

SAP EH&S Case Study: Brenntag Delivers an Optimized Global HSE Program

Dr. Elena Mayer

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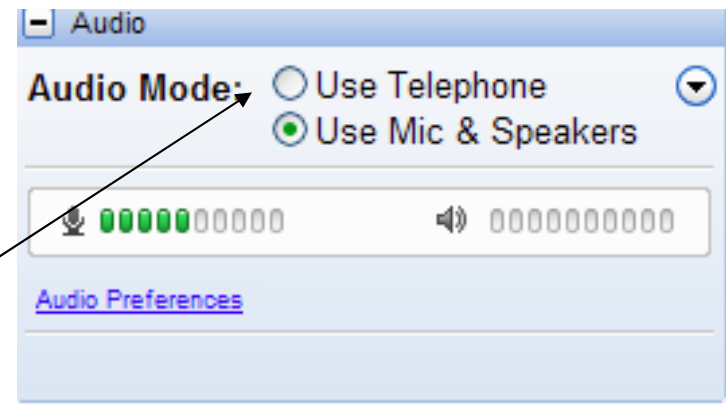
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Guest Speaker



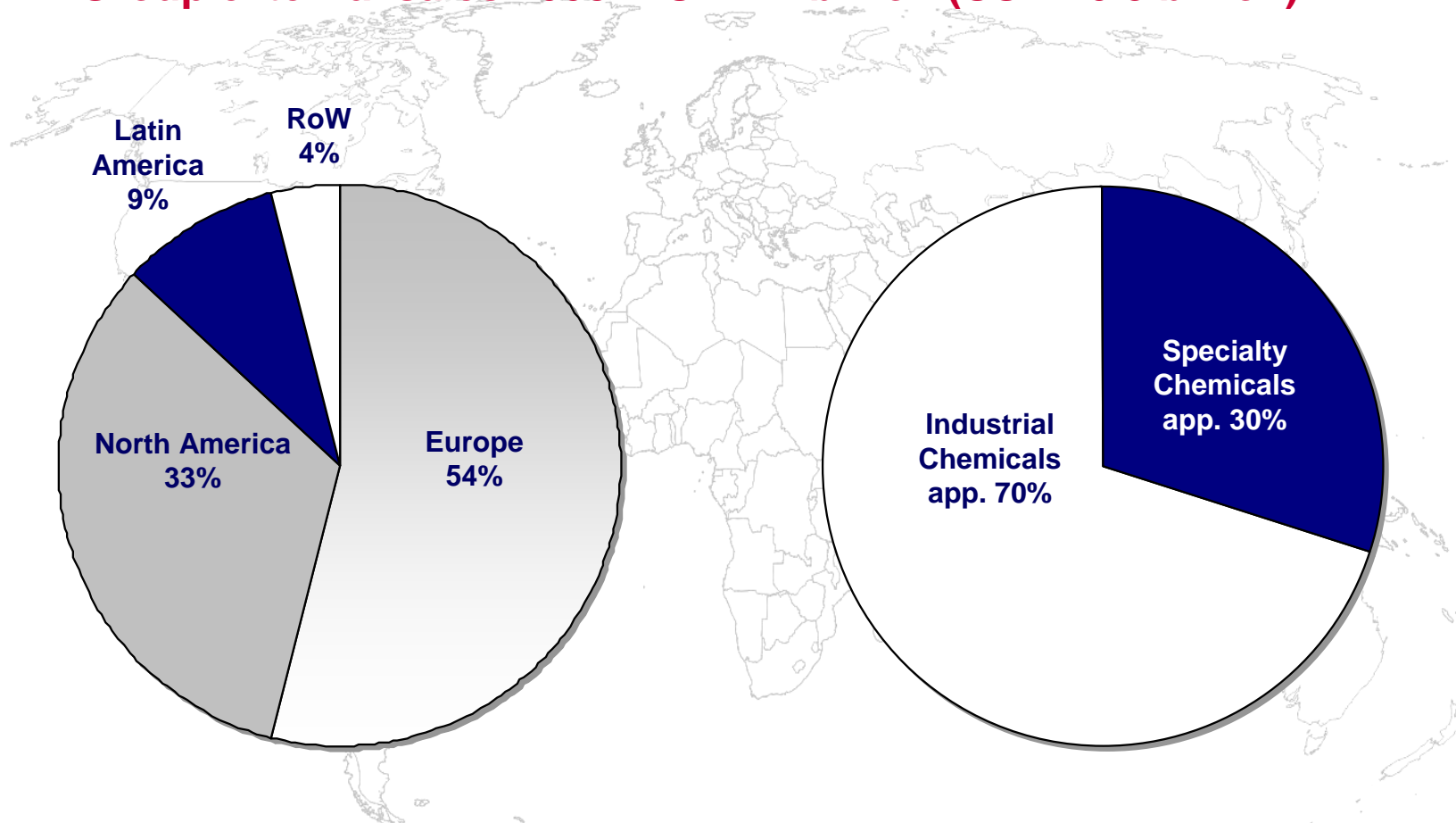
Elena Mayer

Master Data Administration

- Ariel regulatory content, phrase management, expert rules
- Maintenance of product safety and dangerous goods data in the EH&S system
- Background in transport of dangerous goods in ADR, RID, IMDG, chemical regulations, environmental, health & safety
- Contact: elena.mayer@brenntag.de

Brenntag is the leading global chemical distributor ...

Group external sales 2008: EUR 7.4 billion (USD 10.8 billion)



Over 165,000 customers

...and operates a broad global state-of-the-art network

North America

Position:	# 3
Sites:	120
Customers:	~ 40,000
Employees:	~ 3,500

Europe

Position:	# 1
Sites:	147
Customers:	~ 100,000
Employees:	~ 6,300

Latin America

Position:	# 1
Sites:	45
Customers:	~ 25,000
Employees:	~ 1,050

Asia / Pacific*

Sites:	18
Employees:	~ 200

More than 300 locations in 64 countries with over 11,000 employees

*Including acquisition of former Rhodia business

Brenntag is clearly committed to meet HSE standards

Brenntag`s HSE principles



Health, safety and environmental protection, are all paramount for Brenntag and for preserving natural resources for the long-term. If it cannot be done safely, Brenntag will not undertake it.



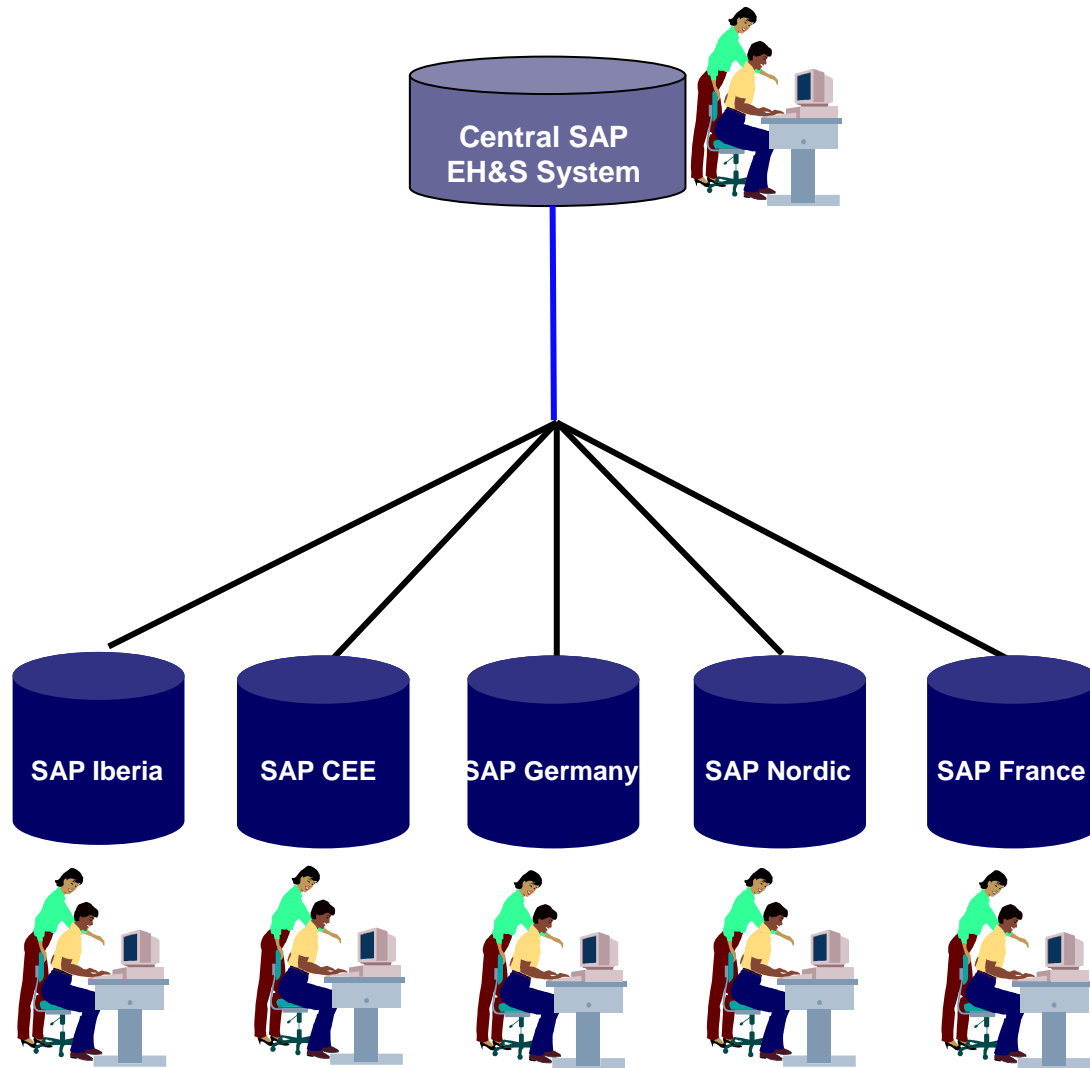
In recognition of the Responsible Care / Responsible Distribution program of the International Council of Chemical Trade Associations, Brenntag affirms its commitment to sustainable development and to the eight guiding principles outlined in this worldwide initiative.



As a global company with more than 300 locations worldwide, Brenntag is conscious of its obligation towards the health and safety of its employees and the environment.

These principles are enforced by policies which ensure compliance to the highest standards of safety, product stewardship, care for the environment and quality.

Brenntag SAP EH&S concept of data sharing



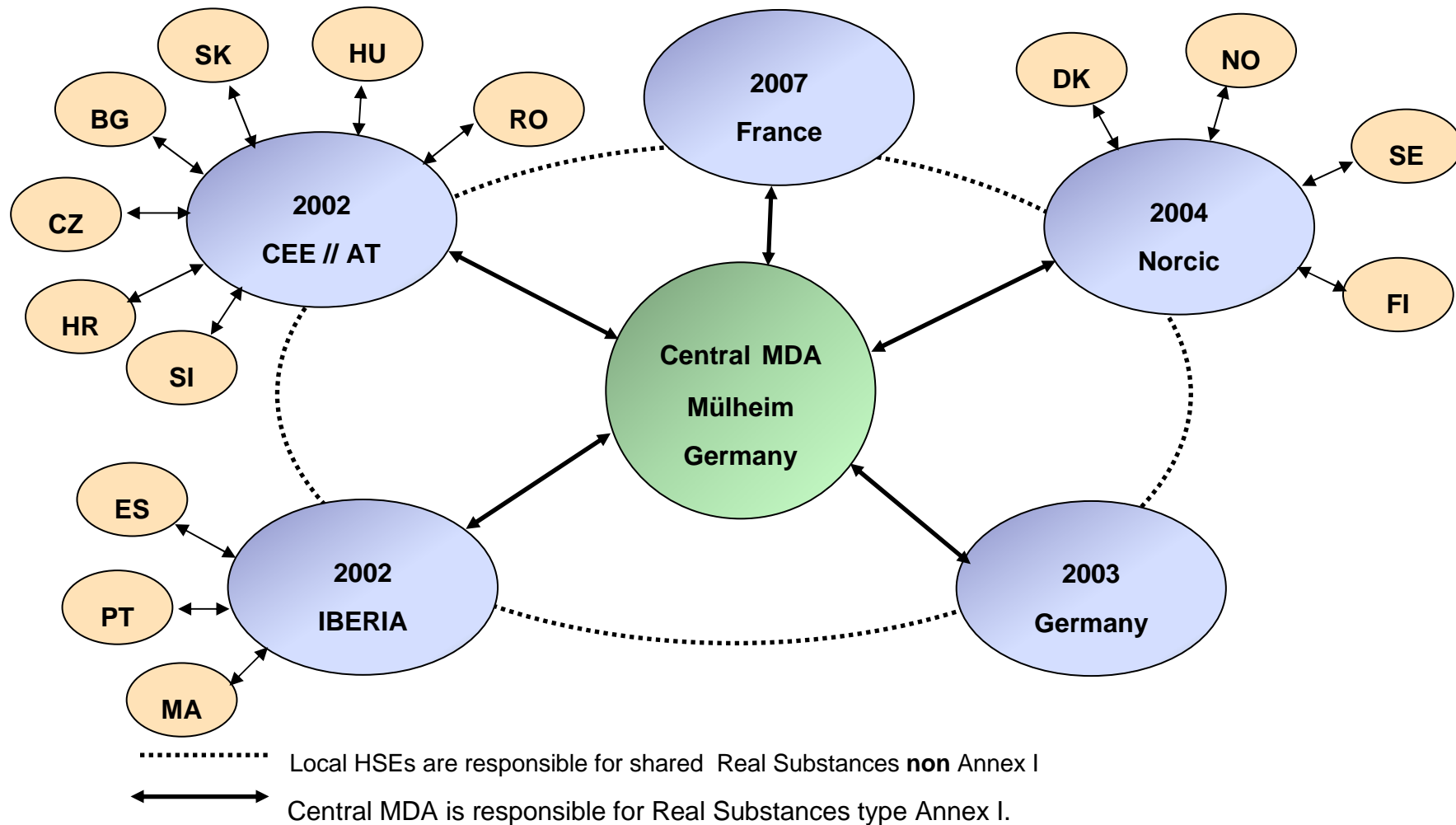
Central EH&S:

All data concerning product safety and dangerous goods are maintained by local and central HSE staff in the central system. Non critical processes (e.g. MSDS sending) are operated by central system.

Local EH&S:

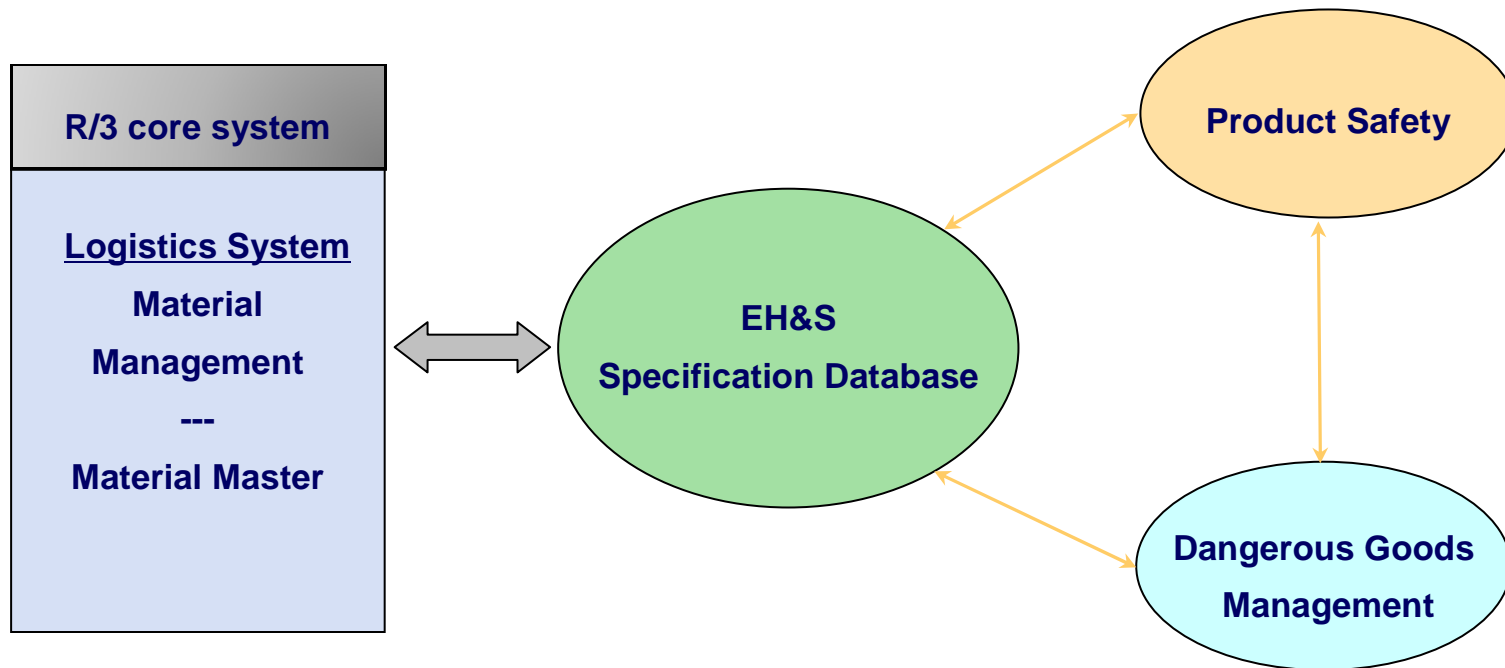
All business critical information (e.g. dangerous goods master data) are transferred into the local system and integrated in the respective business processes.

Brenntag Regions and Countries



SAP EH&S Integration into R/3 Landscape

EH&S system is completely integrated into the R/3 core logistics system



EH&S Product Safety and Dangerous Goods Management

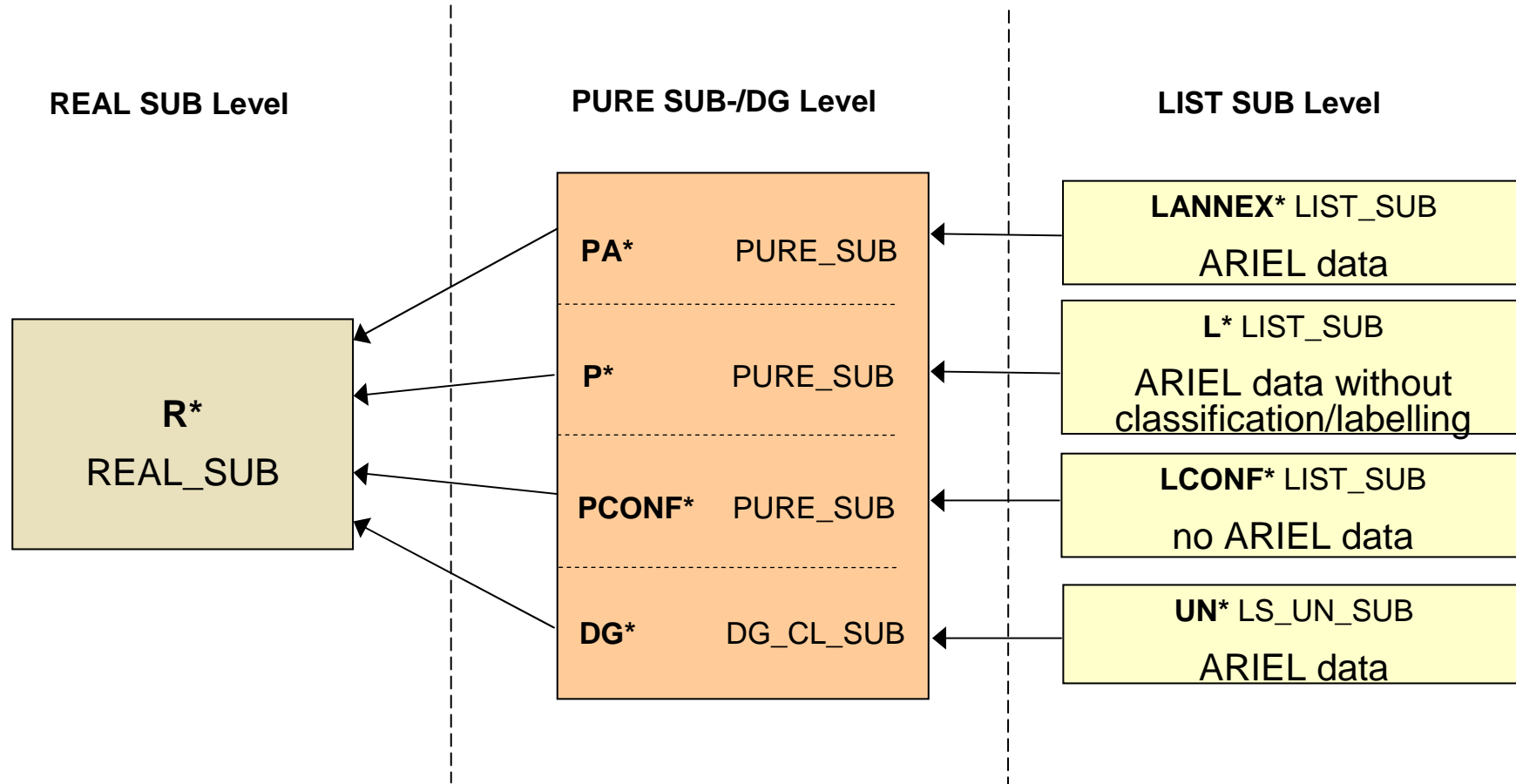
The Product Safety and Dangerous Goods Management application are used for:

- Maintenance and management of required substance and product data
- Management of multilingual text as phrases
- Creation and shipping of legally required documents
- Integration of these processes into business procedures (e.g. automatic distribution of SDSs)

The central EH&S system provides a range of data and documents including:

- Hazardous goods transportation and legally required information on shipping papers
- Labels
- Safety Data Sheets (SDS)
 - generated and released out of the system
 - or as Inbound Document (e.g. SDS of supplier for specialty chemicals)
- Support for 28 languages

Specification types in the EH&S System



Specification types in EH&S system

Header Data
PA* PURE_SUB

Reference: LANNEX*
 LIST_SUB

Header Data
P* PURE_SUB

Reference: L*
 LIST_SUB

Header Data
DG* DG_CL_SUB

Reference: UN*
 LS_UN_SUB

Property Tree of PA*

ARIEL data and manually maintained data by central HSE

- 2. Classification
- 8. OEL
- 11. Tox. information
- 12. Ecol. information
- 15. Labelling
- Notification Status
- Health
- Environment Air
- Environment Water
- Hazard information reporting

Property Tree of P*

ARIEL data and manually maintained data by central HSE

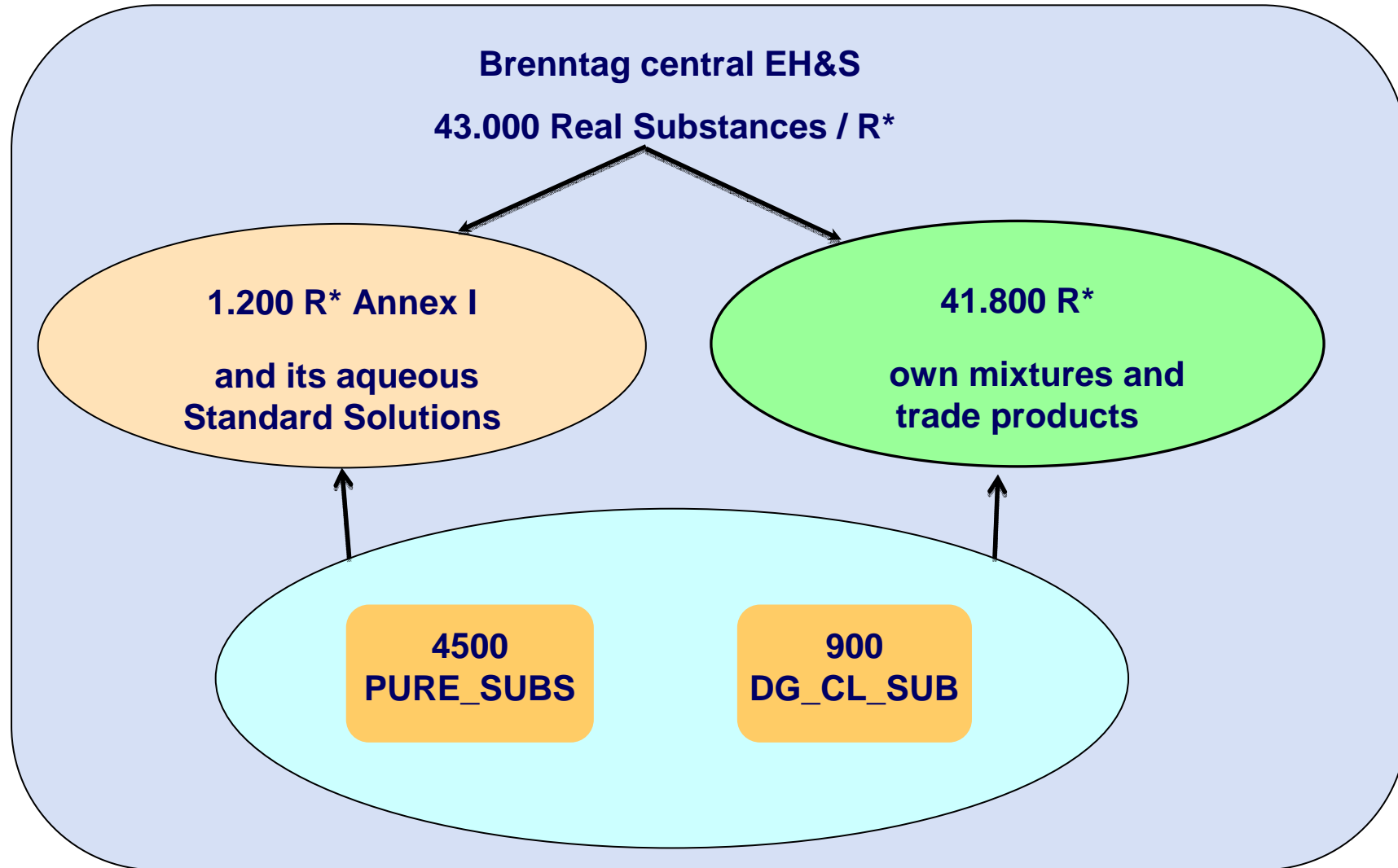
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- Hazard information reporting

Property Tree of DG*

ARIEL data and manually maintained data by central HSE

- 14. Transport information
-

Real Substances in the central EH&S system



Brenntag/3E Company Relationship

- **Brenntag started working with Ariel Research Corporation several years ago**
- The relationship started in 2002 with the acquisition of the SME Staging Area and the subscription to an Ariel regulatory data load for Western Europe, Global Inventories and Dangerous Goods
- September 2003, Brenntag expanded its content subscription (change from SME to LE) to also cover available EU and North American data and later added Central and Eastern Europe regulatory data
- October 2007 Brenntag migrated to the newer Ariel Data Manager (ADM) - EHSAP

Challenge

- **Brenntag has to fulfill National and European legal requirements**
- **Safety Data Sheets (SDS)**
 - Occupational Exposure Limits
 - EU ANNEX I Data
 - Other European Regulations
 - Transport Data (ADR, RID, IMDG, IATA)
 - National Regulations e.g. German WGK
- **Transportation of hazardous goods// Delivery notes**
 - ADR, RID, IMDG, IATA
 - TREM Cards (obsolete since 1st July 2009)
- **Labels**
- **Global Inventories for Customer Information**

Challenge

- **Brenntags Requirements for the Central EH&S System**
 - Integrated regulatory data for the SAP EH&S Module at the CAS number level
 - Efficient uploading of data to save significant amount of time and resources in the central and local HSE departments
 - Change management with updating functionality to ensure the most current information
 - National Product Safety data for all subsidiaries connected to the central EH&S System
 - Specific regulatory data, most notably for a new subsidiary joining the central EH&S System
 - Product Safety data according to European regulations
 - Dangerous Goods data for ADR, RID, IATA and IMDG and proper shipping names in different languages

Challenge

- **Following important related enhancements triggered the implementing of ADM EHSAP at Brenntag**
- Architecture
 - Web-based user interface
 - User roles and security configuration management features
 - Simultaneous multiple user access
 - Content updates both online via web services and offline via CD or DVD
 - Unicode support for multiple language settings

Challenge

- **Following important related enhancements triggered the implementing of ADM EHSAP at Brenntag**
 - Integrated Impact Analysis
 - Download of html and excel based reports detailing the exact changes to regulations and regulatory values
 - Summarization of the number of specification reports impacted by change, differentiating between records impacted direct hits and those involving generics (different hit lists)
 - ADM EHSAP allows to choose the chemical group that is relevant to the client's specific chemicals and save that choice for future use

Challenge

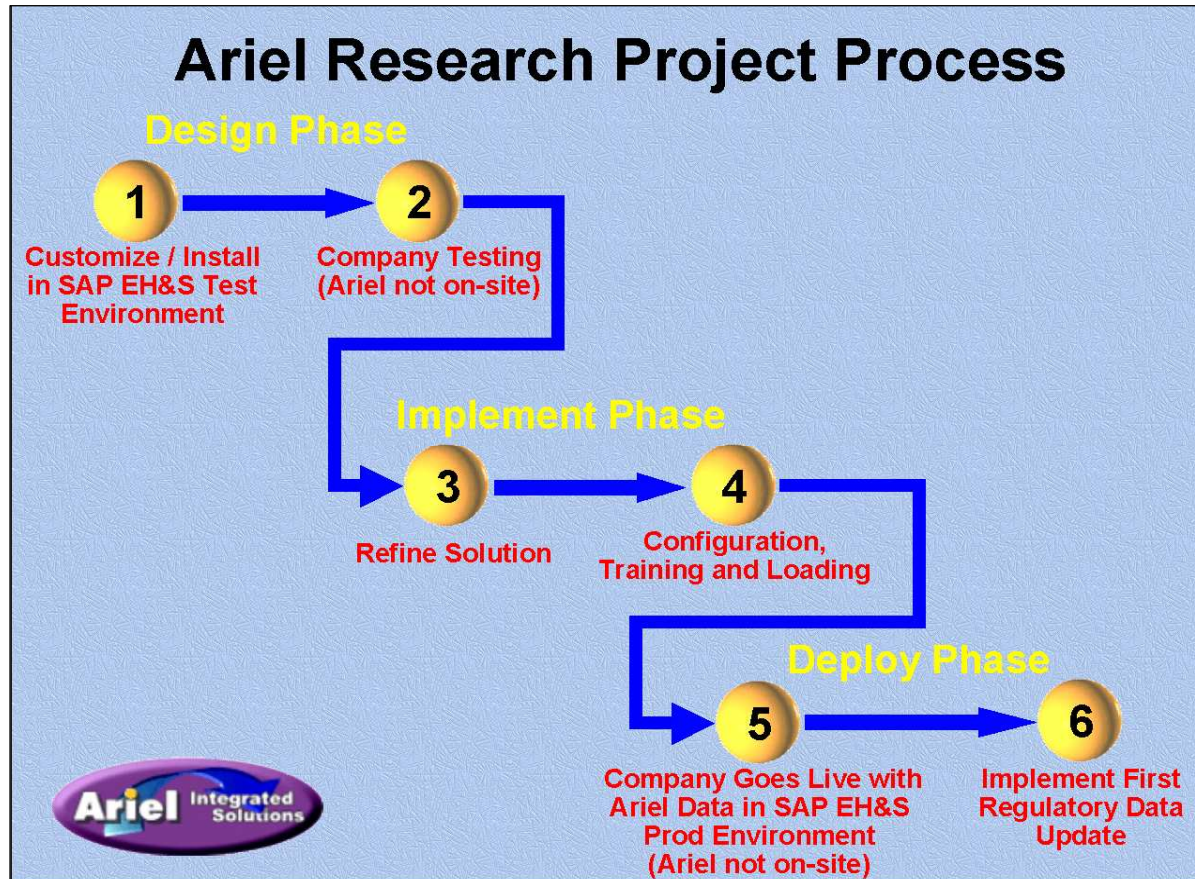
- **Following important related enhancements triggered the implementing of ADM EHSAP at Brenntag**

- **Multiple Filter Set-up**
 - Users can configure filters based on the business requirements and workflows

- **Review of Data**
 - User choices can be saved in ADM and it is not necessary to load them directly into the SAP EH&S (Scheduled loads / subsequent batch loads)

Challenge

➤ The Implementation Timeline



Challenge

➤ The Implementation

- Project resources
 - Brenntag technical and regulatory teams worked together to install and validate the ADM EHSAP before cut-over
 - Brenntag also utilized 3E's team of technical consultants for support in the process
- Project activities during the implementation included
 - Coordination with the IT team to ensure availability of necessary hardware and software
 - Establishing a project plan and timeline
 - Migrating all customer-specific settings to the new data structures (e.g. Ariel.mdb, filters, user choices)
 - Training to end users, “deploy and test“

Challenge

➤ The Implementation

- Infrastructure
 - Databases (Oracle)
 - Web server (Tomcat)
 - Client PC (Internet Explorer)
 - Internet connectivity

Solution & Results

➤ Experiences with ADM EHSAP

- In the meantime Brenntag made several successful updates using the ADM EHSAP
- For technical content updates Brenntag decided to use the off-line database configuration
 - ▶ Documentation for the release of the updated data and the specific product files are posted on the Ariel Customer Download site
 - ▶ The update of phrases, phrase sets, sources, regulatory lists and EH&S customizing is followed by the configuration of the Oracle database and the data synchronisation
- The Web-based user interface enabled multiple user access, so that a simultaneous data load is possible

Solution & Results

➤ Experiences with ADM EHSAP

- The hit lists generated via the Impact Analysis Tool are very useful for an specific and efficient data update process and reduces significant the time required for data updates
- Brenntag used the support for multiple chemical and regulatory filters to make a selective update for the 30. and 31. ATP, CLP data and to add regulatory data for Central & Eastern Europe
- The downloading of html and excel reports detailing the exact changes to regulations and regulatory values enabled Brenntag subsidiaries to be more flexible to make decisions regarding the generation and release of SDSs and labels

Further Steps

- **Possible projects for the future**
 - Enhancement of the Regional Coverage – Asia Pacific
 - Expert Rules
 - Regulatory data
 - Templates
 - WebInsight

**Thank you very much
for your attention!**

Questions