



NEURON CONSULT ZT
PELIKANSTR.18, 4061 LINZ-PASCHING, AUSTRIA

RAILWAY TUNNEL KORALM, AUSTRIA

HIGH-SPEED RAIL GRAZ - KLAGENFURT

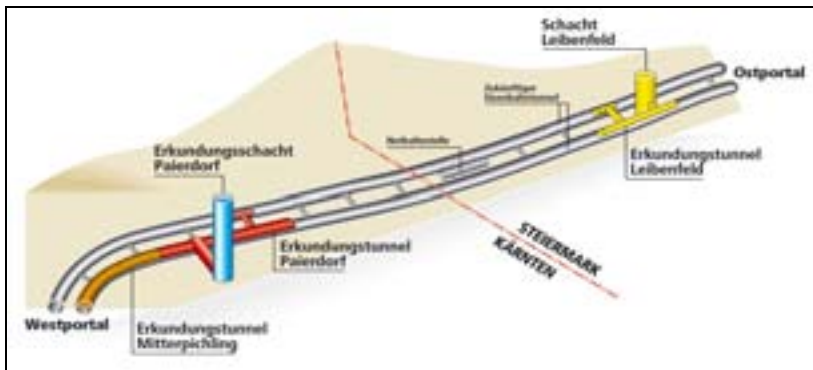
OWNER: HIGH SPEED RAIL AUSTRIA - OBB



LOCATION



LOCATION IN SOUTH OF AUSTRIA.

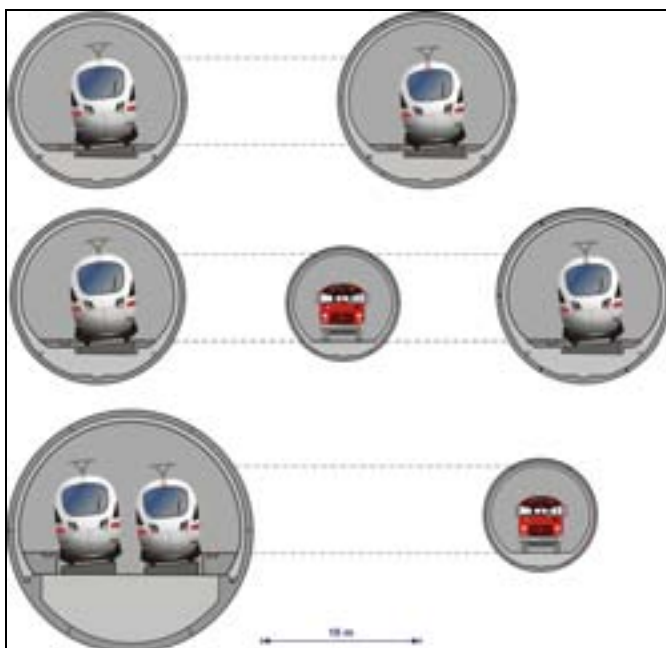


VIEW TO THE KORALM TUNNEL SECTION OF 32 KM LENGTH.

SERVICES PROVIDED

- * CONCEPTUAL TUNNEL AND SAFETY DESIGN AND EVALUATION OF ROUTES BASED ON BEST GEOLOGICAL-ECONOMICAL PATH EVALUATION
- * COST ESTIMATION WITH THE EVALUATION OF RISKS ON THE FINAL CONSTRUCTION PRICE ESTIMATION.

PERIOD OF WORK: 09/2001
-03/2003, 05/2007-10/2008



DESIGNED AND EVALUATED TBM $D_{exc} = 11.00$ M SINGLE TUBE OPTIONS

PROJECT DESCRIPTION

THE TUNNELSYSTEM KORALMTUNNEL IS A PROJECT OF A NEW HIGH-SPEED RAIL IN AUSTRIA THAT IS CONNECTING TWO CITIES IN THE SOUTH OF AUSTRIA : GRAZ AND KLAGENFURT. THE NEW RAIL LINE IS 135 KM LONG, AND THE TUNNEL SECTION THROUGH THE KORALM MASSIV IS 32 KM LONG. AFTER EVALUATION OF DIFFERENT OPTIONS TWO SINGLE TUBES HAVE BEEN CHOSEN AS THE FINAL SOLUTION AND FORTHIS PURPOSE THE FINAL COSTS OF ABOUT 1.6 BILLION € HAVE BEEN ESTIMATED AS THE OVERALL CONSTRUCTION COSTS OF THE TUNNEL PROJECT. THE CONSTRUCTION HAS STARTED IN 2008 AND IT IS PLANNED TO BE FINISHED UNTIL 2014. THE LINE HAS BEEN DESIGNED FOR THE MAX.SPEED OF 240 KM/H AND SERIOUS ADDITIONAL STRUCTURES LIKE NICHES AND MIDDLE TUNNEL FOR TRAFFIC INTERCHANGE WITH NUMEROUS CROSS ADITS HAVE BEEN PLANNED TO IMPROVE THE SAFETY LEVEL OF THE TRAFFIC IN THE TUNNEL.