



# ONLINE-CONTROL OF HAZARDOUS WASTE TRANSPORTS ON THE ROAD WITH IPA-KON

HEGEMANN M.\*\* , BECKER C.\* , KOß K.-D.\* , OBERDÖRFER M.\*

*\*State Agency for Nature, Environment and Consumer Protection North Rhine-Westphalia; Germany*

*\*\*Tauw GmbH Moers; Germany*



# Contents

1. The German waste control procedure
2. IPA-KON
3. The European perspective: EUDIN
4. Summary



# 1. The German waste control procedure

- Before transport:  
“waste disposal record” ≙ notification document  
(valid 5 years)
  - cover sheet
  - declaration of responsibility (incl. declaration analysis)
  - declaration of acceptance
  - official confirmation or objection
  
- Transport:  
“consignment note” ≙ movement document  
6 copies

# 1. The German waste control procedure

Stakeholders involved in the waste control procedure:

- Waste producer
- Waste transporter
- Waste management facility
- Competent authority for waste producer
- Competent authority for waste management facility



# 1. The electronic control procedure

Necessity of an electronic procedure in Germany :

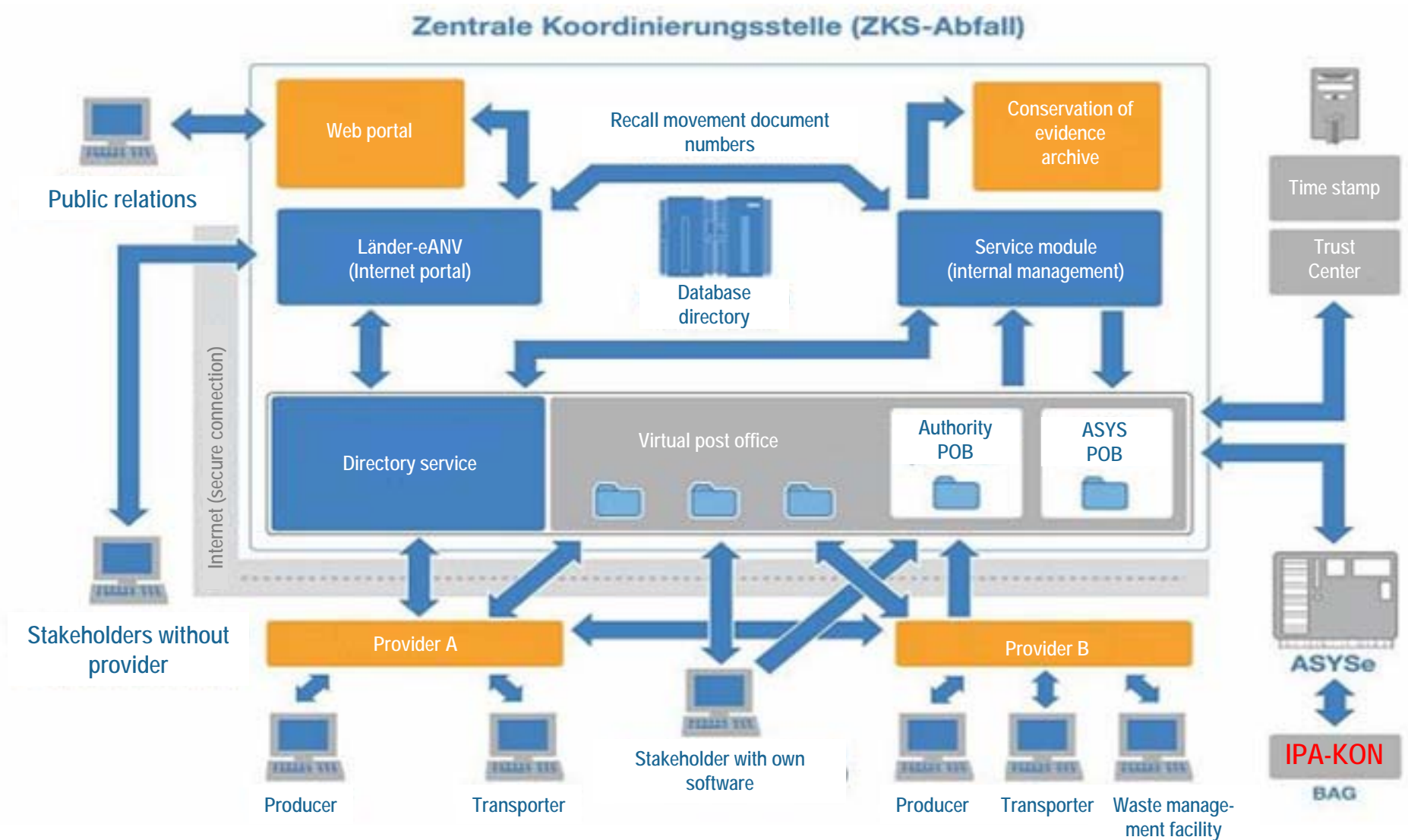
- 19 Mio t hazardous waste in 2008
- 50,000 companies involved in control procedure
- 260 authorities involved in control procedure
- 100,000 waste disposal records annually
- 2,5 Mio hazardous waste movements annually



# 1. The electronic control procedure

- Legal basis:  
German Ordinance on Waste Recovery and Disposal  
Records from 2006
- Competence for waste management belongs to the 16 Länder
- GADSYS: Agreement of the 16 Länder to co-operate in order to use the same IT-system
- One common software (ASYS) utilized by the competent authorities but 16 databases
- Communication between authorities and all the other stakeholders involved in the waste control procedure:  
ZKS  $\triangleq$  a hub with a common software  
but no central database!

# 1. The central coordinating office ZKS



# 1. The electronic control procedure

Necessary documents for a control of hazardous waste transports:

- Before 01.04.2010:
  - original movement document in paper
  - copy of waste disposal record in paper
  - ➔ The information of both documents have to match
- After 01.04.2010:
  - The transporter has to show the content of the movement document to the inspector, in paper or in electronic format
  - ➔ The inspector has to compare this information with the electronically stored waste disposal record





## 2. IPA-KON

- Until the end of 2008 there was no idea how to solve the problem of waste transport controls on the road
- The North Rhine-Westfalian State Agency LANUV proposed a simple and secure electronic solution based on the experience with web applications in the field of waste management
- The project has been financed by the German Ministry of the Interior and started 2009
- In autumn 2009 during a pilot phase IPA-KON proved to work
- In March 2010 IPA-KON was ready to be implemented

## 2. The IPA-KON family

- ★ Federal Office for Goods Transports (BAG)
- ★ Office for the Coordination of Waste Information (IKA)
- ★ Federal Ministry of the Interior
- ★ Tauw GmbH
- ★ Consist ITU Environmental Software
- ★ State Agency for Nature, Environment and Consumer Protection of the Land North Rhine-Westfalia

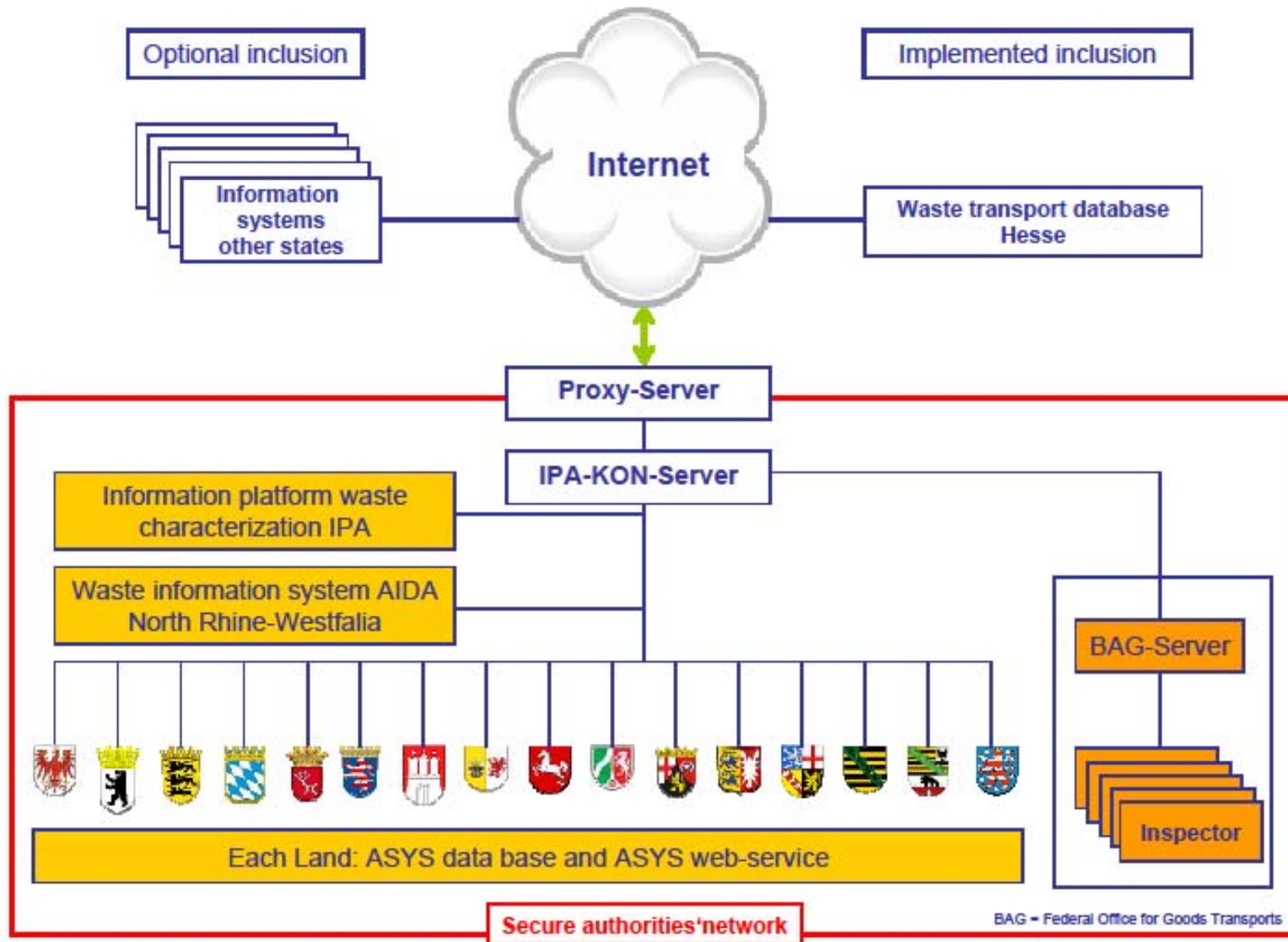


## 2. IPA-KON

- The waste inspector has to have a secure access to the electronically stored information
  - ➔ no CD, USB mass storage device ...
- It was considered not to be sensible to demand from all hazardous waste transporters special electronic equipment in order to store and show the electronic information
- The basic idea of IPA-KON:
  - the inspector has a laptop with UMTS access
  - information exchange only within the secure authority network
  - access to the electronically stored waste disposal record via web service to one of the 16 ASYS databases



## 2. The IT-concept of IPA-KON



## 2. The main search mask of IPA-KON

Suchkriterium:  
Entsorgungsnachweis

**Search:**

- waste disposal record
- waste management facility
- waste producer
- waste type
- contact person at competent authority



| Entsorgungsnachweis oder Sammelentsorgungsnachweis suchen |              | Suchergebnisse                                                                                                                                     |                                             |
|-----------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Nachweisnummer                                            | ena030000500 | Laufzeit: 20.12.2005 - 19.12.2010                                                                                                                  | <a href="#">Weitere Daten zum Nachweis</a>  |
| Entsorger                                                 | A03H00510    | REMONDIS Industrie Service GmbH & Co. KG<br>Steinruckerstraße 10<br>23556 Lübeck                                                                   | <a href="#">Weitere Daten zum Entsorger</a> |
| Erzeuger                                                  | A43000089    | Schiffbau Harry Carstensen AG<br>Am Deich 12-12<br>25541 Brunsbüttel, Stadt                                                                        | <a href="#">Weitere Daten zum Erzeuger</a>  |
| Abfallschlüssel                                           | 150202       | * Aufsaug- und Filtermaterialien (einschließlich Ölfiler a. n. g.), Wischtücher und Schutzkleidung, die durch gefährliche Stoffe verunreinigt sind | <a href="#">Abfallbeschreibung</a>          |

Suche starten    Zurücksetzen



## 2. The waste transport database from Hesse

Abfall-Datenbank Hessen

 **Datenbank zur Einstufung von Abfällen für Transportkontrollen**  [Download](#) | [Impressum](#)

Abfrage | Liste | Hilfe | Info

blättern

**AVV-Abfallschlüssel**

**AVV-Abfallbezeichnung**

**Spiegeleintrag (AVV)**

**betriebsinterne Abfallbezeichnung**

**weitere Angaben zum Abfall**

**Konsistenz**


**Farbe**

**Geruch**

**Basel-Code**

**OECD-Code**

**EG-VO 1013/2006 (VVA)**





### 3. The European perspective: EUDIN

- Austria, Belgium, The Netherlands and Germany jointly elaborated an interface in order to create an electronic control system for transfrontier waste shipment
- In Germany the competent authorities can store the information of the notification procedure in the same database as for the national procedure (ASYS)
- Plan to extend IPA-KON in order to enable the waste inspectors on the road to control both national and international waste transports





## 4. Summary

- In Germany an effective control of hazardous waste transports is only possible with the help of an electronic control system
- IPA-KON enables the waste inspectors to compare the electronically stored information at the competent authority with the information provided by the transporter
- Problem 1 (solved):  
The financial support of IPA-KON by all 16 Länder
- Problem 2 (not yet solved):  
The proper functioning of the central coordinating office ZKS after April 2010
- Perspective: extension of IPA-KON to transfrontier shipment



---

# Thank You very much for your attention!



AIDA: [www.abfall-nrw.de](http://www.abfall-nrw.de)

IPA: [www.abfallbewertung.org](http://www.abfallbewertung.org)

Waste database Hesse: [www.hlug.de/medien/abfall/datenbank.html](http://www.hlug.de/medien/abfall/datenbank.html)

Contact: [michael.oberdoerfer@lanuv.nrw.de](mailto:michael.oberdoerfer@lanuv.nrw.de)

