

New Zealand



Name: New Zealand Tunnelling Society

Type of Structure: Incorporated non-profit

Number of Members: 77 individuals and Corporate Sponsors Two Platinum Three Gold and Two Silver Corporate Sponsors

ASSOCIATION ACTIVITIES DURING 2019 AND TO DATE

The NZTS held a series of technical presentations from industry across 2019.

There were two tunnelling short courses, a three day course by Dr Donald Lamont on health and safety, and the NZTS Annual one day short course

The NZTS published a GBR Guide for New Zealand on its website.

<https://nztunsoc.org.nz/wp-content/uploads/2020/03/A-Guide-for-GBRs-in-NZ-February-2020-FINAL.pdf> (free to download)

The New Zealand Tunnelling industry has commenced a worker competency training development programme sponsored by the major tunnelling

projects and supported by industry and the regulator Worksafe.

CURRENT TUNNELLING ACTIVITIES

In Auckland the two major tunnelling projects, the City Rail Link (CRL, metro) <https://www.cityraillink.co.nz/> and the Central Interceptor Project (CIP, wastewater) <https://www.watercare.co.nz/About-us/Central-interceptor> are well underway with TBM's expected in 2020. These two flagship projects continue the growth in the New Zealand tunnelling industry.

Various pipejacking projects for water supply wastewater and stormwater are underway including Snells Beach, Algies Bay Hunua 4 (two 1200m. 2.5m dia

pipejacks through basalt), St Mary's Bay and Ports of Auckland Stormwater, 2500 id pipe jack, 300m long.

Tunnel re-purposing and rehabilitation projects continue and are becoming more widespread. Projects include, the Northland Rail Upgrade (13 tunnels) by KiwiRail over 276km of railway as part of regional investment. Genesis has commenced a new Intake Gate for the Tekapo A Power Station to provide the ability to stop flow through the intake under full load conditions in an emergency.

Re-entry to the Pike River Coal mine, where 29 miners died in 2011 an event that has re-shaped health and safety practice in New Zealand has occurred in 2019 to '...to give the Pike River families closure, to promote accountability for this tragedy and to help prevent future mining tragedies.' <https://www.pikeriverrecovery.govt.nz/>

FUTURE TUNNELLING ACTIVITIES

Construction of the Mt Messenger Tunnels are likely to be accelerated in 2020 <https://www.nzta.govt.nz/projects/awakino-gorge-to-mt-messenger-programme/mt-messenger/>

The Lets Get Wellington Moving transportation initiative has been given significant momentum by the NZ government and may include a duplication of the existing Mt Wellington tunnel and a grade separation of the Basin Reserve <https://lgwm.nz/our-plan/our-projects/>

In Auckland, a new light rail system with a significant underground component through the central city is being evaluated by the Ministry of Transport for delivery <https://www.transport.govt.nz/land/auckland/atap/next-steps-on-auckland-light-rail/>



STATISTICS

Amount (USD or EUR) of tunnelling/ underground space facilities awarded in 2019

Approximately US\$2.4bn – skewed by the major projects CRL and CIP

EDUCATION ON TUNNELLING IN THE COUNTRY

The NZTS Committee continues to provide lectures at Auckland University and mentoring research projects including investigating the role of Erionite within the ECBF of Auckland.