Morning agenda

- 1000-1030 Keynotes
- 1030-1100 The RTF project
- •1100-1200 What's in it for me?
- 1200-1330 Lunch













INTERFACE

Project part-financed by the EU





Goals

Door 2 Door Real Time Information for the travel chain: (Berlin)- Rostock – Gedser – Nykøbing - (Copenhagen)

Increase in attractiveness for the travel connection and facilitate and enhance comfort for:

- trip planning
- traveling (connection traffic/ next options in real time)

Target Group: Foot Passengers









Project "Interface Plus" 2010 – 2015 **Partners**

- VVW Public Transport Association Warnow
- Rostock Port
- Scandlines
- Municipality of Guldborgsund
- Movia (Rejseplanen)







Project "Interface Plus" 2010 – 2015 Main Challenges

- Connecting 6 different travel information systems from 2 countries with very different requirements in real time
- Connecting 3 different transports means (trains, ferry, buses) from very different domains (public transport, shipping) in real time
- Partly develop completely new systems Real-time information for seagoing ferry vessels developed from scratch.









Project "Interface Plus" 2010 – 2015 Main Results



- Ferry Real Time Information System ("FRIS") for Scandlines Ferrys Rostock-Gedser (based on AIS + own self-learning prediction algorithms)
- Port of Rostock Passenger Terminal Information
 System (Scandlines in real time/ TT-Line, Stena Lines,
 SOL, Finnlines with schedules and cancellation)
- Intermodal (Ferry) Real Time Information in journey planners (Deutsche Bahn, VVW, Rejseplanen)
- Real Time Information inside transport means and at station boards along the whole transport chain



















23:41

Rejseinformationer • Reiseauskunft • Travel Information

	Linje	Fra	Afgang	Til	Ankomst
	Linie	Von	Abfahrt	Nach	Ankunft
	Line	From	Departure	To	Arrival
Sc	andlines	Rostock	23:45 23:45	Gedser Færge	01:45 01:45

€	5 min

Gedser Færge (... 04:39 Nykøbing Falste... 05:18

Retning: Nykøbing F St.;

*	3 m
(X)	3

Togbus G... Nykøbing F St. 05:30 Vordingborg St. 06:10

Retning: Vordingborg St.; Cykler kan ikke medtages







On Board Displays Scandlines Ferry "Copenhagen"











Reiseauskunft • Rejseinformationer • Travel Information

			Linie Linje Line	Haltestelle Busstopested/Station Stop/Station		Zeit Tid Time	Heute I Dag Today
1	B	▼ Scandlines	SCL	Gedser Rostock Scandlines	ab • dep an • arr	07:00 08:45	07:00 08:47
	0			Fußweg • Gangafstand • Footpath ca. 5 min			
‡ (BUS	ROSTOCKPORT	Shuttle	Rostock Scandlines Rostock Seehafen Fähre	ab • dep an • arr	09:00 09:05	
	8			Fußweg • Gangafstand • Footpath ca. 0 min			
‡ (BUS	R RSAG	49	Rostock Seehafen Fähre Rostock S Lütten Klein	ab • dep an • arr	09:31 09:43	09:31 09:43
	0			Fußweg • Gangafstand • Footpath ca. 4 min			
† (9	DB BAHN	S2	Rostock-Lütten Klein Rostock Hbf	ab • dep an • arr	09:56 10:09	09:56 10:09



Alle Angaben ohne Gewähr • Informationer uden garanti Information without guarantee





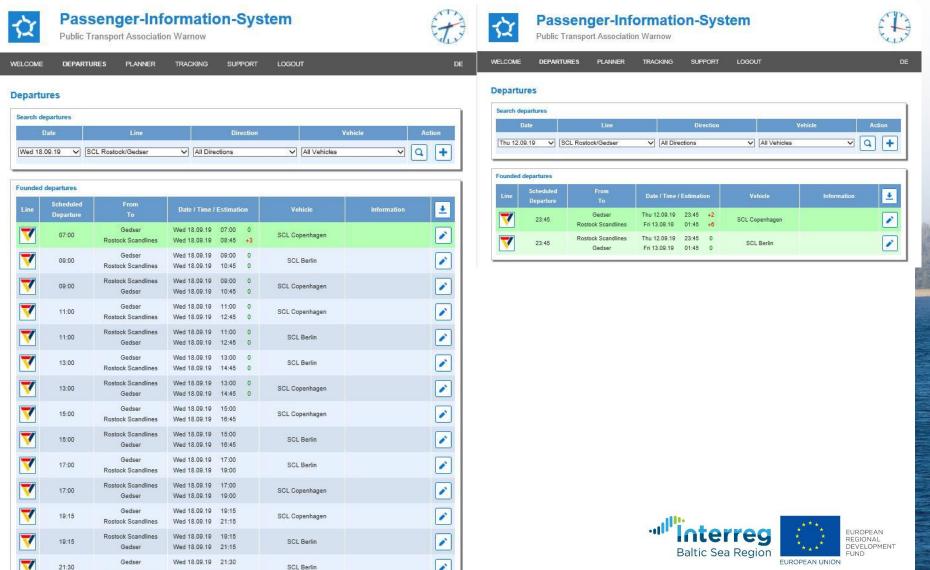






FRIS - Ferry Operator Web-Tool for schedule planning, dispatching and real time





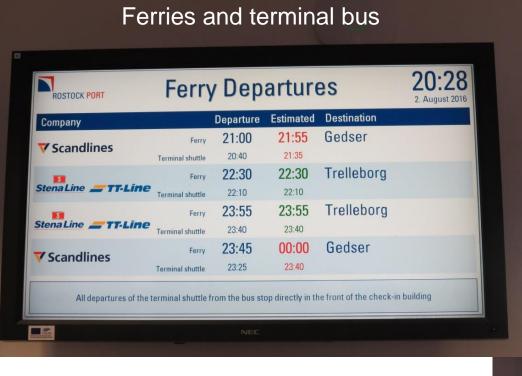


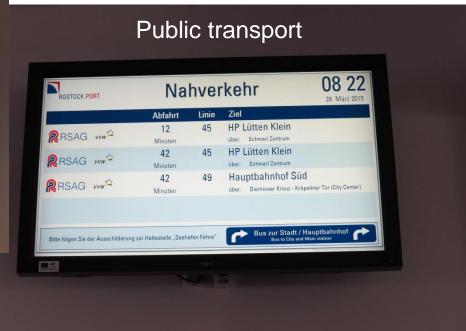




Passenger Terminal Displays - Rostock Port (DE)





































Station Boards - Gedser Port and Nykøbing F Main Station (DK)









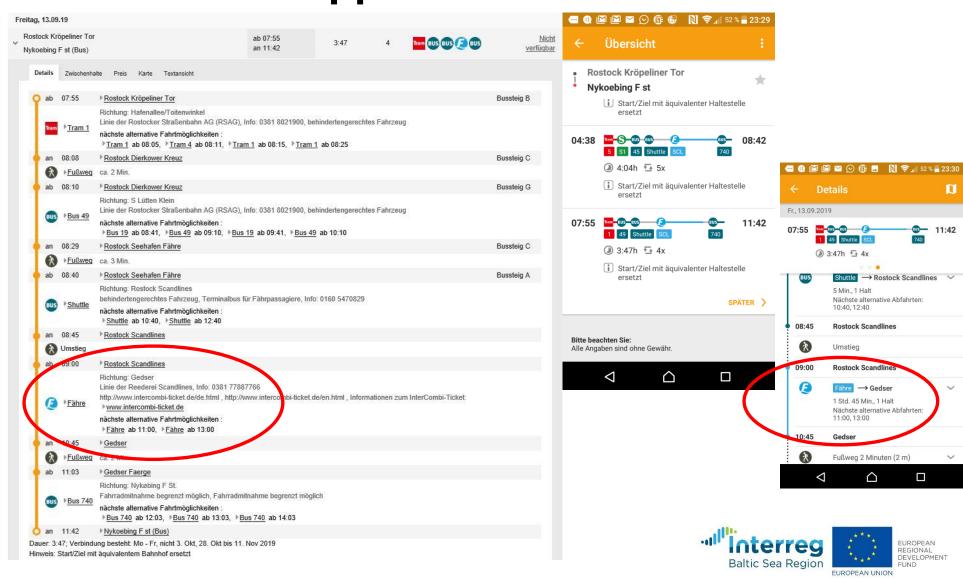


With info about trains to Copenhagen





Journey Planner VVW (Rostock) Internet and App

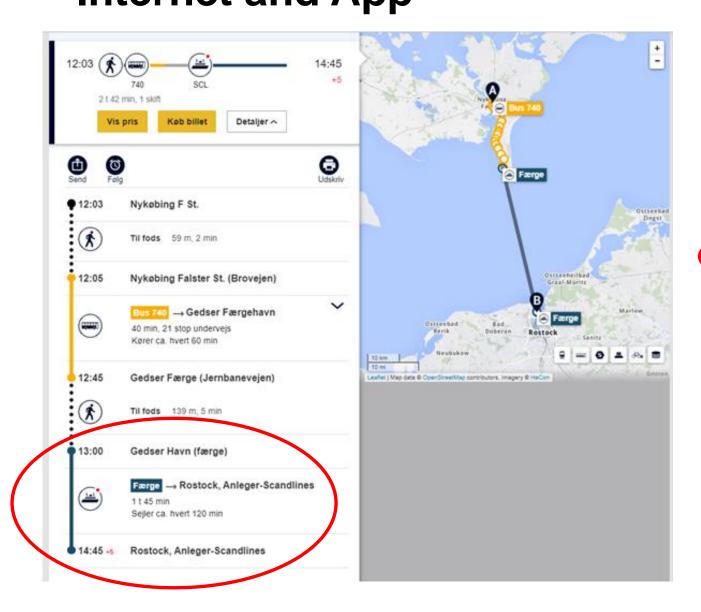






Journey Planner Rejseplanen (DK) Internet and App











What's in for me? Benefits for Scandlines (and other ferry companies in Rostock):

- Improved passenger satisfaction enhancing the comport of the journey
- Automatized, fast and reliable information in case of deviations, cancellation etc.
- Wide spreading of information(automatic feeding of prominent nationwide journey planners)
- Optimization of different internal processes:
 - Automatized shuttle bus ordering in Port of Rostock in accordance with ships' real time arrival/ departure
 - Better information to stevedores etc. in case of delays
- Meeting EU Passenger Rights









What's in for me? Benefits for the Port of Rostock:

- Uniform and homogeneous passenger information in the ferry terminal (schedules and cancellation of all ferry operators + real time info for Scandlines)
- Enhanced comfort of stay in the terminal
- Optimization of internal processes:
 - Automatized terminal bus ordering service for all ferry operators in accordance with ship's real time arrival/ departure
- Improved information about public transport connections between port and city (incl. connection protection for delayed ferry's)











We learned a lot in this EU project. And we use it to achieve even better results in RTF

Thank you for your attention

www.realtimeferries.eu





Added values of ferry real time data from the point of view of a logistics service provider

Jens-Uwe Uhlich Schenker Deutschland AG







1st RTF Conference Rostock September 18, 2019









Agenda



- Current situation & DB Schenker use case
- Operative solutions
- Advantages with real time data









current situation



- ferry destination between Rostock and Trelleborg is one of the main routes for DB Schenker in south/north V.V.
- Real time information on ferry delays/earliness, cancellations, changes of berths, etc. are not automatically available and can only be accessed conventionally by phone, fax or e-mail
- Dispatcher and lorry driver do not receive timely information about changes and can not respond to that
- We work like in a black box









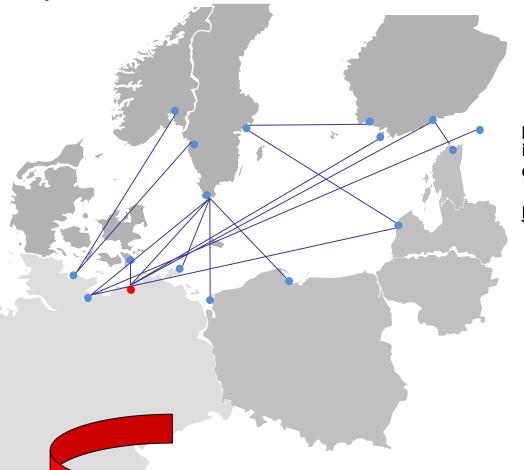


current situation









potential volume in the Baltic Sea controlled by Schenker

For example:

- FI-DE 13.000 units p.a.
- FI-SE 20.000 units p.a.
- DK-DE 5.000 units p.a.
- FI-IT 6.000 units p.a.
- SE-IT 6.000 units p.a.
- NO-DE 5.000 units p.a.
- DE-SE 15.000 units p.a.





All units shipped currently without real time





Universität Rostock Lehrstuhl für Produktionsorganisation & Logistik Prof. Dr.-Ing. Nina Vojdani

current situation



Consequences in case of delay/cancellation

- Hard factors
 - no possibility to plan reliable uses of staff and equipment (lorry, trailer, tugmaster, fork lift, etc.)
 - overtimes of staff
 - inefficient / low utilization of the capacities and logistic facilities
 - delays in delivery and waiting times for subcontractors
- soft factors
 - low performance in the whole supply chain due to lack of information
 - bad KPI performance more and more a relevant indicator for delivery reliability on a clients side









Real time data information system – Use cases



- flexible check-in & boarding time handling for arriving trucks: truck driver mobile phone app
- Just-in-time pick up of unaccompanied trailers in the port area
- Use Case #3: optimizing processes of large forwarding companies related to ferry passages
- Up-to-date foot pax and/ or car pax travel time prognosis via travel planners & ticketing APPs of "third party providers" (google, etc.)
- Convenient & safe on-time arrival by car to the ferry departure
- On-board information for foot pax & car pax on connecting public transport options & road traffic situation



Quelle map: Interreg Baltic Sea Region









Operative solution



targets:

- development of an own APP or "a hybrid window on desktop", to receive automatically the real time data of the ferry in case of disorders
- automatically transfer of information to the involved target groups (via APP)
- future integration into our used transport management system (TMS)

target groups:

- dispatcher road / trailer
 - to reroute of lorries
 - to inform the involved parties
- dispatcher warehouse
 - to plan the capacities of staff, technic, equipment, etc.
- dispatcher rail / train/intermodal and dispatcher customs
- lorry driver, clients, consignees









Dashboard



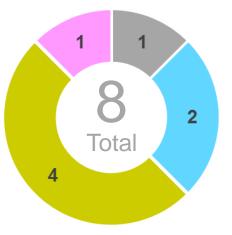
Departure



May 23, 2019 14:30 Time to departure: 01:15

Days without a delay: 130

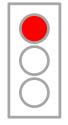
Trailerstatus



Stena Line - Skane

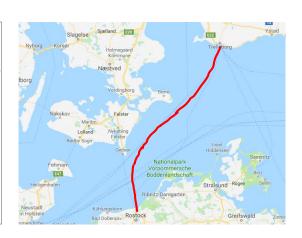
STD: 15:00 ETD: 15:45

Delay: 00:45 min reason: previous trip



picked goods	at BSG	on storage area	shipped
--------------	--------	-----------------------------------	---------

Date	Ship name	STD	ETD	STA	ЕТА	Info	ILU
23.05.19	Skane	15:00	15:45	21:00	21:45	Delay	SEQA0012345 SEQA0012346 SEQA0012347 SEQA0012348 SEQA0012349 SEQA0012350 SEQA0012351 SEQA0012352











added value/benefits for DB Schenker



DB Schenker

- information as a most important intangible good
- improvement of planing process along the whole supply chain
- improvement of customer service
- increase of customer satisfaction
- improvement of capacity utilization
- reduction of overtimes of warehouse staff
- reduction of waiting times of lorry driver
- harmonizing of dashboards and uniform measurement of KPIs
- Improvement of the supply Chain Visibility (standardized rules and methods)

consignees

- real time data about the delivery status
- further processing of information into different areas like warehouse, production, customer service, etc.











Added values of ferry real time data from the point of view of a logistics service provider

Many thanks for your attention.







1st RTF Conference Rostock September 18, 2019









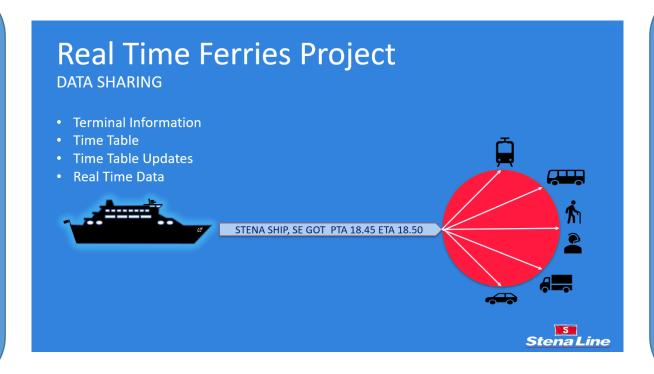
Stena Line Digital Transformation 2017->

A cognitive journey - moving from paper to digital a cross the organisation



- Information exchange
- improve operational efficiencies and performance
- sustainable ferry journeys
- Improve customer satisfaction
- reduce cost
- reduce workload

•



Information sharing

- Internally to support Stena Operations
- With partners added value & efficiency
- With customers

Prompt travel information

Public

Shared and accessible via WEB



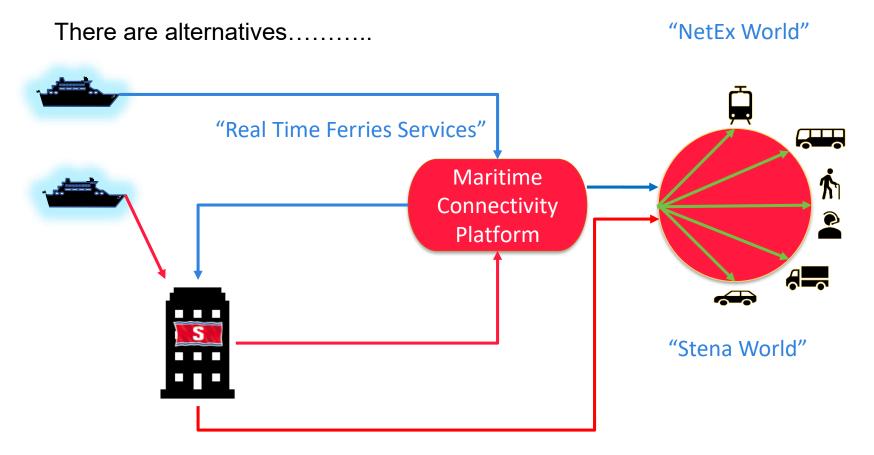


How to implement RTF in Stena Line?

Without adding new systems, increase workload and jeopardize safety



- Machine to Machine information exchange
- Use International standard format
- Safe integration with bridge equipment
- Minimize human interaction
- Control of the information exchange







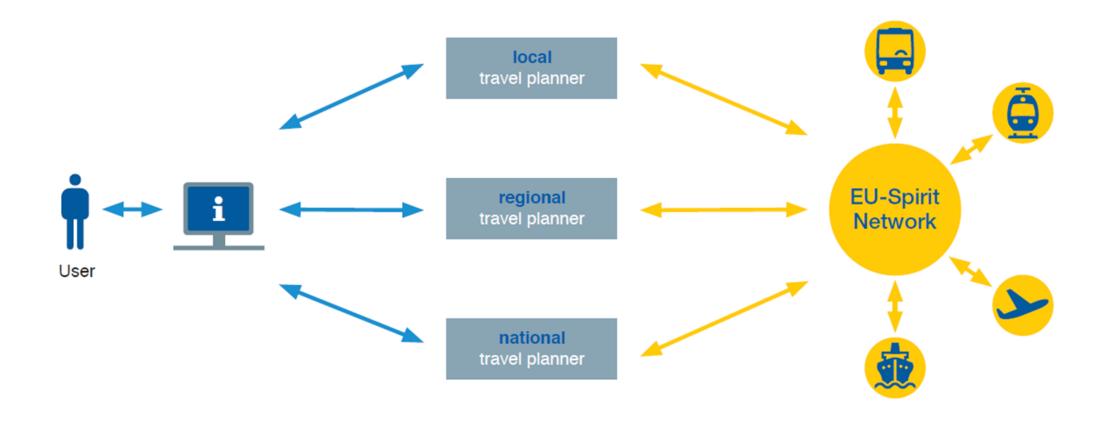






Cross-linking within the EU-Spirit network

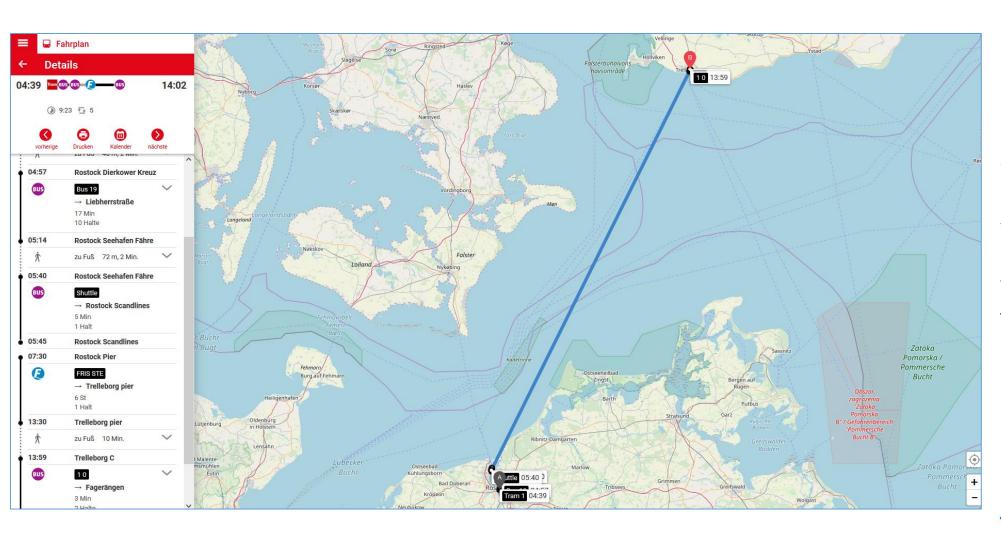






EU-Spirit today (1): travel information (scheduled data)





Rostock, Steintor IHK → Trelleborg, Alléen

Date 19. September 2019
Via Ferry => Trelleborg
Departure 04:39 AM
Arrival 14:02 PM
Duration: 09:23
Transfers: 4



EU-Spirit today (2): travel information (scheduled data)





Rostock, Steintor IHK → Trelleborg, Alléen

Date 19. September 2019 By train via Hamburg / Copenhagen Departure 07:05 AM Arrival 16:02 PM Duration: 08:57

Transfers: 6



Do you have questions?





Division Head of Planning and Customer Information



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juergen.ross@vbb.de VBB.de









Thank you!

It's time to get visible!

Real Time Ferries – sharing real time departure and arrival times for ferries in the Baltic Sea Region to facilitate passenger and goods transport

www.realtimeferries.eu





