

# CAPITAL MARKETS DAY 2016

**THE FOLLO LINE PROJECT** | MORTEN LUND HOFFMANN  
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**THE LARGEST  
INFRASTRUCTURE  
INVESTMENT IN  
NORWAY**

**NOK 25 billion**  
total investment

**1<sup>st</sup> phase**  
of InterCity and high speed  
connection to Europe

**50 % reduction**  
in journey time

**1 % reduction**  
of annual climate gas emissions from  
Norwegian road freight traffic

# Four very different sub-projects, each of them alone a giant project

Connection to Oslo S

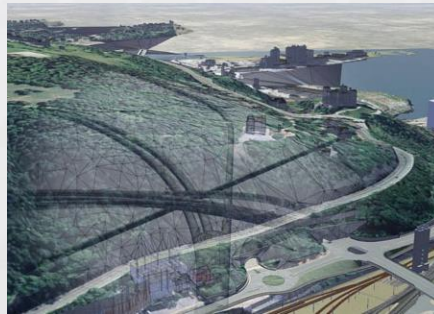


Core railway hub in  
Norway



Detailed  
planning

Tunnels - Ekeberg hills



Proximity to existing  
infrastructure



Drill and split – no  
blasting

Follo Line tunnels



Enormous dimensions



Single purpose  
concrete factory  
on site

Langhus and Ski station




Building through a  
living city




Close  
communication

# First mover challenges


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Large design and build contracts (EPC) based on offshore contract standard



Tunnel boring machine (TBM) not the traditional tunneling method in Norway



International contractors on all EPC contracts

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# Multiconsult chosen as Owner's Engineer



- Strategic decision to compete for Owner's Engineer contract
- Builds experience and position in the new EPC market



Jernbaneverket

FPS GROUP

AAS-JAKOBSEN

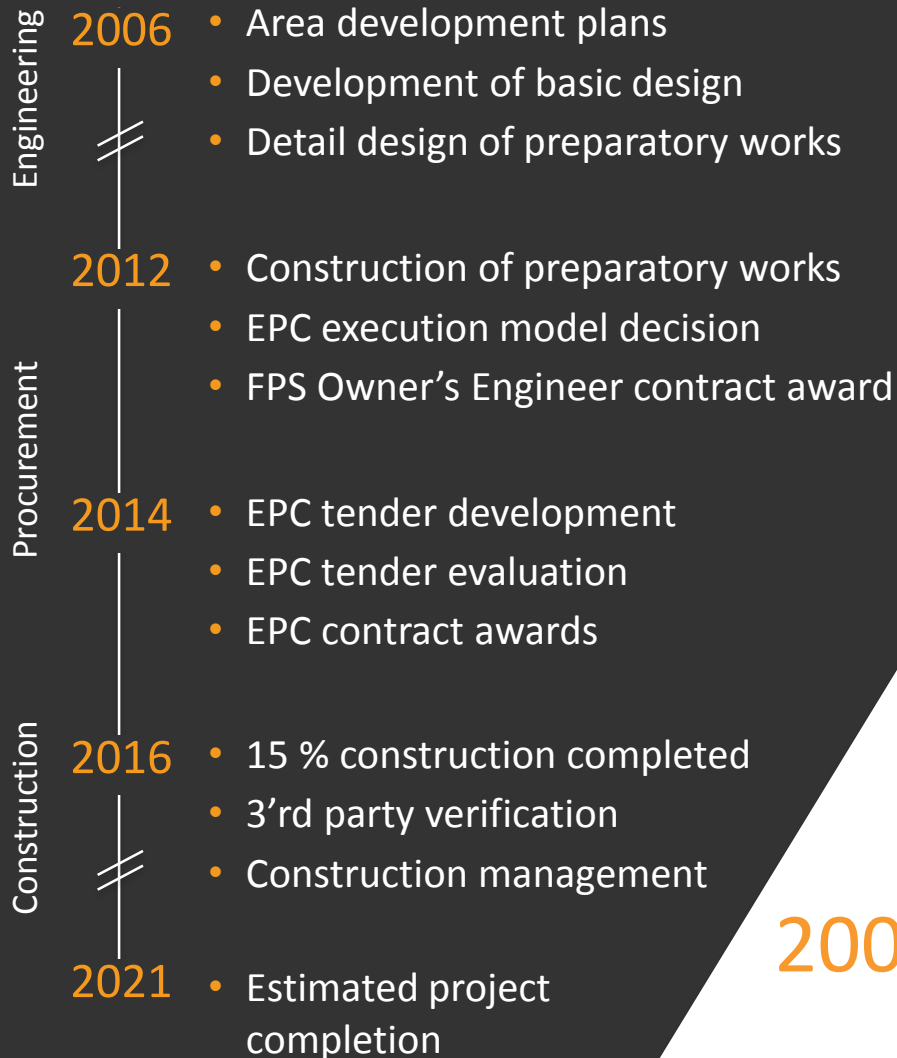
Multiconsult

AMBERG  
ENGINEERING

COMPETITIVE EDGE

- In depth knowledge and experience about the Follo Line area through previous contracts
- Norway's leading expertise and capacity within all required engineering fields

# Multiconsult highlights



**NOK 350 million**  
Multiconsult revenue

**200 architects and engineers**  
involved

# How to continue to succeed

Complex and mega size projects  
require experience and control

- Experience from large oil and gas projects
- Competence and organization
- Control systems

**Top 10**  
largest projects

**Profitability**  
high

**Project execution**  
100% billing ratio





SKI STATION 2021