



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND



Tank cleaning station and intermodal transport in The Czech Republic and Slovakia

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ChemLog cleaning meeting, Novara, September 13th, 2011

ChemLog project (Chemical Logistic Cooperation in the Central and Eastern Europe)



Project participants:

- Ministry of Economy and Labour Saxony –Anhalt (project leader - DE)
- Institut isw Halle (DE)
- Ministry of Regional Development and Transport (DE)
- Polish Chamber of Chemical Industry (PL)
- **Association of Chemical Industry (CZ)**
- **Usti region**
- FH OO Research and development, GmbH / Logistic (AT)
- Association of Chemical and Pharmaceutical Industry (SVK)
- Province of Novara (I)
- Regional developmental holding (HU)



Responsible Care[®]
OUR COMMITMENT TO SUSTAINABILITY

... the global chemical industry's initiative ...
... SQAS is Responsible Care in cleaning, transport...

SCHP ČR

representing chemical industry

- **Responsible Care from 1994**
- **140 subjects**
 - **62 producers**
 - **32 traders and distributors**
 - **also R&D institutes, schools and universities and others**
- **86 individual members**
- **4 collective members**
 - **AVNH ČR (Association of Paint manufacturers of the Czech Republic)**
 - **CACS (Czech Association of Cleaning Stations)**
 - **ČAPPO (Czech Association of Petroleum Industry and Trade)**
 - **SCHOD ČR (Chemical Traders and Distributors Association of the Czech Republic)**
- **more than 80 % of the Czech production of the refinery, petrochemicals, chemicals, pharmaceuticals, plastics and rubber industry**

Feasibility study – Premises

- The key role in the Central Europe – road transport

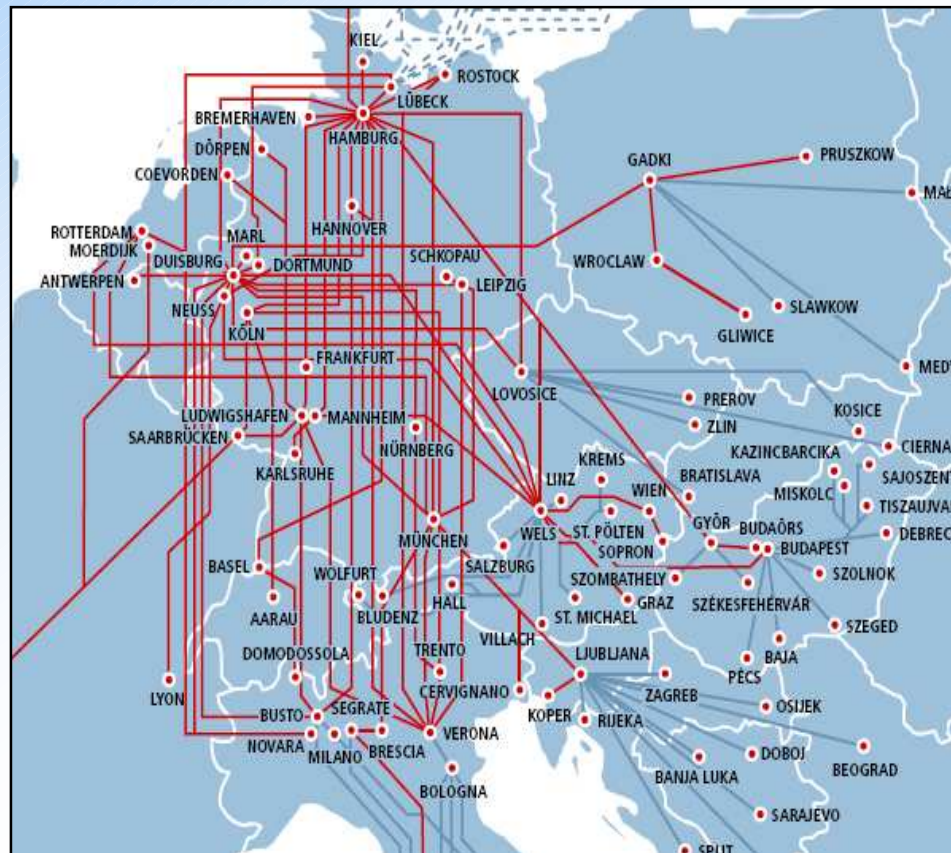
Capacity of the roads

Collective proclamation of road and rail transporters (March 2010) defined the main pillars for development of the combined transport:

- ✓ Existence of regular lines of public combined transport on the long distances
 - ✓ Sufficient equipment with suitable loading units for road transporters
 - ✓ Transition infrastructure between road and rail – terminals with free and undiscriminated access for road transporters
- Share of the combined transport on the overall transport (in units of %)
 - Share of the chemical goods transport on the overall transport (<10%)

Outputs from Czech feasibility study

It is necessary to develop the combined transport, especially the network, services, equipment of the terminals and subsequent transports of the chemical goods



Combined transport network

Differences - continental transports versus transports from the ports, western versus eastern Europe

Combined transport terminals

Equipment/services – vessels in case of leakage, containers for warming up, equipment for recuperation of chemicals, container cleaning etc

Personnel– has to be well educated for handling with chemicals

Subsequent transport

ADR/RID legislation – training

Personnel – has to be well educated for handling with chemicals

Děčín water dam

- improvement of navigability conditions on Elbe
- EIA documentation was presented to the Ministry of Environment on 24/8/2010
- estimated overall construction costs – approx. 191 mil. EUR
- Discuss environmental impact with Saxony representatives



Fig. Current situation and visualization of Děčín water dam

The outputs of the feasibility study

The potential for increasing of the combined transport volumes exists within the chemical industry

1. It is necessary to finish building up of the basic network of railway, highway and river corridors for the subsequent development of the combined transport
 2. With respect to the specifics of the transport of the chemical goods, it is necessary to continue in development of the unified system of the combined transport, especially its infrastructure, services and equipment of the terminals and subsequent transports
-
3. **Dissemination of the European combined transport standards in the field of chemical goods transport**
 4. **The system of employees education in the field of chemical goods transport**



**Collective member of Czech
Chemical Association**



**Full member of European
Federation of tank cleaning
organisations**



firma, kontakt	otvírací doba	neakceptované produkty	SOAS	služby			ohřívání		služby							
				příjemci: pířnem	opravy	údržba	náhradní díly	e-připojky (počet ks)	připojky páry (počet ks)	čisticí hmoty (počet ks)	osádání	testování / inspekce	chemik	documenty	železní vrstva	lic - čišění
CHARAKTERISTIKA ČISTIČÍCH STANIC V ČESKÉ REPUBLICE																
AQUATRUCK - Karel Nedorost, s.r.o. D1, exit 11, směr Praha Náspický 148, 251 01 Říčany u Prahy Karel Nedorost, +420 777 822 822 nedorost@aquatruck.cz, www.aquatruck.cz	NON STOP	látky tř. 6 ADR	• • • • •					2				•	•	ECD		
AWT VADS a.s. Nový Bohumín 1183, 735 81 Bohumín Jan Reichter, tel.: +420 596 014 232, 596 012 190 fax: +420 596 018 276 jan.reichter@awt.eu, awt-vads@awt.eu www.awt-vads.cz	PO–PÁ 6–14 po dohodě do 18	látky tř. 6 ADR, látky s obsahem chlóru a čpavku	•					4	2			•	•	•	•	ECD
GSSOKOTRANS, s.r.o. Tovární 2093, 356 01 Sokolov Ludmila Šenclová, +420 352 614 774 gssokotrans@gssokotrans.cz, www.gssokotrans.cz	PO–PÁ 6–16	plyn, vosky, mastné kyseliny, látky tř. 6 ADR, látky s obsahem chlóru	•	•	•			6	2			•		•	•	ECD
KOVOPROGRESS, s.r.o. Objekt ČEPRO, a.s., 664 47 Sřtelice u Bma Ing. Ivan Klouđa, +420 602 322 643 ivan.klouđa@willig.cz, www.kovoprogress.cz	PO–PÁ 6–22 SO 8–12	látky tř. 6 ADR, látky čířtění aceto- nem, látky vřžadující vřřší teplotu páry neř 110 °C	•	•	•			8	5			•		•	•	ECD
PRAŽSKÉ SLUŽBY, a.s. Pod Saneem 444/1, 180 77 Praha 9 Jaroslav Bureš, +420 605 234 601 buresj@psas.cz, www.psas.cz	PO–PÁ 6–22 SO 9–17	látky tř. 6 ADR, látky s obsahem chlóru a čpavku	•	•	•			1	3			•		•	•	ECD
RYKO a.s. areál Kaučuk, O. Wichterleho 810, 278 01 Kralupy nad Vřtavou – Lobeček Mária Štyblová, +420 315 712 888	PO–PÁ 6–14:30	plyn, vosky, mastné kyseliny, čpavek, chlór, jedy, látky tř. 6 ADR, látky rozpuřitelné ve vodě	*)	•	•	•	•	•	•	•		•		•	•	•
SPETRA CZ, s.r.o. Třanovice 278, 739 53 Hnojník Ing. Robert Barteczek, +420 558 440 020 robert@spetra.cz, www.spetra.cz	PO–PÁ 6–22 SO 9–16	silně zápachující a jedy	•					1	2			•		•	•	ECD
TANK WASH s.r.o. 9. května 2067, 413 01 Roudnice nad Labem Rastislav Hanus, +421 903 886 555, +420 602 354 091 r.hanus@metra.sk	NON STOP	látky tř. 6 ADR, látky vřžadující vřřší teplotu páry neř 130 °C	•					1	2			•		•	•	ECD
UNIPETROL DOPRAVA, s.r.o. Litvinov – Řízbořel 4, 436 70 Litvinov Karel Ařtak, +420 476 163 613 karel.atařak@unipetrol.cz, www.unipetrol.cz	NON STOP	látky tř. 6 ADR, látky s obsahem chlóru a kovů, asfalt	•					2	2			•		•	•	ECD
CHARAKTERISTIKA ČISTIČÍCH STANIC VE SLOVENSKÉ REPUBLICE																
HARVIS, s.r.o. Priemyselná 2, 915 01 Nové Mesto nad Váhom Miroslav Hlinka, +421 327 712 450 harvis@harvis.sk, www.harvis.sk	PO–PÁ 6–22	látky tř. 6 ADR, látky čířtění aceto- nem, látky vřžadující vřřší teplotu páry neř 130 °C	•	•				4	3			•		•	•	•
J&P TANK WASH s.r.o. Zavodna 3, 821 06 Bratislava Přotr Mrozek, +421 911 151 300 mrozek@met.adem.pl, www.tankwash.eu	NON STOP	látky tř. 6 ADR, asfalt, látky s obsahem chlóru	•					4	4			•		•	•	ECD
Pawtrans Slovakia s.r.o. Buhárska 50, 917 01 Trnava Přotr Ozon, +421 917726658 piotr.ozon@pawtrans.sk	PO–PÁ 6–22 SO–NE 8–16	silně zápachující látky, látky s obsa- hem chlóru, látky tř. 6 ADR	*)	•				10	10	25		•		•	•	•

*) – připravuje se

CACS - vision & mission

CACS members – reliable a trustworthy partner for chemical and food industry.

Community,

that determined the aim to make up the Western European standards in the area of cleaning tanks and containers for chemical and food transport.



History of CACS

- **6. 6. 2006 – meeting of preparation committee**
- **12. 10. 2006 – constitutive General meeting**
- **4/2007 – full member of ETCO**
- **6. 6. 2007 – first ECD released by GS Sokotrans**
- **1. 11. 2008 – all 6 cleaning station members releasing ECD**
- **11/2009 – support and active extension to Slovakia (2 members)**
- **12/2009 – start of ESF education and training program for CACS members**
- **5/2010 – 4 new members started preparing for ECD realize**
- **8/2010 – SQAS assessment done at 2 Slovakia members**
- **20. 10. 2010 – first Slovak ECD SK-01-01-10 realised under CACS**
- **Now in 9/2011 - 13 members/10 cleaning stations under ECD**



EPTCO® European Cleaning Document™ CACS

GS **Čistící služby a.v.s.**

CZ 01

EPTCO® European Cleaning Document™ CACS

Advent

CZ 02

EPTCO® European Cleaning Document™ CACS

WDS

CZ 03

EPTCO® European Cleaning Document™ CACS

NOVO PROGRESS

CZ 04

EPTCO® European Cleaning Document™ CACS

STELA

CZ 05

Σ 10 ECD = 8(ECD CZ) + 2(ECD SK) **5 YEARS OF CACS**
2006:2011

EPTCO® European Cleaning Document™ CACS

MAKRO

CZ 06

EPTCO® European Cleaning Document™ CACS

KARL TRUCK

CZ 07

EPTCO® European Cleaning Document™ CACS

Tank Wash

CZ 08

EPTCO® European Cleaning Document™ CACS

HARVIS

SK 01

EPTCO® European Cleaning Document™ CACS

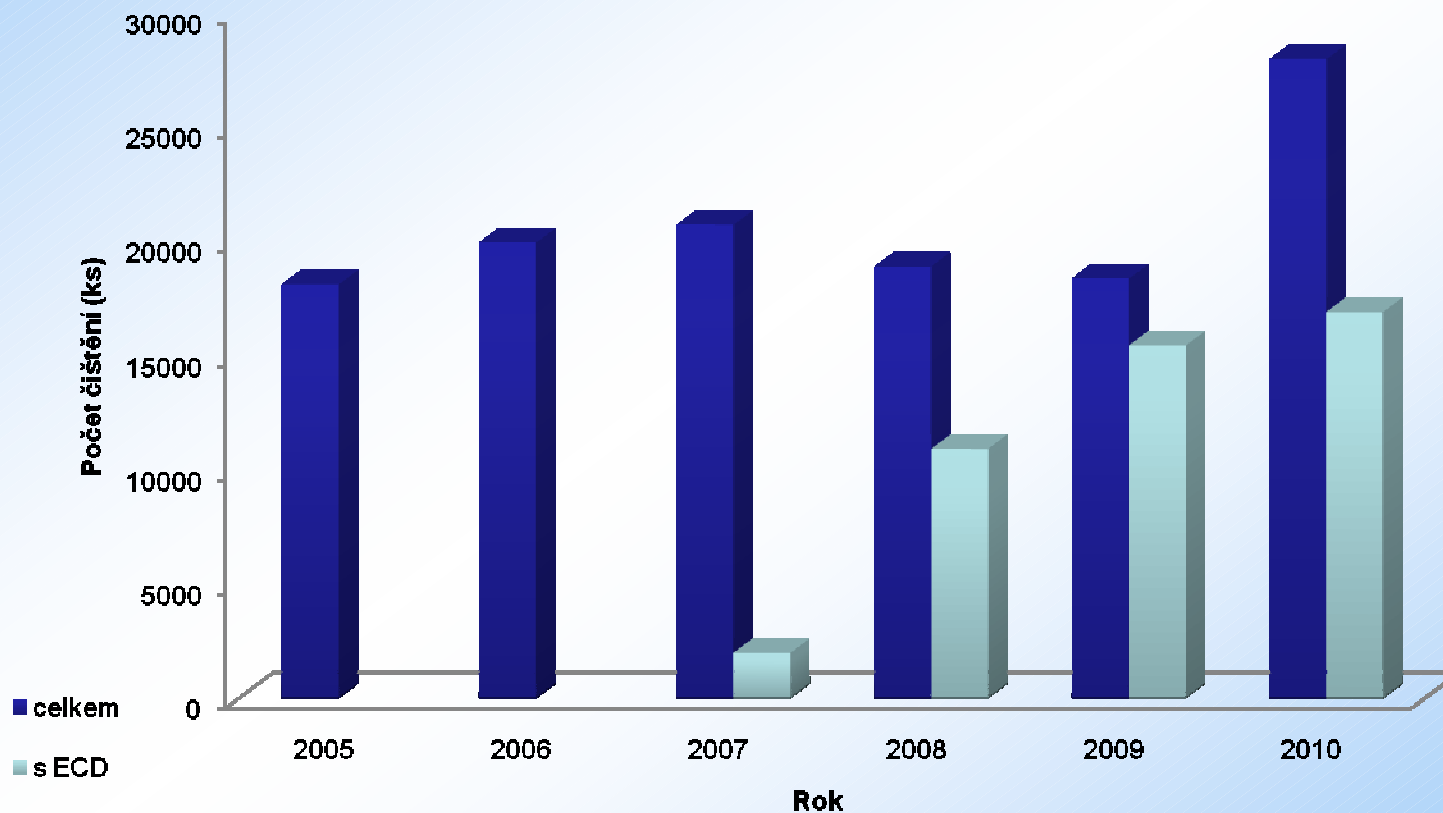
Tank Wash

SK 02

Basic aims of CACS

- **Contribute to safety transport of chemical goods**
- **Enrol to fulfilment the principles of Responsible Care (set basic safety and quality requirements during transportation)**
- **Cooperation with producers and carriers in healthy, safety and environmental scope (HSE)**
- **Assist to improve the image of chemical industry in the public area in The Czech Republic**
- **Better commercial utilization due to position of Czech Republic in the central Europe (cleaning during transit crossing)**
- **Gradually elimination of unauthorized cleaning stations where the rules in safety, health and environmental are not observed**

Number of realized cleanings 2005-2010



The building up of the cleaning stations

Technical conditions

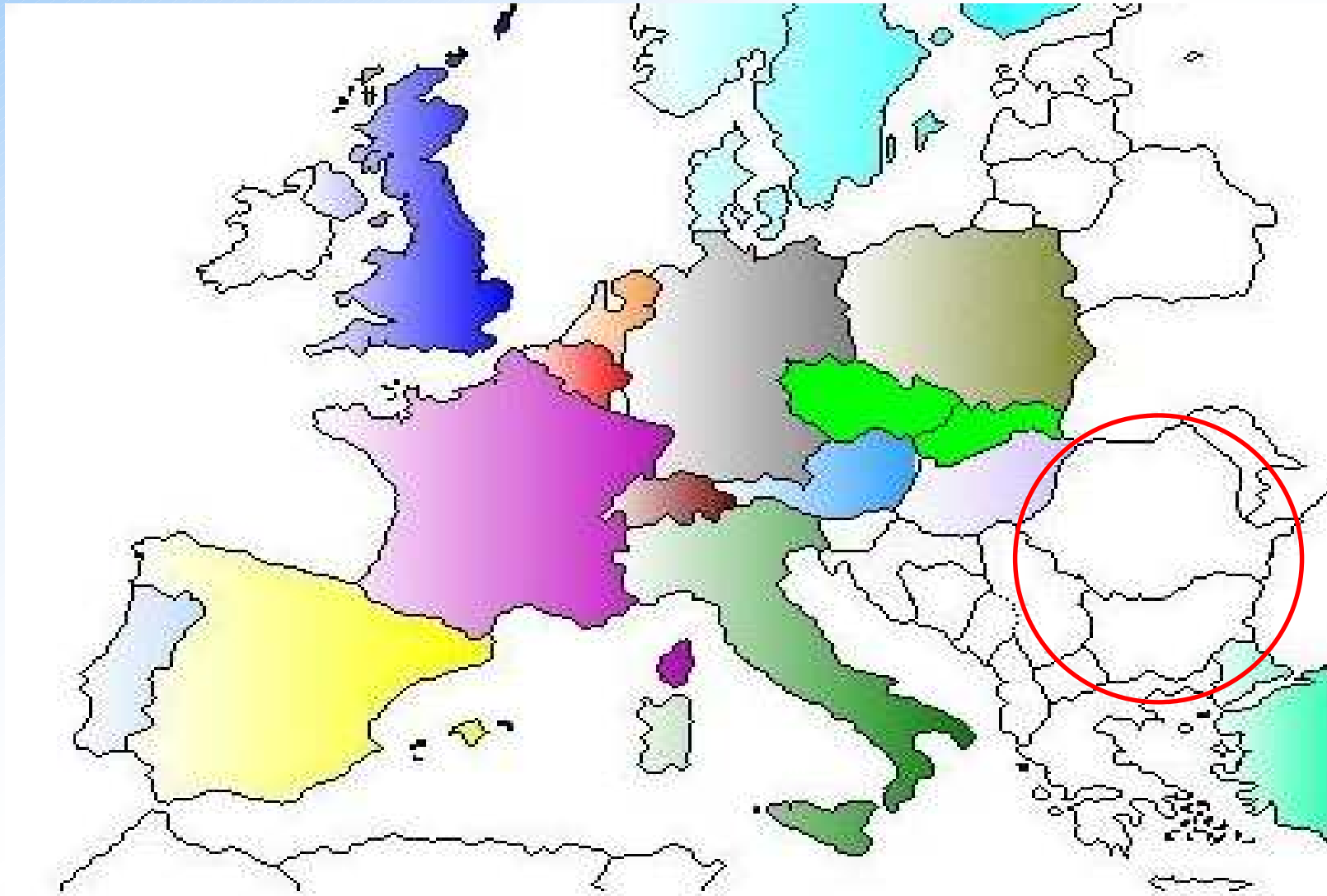
- Loading/unloading (the chemical company site)
- The transportation company site
- The accessibility to the transportation route
- **reloading = terminal**

The specifics of the railway transport

Transport of one chemical (mainly)

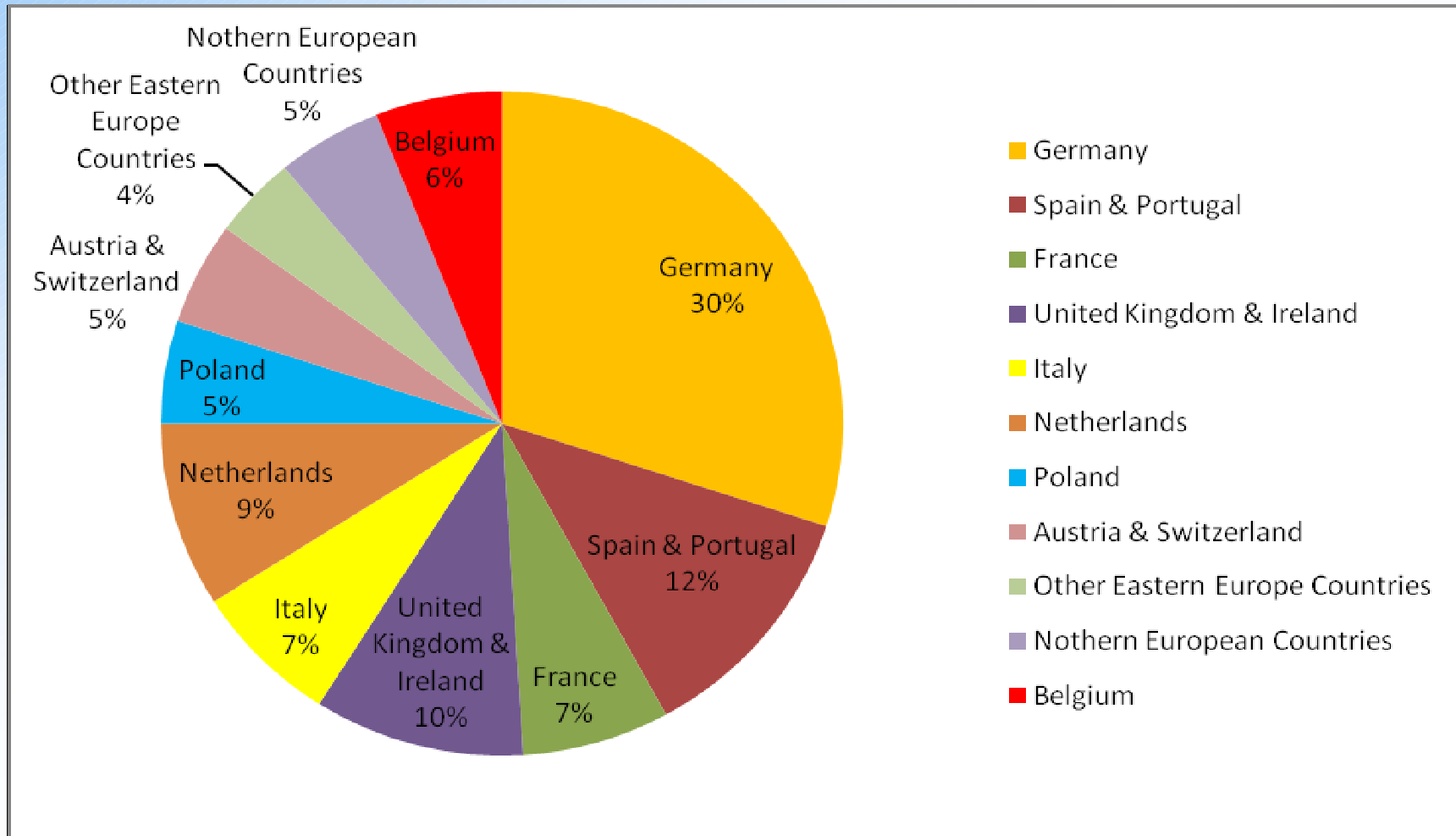
- Cleaning before reparation, or after the end of rental
- Repair places - Bohumín a Kralupy n/Vlt
- Production and owner of RTCs - Litvínov

New EFTCO focus area



Eastern EU borders

- **Different standards**
- The possibilities of reloading
- The cleaning cannot be delayed
- The possibility of cleaning of the light fraction
- Mobile cleaning station – basis of the water management!
- **Competitiveness**



Annual SQAS report 2009

SQAS

in Central and East Europe

Country	Transporter	Cleaning stations
Austria	34	10
Czech Republic	7	8
Hungary	6	5
Poland	43	21
Slovakia	2	2
Slovenia	11	1
Belorussia	1	0
Russia	0	0
Ukraine	0	0

Total:

47

104