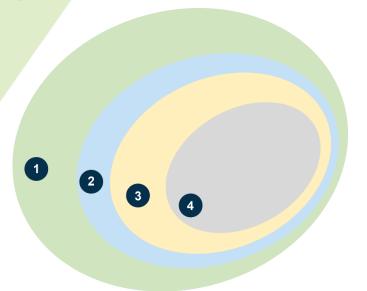


Important step forward towards AI readiness: Choice of the requisite degree of data sharing and data quality



1 high data quality (consistency, timeliness, completeness) at 99% or more



- **1. Public:** all data accessible to everybody
- **2. Open:** all data accessible to all involved parties (SC stakeholders & contracted IT platforms)
- **3. Selective open:** Specific set of data¹ to be shared with all legitimate stakeholders (and contracted IT platforms)
- **4. Private:** Only bilateral exchange of all data between two known parties

- 2 high interoperability
- 3 following FRAND (fair, reasonable and non-discriminatory) principle

12th June 2025

¹ Standardisation of the supply chain relevant data has not yet happened in the rail and rail-road sector which should be urgently performed

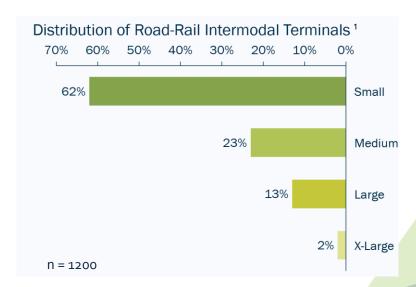
Data governance to be defined and adopted by all stakeholders

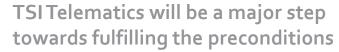


Data governance and sovereignty need to be clarified and supported by all stakeholders (end-to-end)

Interfaces need to be fully interoperable

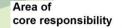
Oigitalization of terminals ongoing but not fully achieved yet (large SME share)





Past projects in CT environment



































EDICT



Collaborative Quality System to improve the interoperability, classification and monitoring of delays & disruptions

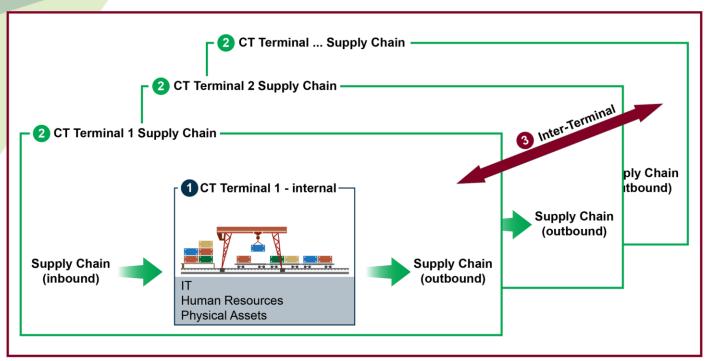




Rail ETA AI algorithm has proven superior results (accuracy ≥ 89%) compared to existing Train Running Forecast accuracy ¹

Terminals can thrive on improved data & interoperability





- On all 3 levels Al can be applied
- Al support degree: from augmentation to automation

Levels:

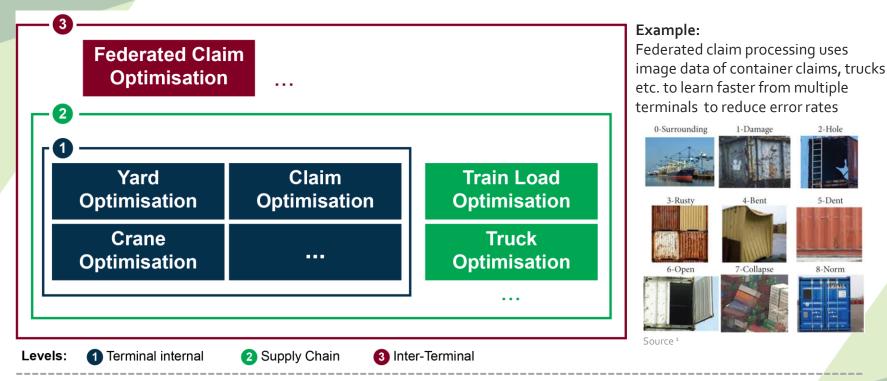
1 Terminal internal

Supply Chain

3 Inter-Terminal

Which efficiency potentials can AI help to identify





Al Use

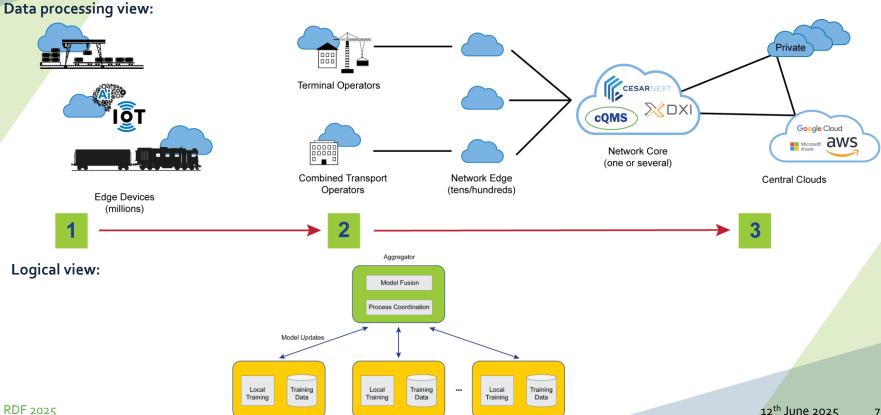
Complementary Overcome digitalization deficits of today's unstructured data exchange

-> use GenAI to close data gaps (approx. 40% of data still unstructured e-mails or excel files)

Federated AI-based learning can increase the learning curve for inter-terminal data exchange

Terminal 1



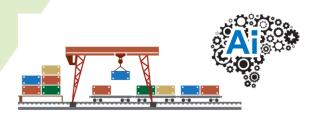


Terminal 2

Terminal n

Adoption and application areas for improved efficiency







- Standardisation of data and interoperable interchange
- Efficiency improvements through improved data quality
- Al-based improvement based on good data quality



Administrative efficiency areas to be augmented by (generative) AI:

- 1. Al-applications for administrative office tasks
- 2. Al-applications for communication
- 3. Al-applications to improve data

Implications for terminals and total CT freight business ecosystem for core operational processes



- Willingness to share data of high quality without hurdles
- 2. Thorough analysis of processes & benefits on 3 levels
- Clear-cut cost-benefit analysis and assessment of collaboration benefits to economize learning time and costs
- 4. Al projects preferably in areas where prerequisites are fulfilled ("avoid provider promise trap")
- 5. Efficient end-to-end data exchange & AI potentials to achieve better end customer satisfaction
- 6. Future resilience will require more data sharing & digitalization (e.g. customer requirements, CO₂, eFTI, Combined Transport Directive)

Collaborate to build future Combined Transport digital supply chain ecosystem now!

