



DR. SPANG

INGENIEURGESELLSCHAFT FÜR BAUWESEN, GEOLOGIE UND UMWELTTECHNIK MBH

## DEVELOPER

DB Netz AG, Structural Engineering, Duisburg

## PROJEKT

Replacement of track in Stadtwald tunnel

- Renewal of track in the already repaired Stadtwald tunnel, section 2161 (Essen-Werden - Essen-Stadtwald)
- A new side drainage system will be established on the right of the track during the replacement
- The existing section 2161 is a 2-track electrified section that runs through the tunnel as a single track
- The Stadtwald tunnel has a length of 247 m

## UNSERE LEISTUNGEN

- Expert report to ascertain the condition for further planning of the tunnel drainage
- Mapping when the track is not in use
- Investigation of the existing shotcrete shell through measurements and boreholes
- Stability analysis

