

Big Data

Automated  
driving

ETCS  
Level 3

Intelligent Traffic  
Management

2030

Connectivity

2018

# ETCS Hybrid Level 3



### *World's first commercial ATO application in mainline rail services in combination with ETCS*

- Delivery of rolling stock, ETCS and ATO
- Increased capacity on existing infrastructure (24 trains per hour, track and direction on the north-south inner-city link of London)
- Capacity objectives only achievable with ATO
- ATO over ETCS in the core area (communication via Packet 44) with ETCS Level 2 Baseline 3
- Start of passenger services with ATO in May 2018



## ***ATO / ETCS Hybrid Level 3 Test at the ETCS National Integration Facility***

A futuristic landscape with a high-speed train traveling on tracks. The train is sleek and aerodynamic, with a blue and white color scheme. It is surrounded by digital overlays, including binary code, circular patterns, and glowing lines. In the background, there are stylized mountains and trees. The overall scene is set against a teal background.

**SIEMENS**  
*Ingenuity for life*

2018

2030

**We turn your vision into reality.**