

## PROJECT FACTS

Railway tunnel connection between Helsinki/Finland and Tallinn/Estonia, underpassing the Gulf of Finland

### TUNNEL LENGTH

Approx. 100 km

### LOCATION

Helsinki / Finland, Gulf of Finland and Tallinn / Estonia

### COST OF WORKS

Approx. Euro 15.0 bn

## 3G SERVICES

### 3G TASKS

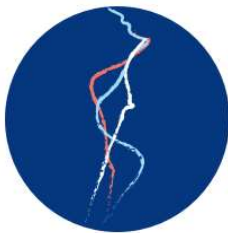
- Engineering geological consulting services for geological preliminary studies and design of investigation programme

### PERIOD OF 3G TASKS

2019

### CLIENT

A-Insinööri Civil Oy  
AINS Group  
Bertel Jungin aukio 9  
FI-02600 Espoo, Finland



## FINESTBAY AREA DEVELOPMENT

Project developer:  
FinEstBay Area Development Oy

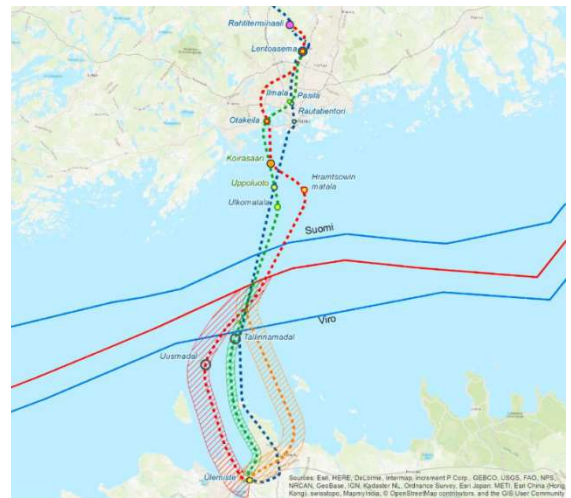
## PROJECT DESCRIPTION

Railway tunnel project, connecting the airport areas of Helsinki and Tallinn, with additional underground stations in both urban areas as well as at artificial islands, to be constructed for urban development projects.

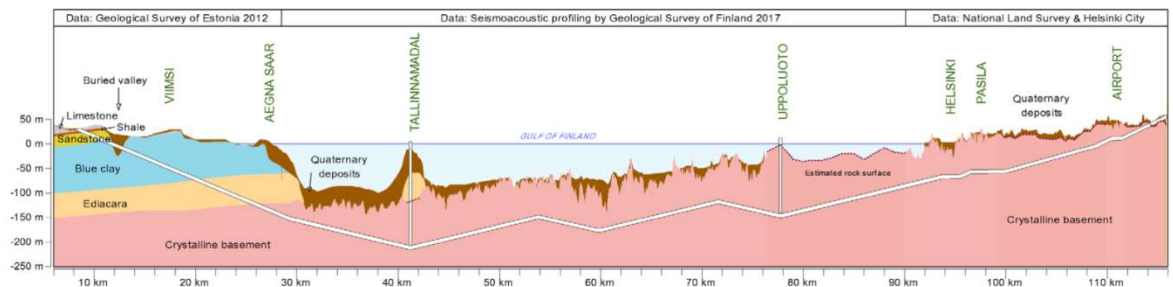
Tunnel construction will be done via access tunnels and shafts, partly constructed on artificial islands for construction access. Tunnel excavation will be performed by TBM and drill & blast methods. The deepest point of the alignment will be approximately 250 m below sea level.

Ground conditions along tunnel alignments dominated in the northern and central section by rocks of the crystalline basement, in the south by Palaeozoic sedimentary rocks.

Design of an extensive investigation program, consisting of various direct and indirect (= geophysical) investigation methods for on- as well as off-shore sections of the alignment alternatives.



Route alternatives for Helsinki – Tallinn Tunnel



Schematic geological cross section of tunnel below Gulf of Finland with Helsinki at the right and Tallinn at the left side (Original source of picture: FinEst Link 2018: Helsinki-Tallinn Transport Link. Feasibility Study – Final report 100 s.)