



AŽD Praha s.r.o.

Demonstration of Driverless Train Operation

AŽD Praha, Czech Republic

AŽD Praha s.r.o., Technology division

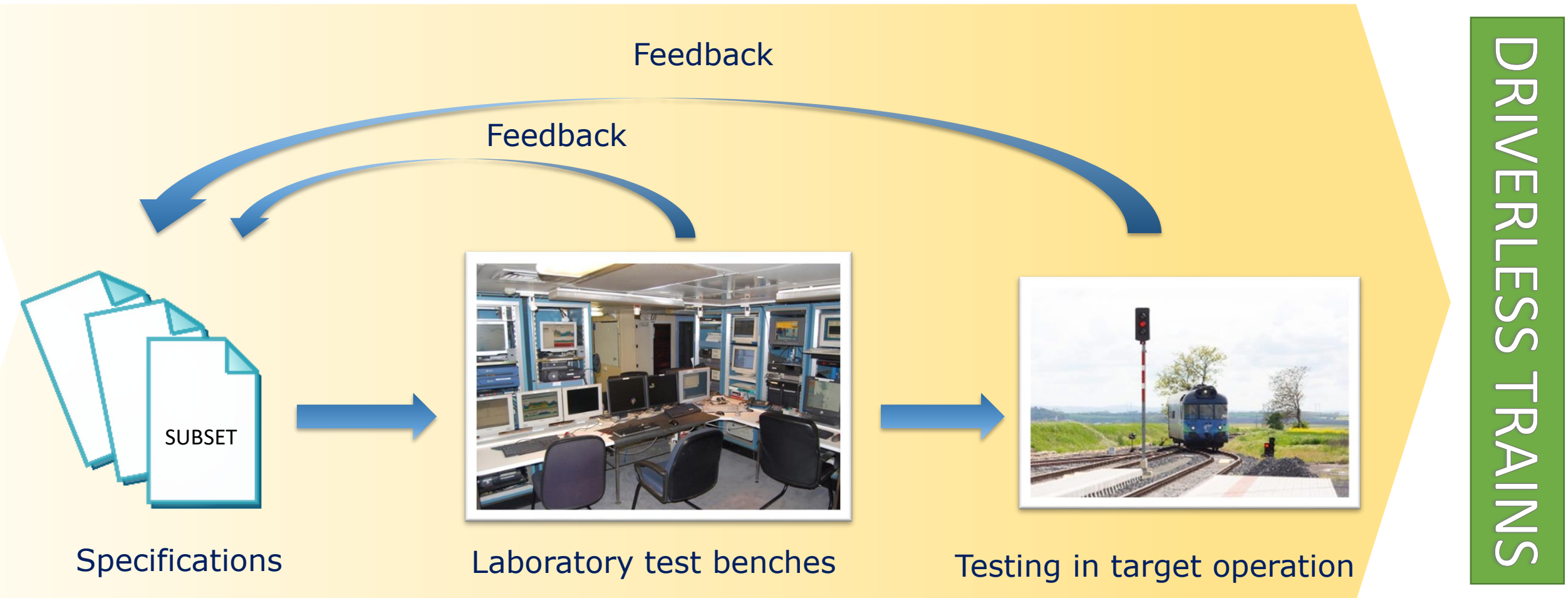
Innotrans 2022, Berlin

SHAPING THE FUTURE OF DRIVERLESS TRAIN OPERATION

- Shift2Rail partners within its Innovation Program 2 have developed Automatic Train Operation over ETCS with the presence of the driver
- They have partnered to define and develop specifications followed by implementation and on-site testing.

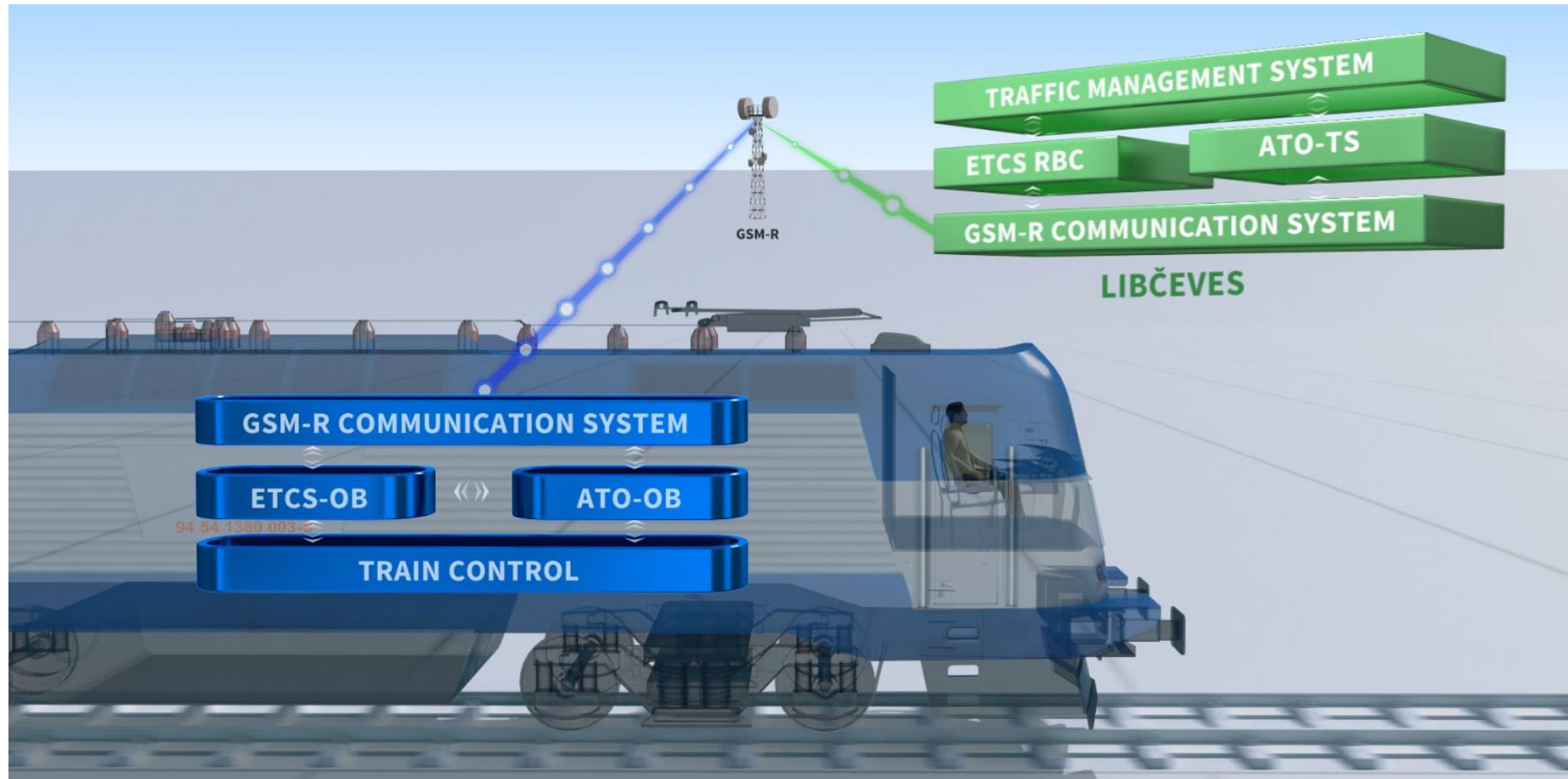


ATO OVER ETCS GRADE OF AUTOMATION 2



TODAY'S ATO - ARCHITECTURE

ATO OVER ETCS GRADE OF AUTOMATION 2



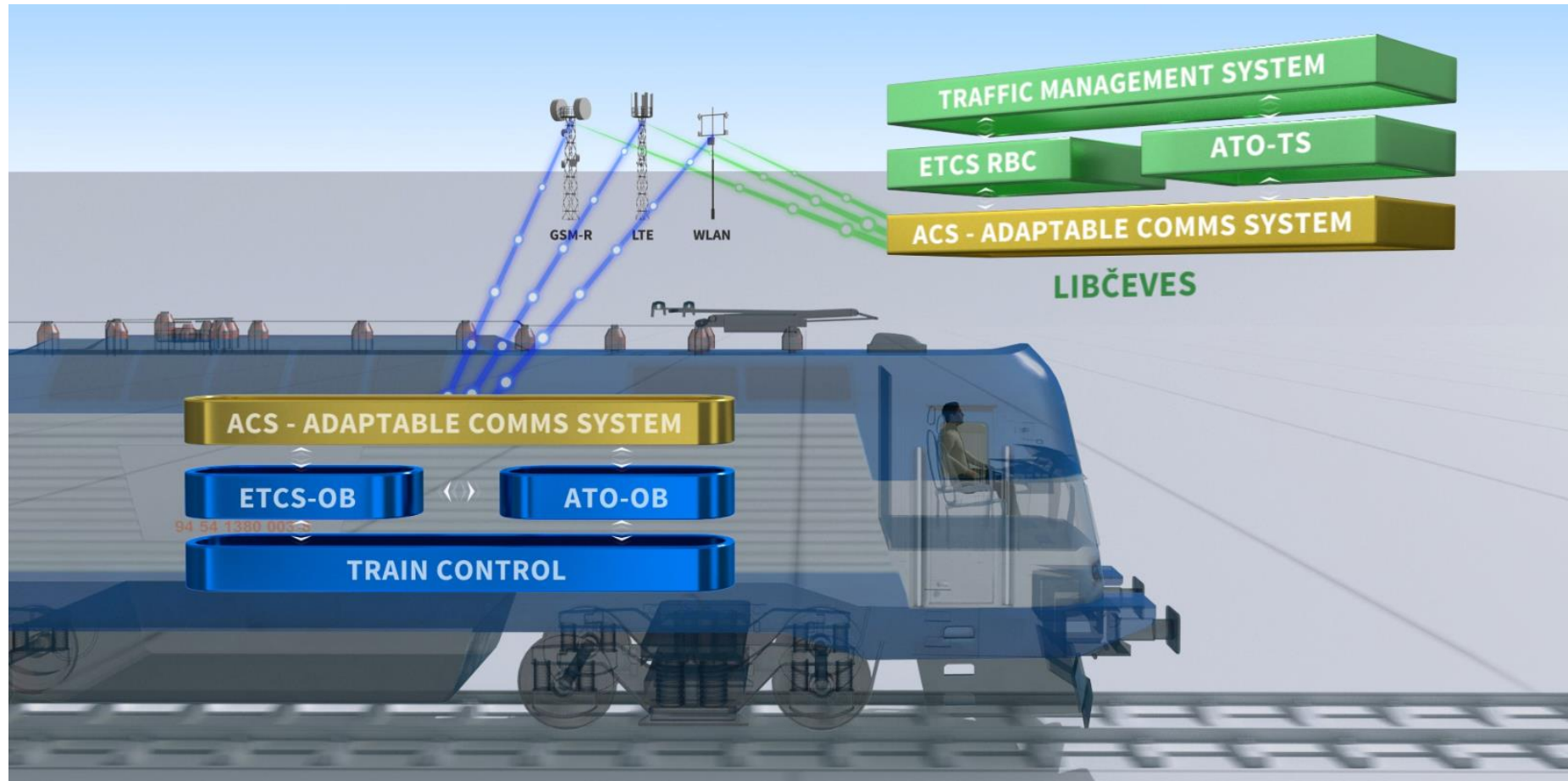
TODAY'S ATO - BENEFITS

- Improved **Energy** efficiency
- Better **Punctuality**
- Increased **Quality** of travel
- High level of **Safety** guaranteed by ERTMS/ETCS



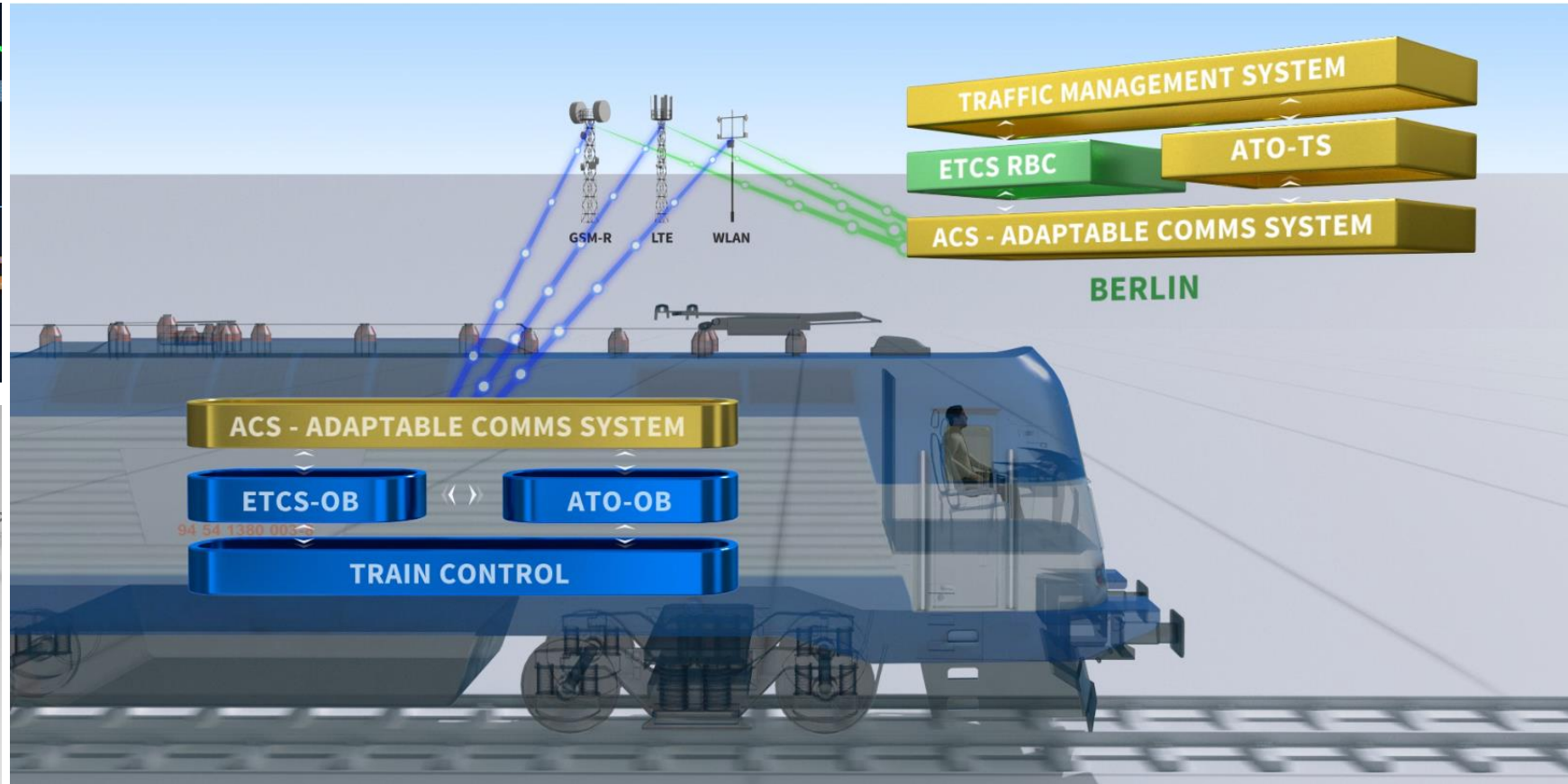
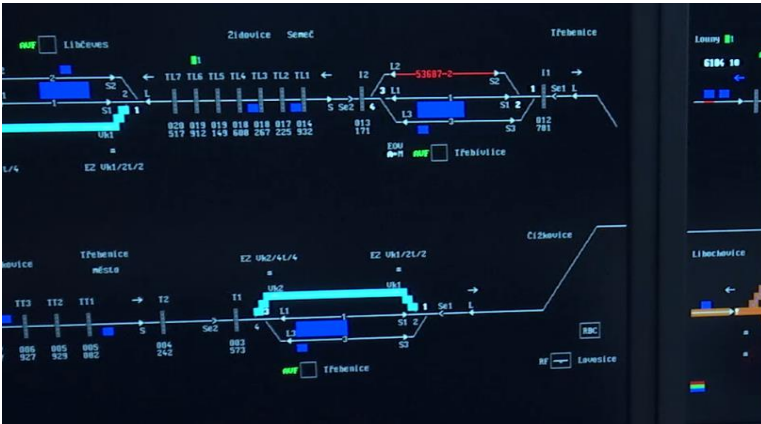
ATO PATH TO THE FUTURE – IMPROVED COMMS

Communication system is upgraded for being more adaptable (**ACS**)



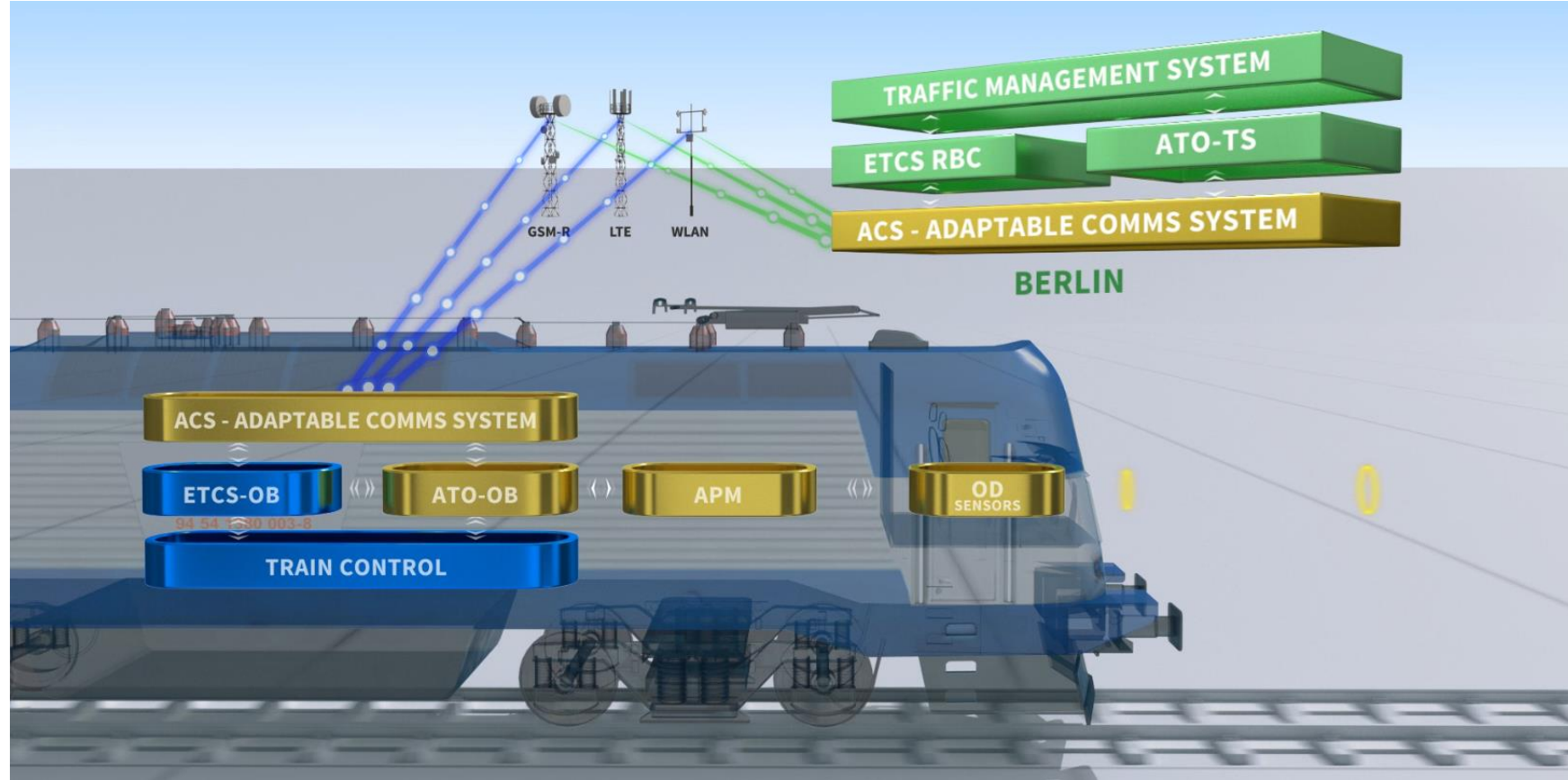
ATO PATH TO THE FUTURE – INTEROPERABILITY

Operation of TMS from remote distance thanks to standardization.



ATO PATH TO THE FUTURE – PERCEPTION

Sensors and advanced logic allows to replace a driver.

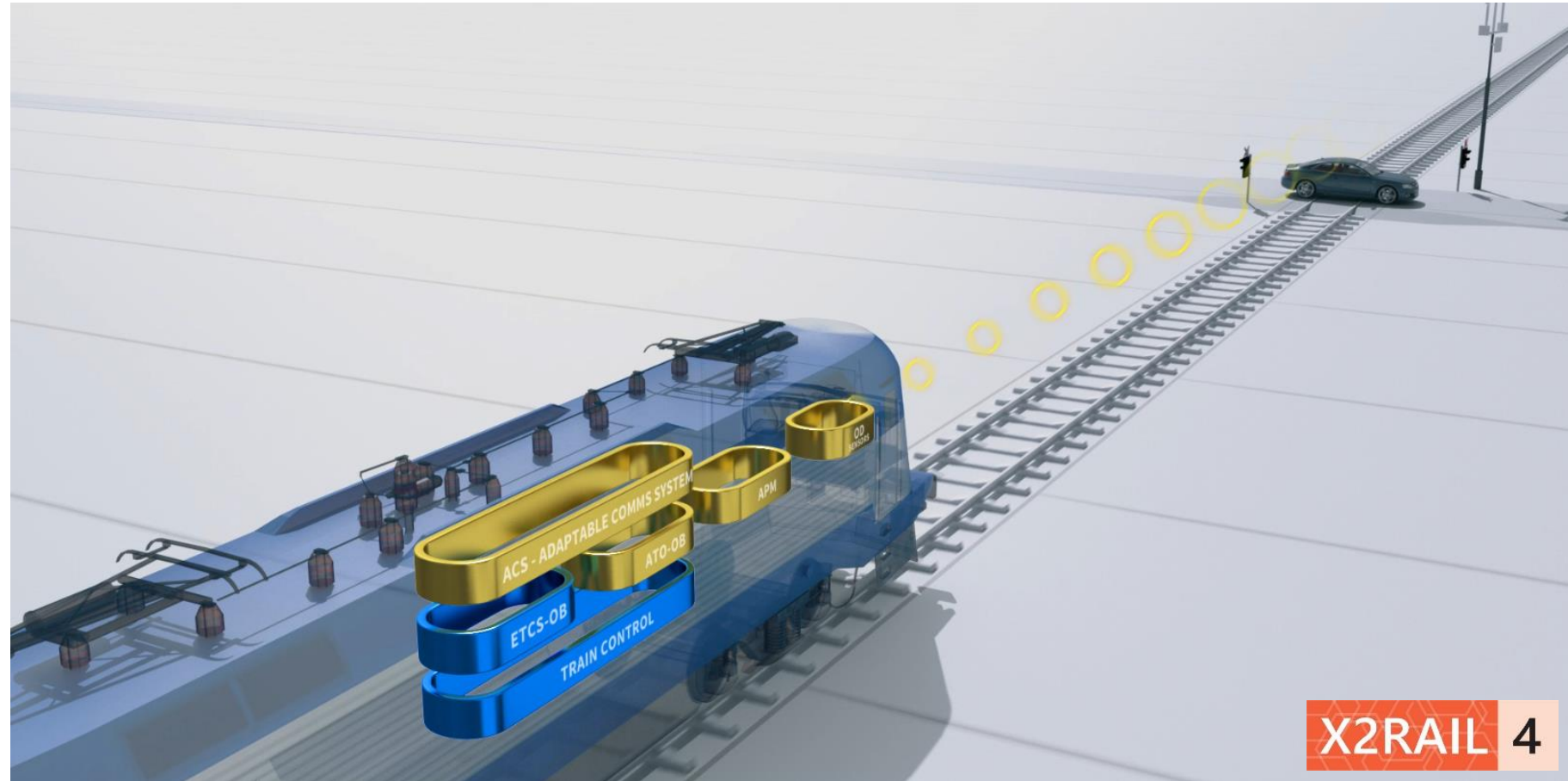


ATO PATH TO THE FUTURE – DEMONSTRATION

Unique collaborative demonstration in Czechia with partners.



This demonstration has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No: 881806



Happy to answer all your questions

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