



# QCO Oderbrücke

## Overview of current activities

**Dennis Goll**  
**DB Netz AG**  
RAG/TAG meeting  
Rostock  
12<sup>th</sup> of October 2022



# Quality Circle Operation eliminates border problems, reduces dwelling time and enables growth in international rail freight



## Problem



Border points can be defined as **Bottlenecks** have a negative impact on quality in rail transport



Implementation of the **European growth targets** in rail freight transport will worsen the situation at the borders



**High dwelling time:** Standing trains waste capacity at IM and RU



**All borders** are more or less strongly **concerned**



## Cause

**Border point is interface error-prone** for all processes of RU and IM.

Examples:

- RU: Trains block tracks due to uncoordinated train handovers (Train driver / loco Change)
- Timetable: The timetable as a work basis of the traffic controller is not coordinated, hence he has to puzzle together national trains at the border
- Operation: Traffic controller cannot manage trains correctly in cross-border section (no transparent IT view)



## Solution QCO Quality Circle Operation

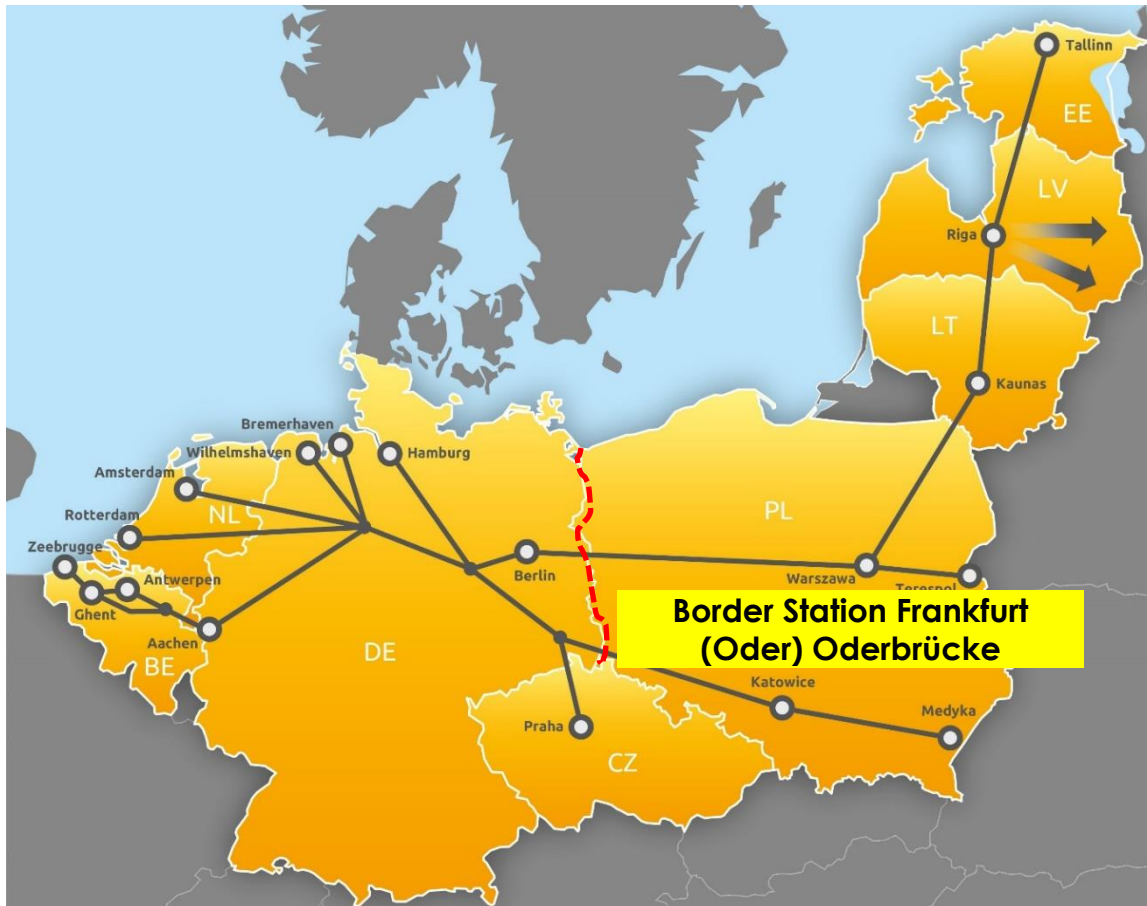
The target is a seamless border

- **QCO** creates **solution platforms** (basic workshop & continuous improvement process) at the borders for the concerned parties (IM, RU, RFC)
- **Focus** lies on **reduction of the border barriers** for operational processes
- Become more effective and reliable through **central control** and **regional implementation**
- Focus is **reduction of dwelling time**



**KPI dwelling time**

## Limited Capacity in Frankfurt (Oder) Oderbrücke can affect the whole corridor performance



- Limited capacity in the train station for parking of trains
- Different train control systems (PZB, SHP) make stop necessary
- Language barrier requires change of personnel

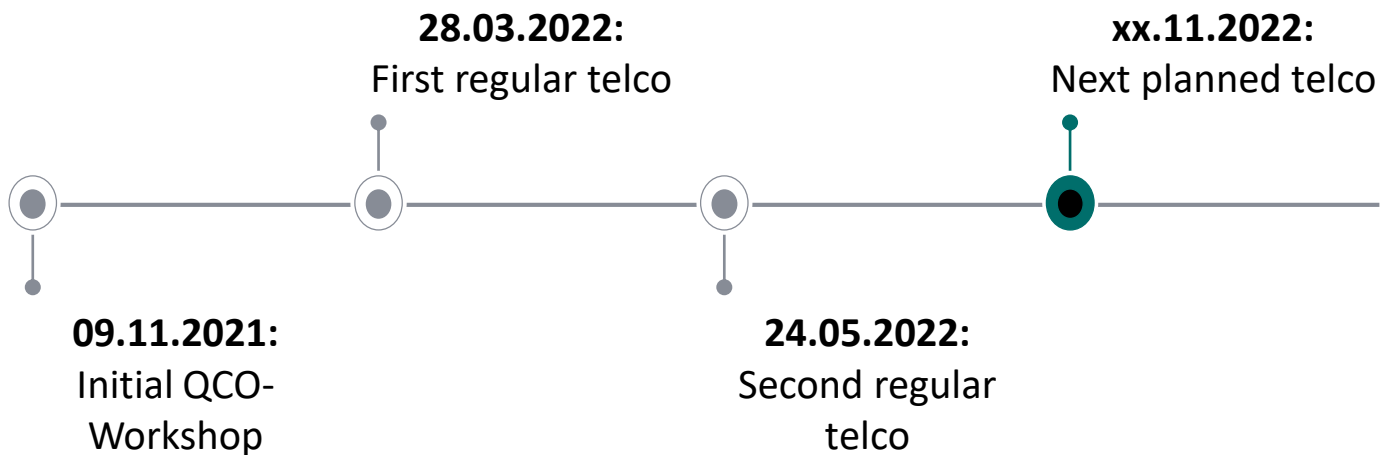


- Uncoordinated construction prevent efficient flow of traffic
- Exceeding of planned dwelling times reduces capacity



- Delays
- Traffic Jams
- Unpunctual trains
- Dissatisfied customers
- Negative market reaction
- Loss of revenue

## QCO-Programme was introduced in November 2021 at border crossing Frankfurt (Oder) Oderbrücke / Rzepin



- Participants: DB Netz AG, PKP PLK S.A., RUs, Terminals
- Meeting Schedule: Aiming for 1 meeting per quarter
- Focus on IM- and RU-related topics



## Currently 6 topics are being worked on

1.

Implementation of minimum criteria for path requests in cross-border agreements



Criteria were defined and implementation in updated cross-border agreement is planned for December 2022.

2.

Analysis of support for cross-border coordinator (information, IT-tools)



Analysis of information flow was made. Currently, provision of additional IT-support is under investigation.

3.

Missing rest rooms for RU-staff at Oderbrücke



Checking whether provision of container-based solution is feasible. Discussion with sales department DB Netz.

4.

Language requirements for train drivers



No deviation from the current regulations from IM-side. Currently, a speech to speech translation tool is being developed. Go-Live is planned for 2026.

5.

Analysis of unnecessary stopping times in border area (e.g. transmission of written order to train driver)



Digitalization project ongoing, for the time being written order needs to be delivered due to safety reasons.

6.

Implementation of dwell time monitoring



Implementation of dwell time monitoring in the QCOs to derive train-based solutions to reduce stopping times at the border



# Sending of Train Composition Message would allow a better linking of trains in TIS

## Train Composition Message (TCM)



Is sending to TIS possible?



**Problem:** Train numbers often change at borders

### Consequences for **Traffic Management:**

- Missing or incorrect information may lead to wastage of capacity and prevent an optimal flow of traffic
- Consistent monitoring of train runs difficult

### Consequences for **Performance Management:**

- Trains not linked and trains “disappear”
- Consistent performance analysis over borders is difficult

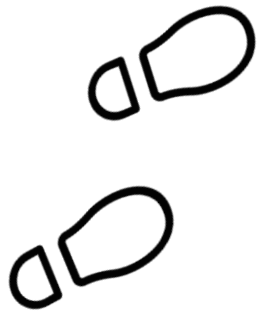


### **Benefits of sending TCM to TIS:**

- Improved data quality by higher number of linked trains
- TIS can be provided to cross-border coordinator Oderbrücke to enable “over the border”-view



## Next Steps:



**Next QCO Meeting:** Next Meeting is scheduled for 17. November 2022 to give an update on all open topics

**Dwell Time:** Presentation and Implementation of dwell time monitoring

**Action list:** Continue working on the items on action list

**QCO Elbe Valley:** Initiation of the QCO-Programme at German / Czech border crossing Bad Schandau – Decin on 22. November 2022

**QCO Aachen:** Kick off meeting took place in June followed by a workshop in September on ad-hoc traffic. An approach to involve RUs in regular telcos to work on dwell time reports is being prepared.