumhydroxid
107-98-2	203-539-1		1-Methoxy-2-propanol
93348-05-1	297-144-1		Asparagus adscendens, Extrakt

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	



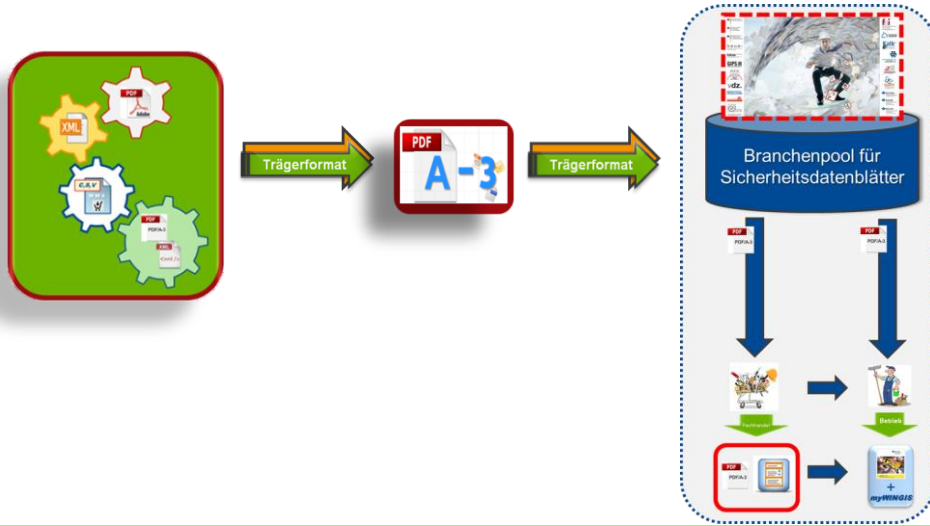
Decision for the carrier format PDF/A-3



PDF + smart container

Foto: © Stefan Körber - Fotolia.com

Via carrier format into the sector-specific SDS pool

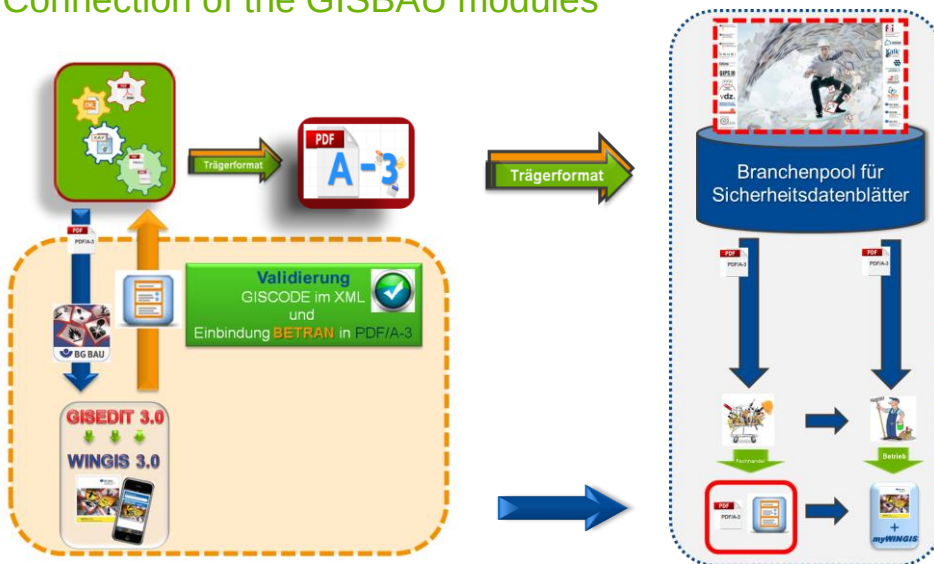


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Connection of the GISBAU modules



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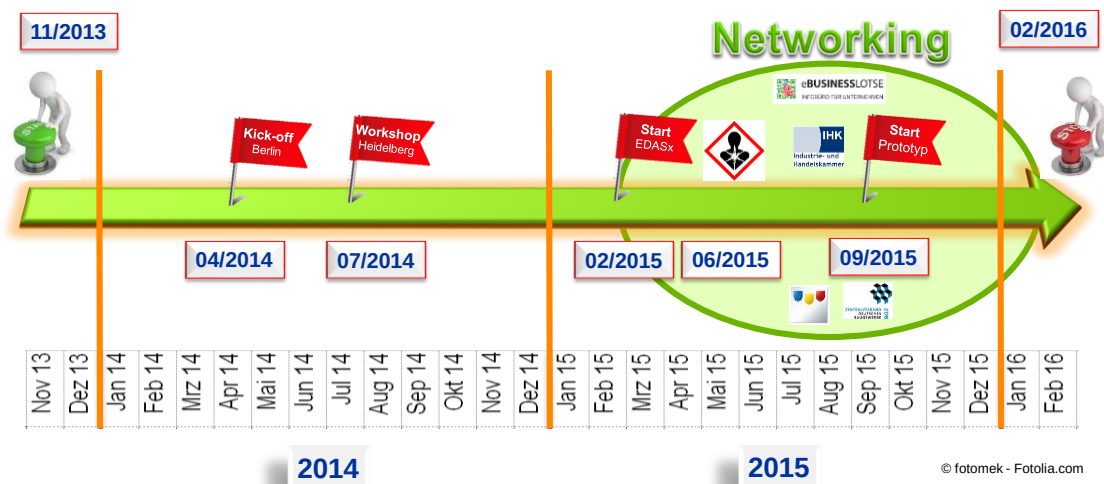
The Outlook



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für Wirtschaft
und Energie
aufgrund eines Beschlusses
des Deutschen Bundestages

Project – time frame



Thank you very much
for your attention!

www.GISBAU.de