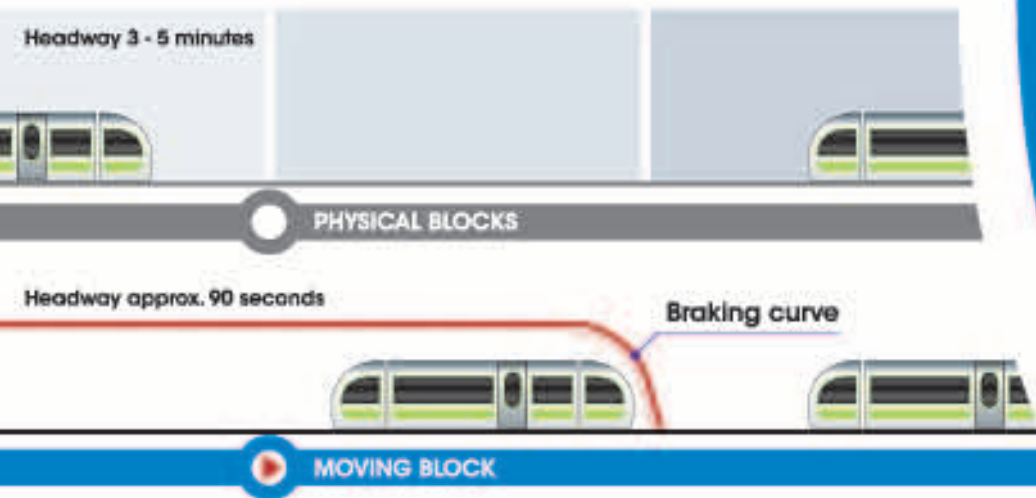


Thales SelTrac systems consist of the following subsystems:

- //// **Zone controller** to monitor and track vitally the trains along the track
- //// **Onboard equipment** to supervise the speed and automatically control the trains
- //// **Communication systems** - either radio-based or cable - to allow communication between all subsystems
- //// **Control Centre** for Automatic Train Supervision (ATS) of the overall line.



- //// The CBTC system optimizes the distance and speed of trains by continuous monitoring of location, speed and direction of all trains supervised by the CBTC. The distance between trains is either maintained by fixed block (traditional system) or full moving block, depending on performances to be achieved.

- //// Trains can operate safely within the envelope defined by the actual speed, the confirmed stopping point (previous train, red signals), the braking curve and track grade. The VOB on the train ensures the ATP and ATO functions.
- //// Both onboard and wayside equipment are vital computers based on 2-out-of-3 equipment ensuring a high level of safety and availability.

