

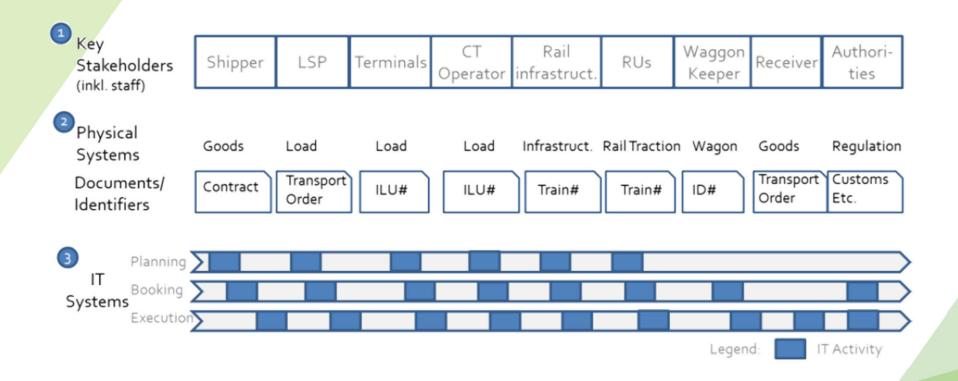
UIRR: the industry association of Combined Transport





The CT ecosystem and key stakeholders





Selected key drivers for CT digitalisation



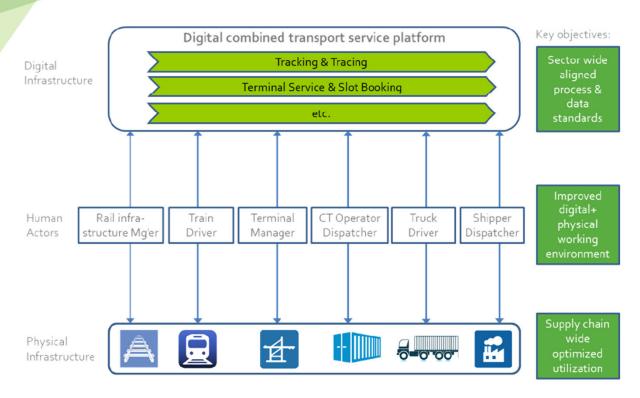


All these drivers will lead to a "perfect storm" of changes on the CT ecosystem in the future with 'data' as 'the new oil' for the future CT ecosystem. This will generate major (mental) shifts for the industry, logistics and regulatory environment.

ERA/RNE WORKSHOP

An enhanced digital vision for Road-Rail CT

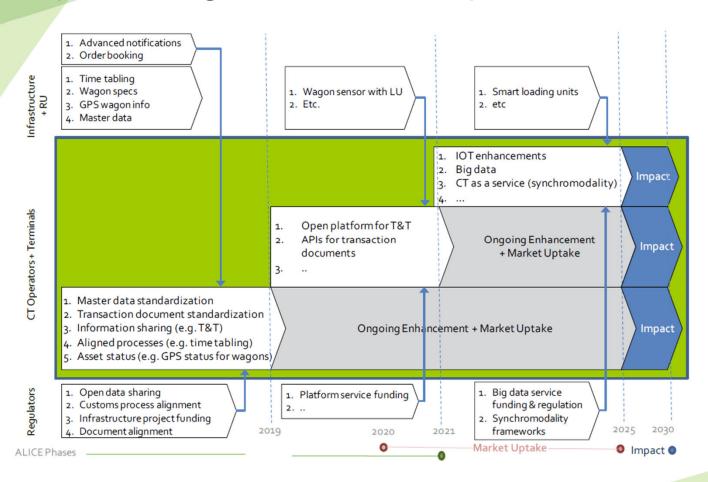




The CT sector's vision: from a 'road-rail freight transport' service provider to an 'integrated collaborative transport' service provider for the logistics supply chain.

Roadmap for CT digitalisation is ready: needs are identified

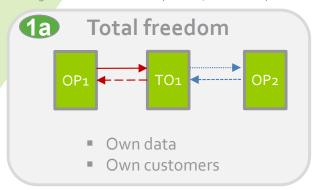




Possible approaches and alignment needs



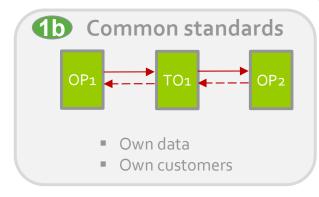
Legend: TO = Terminal Operator; OP = CT Operator



No concerted action with a maximum of freedom

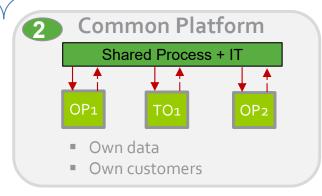
- Tracking information exchange w/o standardization (status/interfaces)
- Individualized booking processes

UIRR digital efforts



Definition of standards and lose coupling for each actor

- Master data standards
- Transaction data standards
- Documents standards
- Standard protocols



Platform approach for central tasks

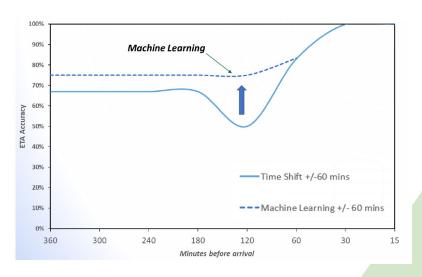
UIRR digital successful implementation (1)



ELETA project – sharing of train tracking and ETA in CT

- Computation of ETAs based on smart algorithms
- Testing and validation of the computed ETAs on various selected routes
- Easier access to train running information for terminal operators and CTOs thanks to Improved collaboration between the CT stakeholders
- Demonstration of the practical value of streamlining exchange of ETA data on various routes
- Harmonisation of definitions, terms and messages related to ETAs
- Adaptation of the TAF TSI Regulation





UIRR digital successful implementation (2)



Digital Train 1.0 and 2.0 (relevant for CT)

- Extensive tests of smart ETAs on various relations
- Significant improvement of the accuracy of the ETAs (over 95%)
- Terminal integration into RNE TIS
- Adaptation of the TAFTSI Regulation with a new annex on ETA and adaptations of the TAFTSI sector handbook
- Adaptations of the RNE TIS application to accommodate the various computed ETAs
- Feasibility study for a QMS in Combined Transport
- Exchange of train composition messages (improved mapping train running information in cross-border traffic)

he user has access to

- ETA information
- · ETA from different sources
- · ETA predicted by AI algorytms
- · ETA with accuracy indicator
- · ETA via simple web- access

Enhanced ETA brings:

- · More transparency and trust to
 - Railway transport
 - the whole logistic chain
- Better resource management
- Better traffic and capacity management
- · Contribution to the goods delivery forecasting

Trans ETA Trans ETA

The user can:

- · Get access by addressing the RNE TIS team support.tis@rne.eu
- · Select the best ETA
- · Compare the ETA providers
- · Estimate the train position on the remaining path part
- Organise activities during the train run and at the destination



UIRR digital ongoing initiatives



EDICT project



- Improve data sharing in the CT ecosystem
- Better identification of the CT stakeholders
- Easier terminal data exchange based on TAFTSI requirements
- Support the TAFTSI Master Plan for Terminals
- Design and development of a QMS for Combined Transport (Q-ELETA)
- Creation of reference files for the sector
- Improvement of interfaces and digital platforms (CESAR application)
- Promotion of a European Data Hub for Combined Transport (link to KV4.0)
- Dissemination of a European data exchange format for Combined Transport (EDIGES)

