

Welcome to the Port IT - Lübeck



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Head of Information Technology

Lübecker Hafen GmbH

<http://www.portit.de>

Solutions for port professionals

The example of IT-supported paper products handling

Complete, premium, dedicated solutions for customers

Workshop 03-12: Wednesday, June 14th 2006
11:15-11:45 a.m.

IHS Integrated Harbour and Logistics System

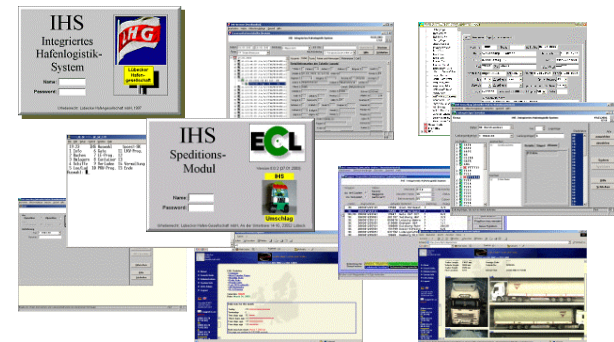


- *First installation 1995*
- *Used in 5 owned terminals*
- *Used in other ports*

Highly sophisticated systems working together

- *With more then 30 modules and integrated with SIPORT access control and security system*
- *Working together with laser and high speed and solution cameras integrated in Gatecheck systems*

*Our strategy
IHS and SAP*



Portfolio of our IT systems

- *Supporting our employees with software and hardware to be number One in the Baltic Sea*
- *We exchange and supply data information with all our customers,*
- *working as ASP and as software and solutions forge and*
- *assists with our IT consulting service*

All business processes a IT supported

Tailormade IT systems for logistics of forest products

About 60 clustered servers with SAN technology supporting

- *more than 600 personal computer,*
- *about 500 radio data transmission devices and laser scanners,*
- *about 80 IP based cameras,*
- *about 5000 RFID cards, transponders and components,*
- *7 computer controled petrol stations,*
- *about 15 gates,*

over high speed fiber cable

for about 1.000 LHG and subsidiary employees



IT Team

- ✓ *Application development*
- ✓ *Operations control*
- ✓ *SAP*
- ✓ *Helpdesk*
- ✓ *Global services*



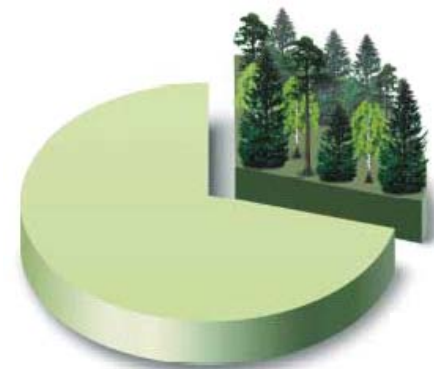
The biggest port for forest products in the Baltic Sea

Forest products

2005: *4 million tons*



Biggest port for forest products in the Baltic Sea



Trucks and Trailers

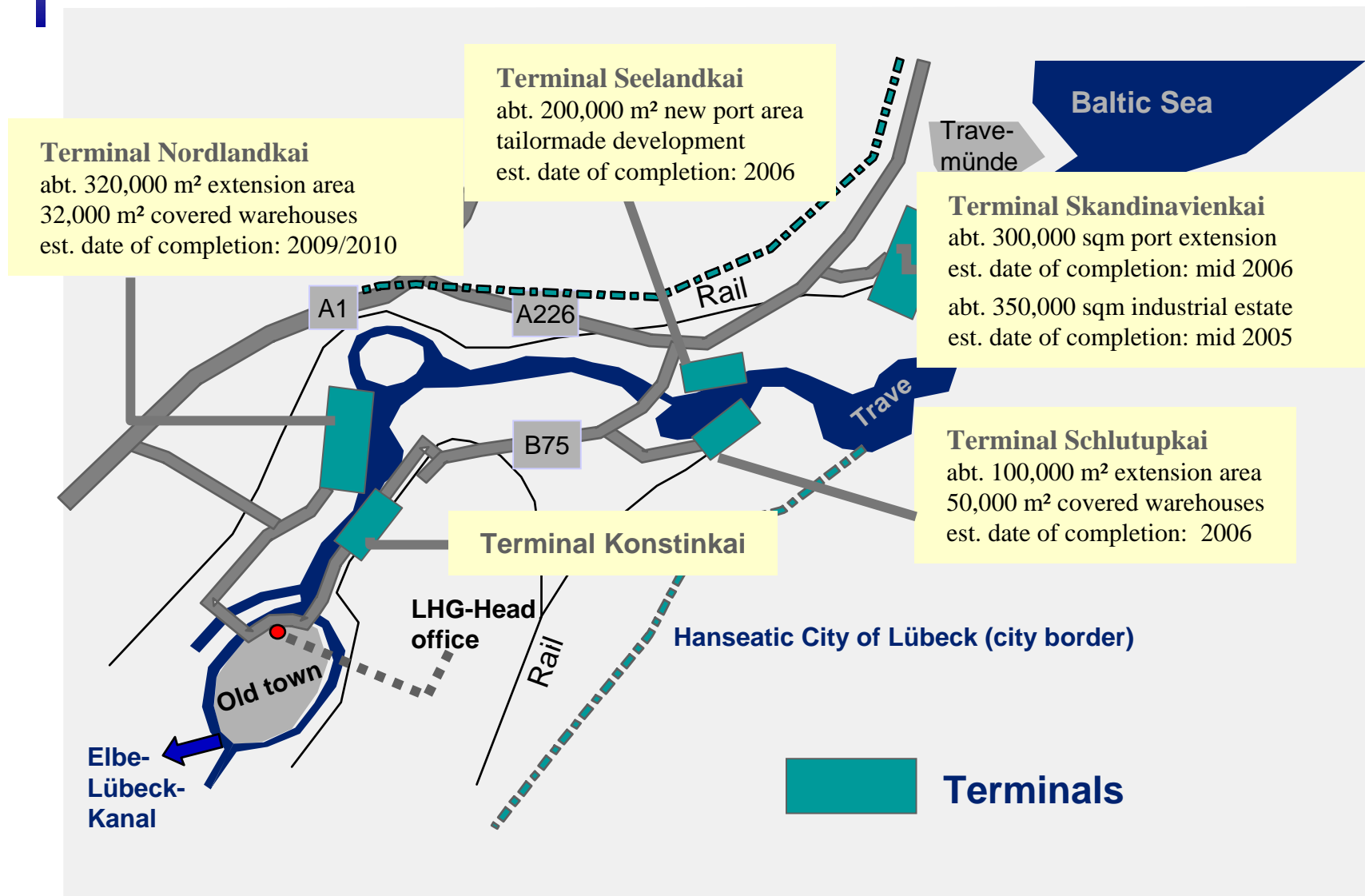
2005: *750,000 units*



Biggest ferry port in the Baltic Sea



Terminals of LHG



Longterm experience

- *Experience of more than 50 years in handling and storing of forest products*
- *One of the biggest European ports handling forest products*



Concentration of major forest product industry and their clients

for example:

- *SCA*
- *UPM-Kymmene*
- *Stora Enso*
- *m-real*
- *Metsä Tissue*
- *Finnforest*
- *Axel Springer Verlag*
- *Gruner & Jahr*
- *IP*
- *Fintrans (Ilim)*



Technical market leadership

- *Highest quality equipment*
- *Continuous development of new technical solutions together with clients, buyers and equipment suppliers according to the increasing demands of forest products logistics (clamp trucks, forklifts, translifters)*



Quality management

- Low damage rate
- ISO 9002 Certification
(entire range of services)
- ISO 14001 Certification
(environmental certificate)
- Intensive staff training programmes



Outstanding warehousing

- *More than 210,000 m² of covered storage area*
- *LHG offers warehousing in Lübeck including*
 - *professional handling*
 - *comprehensive online order processing*
 - *online inventory =>*
virtual warehouse for shippers and/or important receivers



Hinterland connections

railnet

- *90 km of own railtracks; each terminal with railway station*
- *direct link to European railnet*
- *150 block trains per month*

road

- *dense motorway network in immediate vicinity*

waterway

- *direct access to European waterway system*



Terminal for combined transport Skandinavienkai

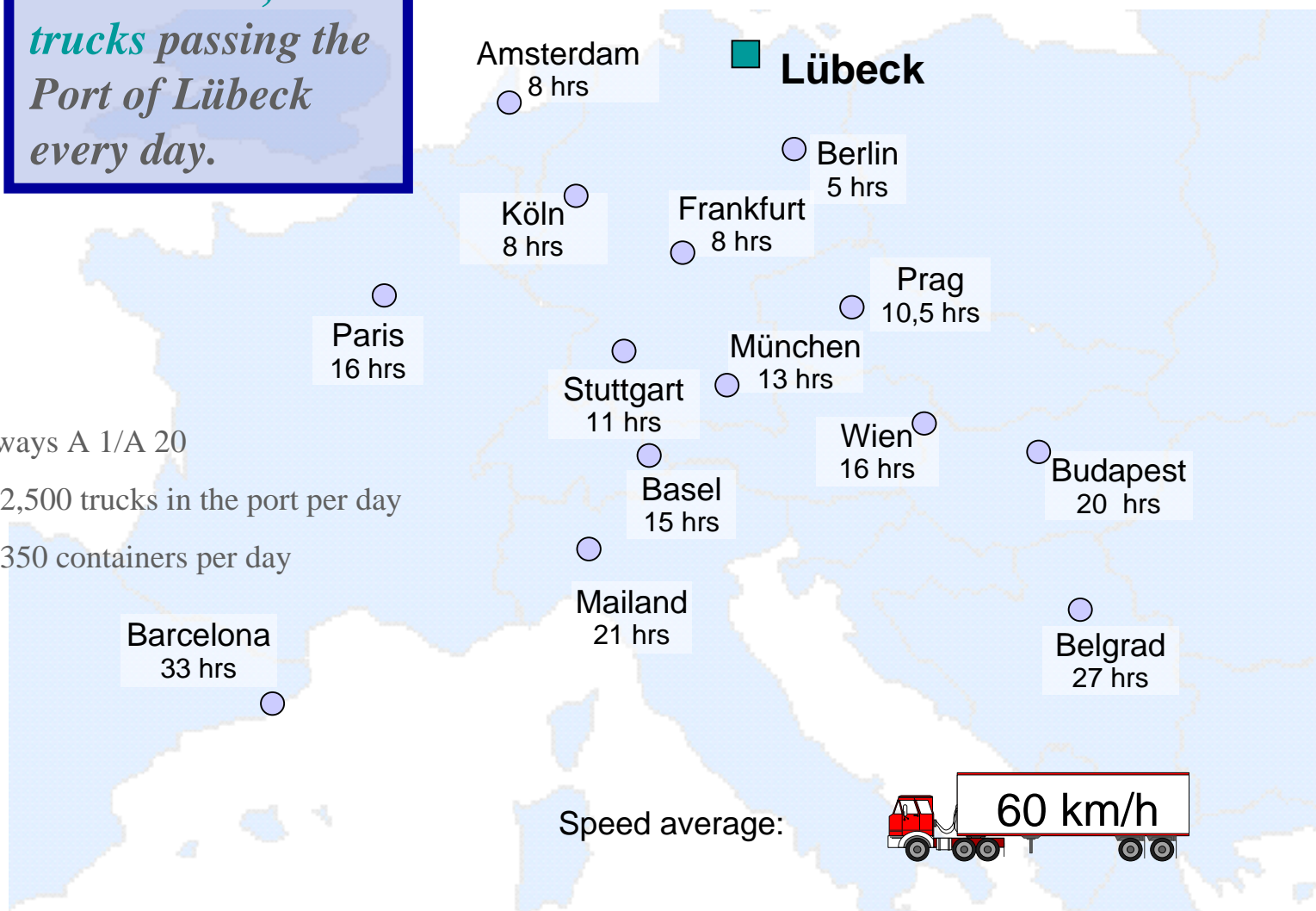


Journey time to destination

More than 2,500 trucks passing the Port of Lübeck every day.

Road:

- Motorways A 1/A 20
- about 2,500 trucks in the port per day
- about 350 containers per day

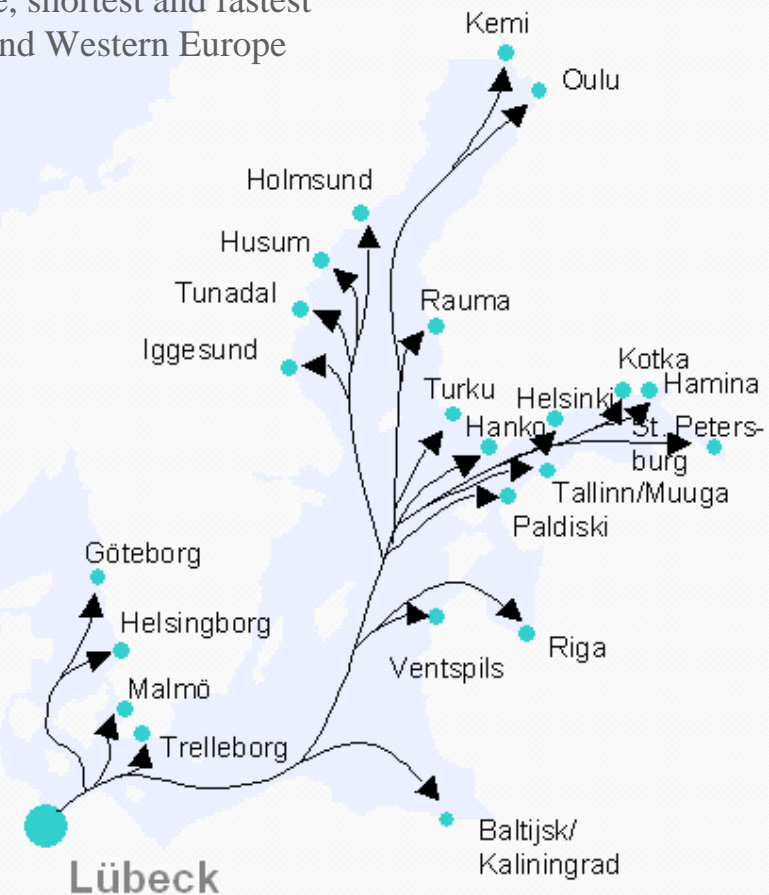


Destinations

⇒ Most southwestern port in the Baltic sea and, therefore, shortest and fastest links to the industrial centers of Germany and South and Western Europe

Intermodal transport Network:

- Sea**
- 15 – 20 regular ferry services per day
 - 5 port terminals along the river Trave suited for any type of vessel



- Air**
- Airport Lübeck with national and international flights
 - Airport Hamburg one hour from Lübeck

RoRo departures from Lübeck

Sweden:	Malmö	3 – 4 x per day	Nordö
	Trelleborg	4 x per day	TT-Line
		2 x per day	Scandlines AB
	Göteborg	1 x per day	Stena-Line
	Holmsund / Husum / Tunadal / Iggesund	2 x per week	M-Real
	Helsingborg	1 x per week	TT-Line
Finland:	Hamina	4 x per week	Transfennica
	Hanko	1 – 2 x per day	Transfennica
	Rauma	2 x per week	Transfennica
	Helsinki	1 – 2 x per day	Finnlines
	Kemi / Oulu	1 x per week	Finnlines
	Kotka	3 x per week	Finnlines
	Turku	6 x per week	Finnlines
Estonia:	Paldiski	4 x per week	Transfennica
	Tallinn/Muuga	1 x per week	Finnlines
Latvia:	Riga	3 x per week	DFDS
	Ventspils	1 x per week	DFDS
Russia:	St. Petersburg	3 x per week	Finnlines
	Baltiysk / Kaliningrad	1 x per week	Finnlines

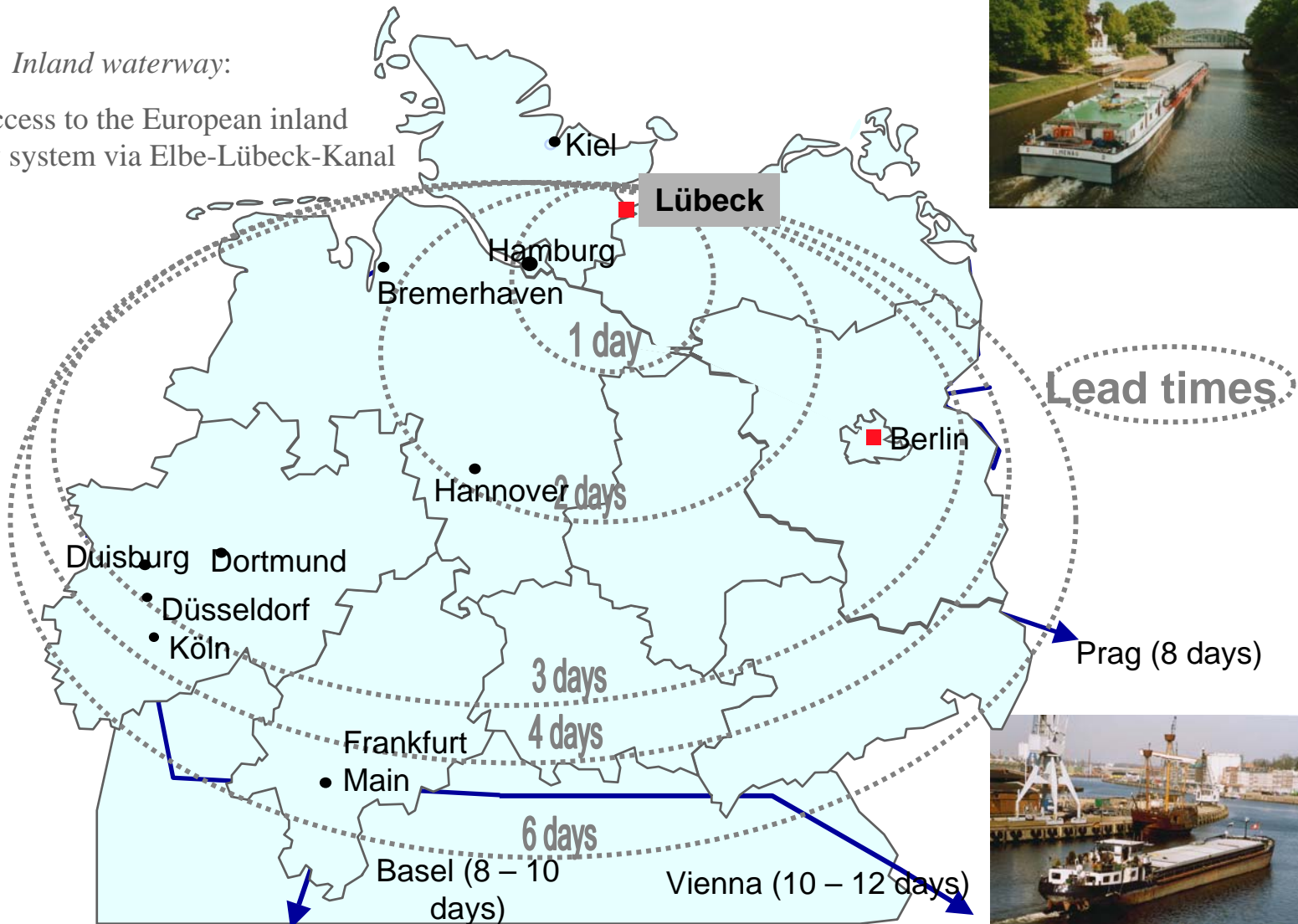


abt. 150
departures
per Week

Hinterland connections

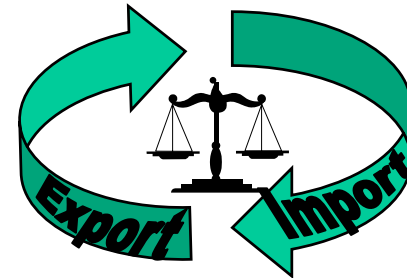
Inland waterway:

- direct access to the European inland waterway system via Elbe-Lübeck-Kanal



Balanced Transport

- *Consolidation by destination*
- *Block train shuttles with mixed cargo*
 ➔ *forest products, containers, trailers*
- *Balanced road transport*
 ➔ *employment of trucks with return load*
- *Balanced sea transport*
 ➔ *northbound and eastbound cargo volumes*



Reduction of deadheadings

- *Cost-efficiency*
- *Less environmental impact*

Cost advantages through accumulation

- *Concentration of 4 million tons of forest products in Lübeck leads to*
 - *synergy effects in hinterland transport*
 - *synergies improve location's quality*
- *Synergies in hinterland traffic lead directly to cost reduction*
- *Examples:*
 - *various possibilities of co-loading*
 - *consolidation of smaller volumes in existing block trains*



Block train service from Lübeck

Combined transport:

- Basel (CH) 6 x per week
- Duisburg 6 x per week
- Köln 5 x per week
- Hagen 5 x per week
- Ludwigshafen 6 x per week
- Verona 5 x per week

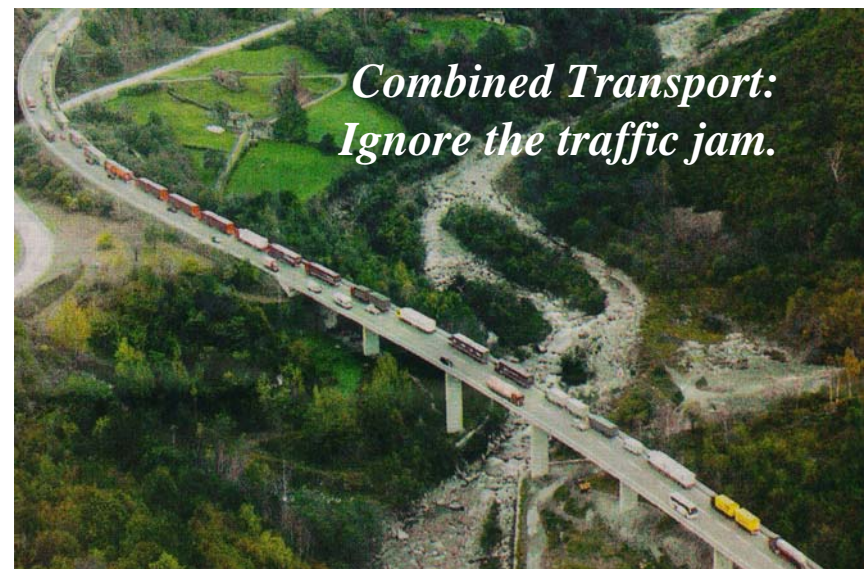
Forest products:

- Basel (CH) 5 x per week
- Mailand (I) 4 x per week
- Chiasso/Turin (I) 3 x per week
- Grisignano (I) 1 x per week
- Hungary/Austria 1 x per week
- South Germany 4 x per week

Via Gateways:

- Germany: Stuttgart, Frankfurt, München
- Italy: Desio, Busto, Domodossola, Novara
- Benelux: Rotterdam, Antwerpen
- Switzerland: Aarau, Wiler (Bern)
- Austria: Wels, Vienna
- Spain, France

150 block trains per month



*Combined Transport:
Ignore the traffic jam.*

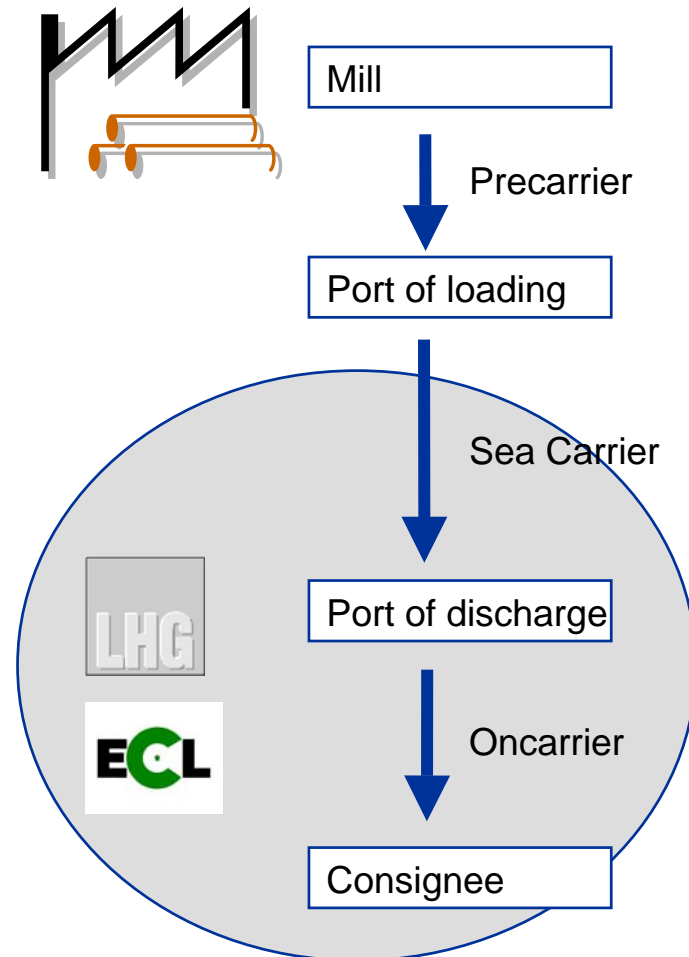
Advantages of Lübeck

- *Highly dense and frequent network of sailings to/from Baltic Sea destinations*
- *Shortest and most cost-efficient hinterland connections to Europe's main industrial centres*
- *Focal point for intermodal traffic*
- *Focal point for forest products logistics in Northern Europe*
- *Concentration of abt. 28 mil tons of cargo, thereof >90% on LHG-terminals*



Supply chain management

- *Development of tailor-made, integrated logistics solutions from production to buyer*
- *ECL's aim is to act as neutral supplier of logistic services, focussing on*
 - *Europe-wide distribution of forest products*
 - *entire supply-chain solutions*



IHS in production

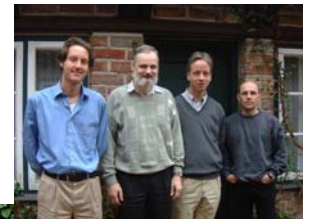


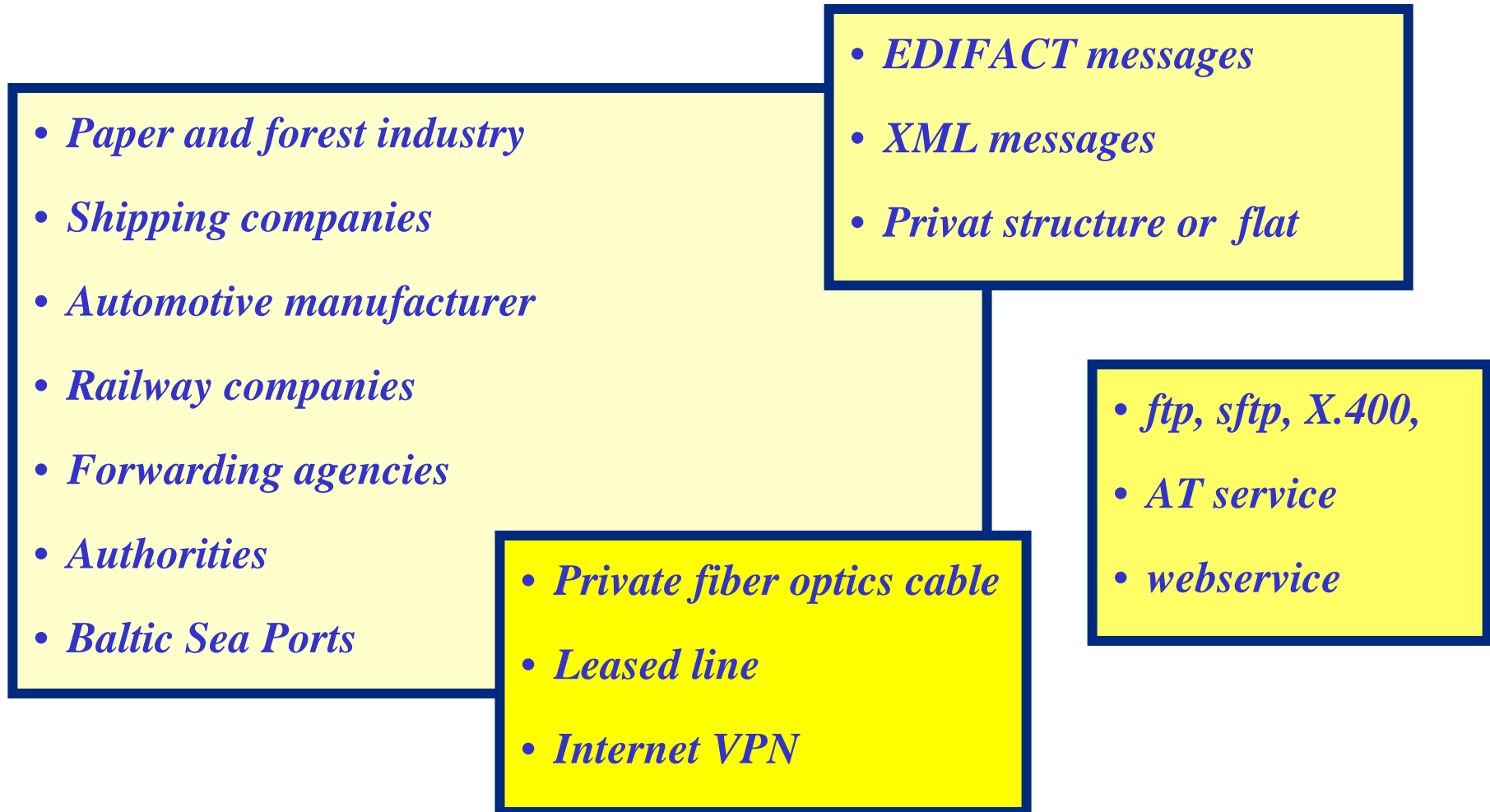
Provide highly effective work

- *Clustered production server*
- *Terabyte SAN*
- *3S firewall for communication*

- *Online support*
- *Continuous development*

- *Online System for about 600 LHG and subsidiary employees*
- *more than 300 personal computer and*
- *about 500 radio data transmission devices*



Data exchange between LHG and customers

High quality data exchange between LHG and customers

- *Cargolist, Manifest, Booking list*
- *Production list, transport list*
- *Status information*
- *Picture delivery service*
- *Unit profile with length and height*
- *Loading advice, confirmation*
- *Invoicing*
- *Special tasks inside port area (not yet)*
- *Vessel status information*
- *On demand*
- *Event driven*
- *Time controlled*
- *Webservice*

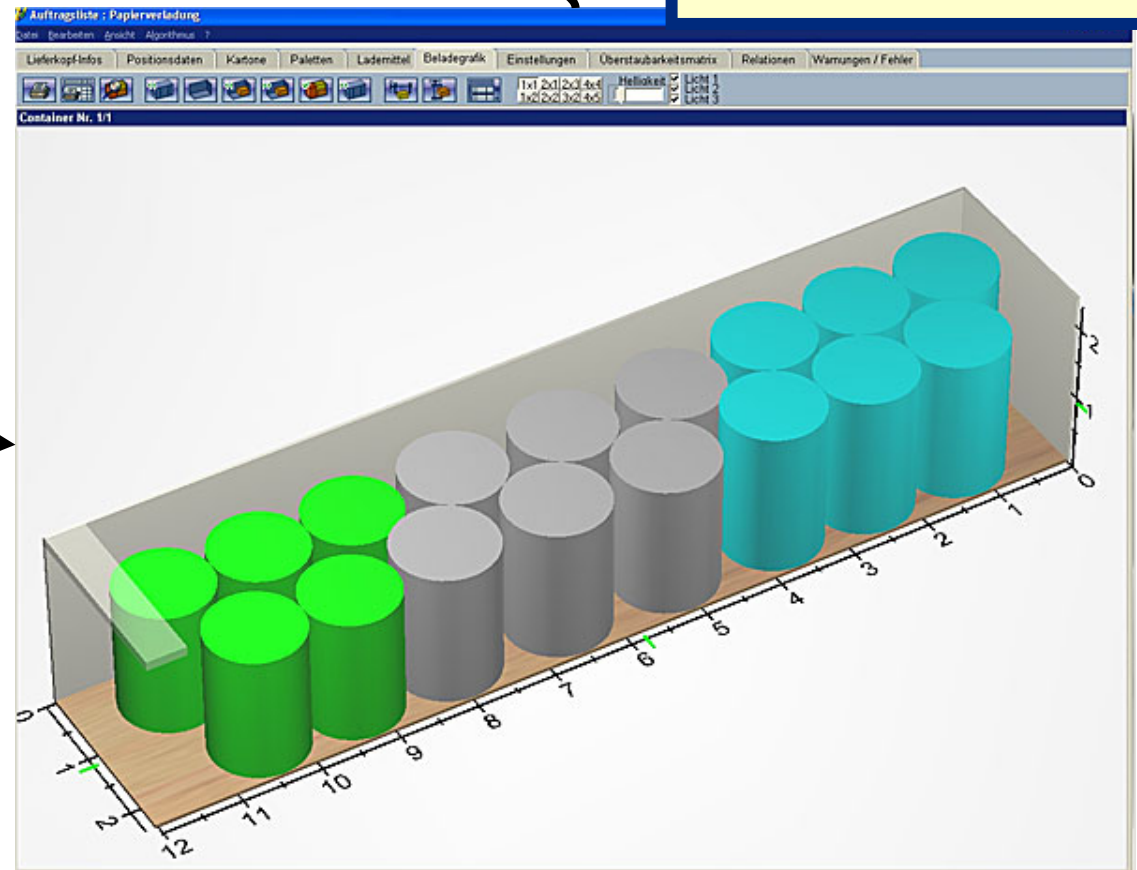
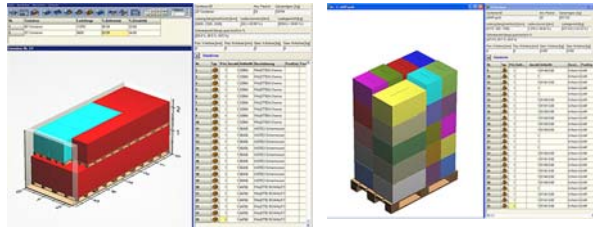
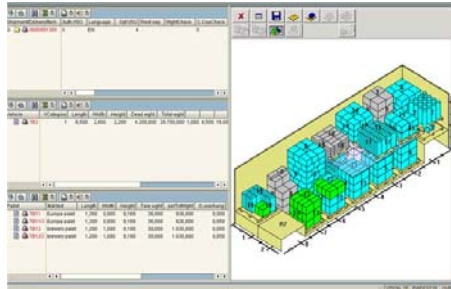
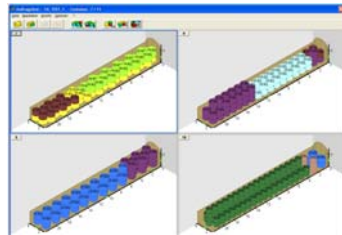
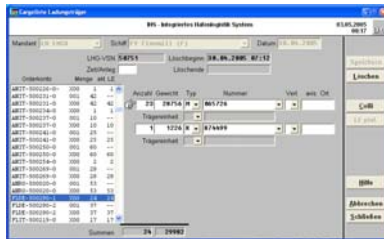
Way of life of a Finnish paper reel

- ✓ *May 2006* *Order WPDE-600198 produced at Varkaus Mill and transported to Finnish Port Kotka*
- ✓ *01.06.2006,* *03:01 p.m. Cargoliste from StoraEnso Helsinki*
- ✓ *01.06.2006,* *03:04 Call off 37912 from StoraEnso France*
- ✓ *01.06.2006,* *03:49 p.m. ECL create loading advice*
- ✓ *01.06.2006,* *03:49 p.m. LHG received loading advice*
- ✓ *02.06.2006,* *08:12 a.m. LHG received manifest from Finnlines Oy*
- ✓ *03.06.2006,* *07:09 a.m. Vessel VSN: 57167 Finnpulp from Kotka with Order WPDE-600198 Varkaus Mill discharged Nordlandkai*
- ✓ *03.05.2006,* *09:31 a.m. K-408129 with order WPDE-600198*
- ✓ *05.06.2006,* *07:25 a.m. discharging from cassette to storing position 4203W*
- ✓ *06.06.2006,* *02:37 p.m. SFA-MT 501 Möhlmann Transport GmbH*
- ✓ *07.06.2006,* *10:00 a.m. Mohn Media Mohndruck GmbH Gütersloh*



Way of life of a Finnish paper reel – Loading optimization

ECL use ISS to optimize transport



Way of life of a Finnish paper reel – Discharging Vessel



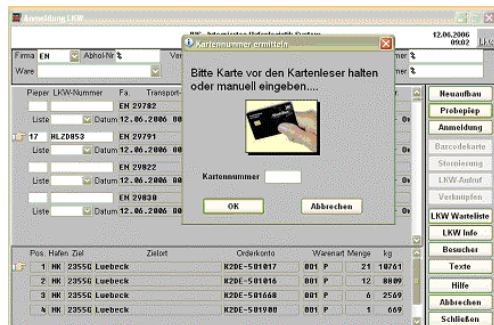
Way of life of a Finnish paper reel – Radio data transmission



*Every process online IT supported
narrow and broad band used
area wide network*



Way of life of a Finnish paper reel – gate process



Way of life of a Finnish paper reel – gate process



Way of life of a Finnish paper reel – loading process

*Online process
supported with
barcode*



Way of life of a Finnish paper reel – loading situation

IHS-Umschlag [aktueller Hafen: Nordlandkai]

Bearbeiten | Bildschirmdialoge | Berichte | Speziell | Hilfe

Verladesituation LKW

IHS - Integriertes Hafenlogistik System 07.06.2006 18:39 LHG

Mandant % **Alle** Verladebereich % **Alle**

VB	Bereich	Transport	Verpackung	Aufruf	Einfahrt	Ladeende	zu lad.	Fortschritt	gelad.
UB3	361								
	362	UP	973346	Rollen	14:20	14:21	15:28	17	17
			973666	mehrere	16:38	16:46		39	39
			973620	Rollen	18:27	18:29		15	
	391	MY	371305	Rolle	18:22	18:23		8	8
	392								
UB4	971								
UB5	631	EN	31890	Rolle	18:12	18:13		13	13
	638	EN	31902	Rolle	18:02	18:02		27	15
	7191	MS	1384937	Rolle	09:40	09:42	09:54	7	7
			1384944	Rolle	17:55	17:59	18:24	9	9
UB6	931	EN	31722	Rolle	12:37		14:03	32	32
			31959	Rolle	17:41		18:23	9	9
	932	EN	31934	Rolle	18:17			8	8
	937	EN	31868	Rolle	11:09		12:44	25	25
	953	EN	31975	Rolle	17:08		18:18	22	22
	955	EN	31922	Rolle	09:08		09:31	14	14
Gesamt LKWs							316		
Davon angemeldet und noch nicht aufgerufen								30	
In Arbeit							10	Ladeende	241
Erledigt								222	

Doppelklick wechselt zu LKW Info

Neuaufbau
LKW Info
Angemeldet
Hilfe
Schließen

26

*Online view for
booker*

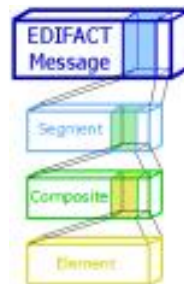
Way of life of a Finnish - invoicing



Discharging charges , warehousing charges and loading charges



SD module (Sales and Distribution) and RLS module



Internet

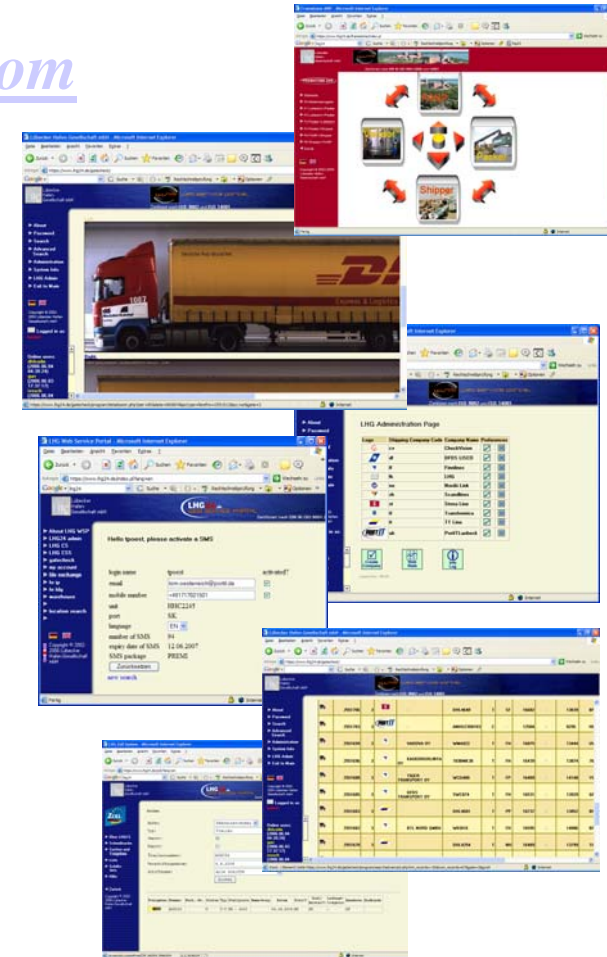


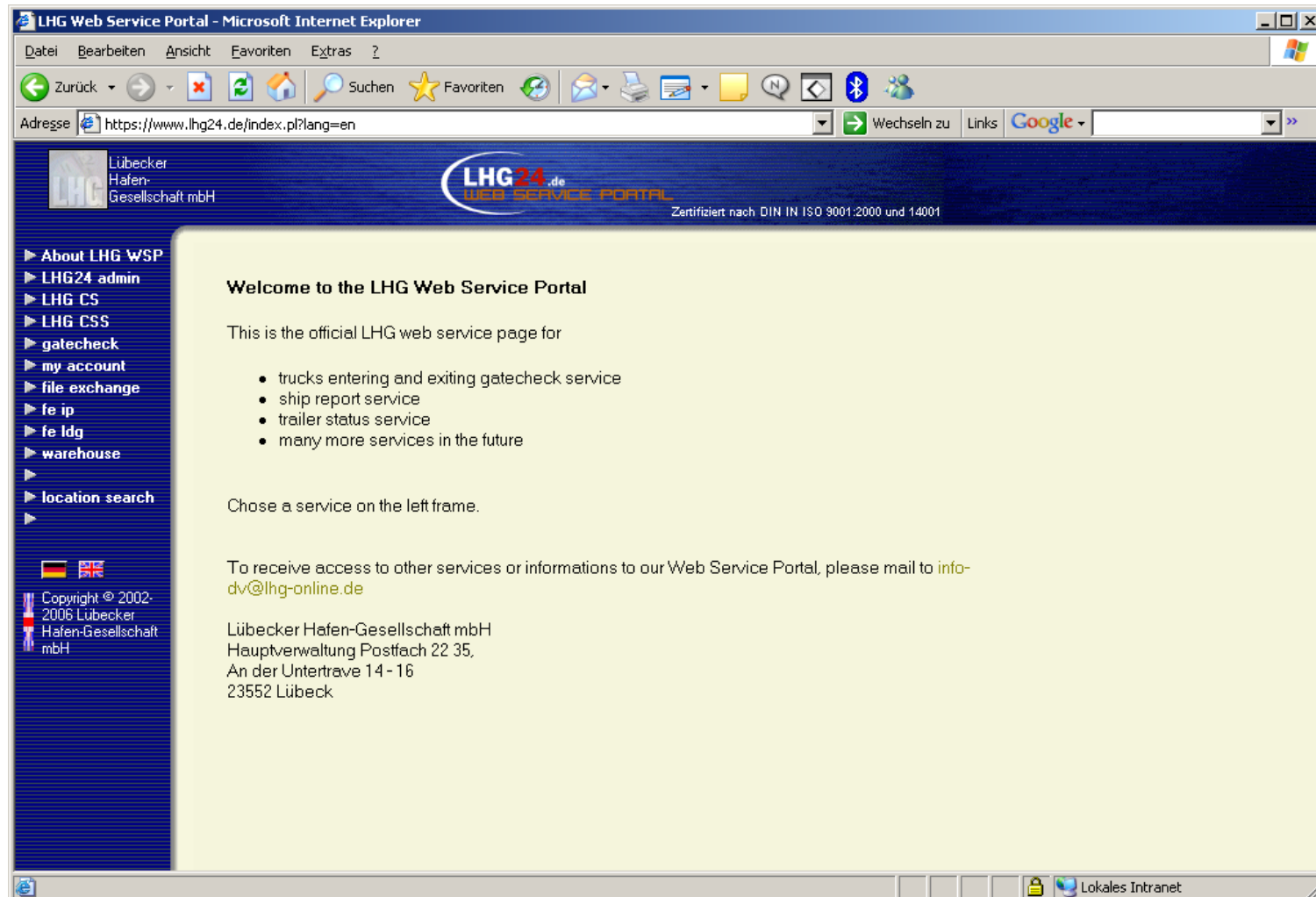
Webportal <https://www.lhg24.com>

Value added service for our customers and partners

Webportal: <https://www.lhg24.com>

- *Track and trace service for units*
- *ISPS und quality management*
- *Length, height and security management*
- *Location search with premium service (mail,sms)*
- *To go through customs and customs tracing*
- *Virtuell Warehouse*
- *Webservice ISM (sailing list, status, planing...)*



Webportal <https://www.lhg24.com> *live act*

Webportal <https://www.lhg24.com> live act

Lübecker Hafen-Gesellschaft mbH - Microsoft Internet Explorer

Adresse: <https://www.lhg24.de/gatecheck/>

Lübecker Hafen-Gesellschaft mbH


Web Service Portal


Zeitisiert nach ISO 9002 und ISO 14001

[Send high resolution pictures as email](#)
[Printer-friendly version](#)
[Return to result list](#)

IHS Ref. No:	2681683	Shipping Company:	FF
GC Ref. No:	2566876	Forwarding Agency:	OY RH GLOBAL LOGISTICS AB
Unit No:	71439	Booking No:	151337021
Unit Type:	T	Gate:	SK 3
Creation Date:	12/06/06 14:29	ETA:	10/06/06 00:00
Vehicle Length:	16545 mm	TIN:	151337
Vehicle Height:	3756 mm	Vehicle No:	CEB875
Trailer Length:	13933 mm	Damage Code:	-
Trailer Height:	3956 mm	Speed:	14 km/h
First Location:	6500 [search current location]	Arrival Time:	10.06.2006 11:06:00
Ship Code:	TE	Comment:	-

Front: [Front Licence Plate](#) Back: [Back Licence Plate](#)

Front Licence Plate: 

Back Licence Plate: 

Online users:

- ddsdm (2006.06.12 15:06:54)
- glen (2006.06.12 14:23:06)
- gun (2006.06.12 15:28:06)
- ivach (2006.06.12 09:21:33)
- ks (2006.06.12 10:44:36)
- ksoderbe (2006.06.12 08:41:50)
- mlndsten (2006.06.11 23:04:52)
- peiben (2006.06.12 11:39:06)
- romann (2006.06.12 10:40:49)

Lübecker Hafen-Gesellschaft mbH - Microsoft Internet Explorer

Adresse: <https://www.lhg24.de/gatecheck/>

Lübecker Hafen-Gesellschaft mbH

Web Service Portal

Zeitisiert nach ISO 9002 und ISO 14001

[About](#)
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[Administration](#)
[System Info](#)
[LHG Admin](#)
[Exit to Main](#)

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Logged in as: [Logout](#)

Online users:

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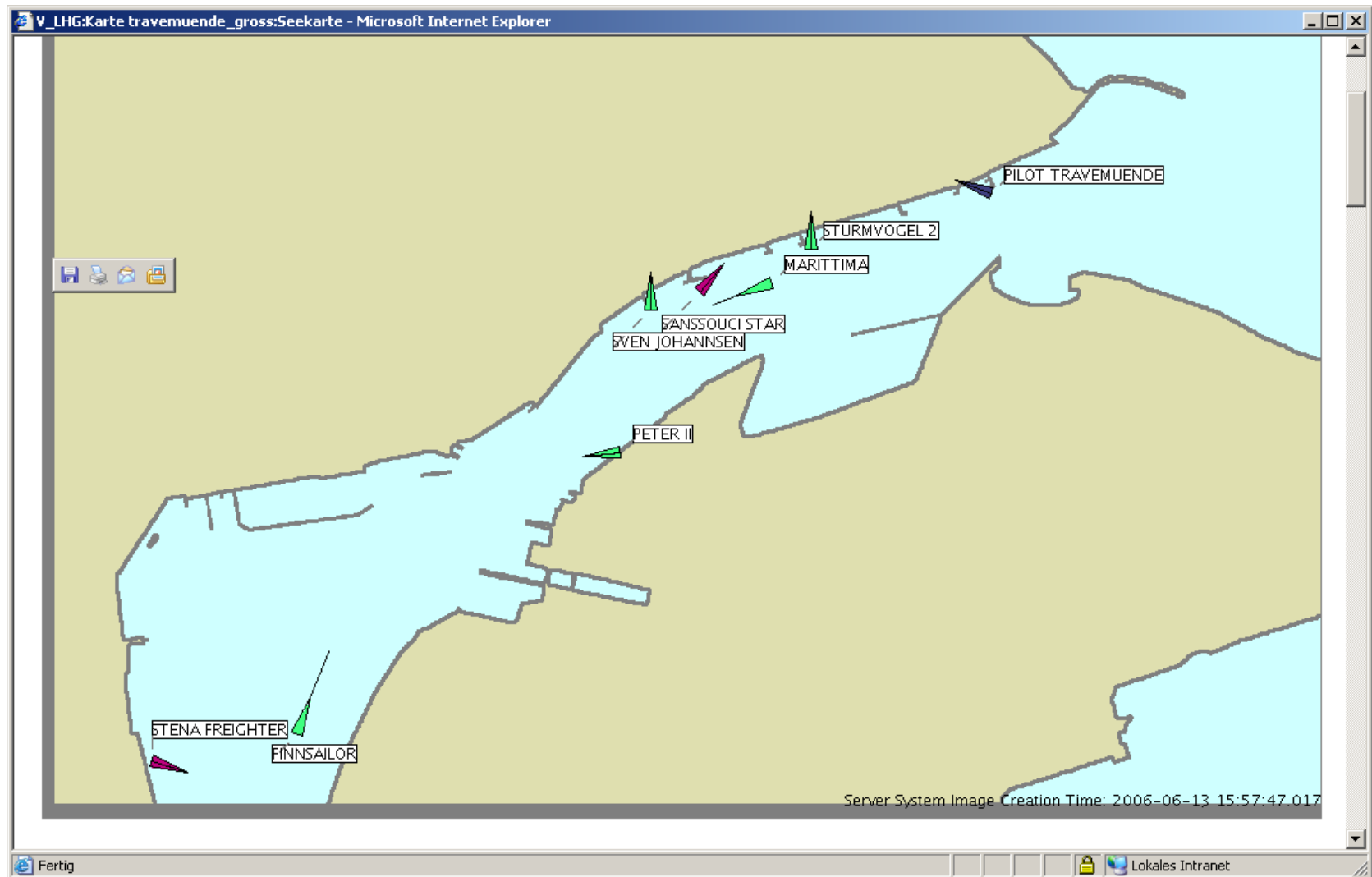
Left:





<https://www.lhg24.de/gatecheck/program/detailzoom.php?per=SKdate=060612&picype=rt&efno=2566876&cc=ff&gate=3>

Webportal <https://www.lhg24.com> live act



Thank you very much for your attention



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