

PRESENTATION OF THE INSTITUTE

General

Foundation of the Institute of Rock Mechanics and Tunnelling in 1992

Independent institution for research and development in rock engineering

Teaching and research in the fields of rock mechanics and tunnelling

Close partner to public and private contractors, clients and consultants in questions of rock engineering

Emphasising the interdisciplinary co-operation between rock mechanics, soil mechanics and geology

Close contacts to the industry guarantee an up to date education and practice oriented research



Laboratory

State-of-the-art testing equipment

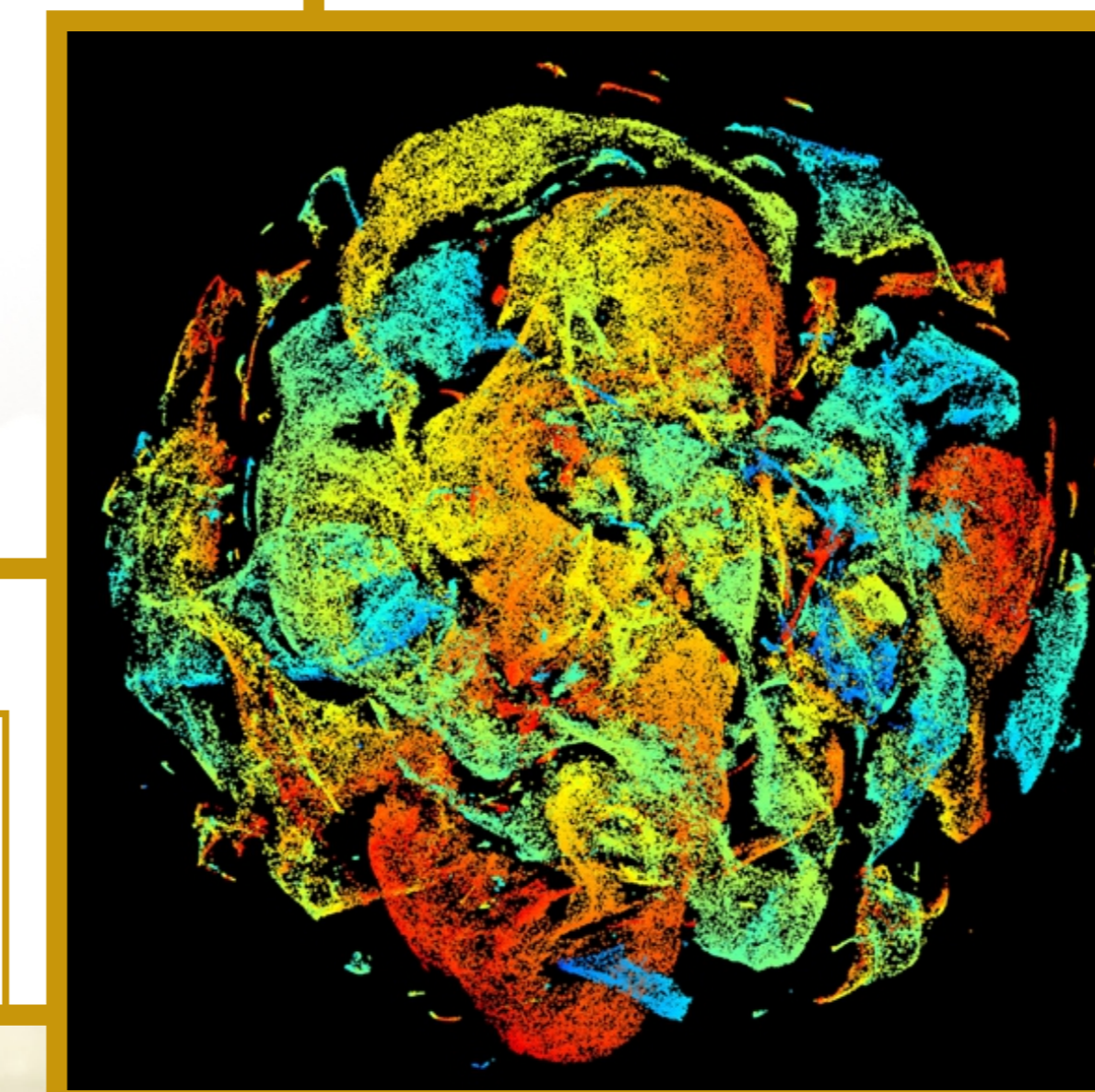
Uniaxial and triaxial compression tests

Shear tests (constant normal load / constant normal stiffness)

Large scale oedometer tests

High-response servo hydraulic machines with digital control technology

Scaled model tests



Fields of Research

Modelling and testing of hard soil / soft rocks

Modelling anisotropy of rock masses

Urban tunnelling

Machine learning in geotechnics

BIM in tunnelling

Mechanical aspects of landslides

Remote characterization of rock masses

Tunnelling in fault zones

Teaching

Bachelor's Programme Civil Engineering and Construction Management (TU Graz)

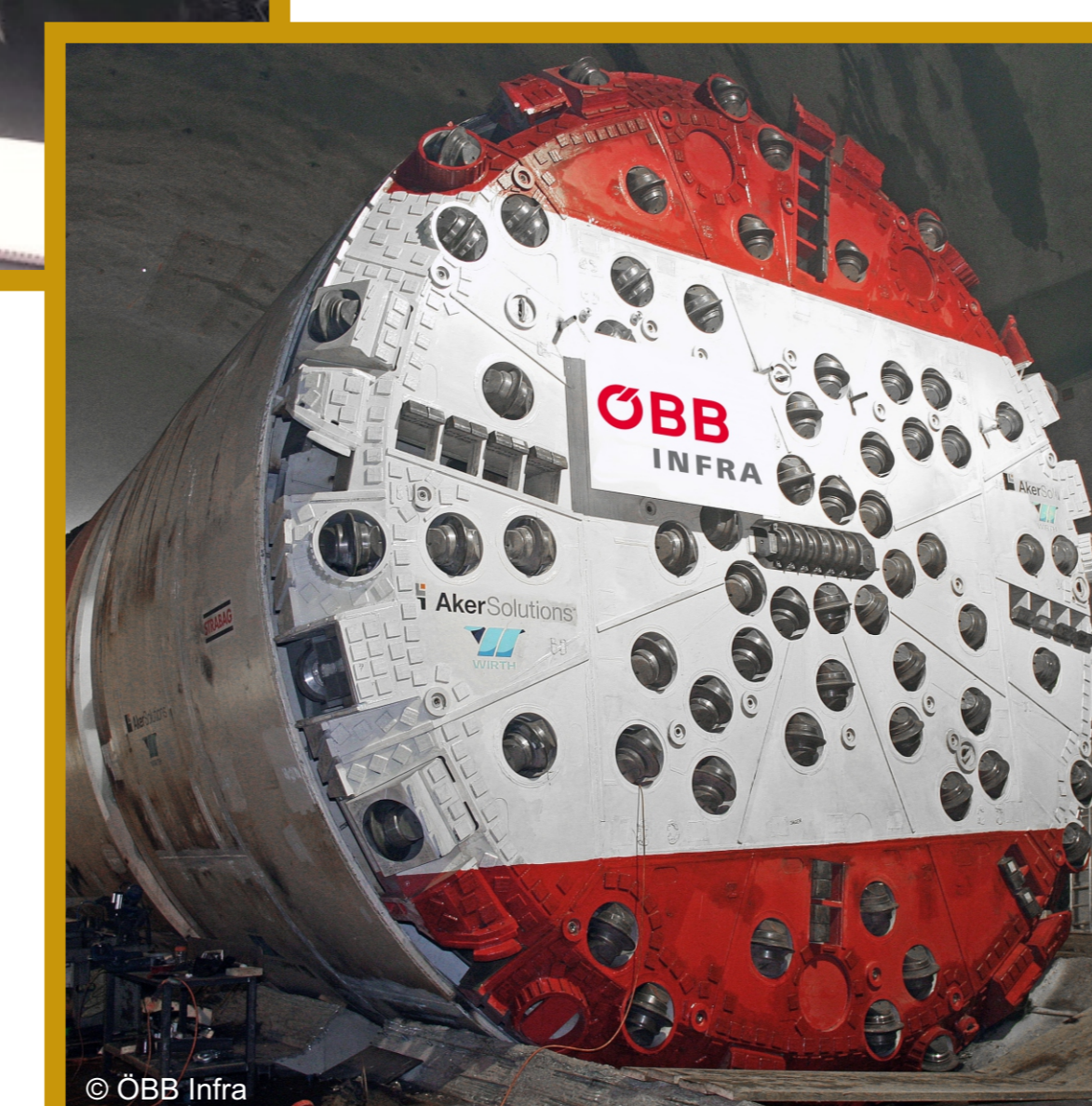
Bachelor's Programme Earth Sciences (NAWI)

Master's Programme Geotechnical and Hydraulic Engineering (TU Graz)

Master's Programme Earth Sciences (TU Graz / NAWI)

Doctoral School Civil Engineering (TU Graz)

University Programme NATM Master of Engineering – Construction, Rehabilitation and Operation of NATM- & TBM-Tunnels (TU Graz / MUL)



CONTACT

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