ERTMS as facilitator for railway liberalization: The Spanish Case

ERTMS 2024 Conference Valenciennes, 24th April







Contents

- / The deployment of ERTMS in Spain
- / Impact of ERTMS on Spanish liberalization
- / Improvements for a faster deployment of ERTMS





The deployment of ERTMS in Spain







Decisions that conditioned the deployment

- Equipping all High-Speed lines and trains with the ERTMS system
- Opening the market: contracts with all trackside suppliers
- Operational interoperability of all onboard equipment suppliers





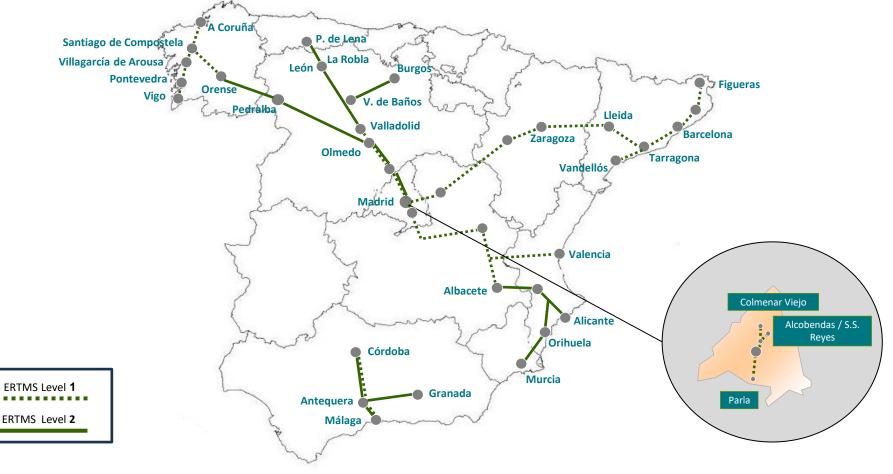


ERTMS on ADIF network

- More than 20 years of experience operating with ERTMS
- Experience in implementing and migrating ERTMS versions (due to the evolution of technical specifications and coexistence of different versions)
- > Around 3000km of lines equipped with ERTMS
- Not only in HS, but also in conventional and commuter lines



Spanish ERTMS network: Current situation (2024)





Spanish ERTMS network: Current situation (II) (2024)





Short term: more ERTMS in operation coming soon!

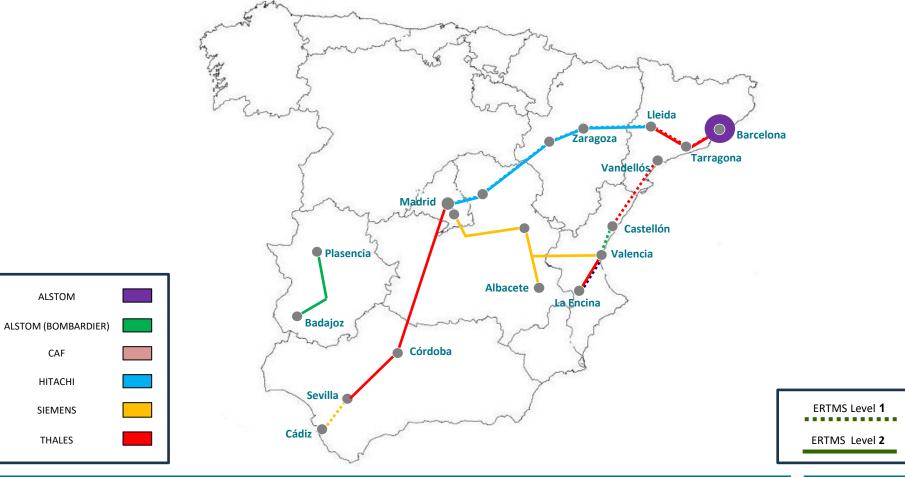
ALSTOM

CAF

HITACHI

SIEMENS

THALES



adif

Impact of ERTMS on Spanish liberalization





HS open market process in Spain (4th RP) Key aspects of the process

- Optimization of capacity
 - Continuity of current services
 - Relevant new capacity for more RUs
- Transparency & non-discrimination
 - Framework Capacity statements
 - Objective allocation rules in NS
- Commitment with RUs
 - Short turnaround times in terminals
 - High frequencies of services
 - Intensive use of rolling stock







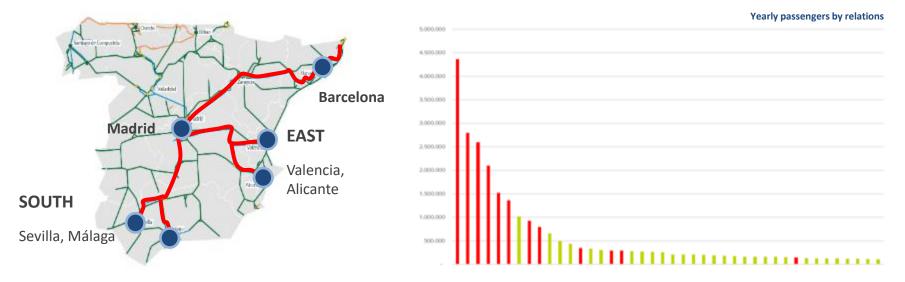




The fundamentals of the process: Three main corridors with special interest

Adif offers full open access in the whole network from December 2020 BUT ...

... there are three corridors of most interest for the candidates



... nevertheless Adif goes on promoting the open market in more corridors.



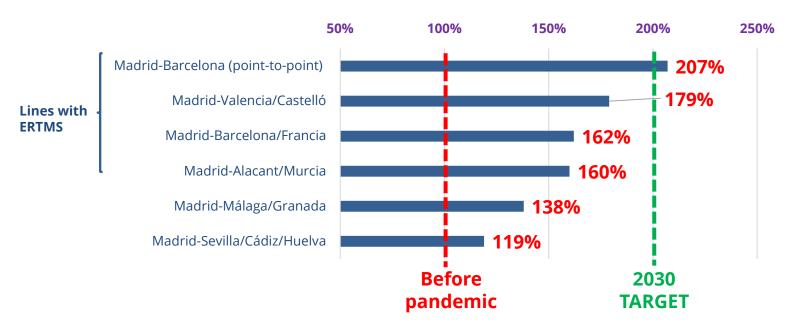
The three candidates are launching their products!







First results 3 main HS corridors

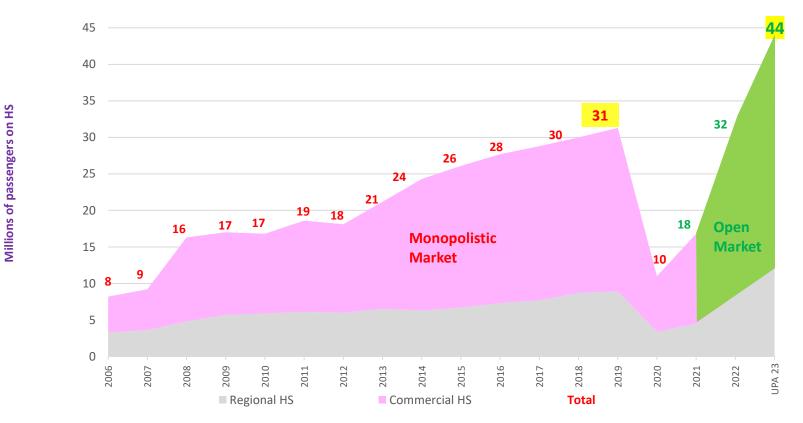


% increase of passengers October 2019 vs October 2023



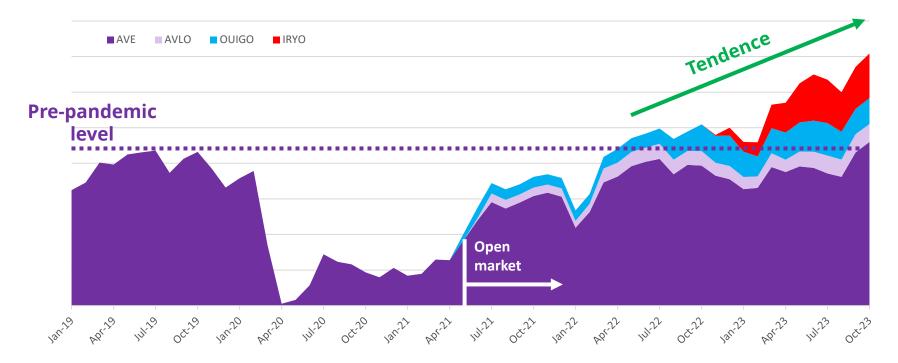


First results Passengers in HS network





First results 3 main HS corridors



Source: CNMC



Improvements for a faster deployment of ERTMS







How can we optimize ERTMS framework for faster deployment? (I)

- Stability in European migration strategies:
 - Minimum impact in installed base and NIPs.
 - Continuity with TSI 2023 principles (e.g. FRMCS integration in ETCS)
- Positive ongoing initiatives for simplification (e.g. trackside approval, ESC). Let's cooperate for a common goal: a more simplified administrative framework.
- Smooth integration of ERJU SP in CCM process.





How can we optimize ERTMS framework for faster deployment? (II)

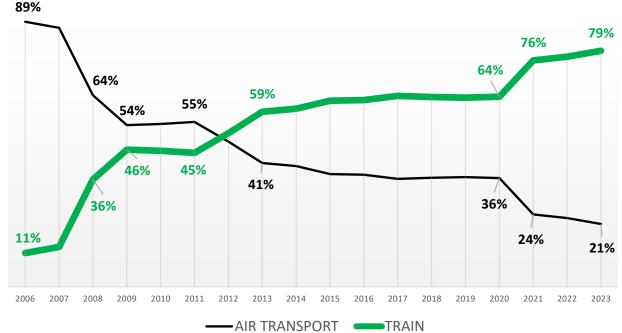
- Commitment from all the stakeholders (including industry) in the implementation of corrections to promote operational interoperability.
- Timely delivery of validated and complete specifications of new technologies (e.g. FRMCS) for a seamless ERTMS evolution.



Modal Shift is possible with ERTMS support

Modal share between train and air transport







THANK YOU

