Spain
ETCS high-speed projects

Project
As a consortium member, Siemens equipped four Spanish high-speed lines with ETCS:
- La Sagra – Toledo (26 km, 350 km/h)
- Madrid – Segovia – Valdestillas (197 km, 350 km/h)
- Lérida – Barcelona (172 km, 350 km/h)
- Barcelona – Figueras (130 km, 350 km/h)

Commissioning date
2005 to 2007

Scope of supply
- Trainguard 200 for ETCS Level 2 (fall-back level with Trainguard 100)
- Trackside equipment: 2,661 Trainguard Eurobalises S21, five European Vital Computers (EVCs)
- Trackguard Westrace electronic interlocking
- ASFA (Spanish ATP)
- Controlguide CTC Rail 9000
- Maintenance services