



Timetabling

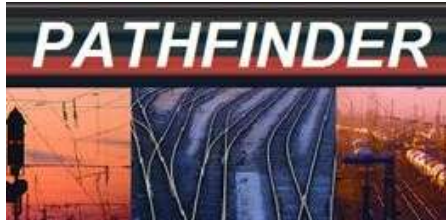
Harald Hotz, RNE Vice-President



Timetabling Agenda



1 . RNE Click & Ride Project



2 . Pathfinder

New Instant Capacity Product for Freight Traffic

Initial situation

- **Market need/feedback speed-dating Business Conference 2008**
 - short-term solutions for international transport required
 - rail is part of a flexible transport and logistic chain and needs to adapt and fit in
 - strong trends towards short-term offers to achieve maximal flexibility
- **RNE set up the “Click & Ride” project in the beginning of 2009 in order to create new capacity products for freight traffic**
- **Project was approved by the RNE General Assembly in May 2009**

New Instant Capacity Product for Freight Traffic

Aims of “Click & Ride”

- 1. Definition of new capacity products which can be implemented all over Europe**
- 2. New method of offering and selling these products**
- 3. Enabling IM response times which really meet the needs of the market**
- 4. First and easy approach for IMs & RUs to get acquainted with TAF/TSI obligations (mandatory use of an application for Short-term path requests)**

New Instant Capacity Product for Freight Traffic

Click & Ride



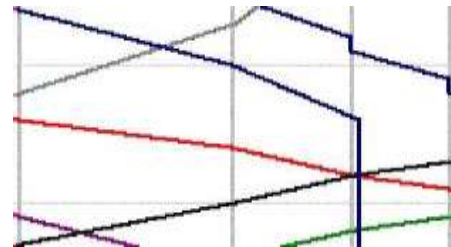
Instant Capacity products

Pre-constructed path

Transport time path



Click = request



Ride = train run

From booking (click) to the train ride in just a few hours

New Instant Capacity Product for Freight Traffic

Offer instant capacity to operate trains at short notice

The Approach:

RNE develops **products** reflecting today's and future market needs



Transform available infrastructure capacity into standardised and optimised products

Enable substantial shortening of response times for international path

Switch from current demand-based to supply-based philosophy

RNE develops IT **application** for easy access to capacity



Similar to e.g. flights, hotel rooms, car rentals, etc.

Instant reservation function

New Instant Capacity Product for Freight Traffic

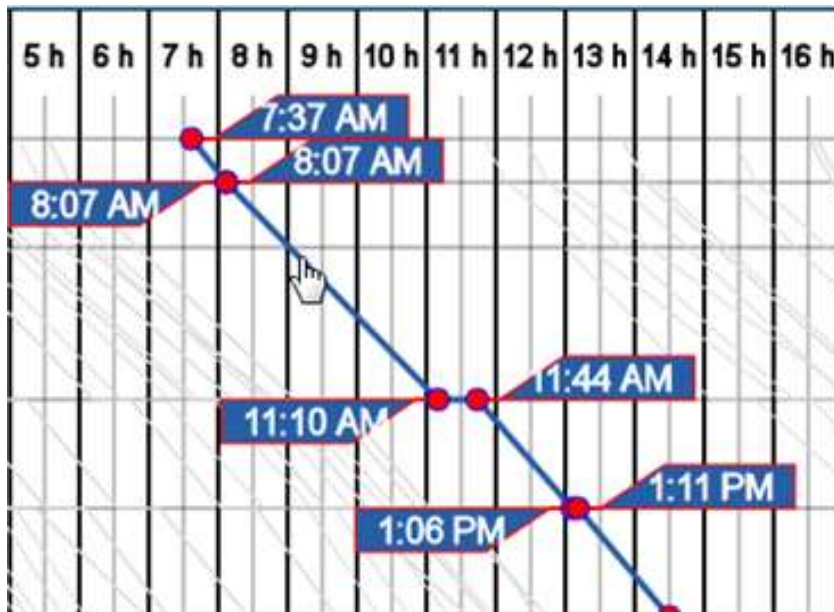
Current RNE activities

- **RNE WG Marketing/Sales defines detailed product definitions based on a customer survey and members opinion regarding feasibility and impact**
- **RNE WG Timetabling will be responsible for the implementation in the timetable process**
- **RNE WG Quality & Operations will clarify how to dispatch such products**

- **Timeline**
Project should be finished in December 2010

Brenner Corridor Pilot (RNE Corridor C04)

Pre-constructed path approach

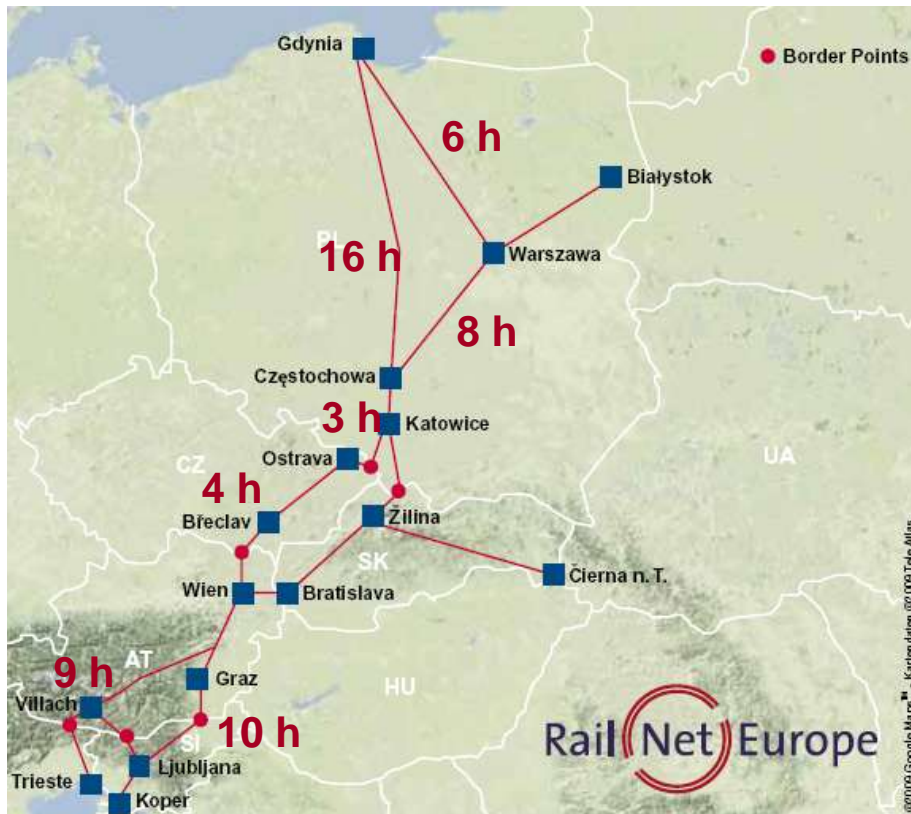


Available capacity displayed at booking

- Short response times to requests (3 hours)
- Pre-defined parameters (speed, weight, length)
- Detailed timetable for Railway Undertaking
- Start: March 2010

Baltic Sea-Adriatic Sea-Corridor Pilot (RNE Corridor C07)

Transport time path approach



Customer chooses desired departure or arrival time and receives a given overall transport time

- Short term availability (6 hours)
- Rough estimation timetable
- Easy handling during operation
- Start: April 2010

Pathfinder is now covering for all timetable phases

Preparation of the next annual timetable

Preparation of the running timetable

Jan X-11 Feb X-10 March X-9 April X-8 May X-7 June X-6 July X-5 Aug X-4 Sept X-3 Oct X-2 Nov X-1 Dec X Jan X+1 Feb X+2 March X+3 April X+4 May X+5 June X+6 July X+7 Aug X+8 Sept X+9 Oct X+10 Nov X+11 Dec X+12

Placing of path requests for next annual TT

(Initial solution)

(April 2009)

Placing of late path requests for next annual TT

- After deadline X-8
- Until X-2
- Paths are planned on the basis of leftover capacity

(November 2009)

Placing of ad-hoc path requests

- For the running timetable (x → x+12)
- “First in – First served”



Pathfinder activities

- Pathfinder will be prepared for the handling of the instant capacity products
- Simplified workflow - One template for all kind of path requests (placed in time, late and ad-hoc) and feasibility studies
- Ongoing development of the Pathfinder Integration Platform on RMs and IMs side
- DB Schenker announced the extensive usage of Pathfinder for path requests in the running timetable from summer 2010
- Pathfinder Days 2009: 60 participants

Summary

- Project “Click & Ride” has been started
- RNE will start pilots for testing the new capacity products on Corridors C04 & C07 in Spring 2010
- Continuous development of Pathfinder to become the one and only tool for path requests for international train traffic