

Reference CCS Architecture (RCA)

Presentation

Christophe Chéron - SNCF Innovation et Recherche 

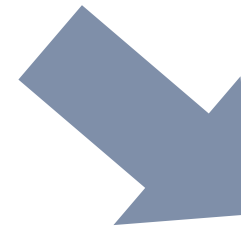
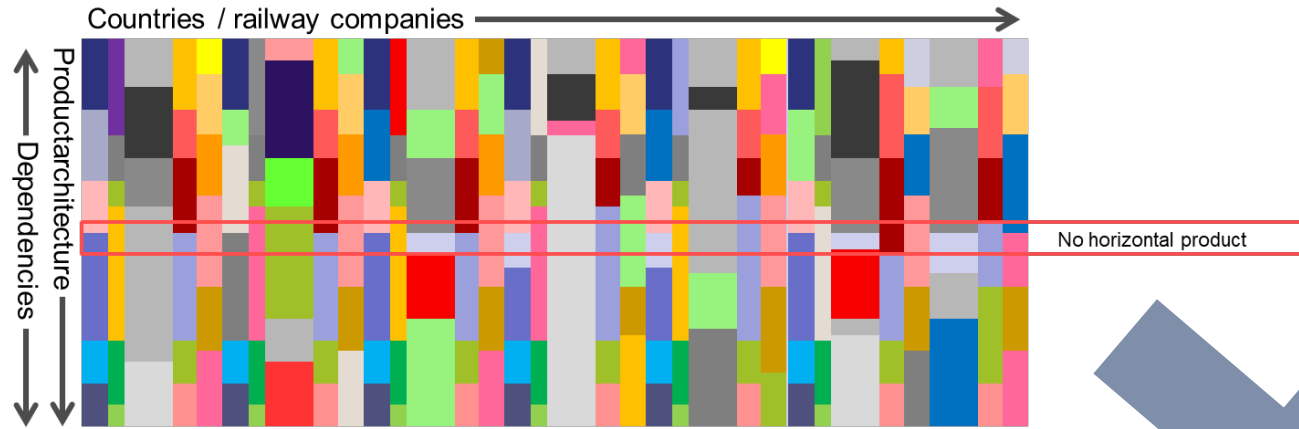
29th of November 2018

EU Brokerage Event Shift2Rail – Calls 2019

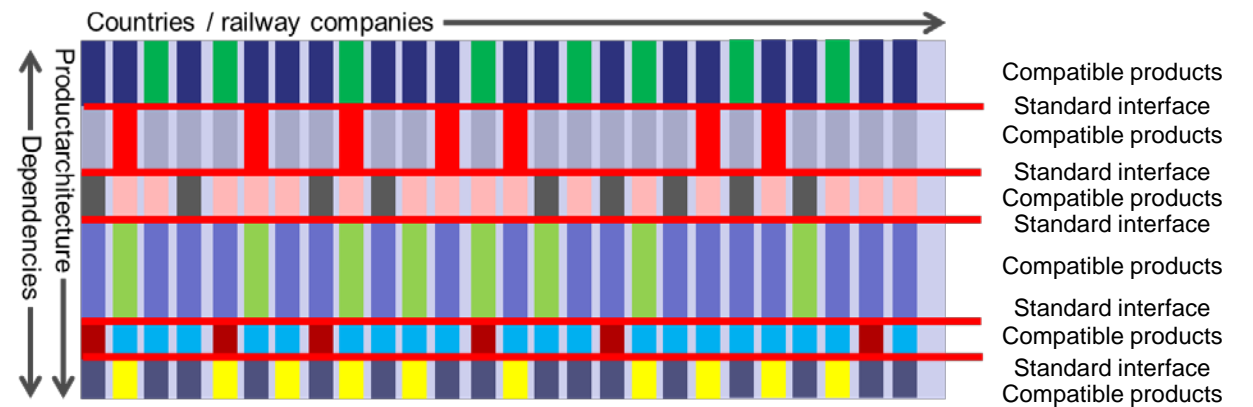
Why?

- ERTMS specifications are mature
- Game changers cover the remaining needs of railways
- ERTMS is an enabler for further cost reduction and increase of benefits in the field of CCS
- EUG/EULYNX members recognise that they cannot obtain the best solutions at national level, but need to develop/specify one common future (simple) framework to which they can migrate, sooner or later
- Economies of scale will increase the attractiveness of the market for suppliers, while enabling substantial costs savings for railways.

RCA aim



- Low Life Cycle Costs
- Single modular framework
- Migrate-ability
- Adaptability
- Safe investment



Business case

- Reduction of trackside assets
- Optimisation of operational processes
- Implementation of the game changers
- Standardised and automated data preparation for engineering and testing
- Cost effective implementation and maintenance
- Components allowing independent industrial developments and deployment
- Significant LCC reduction estimated.

Migration

- Rolling stock running over lines using the RCA approach will need to have radio based ETCS capability
- RCA shall allow flexible migration plans (fast versus slow, pure, or “mixed” situations) without offending the “single modular framework”
- Migration approach might be different per Infrastructure Manager.



Thank you for your attention

www.ertms.be

www.eulynx.eu

SNCF Réseau is a member of the ERTMS Users Group and the EULYNX Consortium