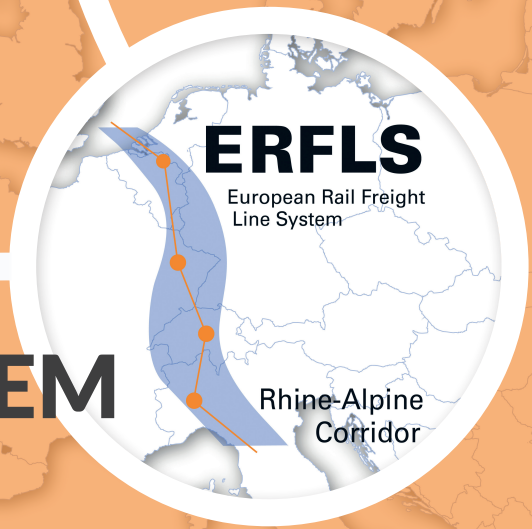


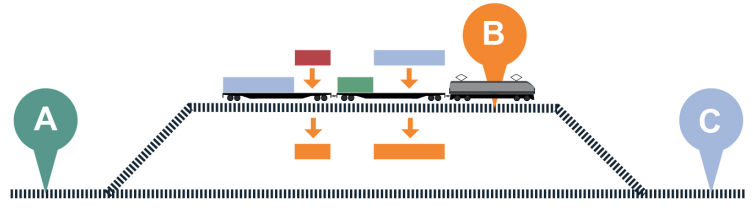


Co-financed by the Connecting Europe  
Facility of the European Union

# ERFLS CEF ACTION EUROPEAN RAIL FREIGHT LINE SYSTEM

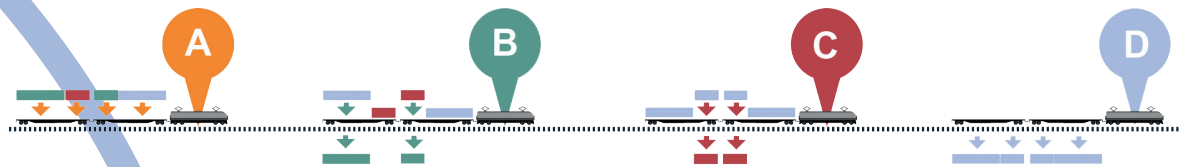


ERFLS looked at whether intermodal units could use freight trains just as passengers use intercity trains - several short stops where intermodal units are unloaded or loaded.



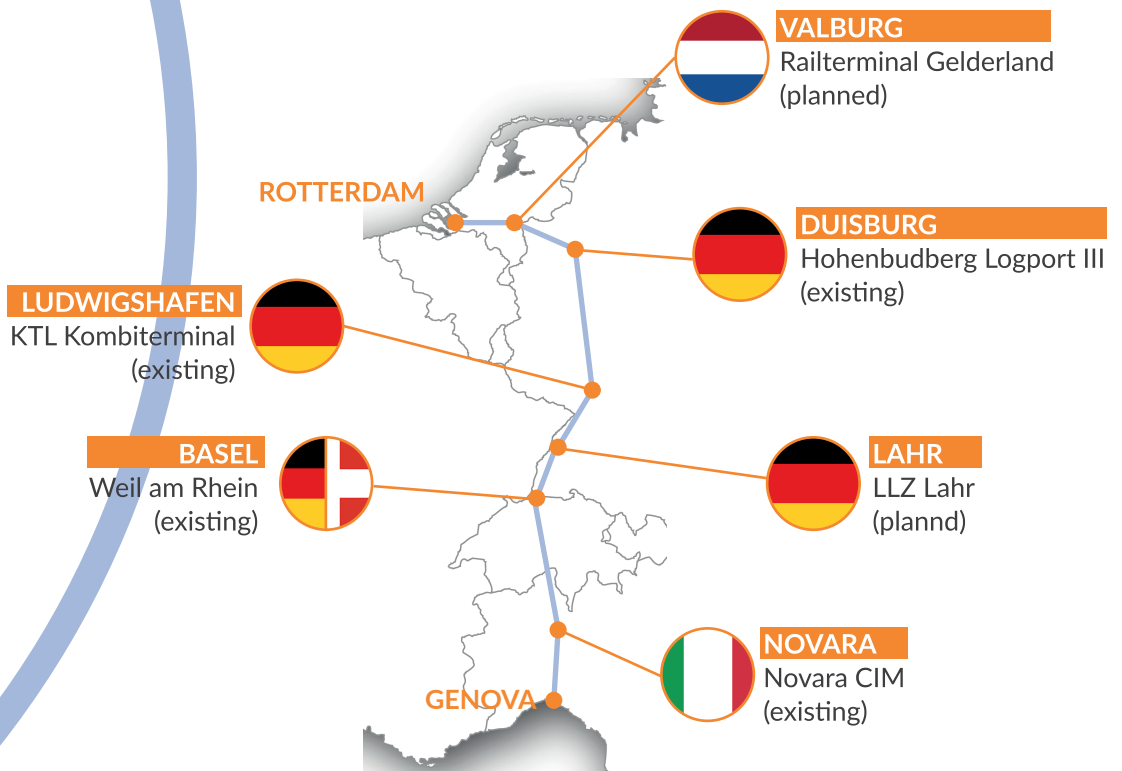
ERFLS found that the concept has advantages and is feasible today with small changes to current infrastructure. Benefits accrue also with limited changes to existing terminals.

## RESULTS



To make it happen terminals, trains, operators will work as a system thanks to telematics hyper linking to their own IT.

Six terminals along the whole Rhine Alpine Corridor were examined as case examples and all can become ERFLS smart terminals. Times and costs for adapting existing terminals are available.





## PROJECT

Adaptations of terminals will lead to benefits also for other intermodal traffic:

- 1 **DIRECT ENTRY AND EXIT OF TRAINS**
- 2 **OPTIMISED OPERATIONS THANKS TO TELEMATICS**
- 3 **REDUCED DWELL TIME**
- 4 **OPTIMISED ROAD-SIDE OPERATIONS**

The ERFLS telematics linking terminals, trains, ITUs, slots on wagons, and operators will enable:

**RELIABLE REAL TIME INFORMATION WITH CURRENT TECHNOLOGIES**

**SALE OF SLOTS ON TRAINS EVEN AS THE TRAINS ARE TRAVELLING**

**SCALING UP THE DIGITALISATION OF INTERMODAL RAIL FREIGHT**

## NUMBERS

Simulations show that ERFLS can bring additional ITUs at smart terminals and attract:

**7,400-10,070**  
MILLION TONNES-KM PER YEARS

**14-18**  
MILLION TONNES PER YEARS

EQUIVALENT TO A **9-13%**  
MODAL SHIFT FROM ROAD TO ERFLS CALCULATED FOR DISTANCES LONGER THAN 300 KM

This would result in:

**240,000-280,000**  
TRUCK TRIPS PER YEAR SAVED

**22,000-25,000**  
OF OIL EQUIVALENT PER YEAR SAVED

## FUTURE

TAKE ERFLS INTO PRACTICE WITH TRAINS IN REGULAR SERVICE TO DEMONSTRATE THE CONCEPT ALONG THE RHINE-ALPINE CORRIDOR.

BUILD A PARTNERSHIP TO DEVELOP ERFLS INVOLVING TERMINALS, SHIPPERS, INTERMODAL OPERATORS, RAILWAY UNDERTAKINGS, INFRASTRUCTURE MANAGERS AND RAILWAY SAFETY AGENCIES.