Comprehensive Real Time Rail Freight Tracking without GPS

Eurasian corridors stakeholder group
Paris, November 22, 2017

SIGIS SIA, Latvia, Riga
Vladislavs Sidorovs

www.RailWagonLocation.com
WHAT INFORMATION DO FORWARDERS AND THEIR CLIENTS NEED?

- Notifications about operations
- Information about crossing borders and trans-shipping at borders, about parked or stand still days
- Station approach & uploading and ETA
- Professional reports and summaries preparation
- Data export to other IT systems all under high security demands
- Automatic transmission of location data to clients
- Integrated freight rate calculations
Operational decision-making on route or border crossings point

QUALITY OF INFORMATION SUPPORT

Reliability

Timeliness
Location of wagons and containers, time and place of the last operation (freight, route and so on)

Estimated Time of Arrival (ETA)

Geography of tracking - 18 countries:

Azerbaijan  Kyrgyzstan  Mongolia  Uzbekistan  China
Belarus  Latvia  Russia  Ukraine  Iran
Georgia  Lithuania  Tajikistan  Finland  Estonia
Kazakhstan  Moldova  Turkmenistan
SERVICED REGIONS

- Tracing by wagon's and container's number
- Tracing by wagon's number
- Tracing by wagon's number and partly by container's number

Countries serviced:
- Russian Federation
- Mongolia
- China
- Kazakhstan
- Finland
- Uzbekistan
- Turkmenistan
- Tajikistan
- Kyrgyzstan
- Iran
- Georgia
- Azerbaijan
- Belarus
- Estonia
- Latvia
- Lithuania
- Moldova
- Ukraine
<table>
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<tr>
<th>Wagon number</th>
<th>Location</th>
<th>ETA</th>
<th>Location of last operation</th>
<th>Distance till the station of destination, km</th>
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China
Kazakhstan
Russian Federation
Belarus
Poland
Germany

TRANSPORT ROUTE ON MAP
Examples of existing activities:

- Each individual European railway detects location data of wagons and containers only on its territory.
- For example, DB Cargo has location data of the wagons and trains in Germany, for their clients only.
- RailNetEurope (RNE)'s Train Information System (TIS) operates on Western Europe.
CCTT has more than 100 member societies from 23 countries
INFORMATION SUPPORT FOR EURASIAN CORRIDOR

Data interchange between TIS and RWL SIGIS systems
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Thank you!