



Company ČD Cargo



Content of the presentation



- 1. Introduction of the company ČD Cargo**
- 2. Participation in the project OPTIYARD**



ČD Cargo – Railway Undertaking with Tradition



- **1832** The horse-drawn railway České Budějovice – Linz
- **1918** The emergence of ČSD – Czechoslovak State Railways



- **2003** ČD, a.s. – transformation from the state enterprise
- **2007** ČD Cargo, a.s., established

ČD Cargo – basic data



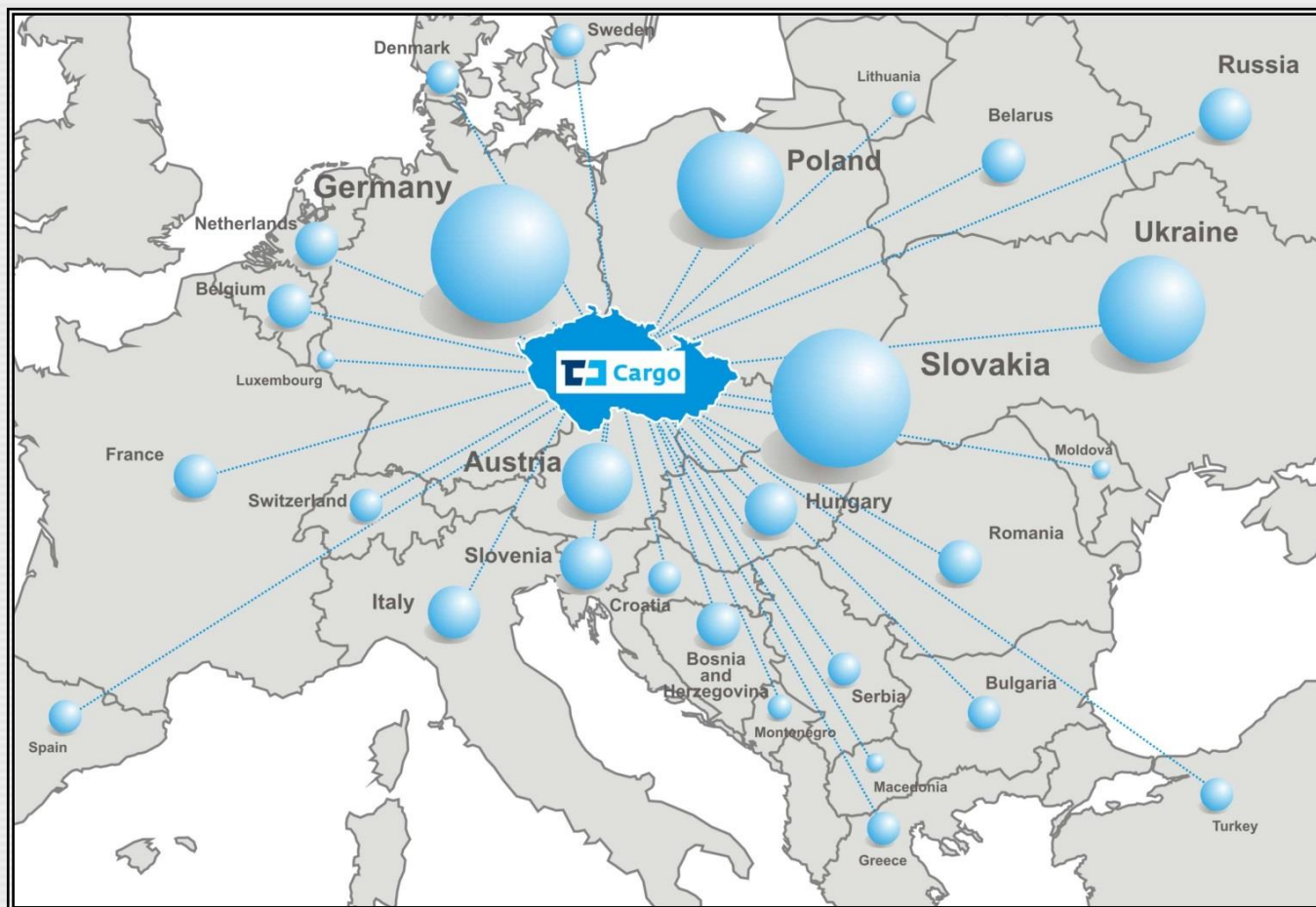
- **Number of employees 2016: 6 971**
- **Number of locomotives: 860**
 - **Electric locomotives 395**
 - **Engine locomotives 465**
- **Evidence number of wagons: 27 148**
- **Number of tariff points: 960**
- **Number of operated sidings: 1 013**
- **The only SWL carrier in the Czech Republic**



Where we transport



Freight transport of ČD Cargo – import and export in 2016 incl. ports



ČD Cargo in a central strategic location with links to neighboring countries in all directions

Project OPTIYARD



- **Optimized Real-time Yard and Network Management**
- **Submitted under the S2R-OC-IP5-01-2017**
- **Research and Innovation Action with high potential to improve the yard resources and its overall efficiency**
- **Simulation of operational processes and selection of an optimum solution**
- **Two Case Studies are envisaged:**
 - **Czech marshalling yard Česká Třebová**
 - **Italian sea port and marshalling yard Trieste**

Project OPTIYARD – a way ahead



- **The project is at its very beginning (start on 1.10.2017)**
- **Duration 24 months**
- **Participation of CD Cargo facilitates:**
 - data analyses of the yard operations
 - modeling and simulation of alternative solutions
 - feasibility and simulation tests
- **Relatively low Technology Readiness Level (TRL3-4) = experimental proof of concept / technology validated in lab**
- **A potential follow-up with a higher (demonstration) TRL can be envisaged**

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