

ERTINS INSPAIN

Did you know that Spain implemented ERTMS around the 2000s?

But how does the country implement the technology?





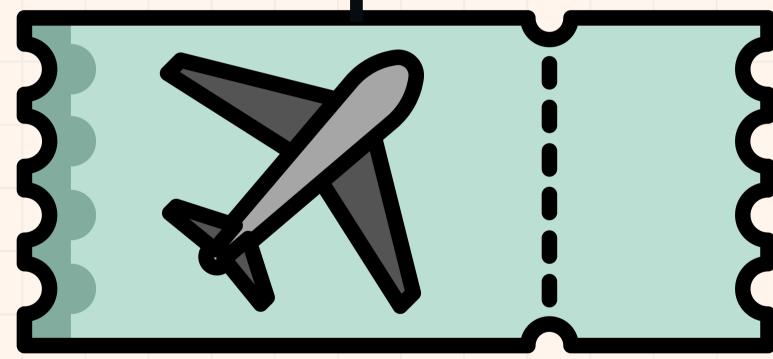
Spain is a proven success story in demonstrating the adaptability of ERTMS to operational needs, infrastructure constraints, and performance requirements.

For each railway line included in the ERTMS National Implementation Plan (NIP), the network will feature a mix of ERTMS levels

Lines with low to medium traffic density, such as conventional lines, are equipped with ERTMS Level 1, guaranteeing efficient and cost-effective operation.

High-density corridors, i.e. many High-speed lines, incorporate either ERTMS Level 1 or Level 2, optimizing safety and capacity.

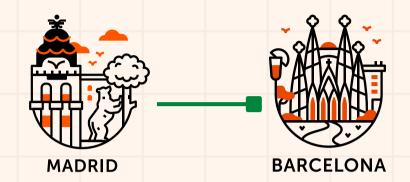
From plane...



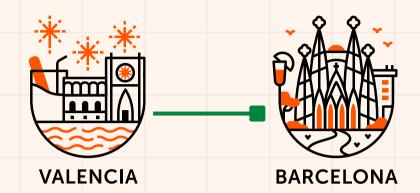




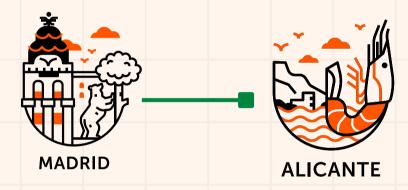




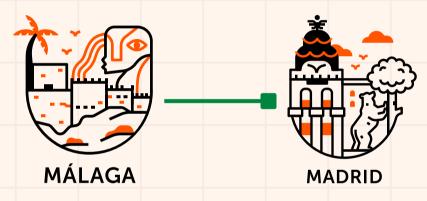
Madrid-Barcelona: After one year, 40% of all trips between Madrid and Barcelona were made by train. By the end of 2023, this figure had grown to 82%, reaching 8.7 million trips per year.



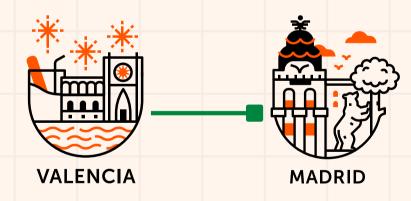
Valencia-Barcelona: 96% of almost all passengers choose the train on this route.



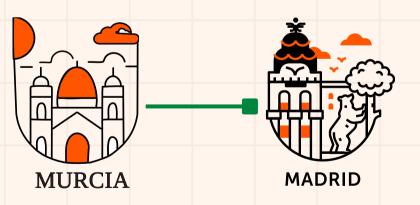
Valencia-Madrid: 93% of all travellers between Valencia and Madrid take the train, while only 7% travel by plane.



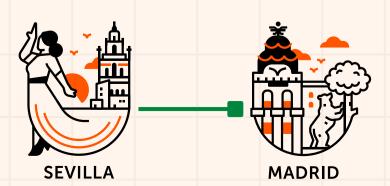
Málaga-Madrid: 78% of the market share on this route is held by trains, although air travel remains a more relevant option compared to other routes.



Seville-Madrid: 87% of travellers choose the train instead of the plane



Murcia-Madrid: Rail travel seems to dominate the Murcia-Madrid route by 99%



Madrid-Alicante: 87% of passengers travel by train rather than by plane.