New Ulriken Tunnel Norway

Presented by: Torbjorn T. Bakketun
SCOPE OF WORK:
- New railroad tunnel 7.8 km, Arna- Bergen
- First TBM on railroad in Norway
- Northern Europe’s busiest single track stretch
New land, new partnership, new technology.

Stakeholders:
- BaneNOR (client)
- Norconsult (designer)
- Basler & Hofman (designer)
- Herrenknecht (TBM manufacturer)
CHALLENGING HARD ROCK CONDITIONS

➢ 358 Mpa
➢ Very few fractures
➢ Major fault zone

ACTIONS TAKEN:

➢ Reduced rock support
➢ Increase operational time
➢ 20 inch cutters
CROSSPASSAGES FROM OLD TO NEW TUNNEL
TEAMWORK
Miami, USA 18th November 2019

Torbjorn T. Bakketun Project Manager
We build for a better society!