

FEDERAL MINISTRY OF TRANSPORT AND DIGITAL INFRASTRUCTURE (GERMANY)

## ERTMS STRATEGY GERMANY



Deutsche Bahn (DB Netz AG) submitted a Business Case for the implementation of the European Train Control System ETCS in Germany. Subsequently, the Federal Ministry of Transport commissioned a study on different implementation and migration strategies that require as little vehicle modifications as possible and set a cost ceiling for annual capital expenditures.

Client	BMVI (Germany)
Processing period	2017 - 2018
Contract value	CHF 84'090

Under the lead of the German branch of Via Consulting and in collaboration with EBP Schweiz, R+R contributed to the definition of strategy options. To evaluate

the options, R+R developed a modular cost model that allows for quick cost estimations for the implementation of different ETCS technologies in various combinations of network segments. Based on European benchmarks, the model provides a tool for the quick estimation of investment needs and follow-up costs. The evaluation of options took into account not only microeconomic factors, but also socioeconomic gains, such as the improvement of the modal split.