

INVENTORY OF SOCIAL FUNCTIONALITIES (INCLUDING COMFORT), ENVIRONMENTAL FUNCTIONALITIES OF THE TRAINS FOR PASSENGERS AND CUSTOMERS, AND TECHNICAL VALUE.

1. ENVIRONMENTAL

- World leader in trains for lower energy consumption per passenger and km.
- Trains with the best environmental product declaration (EDP).
- Lowest train weight per car (height) and materials used.
- Leader in eco-efficiency by design and height.
- Train recyclability of over 95%.
- Train durability in excess of 35 years.
- Absence of prohibited metals indicated in the Reach Regulation.
- H2 trains. Minimization of carbon footprint Design)
- Trains with the best environmental product declaration (EDP).
- Viscoelastic panels (energy efficiency).
- Articulated and lightweight trains (simple, strong and light structure) (energy efficiency).
- Independent and guided wheels (energy efficiency).

2.- SOCIAL (including comfort)

- Variable frequency shock absorbers (stability and comfort).
- Box elevator and low floor at platform level (accessibility).
- Passive automatic tilting.
- Indoor guidance using ultrasonic beacons (people with reduced vision).
- reduced vision).
- Baggage security (identification and tamper alert).
- Sectional blackout windows (comfort).
- Variable frequency shock absorbers (comfort, safety and stability).
- Recyclable metamaterials for interior noise reduction.
- Wide body / wider carriage width and 3+2 passenger composition.
(comfort and capacity).
- Cybersecurity in trains.

3. OPERATIONAL EFFICIENCY AND COMPATIBILITY BETWEEN RAIL INFRASTRUCTURES

- The shiftable rolling stock, automatic gauge changeover, is adaptable to any rail network.
- Rolling stock maintenance using 5G technology.
- Motorized rolling stock (speed increase, time reduction).
- Possibility of building wider trains than other brands.