Full automation of Paris Metro Line 1 for Régie autonome des transports Parisiens (RATP), France

**Challenge**
- Oldest and most heavily frequented line
- Modernize Metro Line 1 to ensure shorter headways and faster conveyance of passengers
- Install driverless system without disrupting daily operation

**Solution**
- Fully automatic Trainguard MT CBTC (Communications-Based Train Control) train protection system
- Trackside and on board equipments, operation control center, telecommunications and radio systems
- Full inter-operability with manually-driven MP 89 CC trains

**Results & Benefits**
- Transport capacity increased by 20%
- Energy savings up to 15%
- Attractiveness of public transport in Paris
- Driverless train project is a world premiere for such capacities