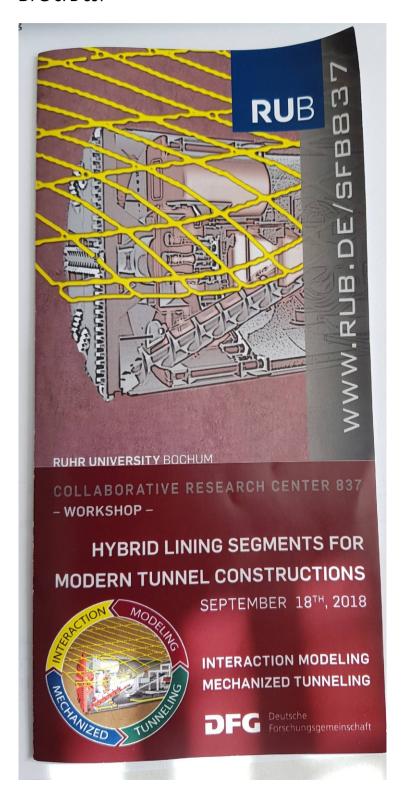
Herbert Klapperich Ruhr Universität Bochum 18. September 2018 "Hybrid Lining Segments for Modern Tunnel Constructions" DFG-SFB 837



INTERACTION MODELING

SFB 837 -PROJECT OBJECTIVES

Mechanized tunneling is an established flexible and efficient technology for the construction of underground infrastructure, characterized by a dynamic advancement of tunnel boring technologies, increasing diameters and a broadening range of applicability. This rapid development in association with the inherent heterogeneity of the ground poses new challenges to prognosis models.

Considering this background, the subject of the Collaborative Research Center SFB 837 "Interaction Models for Mechanized Tunneling" is the research and development of models, methods and design concepts, which, when adequately interlinked, can deal with the manifold complex interactions of the components and processes involved in mechanized tunneling.

Research within the four project areas of the SFB includes the ground exploration and modeling of the ground, the tunnel boring machine, the lining and annular gap grouting, and the interactions between tunneling and existing structures. Furthermore, the cutting, advancement and logistics processes are represented using adequate models integrated by means of a consistent SFB-wide tunnel information system.

HYBRID LINING SEGMENTS FOR MODERN TUNNEL CONSTRUCTIONS -

Intelligent use of steel fiber reinforcement

Participation is free. Please register online: www.rub.de/sfb837

