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Demonstration case: “Planning the transport”

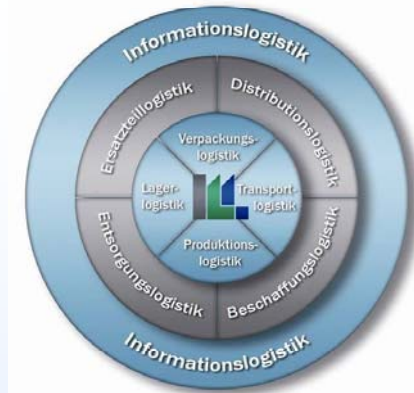
by Peter Bachl & Elisabeth Steinhuber
Industrie Logistik Linz (ILL)

RISING – IRIS Europe II Final Event
01.12.2011, Duisburg



ILL at a glance

- company name: **Industrie-Logistik-Linz GmbH & Co KG**
- field of business: **logistic services**
- company sites: **Linz (A), Steyr (A), Moerdijk (NL)**
- foundation date: **1993**
- employees: **250**
- quality management: **ISO 9001 certification**

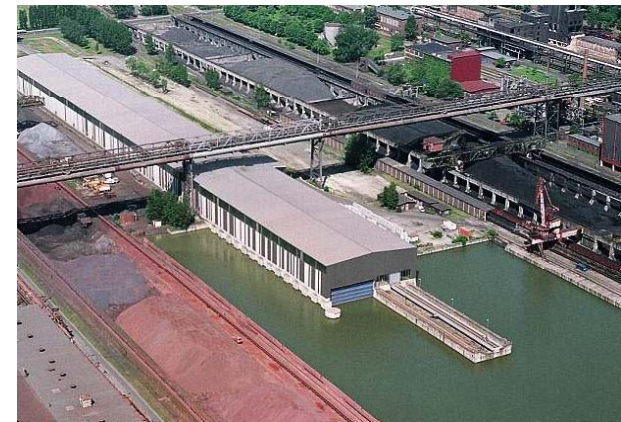


SERVICES

- goods receiving
- storage
- distribution logistics
- after sales logistics
- waste disposal logistics
- packing logistics
- transport logistics
- production logistics
- information logistics

ILL and inland waterway transport

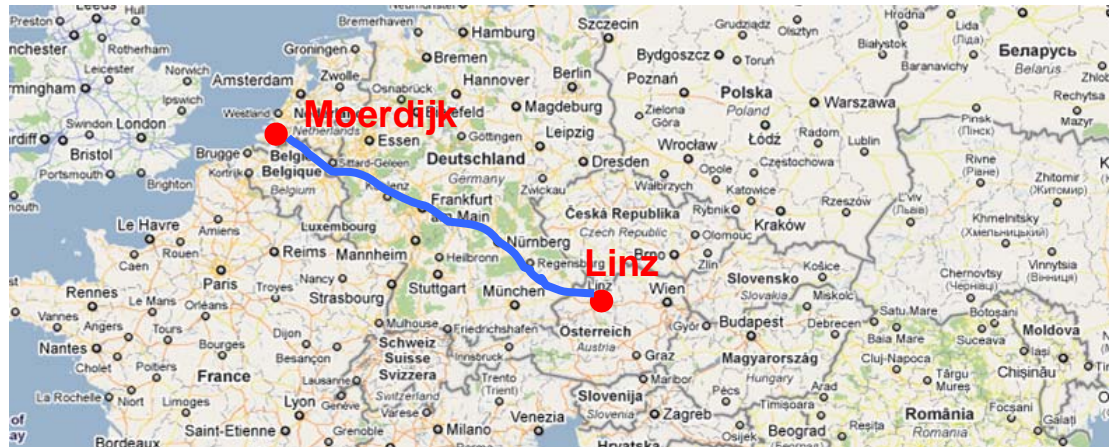
- terminal area: 16.000 m²
- storage capacity: 80.000 to
- equipment:
 - indoor dock (110 x 21 meters, depth: 2,5m)
 - travelling cranes (36 to)
 - equipment for floor storage
 - air conditioning (humidity <50%)
 - IT-based storage administration
 - truck loading area
 - railway link
- turnover > 500.000 tons / year
600 vessels / year



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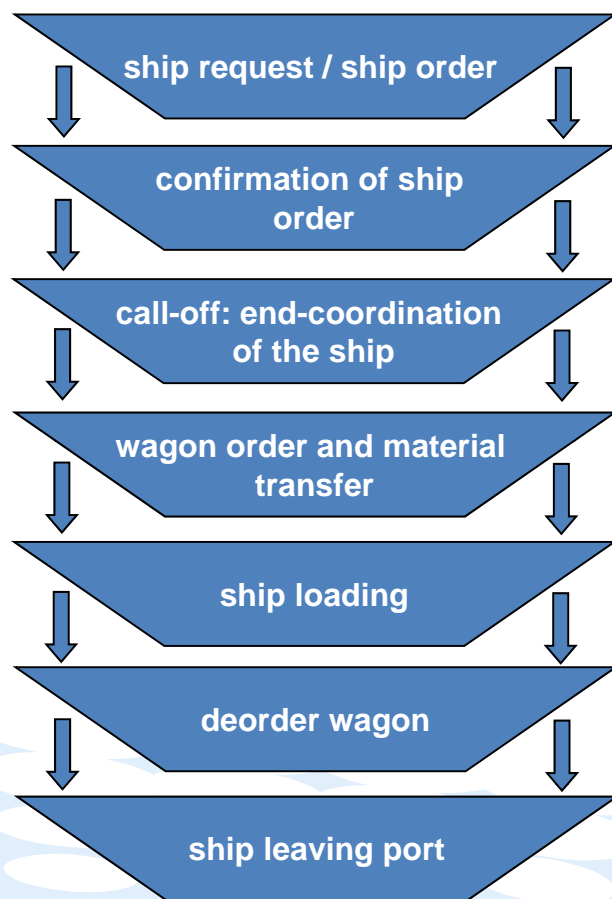
The steel-case

- ILL is acting as demonstrator in the RISING project.
- The case has its focus on the **Danube/Rhine** area. Cargo (steel coils and plates) is shipped from Austria (Port of Linz) to the Netherlands (Port of Moerdijk).
- The design of a new management process is necessary in order to increase transparency and improve planning and information exchange in the waterway section. This should reduce the total supply chain costs.
- Traffic information distributed by RIS providers will be integrated into in-house transport logistics tools and applications.



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The steel-case before RISING



All weather port

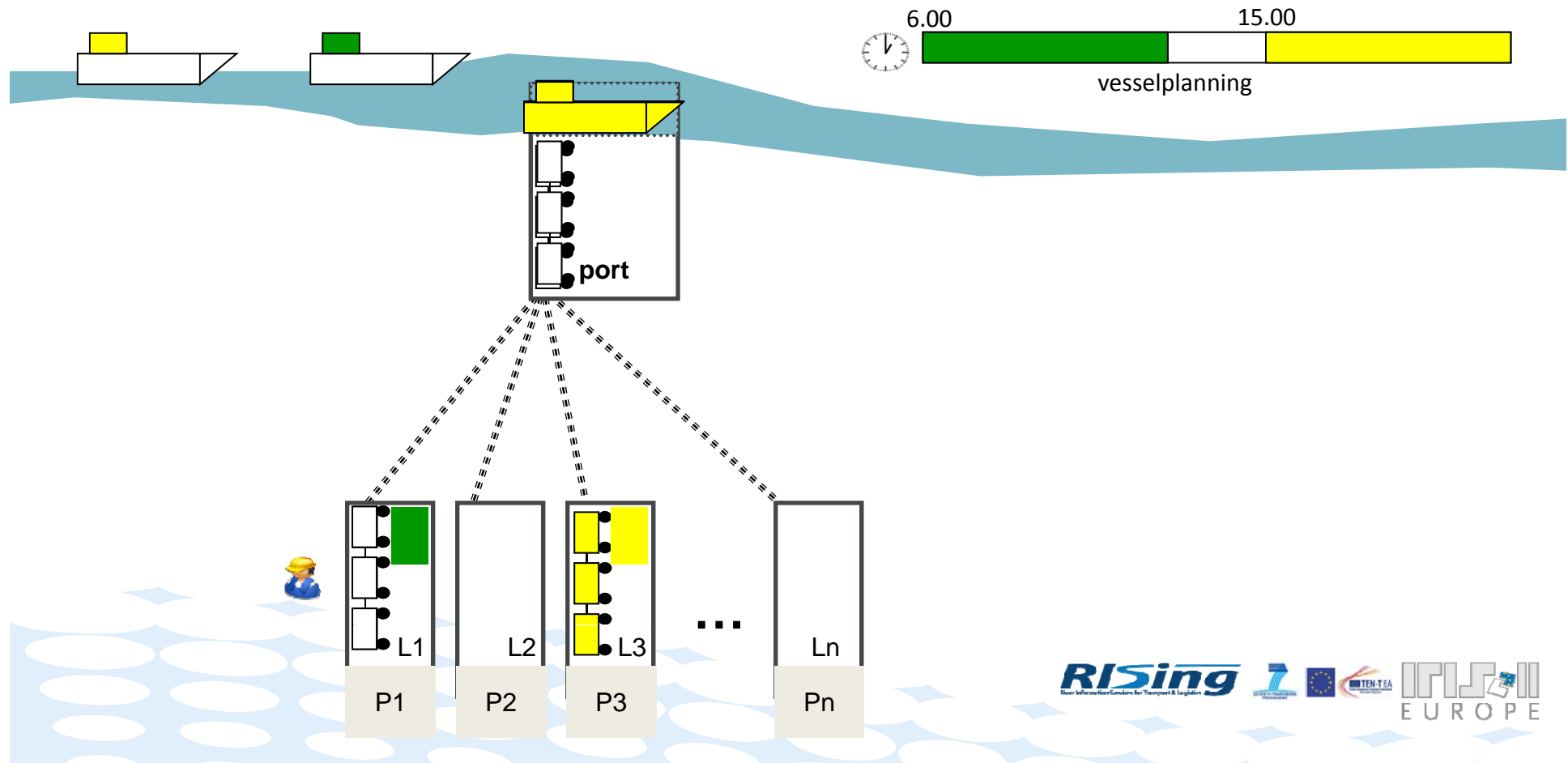
~ 20 loading points

ILL-headquarter



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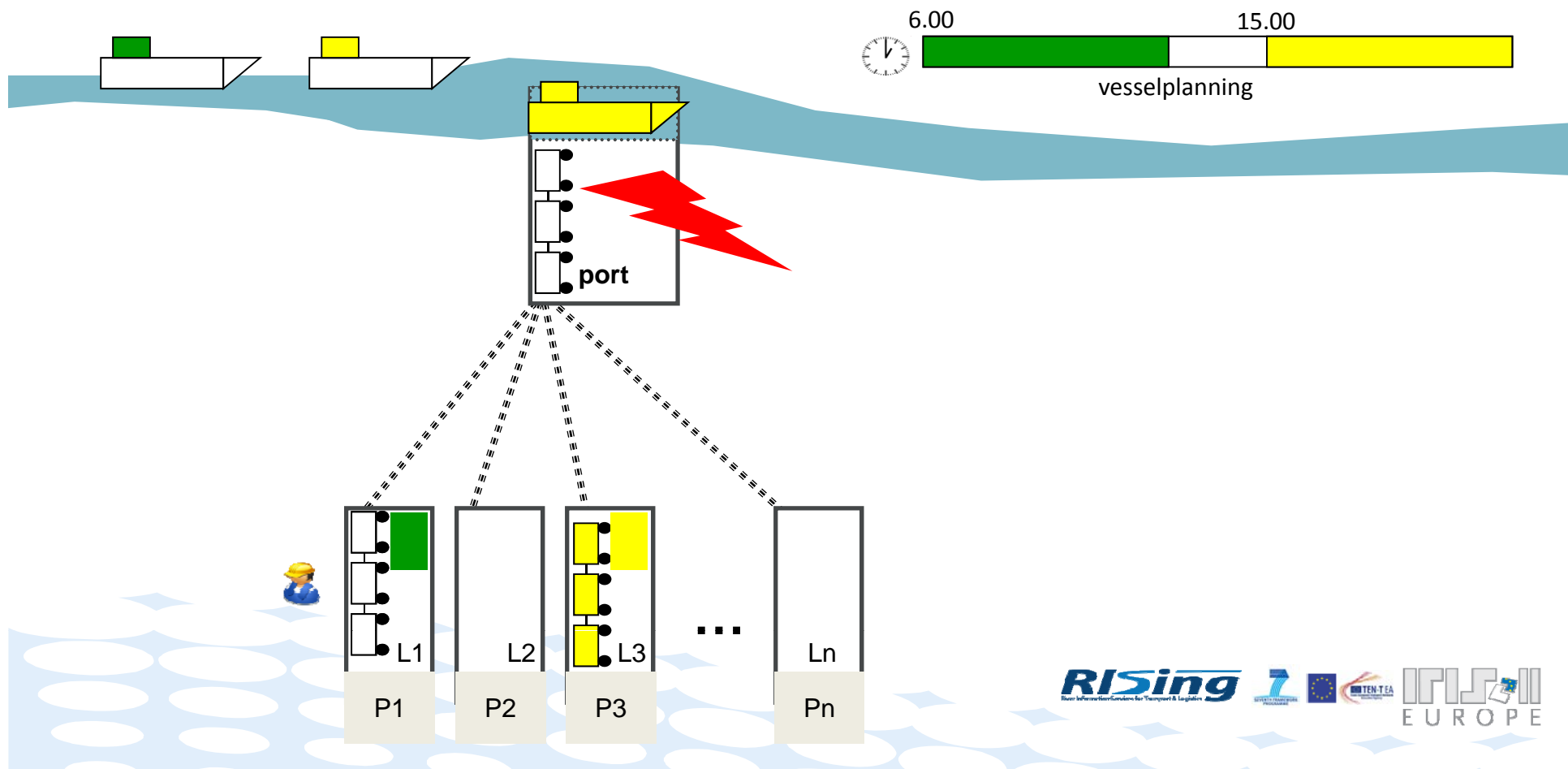
Example ILL





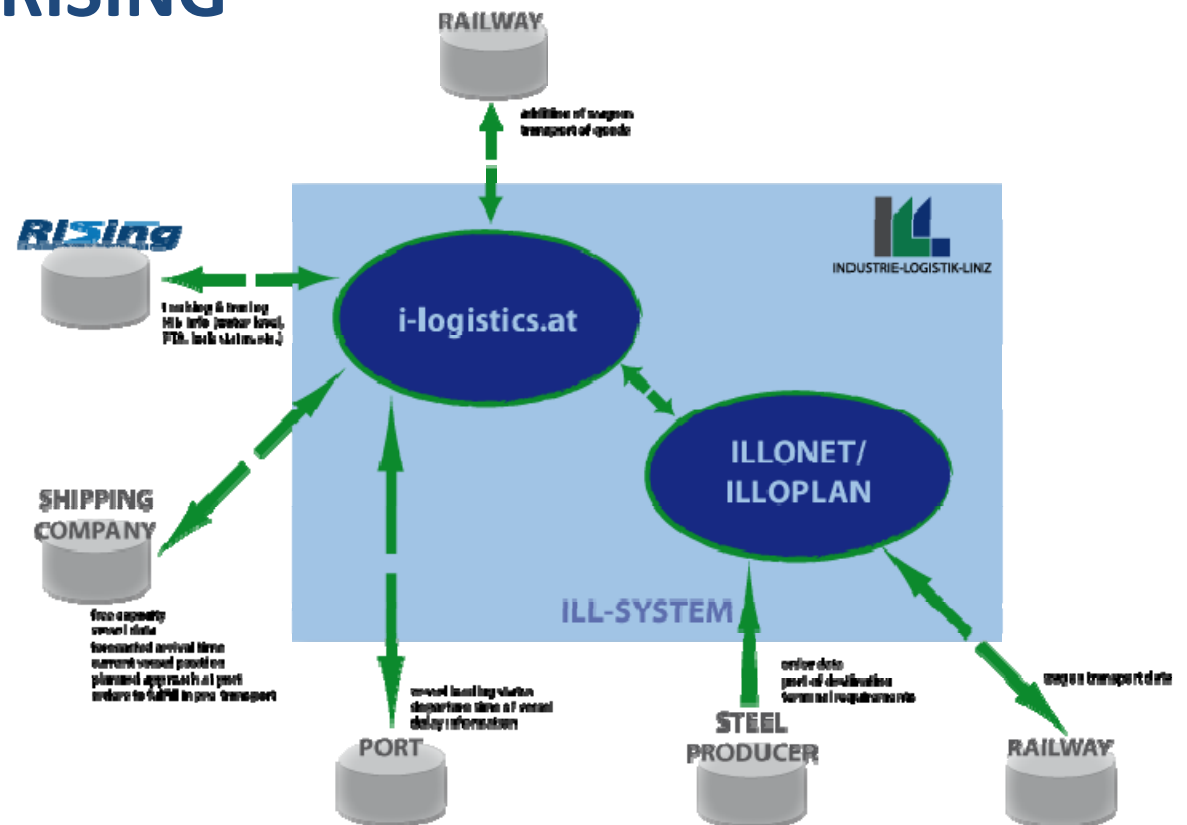
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Example ILL (effect of vessel being late)



The steel-case after RISING

- planning, tracking and tracing, event management
- internet-platform ilogistics.at





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Benefits for ILL

- optimization of planning
- improved process performance and therefore reduced waiting times of vessels, wagons and workers
- more transparency throughout the whole process
- cost reduction of total supply chain costs
- reduction of paperwork



Thank you for your attention!

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by Peter Bachl & Elisabeth Steinhuber

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Demonstration case: “Planning the transport”

by Lukas Seemann – via donau

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Danube case: The ore supply chain

Description:

- The IWT operator will transport ore products from the lower Danube to the port of Linz, where an Austrian steel plant is located
- Currently, ILL does not exactly know when the ore transport will approach the port, this causes for instance
 - inefficiencies in the field of inventory planning
 - berth/terminal planning lacks in optimisation due to missing ETA of vessels and loaded cargo



Danube case: The ore supply chain

Objectives:

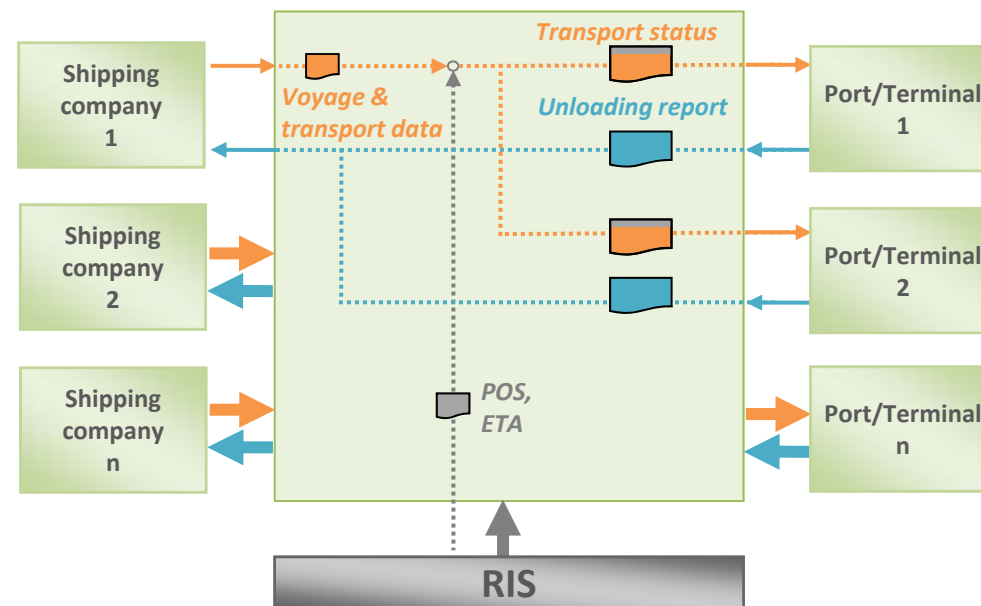
- Keep the inland port (Linz) and logistics company (ILL) along this transnational route regularly informed about any changes and updates of transport execution status
- This demo case supports the concept of a floating stock and cargo tracking by the usage of RIS data
- Providing information for instance about
 - the type and quantity of cargo (ore) which is loaded on a specific vessel
 - the Estimated Time of Arrival (ETA) at the inland port

Expected results:

- Control of in-house inventories and also the individual transport which are still in transit
- Improved planning of available berth and terminal capacities
- As soon as the transport was completed, the unloading report can be transmitted to the IWT operator

Danube case: The ore supply chain

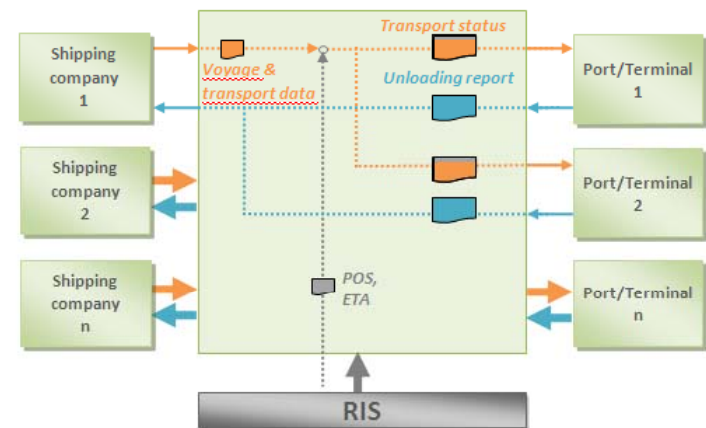
Logical system architecture – Transport Execution Status Platform



Danube case: The ore supply chain

Logical system architecture – Transport Execution Status Platform

- Implementation of open platform for all IWT operators to facilitate the provision of reliable and up-to-date transport status information
- Receiving and processing specific transport and voyage information from a published or updated ERINOT message
- Interface to River Information Services in order to receive RIS information for all vessels stated in received ERINOT
- Compile appropriate transport status information (ERINOT + POS + ETA) by means of the Transport Execution Status (TES)
- Dynamic user authorization: port/terminal only has access to transport and traffic information related to the cargo that will be transshipped at the port



Danube case: The ore supply chain

New
Main
Convoy & Cargo
Recipients

Convoy

Vessel name	Vessel Id	Length [m]	Width [m]	Max. Draught [m]	Max. Tonnage [t]	Height [m]	Shiptype
GNOM	ENI3000	200	54	15	1550		8000

Add Vessel
Edit Vessel
Remove Vessel

Total length [m] (*)
2002
Draught [m] (*)
155

Total width [m] (*)
542
Convoy type (*)
MOTOR TANKER, TUG

Maximum tonnage [t] (*)
15500

Consignments

Vessel name	Loading place	Discharge place	Class	Number	Cargo Name	Weight [t]
GNOM	BUDAPEST	LINZ VOEST PORT ILL:ILL HALL	HS	2600000000	ORE,SLAG,ASH	1000

Add Cargo
Add Simplified Cargo
Edit Cargo
Remove Cargo

Number of blue cones (*)
0

Container

Loaded: 20Ft: 0 30Ft: 0 40Ft: 0

Empty: 20Ft: 0 30Ft: 0 40Ft: 0

Save draft ERINOT
Save as template
Close without saving

(*) Mandatory field

Web-GUI for shipping company (DGW/ERI application)



RI Sing
Rust Information Gateway for Transport & Logistics



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Danube case: The ore supply chain

RLsing v2.2.1.4415:4416 **TES Platform** **RLsing** ABMELDEN DRUCKEN KONTAKT HILFE  

Terminal, Operator

Aktuelle Transporte Archiv TES Details Meine Daten

Suchen

Auftragsnummer

Name des Schubschiffs oder der Barge

☒ Nicht Gefahrgut ☐ Gefahrgut

Frachtnamen

HS Code

Aktueller Status

ETA Reise und

ETA RIS und

Behandle Suchkriterium als ☒ AND related ☐ OR related

Suchen Zurücksetzen

Aktuelle Transporte

Auftragsnummer	Schubschiff	Fahrzeug	Frachtnamen	Gewicht	ETA Reise
12345	AQUA TFAM	AQUA TFAM	MOTOR SPIRIT OR GASOLINE OR PETROL	400	11.10.2011 22:00:00
12345-R	ATVESSEL04	TestSchiff	MOTOR SPIRIT OR GASOLINE OR PETROL	0	12.10.2011 01:00:00
12345	ATVESSEL04	TestSchiff	MOTOR SPIRIT OR GASOLINE OR PETROL	400	11.10.2011 01:00:00
454545	ATVESSEL04	ATVESSEL04	MOTOR SPIRIT OR GASOLINE OR PETROL	400	05.10.2011 01:00:00
454545	ATVESSEL04	ATVESSEL04	MOTOR SPIRIT OR GASOLINE OR PETROL	400	05.10.2011 01:00:00
OD041011-1	ATVESSEL04	ATVESSEL04	PETROLEUM CRUDE OIL	1000	18.10.2011 10:00:00
OR270911_1	ATVESSEL03	ATVESSEL03	PETROLEUM CRUDE OIL	100	30.09.2011 10:00:00
0190666666	ATVESSEL04	LosGonzos	1,2-DIMETHOXYETHANE	1000	28.09.2011 05:00:00
Holodaro1	ATVESSEL04	LosGonzos	-CHLORO-1,2,2,2-TETRAFLUOROETHANE	12	28.09.2011 05:00:00

1 2 3 Next [1/51]

Details Aktualisieren des Transportstatus aller Schiffe Aktualisieren des Transportstatus eines ausgewählten Schiffes Transport löschen

ULRP hinzufügen ULRP anzeigen

Archiv anzeigen

Web-GUI for port/terminal operators (TES platform)

RLsing

1







EUROPE



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Danube case: The ore supply chain

RISing v2.2.1.4415:4416 **TES Platform** **RISing** ABMELDEN DRUCKEN KONTAKT HILFE   Terminal, Operator

Aktuelle Transporte Archiv **TES Details** Meine Daten

Allgemeine Information Nachrichtenerzeuger: ASHEL01 Erstellungsdatum: 2011-10-17 15:53:28.997 Auftragsnummer: 171011-01 TES ID: 2011TES00000185 Letztes Update: 2011-10-17 15:56:04.293	Weitere Informationen Transport Status Kontaktdaten Frachtsender Transporteinheit UN Nummer: 1267 Frachtname: PETROLEUM CRUDE OIL Gewicht: 100 Umgeschlagen von: DTSG 1 (ENI30000122)
Transportinformation Schubschiff Name des Schubschiffs: DTSG 1 Schiffs ID: 30000122 Nationalität: AT Schiffsdaten: Länge: 2551 Breite: 502 Tiefgang: 200 Tonnage [t]: 134	Geschätzte Ankunftszeit ETA Reise: 2011-10-19 10:00:00.167 ETA RIS:
AIS Daten Nachrichten ID: 1 Wiederholungsanzeige: 0 MMSI: 203999373 Navigational Status: 0 Drehgeschwindigkeit (ROT): -128 Fahrt über Grund: 0 Positionsgenauigkeit: 1 Längengrad: 163974 Breitengrad: 482330 Kurs über Grund: 1682 Aktuelle Fahrtrichtung: 511 Zeitstempel: 18.10.2011 11:16:40 UN Ländercode: AT	<input type="button" value="AIS History anzeigen"/> <input type="button" value="AIS History downloaden"/> Barge Name der Barge: DTSG 1 Nationalität: AT Schiffsdaten:

Web-GUI for port/terminal operators (TES platform)

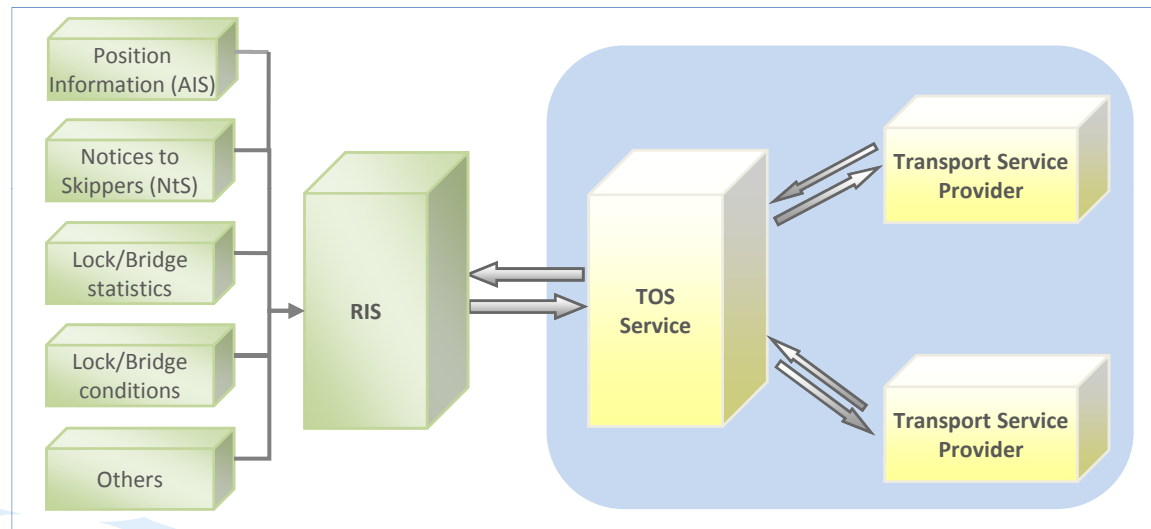
RISing
Rhein Informationssysteme für Transport & Logistik



Summary of used RIS services and messages

The steel-case

- TOS service - Transport Operation Status (Freightweise)
- Calculation of Estimated Time of Arrival (ETA); provision via web service interface



Summary of used RIS services and messages

The ore supply chain

- TES service - Transport Execution Status (Freightweise)
- Original structure and content of TES message was adapted for RISING purposes
- TES message contains
 - Cargo, voyage and hull related data (ERINOT)
 - Current position of vessel (AIS); International RIS data exchange is used in case vessel is sailing abroad
 - Estimated time of arrival (TOS service)
 - Unloading report



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