

# UNDERGROUND RAILWAY LINE U4, HORNER GEEST, HAMBURG

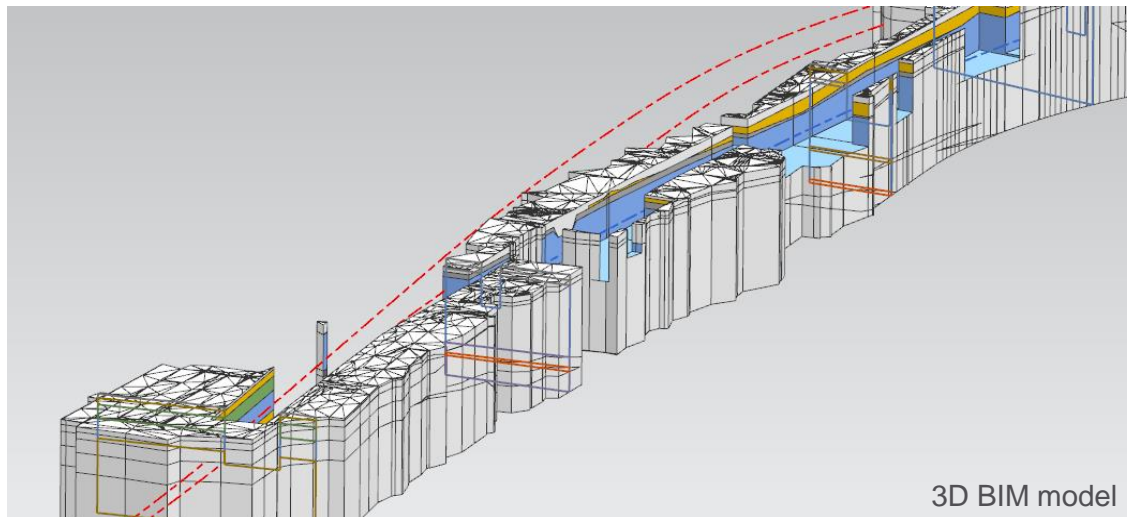


## Underground Railway Line U4 - Horner Geest, Hamburg, Germany

**Project period**  
2016 - 2020

### Services provided

General planning: basic investigation to approval planning, optionally preparation of contract award; Project and structural planning engineering structures, project planning traffic facilities, technical equipment, planning of cable runs, planning of work schedule including expert opinion on environment, noise, vibrations, stray current, EMC, application of BIM methodology, creation of 3D model for the tunnel structure incl. subsoil model on the basis of preliminary design; Stoltenstraße halt: preparation of 3D, 4D and 5D model on the basis of design planning



### Technical details

New construction of an approx. 2.7 km long underground railway line to connect the "Horner Geest" residential area, connection to the existing U2/U4 station, Horner race-track, new construction of tunnel with three stations and one stabling yard in cut-and-cover construction method in inner-city area