



































AN INTEGRATED eGOVERNMENTAPPLICATION IN THE ENVIRONMENTAL
FIELD IN AUSTRIA

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## EDM - an Austrian Success Story

- An eGovernment application fully integrated into the comprehensive Austrian eGovernment system :
  - Replaces conventional paper-based records and reports (including applications submitted to the authorities) through efficient electronic data management in line with international standards in the environmental field
  - Single point of information concerning environmental data
  - Makes complex legal provisions manageable through menu guided processes, automated cross checks, and validation
- 23 applications online,45 000 registered
  - > 45.000 registered companies / persons,
  - > 17.000 locations,

- > 20.000 installations,
- > 800.000 messages per year,
- > 20 millions accesses per year













# EDM - legal background



### **APPLICATION SPECIFIC REGULATIONS**











# single sign-on EDM PORTAL

Interfaces to other important eGovernment registers

Companies, natural persons, statistics CRAFTS AND TRADE REGISTER

# persons, locations and installations CENTRAL MASTERDATA REGISTER



eLicence
eWaste-Balance
eHazardous Waste Transport
eWEEE
eCertificate

**WASTE REGISTER** 

person related licenses permits for installations

PERMIT REGISTER

Emission-Trading
eWater Emissions
eIncineration
EPRTR
EMISSION REGISTER

Radiation Source
RADIATION REGISTER











### **EDM PROGRAMM** and SUBPROJECTS



#### **MASTER DATA REGISTER**

EDM Waste Management		Environment
eWaste-Balance	eEnd-of-Life Vehicles	Emission Certificate Act
eShipment/EUDIN	eWEEE	Industrial emissions
eLandfill	ePackaging	ePRTR
elncineration	eBatteries	EMREG/ Surface Water
eCompost	Substitute fuels	ZDR/SQR
eConsignment note	eExpert Report	HFC/FC/SF6
ePermit		

Key Cross-Cutting Issues		
eGov. Integration	Usability	
Data protection	EDM user data	
Data security	communication/ notification	
roles and rights	Creation of documents	
Identification/ authentication	Data upload/ export	
Data requirement/ harmonisation	Intermediate storage	
Overall architec. of EDM	Template project	











## Objectives of EDM

- One-time manual input of data into the electronic system where the information is initially collected then only electronic transfer and processing
- Efficient and effective support of complex processes in the entire disposal chain
- Integrated set of applications designed to
  - promote lawful and environmentally sound waste management
  - ensure a uniform application of Austrian and European legislation in the environmental sector
  - make the many procedures involved in waste management and environmental protection in general more transparent











### Basic principles of EDM

- Electronic interchange of structured data using recognized message standards directly between IT applications with a minimum of human intervention
- Multisectoral data and message definitions
- International standardisation (UN/CEFACT)
- Utilisation of internationally unique, cross-sectoral identification system GS1 for all identifiable objects within EDM
  - Global Location Number for companies, locations, installations
  - Global Trade Item Number for types of services, treatment operations, wastes, ...
- Consideration already in draft legislation
  - Improved regulatory quality











### Master Data Maintainance





Benutzerln: Dipl.-Ing. Robert Kindermann

m Helpdesk Passwort ändern Abmelden





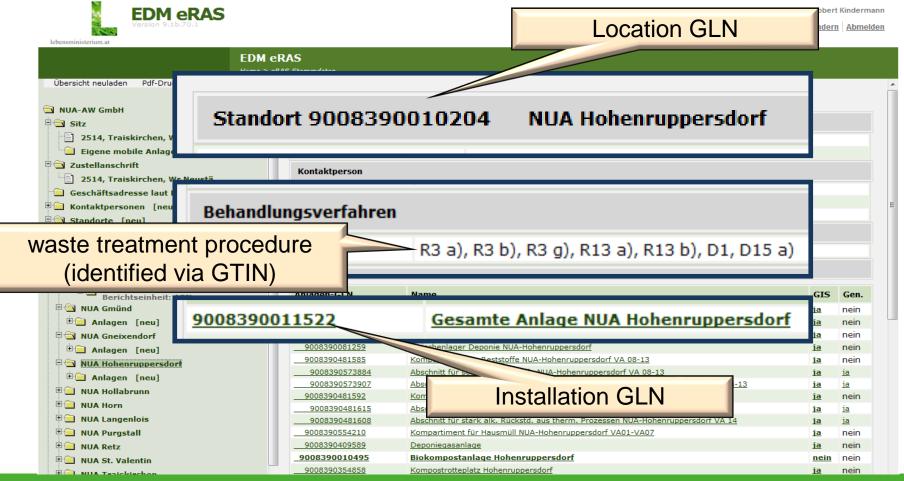








### Master Data Maintainance





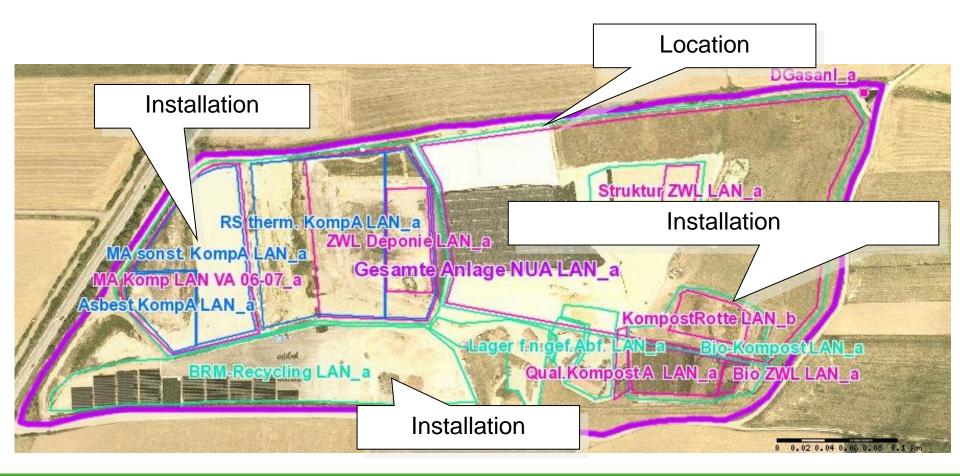








### Visualisation of Locations and Installations













# Permits: Company related / for Installations containing wastes types to be treated limit values (for input materials, emission to air and water)





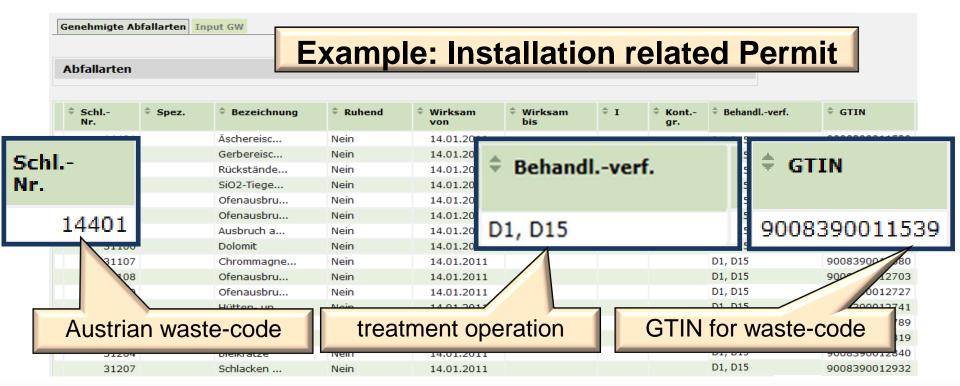








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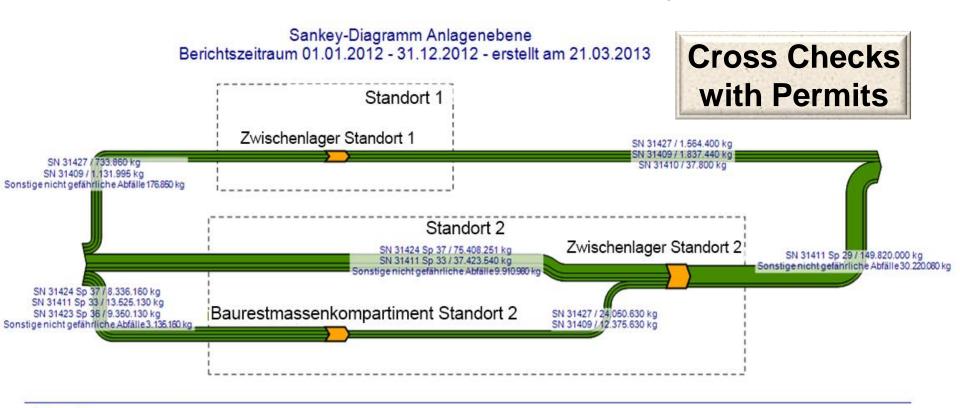








## eWaste-Balance: Sankey - Chart



#### Legende

SN 31409: Bauschutt (keine Baustellenabfälle) SN 31410: Straßenaufbruch SN 31411 Sp 29: Bodenaushub SN 31411 Sp 33: Bodenaushub SN 31423 Sp 36: ölverunreinigte Böden SN 31424 Sp 37: sonstige verunreinigte Böden SN 31427: Betonabbruch Sonstige nicht gefährliche Abfälle: Sonstige nicht gefährliche Abfälle



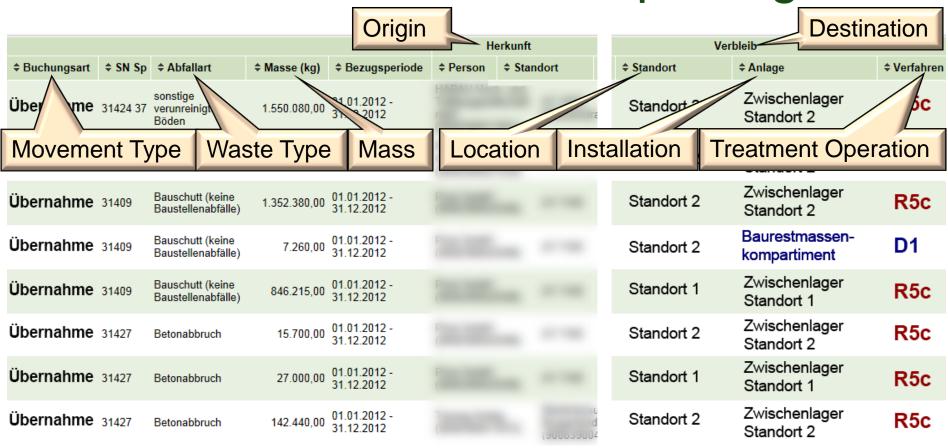








### eWaste-Balance: Reporting





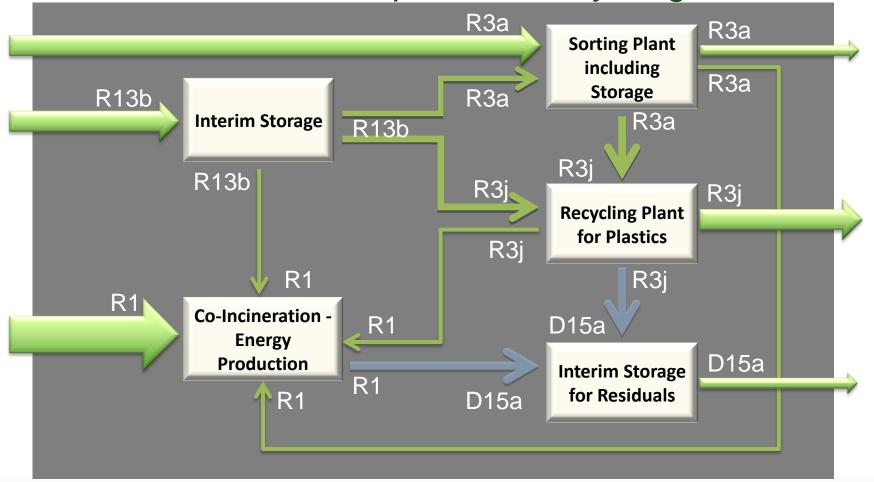








### eWaste-Balance: Example of a Recycling Location





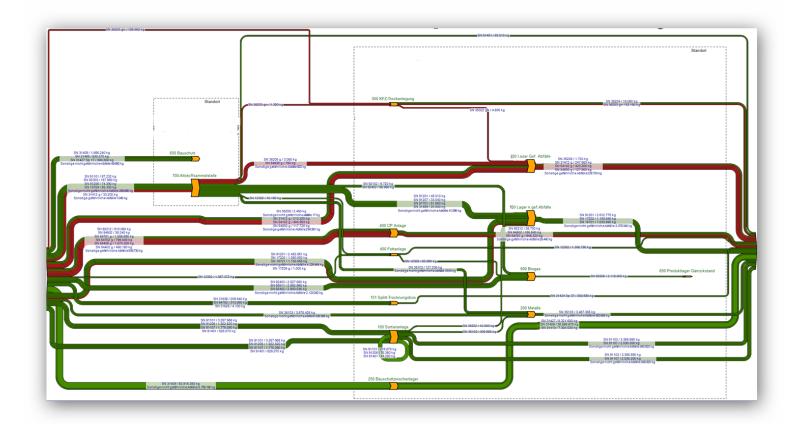








# eWaste-Balance: realistic Sankey













## Statistics Styria

# At the moment, the following data are available in EDM for the Federal State of Styria:

- Registered companies: ~ 6.400
- Locations: ~ 2.600
- Installations: ~ 2.500
- Landfill installations: ~ 210
- Producers of electric equipment: ~ 150











## Statistics Styria

- Collection sites of used electric equipment: ~ 500
- Producers of batteries: ~ 50
- Collection sites of batteries: ~ 500
- Producers of compost: ~ 70
- Reports according to European pollutant release and transfer register: ~ 350
- Waste balances of waste collecting or treatment companies: ~ 850
- Reports of transports of hazardous waste: ~ 1.016.000









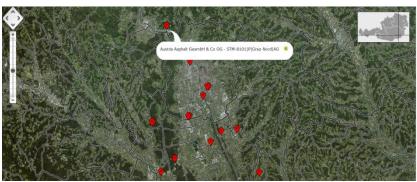


### Public Query for Waste Management Companies

Results displayed in addition in WebGIS View



In search results use the link: "Show entries of this page in WebGIS-Viewer "





































THANK YOU FOR YOUR ATTENTION!

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