

METROSELSKABET I/S

## METRO COPENHAGEN, NEW SIGNALLING SYSTEM ANALYSIS (NSSA)



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|-------------------|---------------------|
| Client            | Metroselskabet I/S  |
| Processing period | May 2020 – May 2021 |
| Project costs     | 60-90 Mio. CHF      |

Lines M1 and M2 of the driverless Copenhagen Metro are to receive a new signalling system. In a study of technical options, process scenarios, migration strategies and procurement solutions, R+R estimated life cycle costs for 18 different alternatives.

The driverless Copenhagen Metro consists of two unconnected line systems, M1/M2 and M3/M4. M1 was put into operation in 2002, M2 in 2007. Their signalling system will reach the end of its technical life in 2027. It was supplied by Ansaldo / Hitachi and is basically also

operated by them. The existing system will be replaced by a system at least as modern as the one used on the Cityring, which opened in 2019. The Danish engineering company Rambøll was commissioned to examine technical solutions, process scenarios, migration strategies and procurement options. R+R has estimated the life cycle costs 2021-2065 for 18 strategic alternatives and analyzed the costs for capacity improvements with the existing system.