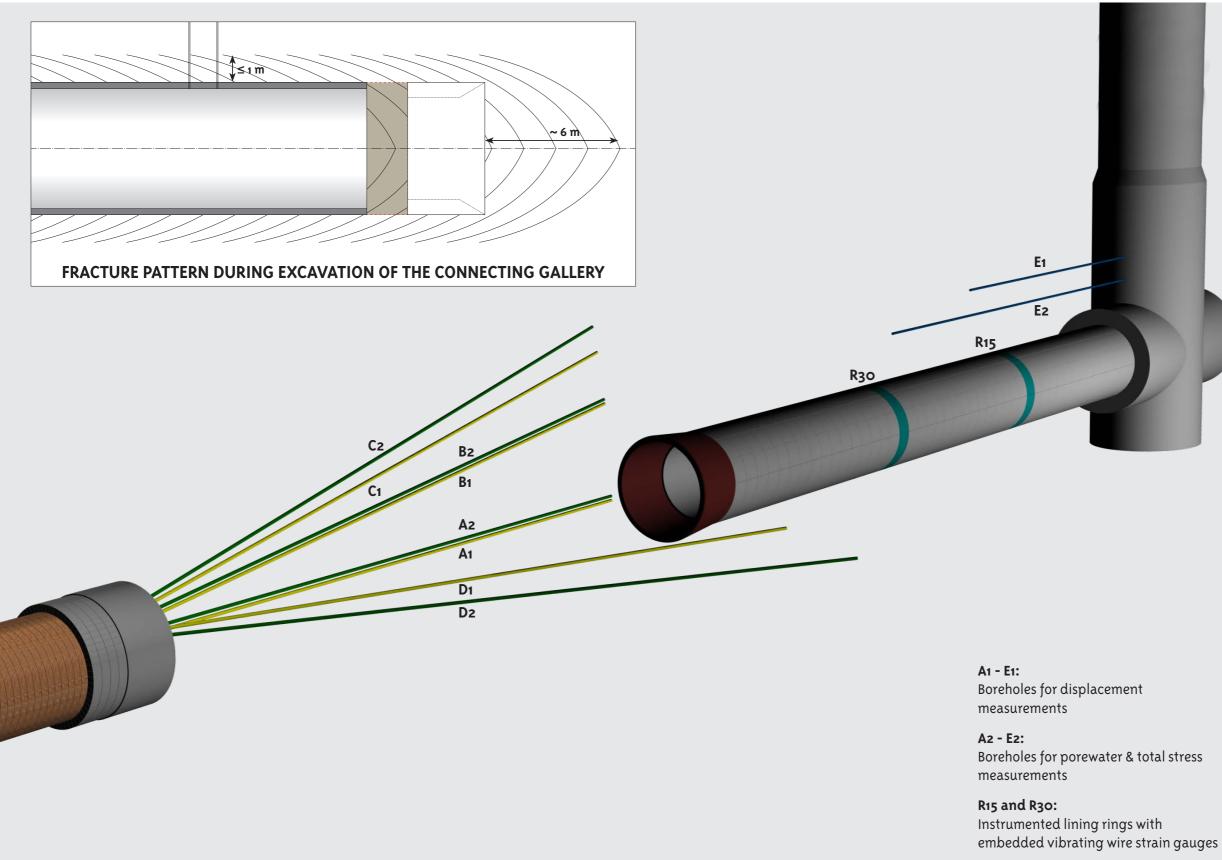
CLIPEX

1997 - 2003

CLay Instrumentation Programme for the EXtension of an underground research laboratory





GOAL

Monitoring the hydromechanical response of the Boom Clay to the excavation of the Connecting gallery.

March 1997 Characterization program

April -May 1998 Installation of sensors from Test drift front (A-D)

2000 Installation of sensors from second shaft (E1, E2)

2002

Construction of the Connecting gallery Installation of the instrumental lining segments (R15, R30, R50 and R75)

8 INSTRUMENTED BOREHOLES (A - D) DRILLED FROM TEST DRIFT AND TWO (E1 & E2) FROM THE 2ND SHAFT TO MONITOR THE VARIATION IN TOTAL STRESS, POREWATER PRESSURE AND DISPLACEMENTS IN BOOM CLAY

FOUR INSTRUMENTED LINING RINGS TO **MEASURE THE STRAIN EVOLUTION IN THE** GALLERY SEGMENT LINING AS A RESULT OF THE INSTALLATION PROCEDURE AND THE PRESSURE EXERTED BY THE CLAY HOST ROCK

CHARACTERIZATION OF THE FRACTURE PATTERN DURING AND AFTER EXCAVATION **BY VISUAL OBSERVATIONS OF THE EXCAVATED WALL AND FRONT AND BY ANALYSIS OF CLAY CORES**



