



4

Characteristics of the railway mode

- Landscape integration
- Urban integration
- Low ecological impact
- Safety

Railway installations

3

- Stations
- Logistic terminals
- Workshops

5

Technological innovations

- Incident detection systems
- Third rail

Innovative projects

6

- Aerosleeper. Ballast lifting reduction
- LIFE impact 0. Anti-collision bird barriers
- Project SIMPLE. Digitalisation of Freight

Track superstructure

2

- Ballast
- Sleepers
- Tracks
- Rail anchors

- Viaducts
- Tunnels
- Level crossings
- Bridges
- Embankments and trenches

1

Spanish railway infrastructure works

7

- The High Speed Atocha-Chamartín tunnel
- Ulla viaduct
- Smart Station project
- The Pajares bypass
- The Ecomile project